

RESTRICTED

OP 0

(TWENTY-THIRD REVISION)

INDEX OF ORDNANCE PUBLICATIONS



7 MAY 1946

This publication is RESTRICTED and shall be safeguarded in accordance with the security provisions of U. S. Navy Regulations, 1920, Article 76

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NAVY DEPARTMENT
BUREAU OF ORDNANCE
WASHINGTON 25. D. C.

RESTRICTED

7 May 1946

ORDNANCE PAMPHLET 0 (TWENTY-THIRD REVISION)

INDEX OF ORDNANCE PUBLICATIONS

1. Ordnance Pamphlet 0 (Twenty-third Revision) is a listing of the following types of UNCLASSIFIED, RESTRICTED, and CONFIDENTIAL Ordnance publications stocked for issue by the Bureau of Ordnance:

Ordnance Pamphlets
Ordnance Data
Ordnance Technical Instructions
Ordnance Handling Instructions
Ordnance Modification Instructions
Ordnance Charts
War Department Publications

(NOTE: An index of Ordnance Circular Letters may be found in NAVORD OCL's CE1-45 and CE1a-45, "Ordnance Circular Letters—Cumulative Editions.")

2. Part 1 comprises a numerical listing. Each publication is again listed in Part 2, a subject index, by type of equipment. Part 3 contains a check list of Ordnance Pamphlets, Ordnance Data, and War Department publications most frequently requested and required by ships armed with 5-inch or smaller caliber guns.

3. Methods of distributing and instructions for ordering Ordnance publications are outlined in the introduction to this index.

4. This publication supersedes Ordnance Pamphlet 0 (Twenty-second Revision), which should be destroyed.

5. This pamphlet is RESTRICTED and shall be safeguarded in accordance with the security provisions of U. S. Navy Regulations, 1920, Article 76.



G. F. HUSSEY, JR.
Vice Admiral, U. S. Navy
Chief of the Bureau of Ordnance

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OPS

ODs

OTIs

OHIs

OMIs

CHARTS

ARMY

INTRODUCTION

DISTRIBUTION OF ORDNANCE PUBLICATIONS

Initial Distribution

All new Ordnance publications, and publications indicated as under preparation or revision in this index, will be automatically distributed to interested activities without request. Publications are initially distributed to Commanding Officers of Naval activities in accordance with the Standard Navy Distribution List.

How Initial Distributions Are Made

Information copies of Ordnance publications concerning specific Ordnance equipment are forwarded without request to the following:

- (1) To all Naval activities to which specific Ordnance equipment is assigned.
- (2) To activities which may be called upon to stow, transport, overhaul, repair, or otherwise handle specific Ordnance equipment.
- (3) To activities which train personnel in the operation, maintenance, repair, or handling of Ordnance equipment.
- (4) To higher echelons to which the above mentioned Naval activities are directly responsible.

Redistribution by Addressee

It is the responsibility of the Commanding Officer of each activity to insure distribution of Ordnance instructions to the officers and enlisted personnel working with applicable equipment, or otherwise responsible. It is also the responsibility of the Commanding Officer to distribute to subordinate activities under the command which are not listed in the Standard Navy Distribution List.

Reference Library

It is recommended that as Ordnance publications are received on initial distribution, a reference library or central file be made accessible to the officers and enlisted personnel whose work is concerned with Ordnance.

Number of Copies Forwarded for Redistribution and File

At the present time, this Bureau automatically forwards two (2) copies of applicable Ordnance pub-

lications to Naval activities included on the Standard Navy Distribution List unless it is otherwise indicated in the distribution list printed in each publication. Distribution to larger Naval activities, such as Navy Yards, has been established at five (5) copies or multiples of five (5) copies. Upon request, this Bureau will increase the number of copies now forwarded in order to meet the specified requirements of the requesting activity.

Commissioning Allowances

Commissioning Allowances of applicable Ordnance publications are automatically forwarded as indicated below. Each activity will receive all applicable publications on initial distribution.

To Ships. Publications for Naval vessels (LCIL and larger) are forwarded to the Prospective Commanding Officer in care of the Builder's Yard or Commissioning Detail. Shipment is made from 1½ to 3 months in advance of the commissioning date, depending on the type of ship.

To Aviation Activities at the times indicated below:

Each newly commissioned Aviation Squadron or Service Unit is responsible for securing its own commissioning allowance of Ordnance publications from the nearest Aviation Ordnance Publications Distribution Point in accordance with instructions placed in its commissioning jacket. These instructions will specify that the commissioning allowance be obtained by submitting NAVORD FORM 1 (ORDNANCE PUBLICATIONS AND FORMS REQUISITION) to the nearest Aviation Ordnance Publications Distribution Point listed thereon, requesting the following:

- (a) NAVORD LIST 20870 (Aviation Ordnance Allowances)
- (b) All applicable publications listed on NAVORD FORM 1412A (Commissioning Allowance of Ordnance Publications for Aviation Activities)
- (c) All applicable Aviation Ordnance publications issued subsequent to date of NAVORD FORM 1412A

Air Stations and Air Facilities will be forwarded their commissioning allowances automatically at the date of commissioning.

Advanced Base Aviation Functional Components at their initial assembly points. Air Ordnance Departments of Aircraft Carriers are designated to receive applicable publications from the commissioning Allowance shipped the PCO of the CVB, CV, CVE, or CVL 2½ months before the commissioning date.

To Advanced Base Functional "J" Components. Publications are forwarded by Bureau of Ordnance shipment order to the initial assembly point of each component. Subsequent initial distributions of Ordnance publications applicable to these activities are made to all *LIONS*, *CUBS*, *ACORNS* and *ARGUS UNITS*.

To Other Naval Activities Commissioning Allowances of Ordnance publications are individually determined for major shore establishments requiring Ordnance information.

Commissioning Allowance List (NAVORD FORM 1412)

This list enumerates all current Ordnance publications applicable to the Ordnance equipment assigned a specific type of activity and accompanies the shipment of the Commissioning Allowance. Ordnance publications should be checked against the allowance list provided and not against an allowance list prepared for any other ship or activity.

HOW TO ORDER ADDITIONAL ORDNANCE PUBLICATIONS

Nonregistered Publications. Requests for non-registered Ordnance publications not automatically received or for additional copies of publications received on initial distribution, should be submitted on NAVORD FORM 1 (Rev. 8/45) by the Commanding Officer to the nearest Ordnance Publications Distribution Center: Washington, D. C.; Mare Island, Calif.; Pearl Harbor, T. H. Distribution Center mailing addresses may be obtained from the Standard Navy Distribution List, or from the reverse side of NAVORD FORM 1. Copies of NAVORD FORM 1 are included in each copy of OP 0 (23rd Rev.), and additional copies may be obtained from the nearest Ordnance Publications Distribution Center.

Aviation Ordnance Publications. The reverse side of NAVORD FORM 1 also lists aviation activities serving as distribution points for Avia-

tion Ordnance publications, to which requests made out on this form may be addressed.

War Department Publications. War Department publications whenever applicable are initially distributed and furnished on Commissioning Allowances to Naval activities in the same manner as Bureau of Ordnance publications. Requests for War Department publications not included in this Index of Ordnance Publications shall be made to the Bureau of Ordnance accompanied by a notation of the Army equipment in Navy use to which the requested War Department publication applies.

Registered Publications. Registered Ordnance publications are distributed by the Chief of Naval Operations (DNC), Registered Publication Section, and may be obtained in accordance with instructions currently set forth by the Chief of Naval Operations in Letter 44-89 dated 15 January 1944, reprinted in Navy Department Bulletin of All Ships and Stations Letters January to June 1944.

NAVORD ORDALTS. Requests for NAVORD ORDALTS should be directed to the nearest Naval Shipyard; or to the Bureau of Ordnance Publications Distribution Center at the U. S. Naval Gun Factory, Washington 25, D. C.

Caution. It is essential that the correct abbreviation for each publication as listed in the applicable index be used to avoid misunderstanding and thus to speed the handling of orders.

DISPOSITION OF EXCESS COPIES OF NON-REGISTERED ORDNANCE PUBLICATIONS

Decommissioned activities or other activities with excess copies of Ordnance publications shall be guided by the following in their disposition:

Ordnance publications which should be returned:

- Bureau of Ordnance Manual
- Ordnance Pamphlets (OPs) hard covers
- Ordnance Pamphlets (OPs) on major caliber gun turret assemblies
- Unclassified publications
- NAVORD CHARTS which may be rolled
- War Department Technical Manuals on small arms

When in condition suitable for reissue, the above Ordnance publications should be returned to the nearest Ordnance Publications Center or Subcenters listed below:

The Superintendent
U. S. Naval Gun Factory
Washington 25, D. C.
(Attention: Ordnance Publications
Distribution Center)

Ordnance Publications Subcenter at
Pearl Harbor, T. H.
Mare Island, California

Ordnance Publications, drawings and forms which should be destroyed in accordance with U. S. Navy Regulations, 1920:

The handling and stowage costs involved in returning certain printed matter are disproportionate to the possible savings.

1. Nonregistered Ordnance publications classified as **CONFIDENTIAL**, except those indicated above, should be burned.

2. Nonregistered Ordnance publications classified as **RESTRICTED**, except those indicated above, should be shredded and salvaged in accordance with the present practice.

3. Ordnance drawings classified as **CONFIDENTIAL** should be burned; **RESTRICTED** or unclassified drawings should be shredded and salvaged.

4. Excess Ordnance forms should be shredded and salvaged.

DISPOSITION OF OBSOLETE NONREGISTERED ORDNANCE PUBLICATIONS

All nonregistered publications, when declared obsolete by Bureau of Ordnance letters to All Ships and Stations published in the Navy Depart-

ment Semimonthly Bulletin (Restricted), should be destroyed in accordance with U. S. Navy Regulations, 1920.

HANDLING OF REGISTERED ORDNANCE PUBLICATIONS

Registered Ordnance publications (ORDs) shall be handled in accordance with RPS 4 and U. S. Navy Regulations, 1920, Article 76.

SUPPLEMENTARY LISTINGS OF ORDNANCE PUBLICATIONS

The following sources are available for periodic listing of Ordnance publications:

Navy Department Semimonthly Bulletin. Bureau of Ordnance "All Ships and Stations" letters list new and/or revised Ordnance publications as soon as they are initially distributed. These Bulletins also contain Bureau of Ordnance letters issued when Ordnance publications are declared obsolete.

NAVAER 00-500. This Bureau of Aeronautics publication also lists current Aviation Ordnance publications which should be ordered from Ordnance Publications Distribution Centers as outlined in this introduction.

OTHER TYPES OF ORDNANCE PUBLICATIONS

(Not listed in OP 0)

Title	Short Title	Index (if any)
Bureau of Ordnance Manual	None	None
Ordnance Circular Letters	NAVORD OCL	CE 1-45 (Res)
Ordnance Circular Letters	NAVORD OCL	CE 1a-45 (Conf.)
Registered Ordnance Pamphlets	ORD	RPS 6
Ordnance Specifications	NAVORD OS	None
Ordnance Standards	NAVORD OSTD	NAVORD OSTD 0
Ordnance Alterations	NAVORD ORDALT	NAVORD ORDALT 00
Bulletin of Ordnance Information	NAVORD INFO	None
Ordnance Allowance Lists	NAVORD LISTS	None
Ordnance Reports	NAVORD REPORTS	None
Bureau of Ordnance Forms	NAVORD FORMS	None
Bureau of Ordnance Drawings	None	Bureau of Ordnance List Sketches
Bureau of Ordnance Line Sketches	None	None
Bureau of Ordnance Armament Summary	None	None

PART 1

NUMERICAL LISTING

* Under preparation.

Upon completion, publication will be distributed without request.

Under revision.

Upon completion, revision will be distributed without request.

New and revised publications, when available, are announced in the Navy Department Semimonthly Bulletin.

D—Unclassified, R—Restricted, C—Confidential.

ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
0	Index of Ordnance Publications.....	7 May 46	R	23rd rev
#1	Preparation of Ordnance Publications (<i>Preliminary</i>).....	11 Dec 44	D	1st rev. Issued with Change 1, dated 22 Feb 45 and Change 2, dated 31 Jul 45
#4	Ammunition, Instructions for the Naval Service Afloat.....	4 May 43	R	Revised. Issued with OCLs A10-43, A97-43, A97a-43, A41-44, and Change 1 dated 1 Jun 45
5	Ammunition Ashore Vol. 1.....	10 Jun 44	R	1st rev. Issued with Change 1 dated 23 Mar 45, Change 2 dated 24 Apr 45, Change 3 dated 22 Jun 45, Change 4 dated 19 Jul 45, Change 5 dated 23 Sep 45, and Change 6 dated 16 Oct 45
9	Gun Forgings, Army and Navy, Specifications for.....	May 1936	D	5th rev
18	Turret Guns and Sights, Instructions for Installation and Test of	Apr 1921	D	1st rev. Where instructions conflict with OP 762 the latter governs
35	Depth Charge Release Gear.....	Feb 1930	R	2nd rev. Issued with OCLs M15-42 and M5-43. Formerly registered. Will be superseded by OP 904
60	Index of Assemblies for U. S. Navy Mounts and Turrets Includes Guns Caliber 20-mm to 16"	29 Apr 44	R	5th rev
76	1 Pdr Range Table 2,000 fsiv to 3,500 Yds 40 cal Gun.....	Jun 1907	D	Supersedes OD 1460
81	3 Pdr Range Table 2,200 fsiv to 4,500 Yds 50 Cal Weight of Projectile 3.30 lbs Siacci's Method Corrected for Altitude, Ingall's Ballistic Table	May 1907	D	Supersedes Sk 1104
85	3 Pdr Breech Mechanism Mk 10.....	5 Apr 11	D	
93	6 Pdr Guns Rapid Fire Case Mks 1 and 2, Hotchkiss Mks 1 and 2, Driggs-Schroeder Mks 1 and 2 and Army Mk 3, Nordenfelt Mk 2	Dec 1902	D	Now Mks 3, 6, 7, 8, 10
95	6 Pdr Gun Mk 9 (Semi-automatic) Formerly Maxim-Nordenfelt Mk 2	Jan 1903	D	
96	6 Pdr Breech Mechanism Mk 9 Driggs-Seabury Type.....	May 1911	D	
98	6 Pdr Range Table 2,240 fsiv to 8,000 Yds Weight of Projectile 6 lbs Siacci's Method Corrected for Altitude, Ingall's Ballistic Tables	Jan 1918	D	1st rev

To requisition Ordnance Publications, use NAVFORD FORM 1 (Rev 8-45)

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OP No.	Title	Date	Class	Remarks
100	5" AA Mount Mk 19 and Mk 19 Mod 1, Assemblies 208, 211, 219, and 220, Description	Apr 1929	R	Page 21a added Mar 1933. Issued with Change 1 dated 30 Mar 44, Change 2 dated 21 Jun 45, and Change 3 dated 29 Jun 45. Supersedes OD 567
101	1, 3, and 6 Pdr Breech Mechanisms Mk 1 and 2, Hotchkiss (3 Pdr Mk 1 only)	Nov 1902	D	
103	6 Pdr Semi-automatic Breech Mechanism Mk 7.....	May 1903	D	
#105	Rangefinders—Care & Operation.....	May 1931	R	Issued with Change 1 dated 17 Jul 44. Supersedes OPs 356 and 456. Will be superseded by OPs 962 and 963
110	Gun Director Mk 18 and Mk 18 Mod 1 for 8" Twin Mounts. Director Firing Installation, Arma Type for CVs 2 and 3	Oct 1927	R	Supersedes ODs 895, 896, and 897. OP 756 only applicable OP to main Battery to <i>Texas</i> and <i>Saratoga</i> (Formerly registered)
112	6" Range Table 3,000 fsiv to 26,000 Yds for Submarine Gun .53 Cal	Mar 1927	R	Issued with Change 1 dated 2 May 44. Change 2 dated 14 Feb 45. Addenda A superseded by OP 1026. Supersedes OD 919
116	6" Range Table 2,300 fsiv to 19,000 Yds, Submarine Gun .53 Cal	Mar 1927	R	Issued with Change 1 dated 2 May 44, and Change 2 dated 14 Feb 45. Supersedes OD 918
#127	U.S. Naval Guns, Their Mk and Mods Description.....	Apr 1942	R	3rd rev
134	3" Range Table 1,650 fsiv to 5,000 Yds Blunt Pointed Projectile, Gun Mk 13 .23 Cal	Jun 1907	D	Supersedes Sk 1490
142	3" Breech Mechanism Mk 6.....	Apr 1911	D	
165	4" Gun Mounts .50 Cal Pedestal Type Mk 12 and Mk 12 and Mods	Jun 1943	R	1st rev. Supersedes OPs 150-A and 159
168	12" Range Table 2,900 fsiv to 34,000 Yds (50 Cal).....	May 1927	R	Issued with Change 1 dated 7 Feb 45. Supersedes OD 862
169	12" Range Table 2,100 fsiv to 21,000 Yds 45 and 50 Cal.....	Jun 1927	R	Issued with Change 1 dated 7 Feb 45. Supersedes OD 868
183	5" Range Table 2,300 fsiv to 12,600 Yds (51 Cal).....	Jul 1922	R	Supersedes OD 508
184	5" Range Table 3,000 fsiv to 19,000 Yds Long Pointed Projectile (i) 0.61 to (50 Cal)	Feb 1921	D	Supersedes Sk 3240
185	5" Range Table 3,150 fsiv to 22,600 Yds (51 Cal).....	Jun 1922	R	Supersedes OD 490
194	6" Range Table 2,300 fsiv to 17,500 Yds (i) 0.68 (50 and 53 Cal)	Aug 1921	D	Supersedes OD 452
195	6" Guns Mk 1, 2, 3, 4, 6.....	Oct 1902	D	
200	6" Range Table 2,800 fsiv to 25,000 Yds Long-Pointed Projectiles (i) 0.61 (50 Cal)	Feb 1921	D	1st rev. Modified by OP 1004. Supersedes Sk 3579
201	6" Range Table 2,600 fsiv to 15,000 Yds (i) 0.61 (50 Cal).....	May 1910	D	Supersedes Sk 3578
203	6" Range Table 2,150 fsiv to 18,000 Yds Long Pointed Projectile (i) 0.61 (50 Cal)	Feb 1921	D	1st rev. Accompanied by BuOrd Memo (Mn)
219	6" Mount Mk 16 (Twin) .53 Cal for <i>Cruisers</i> 4 to 13.....	Jun 1923	R	Available only on Bureau approval
225	7" Breech Mechanism Mk 1.....	Jun 1910	D	
227	8" Range Table 2,300 fsiv to 24,300 Yds (55 Cal).....	Oct 1927	R	Issued with Change 1 dated 2 May 44. Supersedes OD 940

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NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
230	14" Range Table 2,700 fsiv to 39,000 Yds (45 Cal).....	Jan 1928	R	Supersedes OD 989 and OP 211
239	Firing Locks, General Description of all Mk's and Mods.....	Jan 1941	R	3rd rev. COVERS Mk 8 Mod 2, Mk 9 Mod 2 and Mk 14 Mods 2, 3, 4
241	Binoculars Mk 11 and Mk 11 Mod 1, Description and Care.....	Apr 1928	R	Supersedes OD 899
243	8" Range Table 2,700 fsiv to 30,500 Yds (55 Cal).....	Aug 1928	R	Issued with Addenda A dated 1 Sep 42, Change 1 dated 2 May 44. Supersedes OD 1572
283	14" Breech Mechanism General Description of All in Service....	Apr 1930	R	Supersedes OPs 503, 506, 550
289A	12" Naval Rifles, Description.....	Aug 1918	D	
324D	Annual Torpedo Record, USN 1925.....	1 Sep 25	C	Formerly Registered. Issued only on Bureau approval
324E	Annual Torpedo Record, USN 1926.....	Sep 1926	C	Do
324F	Annual Torpedo Record, USN 1927.....	1 Sep 27	C	Do
324G	Annual Torpedo Record, USN 1928.....	1 Sep 28	C	Do
324H	Annual Torpedo Record, USN 1929, 1930, and 1931.....	1 Sep 31	C	Do
324I	Annual Torpedo Record, USN 1932.....	1 Sep 32	C	Do
324K	Annual Torpedo Record, USN 1933, and 1934.....	1 Sep 34	C	Do
348	Ballistics (Projectile) Underwater Trajectories and Behavior on Impact with Water	Jul 1912	D	
357	Rangefinders (U. S. Navy) Description Mk 1 Mod 1 Mk 2 and Mk 2 Mods 1, 2, 3 Mk 3, Mk 4 Mods 4 and 5, Mk 5, 6, 7, 8, 9, 10, 11	Feb 1913	R	
382B	Projectiles, Bombardment, Field, AA, Illuminating, Flat-Nose, Gas, Smoke, & Marker—Specifications for Projectile Bodies	Mar 1937	D	Reinstated, 1st rev
386B	Target Projectiles and Proof Shot, Specifications for.....	Apr 1935	D	1st rev
390	Illuminating Projectiles, Description and Range Tables.....	Jan 1921	R	1st rev. With Drift Curves. Supersedes ODs 388, 405. See OCL A88-43 for obsolete projectiles
392	Director Firing Installation, Vickers Type Directorscopes Mk 7 and 8	May 1923	R	Formerly Registered
393	Director Firing Installation, U. S. Navy Type.....	Aug 1918	R	Formerly Registered. Includes Directorscopes Mk 1 to 4
394	Rangefinder Mk 33 and Mk 33 Mods 1 and 2 Description.....	Sep 1930	R	With correction to page 35
#400	Specifications for the Manufacture and Inspection of Ordnance Material	Nov 1939	D	7th rev. Supplemented by OP 400A. Issued with Change 1 dated 7 Feb 45, Change 2 dated 11 Apr 45, and Change 3 dated 25 Apr 45
400-A	Specifications for the Manufacture and Inspection of Guns, Gun Barrels, Breech Mechanisms and Breech Housings	Mar 1939	D	1st rev. Supplements OP 400
411	Practical Interior Ballistics.....	Dec 1916	D	Used primarily for Gun Designers
416	Periscopes for Turrets, Torpedo Directors and Fire Control....	May 1918	R	
#416A	Periscopes for Turrets, Torpedo Director and Fire Control....	Apr 1914	R	Revision deferred, will supersede OP 495 when completed
423	Spotting Glasses Mk 1 to 4, Description, Care and Handling.....	Nov 1923	R	
426	Spotting Telescopes Mk 1 to 4, Description Care and Operation..	Jun 1923	R	
434	Elementary Optics, Theory and Calculations.....	Jul 1914	R	Will be superseded by OP 1410
435	Binoculars Mk 1 to 7 and Mods.....	Jun 1925	R	

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OP No.	Title	Date	Class	Remarks
440	5" Dotter Mk 10. Description.....	Feb 1914	D	
453	Stadimeters Mks 5 and 6.....	May 1930	R	1st rev. For Subs only. Issued only to users of the specific equipment not having the OP
460	Rangekeeper Mk 2 (Ford) Care and Operation.....	Dec 1922	R	Formerly Registered
463	Optical Repair Data.....	Jul 1942	R	1st rev. Issued with OTI F22-44, Addenda 1 dated 14 Jun 43, Change 2 dated 8 Nov 43, Change 3 dated 19 Feb 45, Change 4 dated 20 Jun 45, Change 5 dated 2 Jul 45, and Change 6 dated 25 Sep 45
469	Director Firing Installation, GE Type, General Description.....	Jun 1925	R	Formerly Registered
470	Director Firing Installation, Detailed Description (BB45 and 46), Main Battery Vol I, Secondary Battery Vol II	Mar 1926	R	Formerly Registered
472	Director Firing Installation, Gun and Torpedo Batteries, Detailed Description (CLs 6, 7, 10 to 13) GE Type	Mar 1927	R	Formerly Registered
473	Director Firing Installation, Gun and Torpedo Batteries, Detailed Description (DDs 212-217, 275-380) GE Type	Apr 1927	R	Formerly Registered
476	5" Breech Mechanism Mk 4.....	Apr 1911	D	
480	Submarine Attack Teacher Mk 1 Mod 1, Care and Operation....	May 1922	R	Supersedes OD 488
481	Broadside Gun Mount Telescopes (Preliminary).....	19 Sep 44	R	1st rev. Supersedes OD 780 and OP 349
482	Turret Sight, Optical Instruments.....	26 Apr 44	R	3rd rev. Supersedes OPs 345, 345A, 345B
486	Rangefinder Mk 35 and Mk 35 Mod 1 Description.....	Aug 1933	R	
*487	Rangefinder Short Base 1 1/2 meters and Lower.....			
*488	Rangefinders—Intermediate 3 Meters to 20 Feet (Deck Mounts) ..			
489	Rangefinders Mks 10, 13, 16 and 22 and Mods.....	Jun 1923	R	
495	Periscopes Mks 15, 16, 17, 18, 19 (Fire Control).....	Mar 1924	R	Will be superseded by revised OPs 416 and 416A
546	Caliber .45 Line-Throwing Gun, Description and Instructions for Use	29 Dec 44	D	1st rev
549	Star Gauge Mks 1, 2, 3 for Fleet use. Description.....	Feb 1935	R	For Fleet Use only. Supersedes OD 1573
551	Range Table (Surface Targets) for 5"/38 Cal Gun, 2,600 fsiv AA Common Projectile Mk 35	20 Jan 45	R	1st rev. Issued with Change 1 dated 2 Jun 45
*551A	AA Range Table for 5"/38 Cal Gun, 2,500 fsiv.....		R	
553	5"/38 AA Mounts Mk 21 and Mk 21 Mods 1 to 5, 9, 11 to 13, 15 to 19—Description	Aug 1939	R	3rd rev. Issued with Change 1 dated 30 Mar 44, Change 2 dated 2 Aug 44, Change 3 dated 21 Jun 45, Change 4 dated 29 Jun 45, and OTI G7-44
556	Stereoscopic Vision, Principles of.....	Apr 1934	R	Supersedes OD 992
563	6" Range Table 2,300 fsiv to 60° Elevation (.47 Cal) Detail Description	Sep 1934	R	With blueprint page 21,000 to 21,260 Yds
564	6" Range Table 2,800 fsiv to 60° Elevation (.47 cal).....	Sep 1934	R	
569	8" Triple Mounts for CAs 32, 34 and 36. Description.....	Dec 1934	R	Supersedes ODs 2091 and 2050. Will be superseded by OP 1028
572	Mines Mk 5 Description, Care and Operation.....	Jun 1923	R	Formerly Registered

*Under preparation.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
573	Director Firing Installation, AA Battery (Synchro Type) Gun Director Mk 33 and Mods 1 to 8, Detail Description	Feb 1938	R	1st rev. Supersedes OD 2091
577	21" A.W. Torpedo Tubes (Quad) Mks 11, 12, 13, and Mods. Description DDs 348-420	Dec 1939	R	4th rev. Issued with OCLs T4-43, T10-44
581	Bomb Rack Mk 42, Description.....	Jan 1937	R	Now issued by BuAcr. NAVAER No. 11-5-503
582	Antiaircraft Gun Mount Telescopes.....	13 Oct 44	R	1st rev. Cancels ODs 4610 and 4611
583	Rangefinder Mk 37 and Mods 1 to 4, Description, Optical Equipment	Oct 1941	R	
585	Torpedo Director Firing Installation (Synchro Type) Description	Jun 1941	R	2nd rev. Issued with OCL F4-43
588	Stereoscopic Training Instruments Mk 2.....	Dec 1935	R	With Addenda A dated Jul 1937. Will be superseded by OP 1009
589	5"/25 AA Mount Mk 19 Mods 5 and 12, and Mk 23 and Mk 23 Mods 1 and 2 (Army Manufacture) Description	Aug 1938	R	Issued with Change 1 dated 30 Mar 44, Change 2 dated 21 Jun 45, and Change 3 dated 29 Jun 45
#592	6"/47 Cal Triple Gun Turrets for CLs 40-43 and 46-50. Description and Instructions	May 1941	R	Issued with OCL G31-43, Change 1 dated 27 Jan 45, Change 2 dated 7 Feb 45. Supersedes OD 3376
597	Rangefinders Mk 39, Mk 42 and Mk 42 Mods 0 to 3. Description	Jun 1939	R	
597-A	Rangefinder, Mk 42.....	Jul 1943	R	Formerly Confidential. Covers: Mods 4, 5, 6, 8, 9, 10, 11, 12, 13
#599	Ordnance Drafting Room Regulations.....	Aug 1939	D	1st rev. Issued with OCL X5-43
605A	K-Type Mine Firing Mechanisms, Description.....	Jul 1942	R	Formerly Registered. Issued with OCL M5-42
606	Torpedoes, Bliss-Leavitt, 21' x 21" Mk 8 Mods 3C and 3D.....	Mar 1933	R	Issued with Change 1 dated 8 Aug 40. Formerly Registered Confidential
627A	U.S. Navy Torpedo Gyroscope, Non-Tumble Types.....	Oct 1942	R	Formerly Registered Confidential. Issued with OTI T5-44, and Change 1 dated 28 Nov 45
633	Drifting Mines Mk 7 Description, Operation and Assembly Instructions	10 Jan 44	C	Formerly Registered Confidential
635	Torpedoes Mks 14 and 23 Types.....	24 Mar 45	R	1st rev. Supersedes OP 635A and ODs 3834 and 3842
636	Net and Boom Defenses.....	Undated	C	Formerly Registered. Supplemented by OP 636A
636A	Net and Boom Defenses.....	27 Jun 44	R	Supplements OP 636
639	Aviation Ordnance, SBAE Parts Catalogue.....	Oct 1940	R	Formerly Registered. Issued with Change 1 dated 26 Jan 44 and OMI V25-44
640	Aviation Ordnance, Bombsight Mk 15 Mods 4 and 5 Parts Catalogue	Jan 1941	R	Formerly Registered Confidential. Issued with Change 1 dated 26 Jan 44, OTI V19-43 and OMI V25-44. Will be superseded by OP 649 1st rev

‡Under revision.

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ORDNANCE PUBLICATIONS

OP 0

OP No.	Title	Date	Class	Remarks
#642	Description, Adjustment, Care and Operation of U.S. Navy Torpedoes Mk 15 Mods 1, 2, and 3	Jul 1942	R	Formerly Registered Confidential. Issued with Change 1 dated 24 June 44, Change 2 dated 20 Nov 44, Change 3 dated 31 Oct 45, and OTI T5-44. Supersedes OP 624
#649	Aviation Ordnance, Bombsight Mk 15 Mods 4 and 5. Operation..	Oct 1941	R	Issued with OCL V19-43 and OTI V41-43. Formerly Registered Confidential. Supersedes OP 611. Will supersede OPs 640, 650, and will include Mods 6 & 7
650	Aviation Ordnance, Bombsight Mk 15 Mods 4 and 5, Maintenance	Oct 1941	R	Formerly Registered Confidential. Issued with Change 2 dated 20 Mar 44, Change 3 dated 5 Oct 44, OCL V9-42, and OTIs V41-43, V17-44. Will be superseded by OP 649 1st rev. Supersedes OP 611
655	C-1 Mine Firing Mechanisms Description of Operation.....	May 1943	C	Issued with change 1 dated 24 Apr 44
656	Fire Control Radar Type FA—Operation.....	Jan 1943	R	Formerly Registered
657	Fire Control Radars Mk 3 (FC) and Mk 4 (FD).....	Apr 1943	R	1st rev. Formerly Registered. Issued with Change 1 dated 21 Oct 43, and Change 2 dated 2 Aug 44
658	Radar Equipment Mk 8 Mods 1 and 2.....	2 Apr 45	R	1st rev
659	Stabilized Bombing Approach Equipment, Operation & Maintenance	Mar 1942	R	Formerly Registered. Issued with OTI V17-44
662A	Depth Charge Mk 8, Description and Instructions for Use.....	Oct 1943	R	Formerly Registered Confidential
#663	Description, Adjustment, Care and Operation and Shop Tests of Torpedo Warhead Attachments	Nov 1942	R	Issued with OP 663A, OTIs T10-43, T17-43, T2-44. Supplemented by OP 663A
663A	Supplement to OP 663.....	Feb 1943	R	Issued with OP 663 and its related publications
665	Mine Mark 12 and Modifications—Operational Characteristics....	Nov 1943	C	Formerly Registered
666	Electrochemical Horns Mk 5 and Mk 5 Mod 1, (For Mines Mk 5 and Mk 10 Mod 1) Description and Operation	May 1943	R	
668	M-4 Mine Firing Mechanisms and Modifications—Description and Instructions for Use	Aug 1943	R	Formerly Registered
676	M-3 Mod 2 Mine Firing Mechanism and Electrical Accessories—Description and Instructions for Testing	Nov 1943	R	Formerly Registered
687	Monitor Mk 3 Mod 0 and Associated Equipment.....	7 Jul 45	C	Formerly Registered
#688	SWOD (Radar) Mk 2 Mod 1 (Preliminary).....	27 Mar 45	C	Do
689	Monitor Mk 2 Mod 1 and Associated Equipment (Preliminary)..	27 Mar 45	C	Do
690	Special Bomb Fuzes Mk 235 and 236, Description and Operation	Jul 1944	C	Do
700	5" Mounts (38 Cal. AA Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, 11, Assemblies, Description and Instructions	Sep 1942	R	Issued with Change 1 dated 30 Mar 44, Change 2 dated 2 Aug 44, Change 3 dated 12 Jan 45, Change 4 dated 21 Jun 45, Change 5 dated 29 Jun 45, OTI G7-44
703	Theory and Description of Arma Vacuum Tube, Triple Follow-up Circuits	Aug 1937	R	

*Under revision.

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NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
704	8" Triple Gun Turrets for CA 45.....	Oct 1941	R	Supersedes earlier blueprinted copies
717	1".10 Range Table and Ballistic Data 2,600 fsiv to 7,400 Yds AA (75 Cal)	Nov 1939	R	1st rev. With Change 1 dated 2 Sep 44
721	Depth Charge Release Gear Mk 3, Description and Operation....	Feb 1938	R	Issued with OCLs M25-43, M25a-43, and OTI M11-43. Will be superseded by OP 904
735	5"/38 Cal Gun Mounts AA Base Ring Type Mk 30 and Mk 30 and Mods, except Merchantmen Types	May 1943	R	1st rev. Issued with Change 1 dated 30 Mar 44, Change 2 dated 2 Aug 44, Change 3 dated 12 Jan 45, Change 4 dated 21 Jun 45, Change 5 dated 29 Jun 45 and OTIs G17-43 and G7-44. Supersedes ODs 2578, 2579, 2595, 3052, 3173, 3314, 3362, 3459, 3858, 3897, and 4055
742	5"/25 Cal Loading Machine Mk 13, Army Manufacture, Description	Jun 1938	R	Issued with OTI G7-44
743	5"/38 Cal Loading Machine Mk 12 Mods 2 and 3 Army Manufacture, Description	Jul 1938	R	Issued with OTI G7-44
744	Optical Equipment, Rangefinder Mk 44 and Mk 44 Mod 1 (Aircraft)	Jan 1941	R	Issued with Change 1 dated 6 Mar 44. Supersedes OD 3745
745	5"/38 Cal Mount Mk 29 (Twin) CLs 49 and 50	1942	R	Issued with Change 1 dated 30 Mar 44, Change 2 dated 21 Jun 45, Change 3 dated 29 Jun 45 and OTI G17-43. Applicable to ST LOUIS only
747	Depth Charges Mk 6, Mk 6 Mod 1, Mk 7, Mk 7 Mod 1—Operating and Maintenance Instructions	22 Dec 43	R	1st rev. Issued with Change 1 dated 12 Sep 44, Change 2 dated 21 Sep 44, Change 3 dated 6 Dec 44, Change 4 dated 24 Jul 45; OCLs M7-44, M32-44; OTIs M2-44 and M7-44. Supersedes OTIs M2-43, M6-43; OCLs X677, X679, X680, M10-42, M2-43, M4-43, M11-43, and M23-43
#748	5"/38 Cal Enclosed Single Mounts AA Mk 25 and Mk 25 Mods 1 and 2 (Preliminary)	Jan 1941	R	Revision deferred. Issued with Change 1 dated 30 Mar 44, Change 2 dated 2 Aug 44, Change 3 dated 21 Jun 45, Change 4 dated 29 Jun 45; OTIs G17-43 and G7-44. Supersedes OD 3353. Incorporates OD 2762
750	16" Range Table 2,520 fsiv to 40,600 Yds. AP Projectile (45 Cal)	Jun 1940	R	With Change 1 dated 24 Feb 45. Replaces Blueprint Forms of Feb 1939

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OP No.	Title	Date	Class	Remarks
751	16" Range Table 1,935 fsiv to 25,300 Yds. AP Projectile (45 Cal)	Jun 1940	R	With Change 1 dated 24 Feb 45, and Change 2 dated 26 Jul 45. Replaces Blueprint forms of Feb 1939
#755	16" Triple Turret for BBs 55-60 (45 Cal) Description & Instructions	Dec 1941	R	1st rev. With Change 1 dated 30 Oct 44
756	Gun Director Mk 37 and Mods for Ships having 5"/38 DP Guns	Apr 1941	R	Issued with OP 756A. Will be superseded by OP 1060
756A	Gun Director Mk 37, Alignment and Adjustment Procedure Aboard Ship	14 Jul 43	R	Issued with OP 756, Change 1 dated 28 Oct 43, Change 2 dated 29 Mar 44, Change 3 dated 19 May 45. Change 3 supersedes OD 4421 Part 1. Will be superseded by OP 1060
757	16" Range Table 2,300 fsiv to 36,900 Yds AP Projectile (45 Cal)	Oct 1940	R	Issued with OCL F8-43, Change 1 dated 11 Apr 44, Change 2 dated 24 Feb 45
758	16" Range Table 1,800 fsiv to 23,930 Yds Target Projectile (45 Cal) (50 Cal)	Oct 1940	R	With Change 1 dated 24 Feb 45, and Change 2 dated 26 Jul 45
*760	6"/47 Cal DP Twin Turret CL 144.....	.....	..	.....
761	3"/50 Cal Submarine Mount Mk 18 (Wet Type) Description....	Jul 1940	R	.....
#762	Alignment of Ordnance Installation on Board Ship. General Instructions	Sep 1942	R	1st rev. With supplement dated Sep 1942, supersedes Chapter 16 of Gunnery Instructions 1933. Where instructions conflict with OP 18 this OP governs
764	21" AW Torpedo Tubes Mk 14 and Mods, Mk 15 and Mods (Quintuple Tubes) (Preliminary)	29 Mar 44	R	1st rev. Supersedes OCL T8-43. Issued with OCL T10-44
768	Bombing Table 500 lb Demolition Bomb Mk 9 and Mk 12 (Bomb-sight Mk 15 Mods 4 and 5) Ballistic Coefficient 2.2	Jul 1942	R	With Addenda, 2nd page of Low Altitude Bombing Table, addition completed, Change 1 dated 20 Nov 44
#769	16" Triple Gun Turrets, Main Armament for USS IOWA Class BBs 61-66, 16"/50 Cal (Preliminary)	Jun 1943	R	With Change 1 dated 30 Oct 44
770	16" Range Table 2,500 fsiv (50 Cal) to 42,345 Yds.....	Oct 1941	R	With Change 1 dated 11 Apr 44, Change 2 dated 24 Feb 45
#775	5"/38 Cal Loading Machine Mk 16 Mods 1 and 2. Description (Army Manufacture)	Jan 1941	R	Issued with OTI G7-44
779	Viewing Instruments Mk 3 Description.....	Sep 1941	R	.....
#783	5"/38 Cal Twin Loading Machine Mk 15 and Mk 15 Mod 1, Army Manufacture, Description	Mar 1941	R	Issued with OTI G7-44
789	Range Table for 12"/50 Cal Gun; 1140-lb AP and Target Projectiles iv 1,800 fs, 2,300 fs, 2,500 fs	4 Mar 44	R	With Change 1 dated 23 Jan 45. Page 71 superseded by OP 1461, Pages 74 and 75 superseded by OP 1460. Supersedes OPs 938, 939, and 940
793	Bombing Table 1,000 Demolition Bomb Mk 13 & Mk 13 Mods 1 and 2 Bombsight Mk 15 Mods 4 and 5	Feb 1942	R	With Addenda, 2nd page of Low Altitude Bombing Table, and Change 1 dated 20 Nov 44

*Under preparation. §Under revision.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
797	Bombing Table Practice Bomb Mk 7, Bombsight Mk 15 Mods 4 and 5. Waterfillable 1000 lb Dimensions	Feb 1942	R	
801	Bombing Table for Practice Bomb Mk 15 Mod 2, Waterfillable 100 lb Dimensions Bombsight Mk 14 Mods 4 to 7	Jun 1943	R	1st rev
803	Illuminated Sight Mk 8, Description.....	Nov 1941	R	Issued with Change 1 dated 12 Sep 44, Change 2 dated 10 Apr 45, Change 3 dated 13 Jul 45, OTIs FV4-43, FV5-43, FV12-43; OMI's V17-44, V30-44, and OP 803A
803A	Illuminated Sight Mk 8 and Mods Parts Catalogue.....	1 Jul 44	R	Issued with OP 803
#805	5"/38 Cal Twin Gun Mounts, AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2. Description and Instructions	Feb 1942	R	Issued with Appendix 3, Change 1 dated 30 Mar 44, Change 2 dated 2 Aug 44, Change 3 dated 12 Jan 45, Change 4 dated 22 May 45, Change 5 dated 6 Jun 45, Change 6 dated 21 Jun 45, Change 7 dated 29 Jun 45, Change 8 dated 24 Jan 46; OTIs G17-43, and G7-44
807	8" Range Table 2,500 fsiv to 30,500 Yds.....	Jan 1942	R	With Change 1 dated 22 Feb 45, and Change 2 dated 16 Jun 45
808	Fuze Setter Mk 11 and Mk 11 Mods 1 and 2, Description and Instructions	Dec 1941	R	
#810	Fire Control Equipment, Gun Director Mk 38 and Mk 38 Mods 1 and 5, with Associated Fire Control Equipment, Description BBs 55-60 (<i>Preliminary</i>)	Oct 1942	R	1st rev. 2nd rev. will supersede ODs 3867, 2339, and 2346
811	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods and Mk 22 and Mods	22 Dec 43	R	1st rev. Change 1 dated 9 Jan 45 canceled. With Change 2 dated 25 Oct 44, Change 3 dated 7 Mar 45 supersedes OCL G20-43, Change 4 dated 13 Jul 45. Supersedes OD 4431
812	Gun Director Mk 40 BBs 55-66 Description (<i>Preliminary</i>)	19 Apr 43	R	1st rev
818	Bombing Table 1,600 lb AP Bomb Mk 1 Bombsight Mk 15 Mods 4 and 5	Feb 1942	R	Appended. Page 2 of Low Altitude Bombing Table
820	40-mm Antiaircraft Gun; 40-mm Machine Gun Mechanism Mk 1, Mk 2, Mk 1 Mod 1, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sight Mk 3 and 4—Description and Operation (<i>Preliminary</i>)	Oct 1943	D	Issued with Change 1 dated 17 Jul 44, Change 2 dated 27 Mar 45 supersedes OP 820A, Change 3 dated 10 May 45, Change 4 dated 22 Aug 45; OCL G13-44, and OTI G6-43. Supersedes OD 3781 and OP 820A
*820C	Parts list for 40-mm AA Gun; 40-mm Machine Gun Mechanism Mk 1 Mod 2, Mk 1 Mod 1, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sights Mk 3 and 4, Description and Operation (<i>Preliminary</i>)	.....	..	
*821	40-mm AA (Twin) Gun Mount Mk 1 and Mods.....	.....	..	Will supersede OD 3782, ODs 4408, 4690 for Twin Mounts
821A	Train Power Drive Mk 4; Elevation Power Drive Mk 4; 40-mm Mount Mk 1 Mod 2, and 1".1 Mount Mk 2 Mod 6	18 Oct 45	R	Supersedes OD 3906

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OP No.	Title	Date	Class	Remarks
*821B	Train Power Drive Mk 4; Elevation Power Drive Mk 4; 40-mm Mount Mk 1 Mod 2, and 1"1 Mount Mk 2 Mod 6		..	
*822	40-mm AA (Quad) Gun Mount Mk 2 and Mods.....	.....	..	Will supersede OD 4391, ODs 4408, 4690 for Quad Mounts
*822A	40-mm AA (Quad) Gun Mount Mk 2 and Mods.....	.....	..	
824	AA Range Table 3"/50 Cal Gun iv 2,615 fs AA Projectiles Mks 23 and 27. Mechanical Time Fuze Mk 22	May 1943	R	With Change 1 dated 17 June 44
825	Rangefinders Mk 46 and Mk 46 Mod 1, Mk 47 and Mk 47 Mod 1. Description	Nov 1942	R	
830	Range Table for 6"/47 Cal Gun 2,500 fsiv 130-lb AP Projectile..	6 Jan 44	R	1st rev. Incorporates OD 3724. With Change 1 dated 27 Dec 44, and Change 2 dated 19 Nov 45
831	Depth Charge Projector Mk 6 Mod 1 and Mod 2.....	21 Jul 44	R	1st rev. Supersedes OCL M24-43
832	Range Table for 6"/47 Cal Gun 2,050 fsiv 130-lb Projectiles.....	7 Mar 44	R	1st rev. With Change 1 dated 27 Dec 44, and Change 2 dated 14 Dec 45. Supersedes OD 3726
#833	6"/47 Cal Triple Turrets, CL 55 Class.....	Jun 1942	R	Issued with Appendix 1 containing Assemblies, Change 1 dated 27 Jan 45, and OCL G31-43. Supplemented by OP 1069
#834	8" Triple Gun Turrets, <i>USS BALTIMORE</i> Class, CAs 68-75, 122-138 (Preliminary)	Apr 1943	R	With Change 1 dated 20 Sep 45
835	12" Triple Gun Turrets, Main Armament for <i>USS ALASKA</i> , <i>GUAM</i> , and <i>HAWAII</i> (Preliminary)	25 Oct 44	R	
839	Bombing Table 1000 lb GP Bomb AN-M44 and 1000 lb GP Bomb AN-M65, Bombsight Mk 15 Mods 4 and 5	Jul 1942	R	Includes table of release lags for 4 lb Incendiary Bombs AN-M50 and AN-M54
841	Bombing Table 500 lb GP Bomb AN-M43 and AN-M64 Bomb-sight Mk 15 Mods 4 and 5. Includes Table of Release Lags for 4 lb Incendiary Bomb AN-M50 and AN-M54	Jul 1942	R	
847	Bombing Table 1000 lb SAP Bomb AN-M59, Bombsight Mk 15 Mods 4 and 5. Includes Table of Release Lags for 4 lb Incendiary Bombs AN-M50 and AN-M54	Jul 1942	R	
849	Bombing Table 100 lb GP Bomb AN-M30, Bombsight Mk 15 Mods 4 and 5. Includes Table of Release Lags for 4 lb Incendiary Bombs AN-M50 and AN-M54	Aug 1942	R	
851	Turret Train Indicator and Transmitter Mk 37 Mods 0 and 6....	11 May 45	R	With Change 1 dated 10 Sep 45
852	Sight Setters Indicator Mk 1 Mods 0 and 5.....	11 May 45	R	Supersedes ODs 2358 and 4461
853	Fire Control Equipment, Illumination Corrector Mk 1, Description (Preliminary)	Oct 1942	R	
854	Fire Control Equipment, Gun Elevation Indicators Mk 33 and Mk 33 Mods 1 and 4. Description (Preliminary)	Jul 1942	R	
*856	Fire Control Systems BBs 55 to 60. Descriptions.....	.....	..	Will supersede OD 2337
857	Gun Director Mk 35 and Mk 36 with Associated Fire Control Equipment, Description (Preliminary)	Jan 1942	R	Supersedes OD 3319
858	8" Range Table 335-lb Projectile 2,000 fsiv.....	May 1942	R	With Change 1 dated 21 Feb 45, and Change 2 dated 16 Jun 45. Incorporates OD 3728 without change

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NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
861	Range Table for 3"/50 Cal AA Gun, 2,700 fsiv 13-lb AA Projectile	23 May 44	R	1st rev. With Change 1 dated 11 Jan 45
862	Bombing Trainer Mk 2, Instructions and Syllabus for.....	May 1942	R	This is a corrected reprint of the original pamphlet as furnished by the Transition Training Squadron, Aircraft Scouting Force, U. S. Pacific Fleet
863	Illuminated Sight Mk 9 and Mods—Service Manual.....	30 Aug 45	R	
863A	Illuminated Sight Mk 9 and Mk 9 Mod 1—Parts List.....	Oct 1943	R	
865	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. With Change 1 dated 16 Jul 45. Supersedes OPs 865 and 865A
#866	Depth Charge Mk 9 and Modifications. Description and Instructions for Use	12 Feb 44	R	1st rev. Issued with OCLs M5-43, Change 1 dated 11 Aug 44. Will supersede OCLs M14-44 & M10-44
867	AA Range Table for 40-mm AA Guns, 2,800 fsiv AA Projectile Mk 2, with Tracer Mk 11	28 May 45	R	1st rev
867A	Range Table (Surface Targets) for 40-mm AA Gun, 2,800 fsiv AA Projectile Mk 2 with Tracer Mk 11	23 Aug 45	R	This OP with OP 867B supersedes OP 1181
867B	Range Table (Surface Targets) for 40-mm AA Gun, 2,800 fsiv AP Projectile M81A1	23 Aug 45	R	With Change 1 dated 27 Nov 45. This OP with OP 867A supersedes OP 1181
868	5"/38 Cal Single Mount Mk 37.....	Feb 1943	R	Issued with Change 1 dated 2 Jan 45, Change 2 dated 12 Jan 45, Change 3 dated 21 Jun 45, Change 4 dated 29 Jun 45, Change 5 dated 27 Jun 45, and OTI G7-44. Issued in Jun 1944
874	Bombing Table British Bomb, GP 500 lb Mk 4/A, Bombsight Mk 15 Mods 4 and 5	Dec 1942	R	
877	Bombing Table British Bomb, Anti-Submarine 500 lb Mk 3, Bombsight Mk 15 Mods 4 and 5	Dec 1942	R	Issued in case of request for OP 894. <i>ALSO APPLICABLE TO:</i> British Fragmentation Bomb 20 lb Mk 1
878	General Data on Navy, AN-Standard, Army and British Bombs...	21 Sep 44	R	2nd rev. Issued with OCL V12-44
879	Bombing Table British Bomb GP 1000 lb Mk 1(A). Bombsight Mk 15 Mods 4 and 5	Dec 1942	R	
880	Fire Control Equipment, Sight Setters Indicators Mk 3 and Mk 3 Mods 1 to 3, BBs 55-62	Nov 1942	R	
881	Fire Control Equipment, Gun Elevation Indicators Mk 23 and Mk 23 Mods 1 to 3 (<i>Preliminary</i>)	Jul 1942	R	
882	Fire Control Equipment, Gun Elevation Indicator Mk 40, Description (<i>Preliminary</i>)	Jul 1942	R	8" Turrets CAs 68-75
883	Gun Elevation Indicators Mk 40 Mod 1 and Mk 41 Mods 0 and 1	14 Jul 45	R	Supersedes ODs 2360 and 2361
884	Bombing Table British Bomb, General Purpose 40 lb Mk 3/A/ and Bomb General Purpose 150 lb T1, Bombsight Mk 15 Mods 4 to 8	May 1943	R	Title Changed by Change 1 dated 21 Oct 44
886	Bombing Table 1,000-lb Armor-Piercing Bomb AN-Mark 33 Bombsight Mk 15 Mods 4 to 8	4 Nov 44	R	
887	3" Loading Machines Mk 7 and Mk 7 Mods 1 and 2.....	Sep 1942	R	

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OP No.	Title	Date	Class	Remarks
888	Mines Mk 6 and Mods, Description and Instructions for Assembling, Handling, and Planting	13 Feb 45	R	1st rev. Issued with OCLs M5-42, M13-44, M29-44; OTIs M4-44, and M7-44. Supersedes OCL M11-44; OTIs M3-43, M13-43, and M12-44
889	Rangefinder Mk 54.....	Jan 1944	R	Uses Rangefinder Mount Mk 35
890	Bombing Table British Bomb AP 2,000 lb Mk 1, Bombsight Mk 15 Mods 4 and 5	May 1943	R	
892	Bombing Table British Bomb GP 1,900 lb Mk 1/A/ Bombsight Mk 15 Mods 4 and 5	May 1943	R	
893	0.50 Inch Mount Mk 17 Description.....	Oct 1942	R	
895	5"/38 Cal AA Mount Mk 30 Mod 50 Assemblies for Merchantmen, Description and Instructions	Dec 1942	R	Issued with Change 1 dated 30 Mar 44, Change 2 dated 2 Aug 44, Change 3 dated 21 Jun 45, Change 4 dated 29 Jun 45, and OTI G7-44. Issued to Merchant ships only
896	Portable 25 K.W. Gasoline Driven Generator Unit.....	Apr 1943	R	For Merchant Vessels
898	Mine Identification Manual.....	4 Aug 45	C	2nd rev
900	Mine Mk 10 Mod 1. Description and Instructions for Use.....	19 Aug 43	R	Issued with OTI M4-44, OCL M29-44, Change 1 dated 14 Jul 44. Supersedes OP 634
901	Mine Mk 12 and Modifications, Description and Instructions for Assembly, Handling, and Planting	30 Nov 43	R	Issued with Change 1 dated 18 Oct 44, Change 2 dated 2 Mar 45; OCL M29-44; OTIs M4-44, and M11-44. Supersedes ORD 647; OCLs X682, M2-42, M9-42, M13-42, M7-43, MV17-43; OTI M9-43, and NOLR 763
902	Mine Mk 18, Description and Instructions for Assembling, Handling and Planting	25 Jan 44	R	Issued with OTIs M4-44, M11-44, OCL M29-44. Supersedes NOL Report No. 772
903	Mine Mk 23, Description & Instructions for Use.....	Aug 1943	R	With Change 1 dated 11 Feb 44, Change 2 dated 19 Dec 44
*904	Depth Charge Release Gears.....	.....	..	Will supersede OPs 35 & 721 Mks 1 & 3 Release Tracks
905	Mine Mk 13 and Modifications—Description and Instruction for Use	Nov 1943	R	Issued with OTIs M4-44, M11-44, OCLs MV3-44, M29-44, Change 1 dated 12 Sep. 44. Supersedes ORD 652 OCLs M1-42, M7-42, M11-42, M3-43, M9-43, M9A-43, M10-43, M14-43, MV19-43, MV21-43, MV26-43 and NOL Reports Nos. 767, 767 Pt 2 and 826
908	Mk 10 Depth Charge, Description and Instructions for Use....	Aug 1943	R	
909	20-mm Mounts Mks 2 and 2 Mods 1 and 2, Mk 4 and Mk 4 Mods 1, 2, 3, Mk 5 and Mk 5 Mods 1, 3, 4, 6, Mk 10 and Mk 10 Mod 1	Mar 1943	R	Issued with Change 1 dated 7 Jul 44, and OCL G55-43

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NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
911	20-mm AA Gun; 20-mm Machine Gun Mechanisms Mk 2 and 4; 20-mm Gun Barrels Mk 2, 3, 4 and Mk 4 Mod 1 and Mk 5; 20-mm Magazines Mk 2 and 4; 20-mm Shoulder Rests Mk 2, 4, 5, and Mk 5 Mod 1, Description	Mar 1943	D	Issued with Addendum 1, Change 1 dated 2 Dec 44, Change 2 dated 23 Jul 45; OTI G1-43; OCLs G8-43, G33-43, G39-43, and G21-44. Supersedes OPs 804 and 813
912	Train Indicator and Transmitter Mk 44 Mods 0 to 11.....	13 Apr 45	R	
913	Gun Train Indicator Mk 25 and Mk 25 Mods 1 to 6.....	8 Feb 45	R	Will be superseded by OP 1381
914	Train Indicator and Transmitter Mk 45 Mods 0 to 5.....	18 May 45	R	With Change 1 dated 12 Sep 45
916	16" Range Table (Tentative) 2,000 fsiv.....	Feb 1943	R	
919	.50 Cal Mount Mk 30 (U.S. ARMY M-3 AA) M-2 Browning Machine Guns. Description and Operation Instructions with Notes on Alternative Equipment and Accessories	May 1943	D	
*920	Selective Fuzing Control Box AN-A1-24 V, AN-B1-12 Volts....			
921	Range Table for 16-Inch 45 Caliber Gun 2,635 fsiv 1,900 Pound High-Capacity Projectile	22 Dec 43	R	1st rev. With Change 1 dated 28 Feb 45
922	Range Table for 16"/45 Cal Gun 2,525 fsiv, 1900 lb HC Projectile	11 Mar 44	R	1st rev. With Change 1 dated 24 Feb 45
923	Range Table for 14-Inch 45-Caliber Gun 2,735 fsiv 1275 Pound High-Capacity Projectile	26 Apr 44	R	1st rev. With Change 1 dated 28 Feb 45
924	Range Table for 14"/50 Cal Gun 2,825 fsiv 1275 lb HC Projectile	11 Apr 44	R	1st rev. With Change 1 dated 3 Mar 45
925	Bomb Rack Mk 51 Mods 6, 7, 8, and 9, Description and Operation. Stock Nos. 3R-176-60, and 3R-176-70	Jan 1943	R	Now issued by BuAer. NAVAER No. 11-5-504
931	Position Angle Finder Mk 1 and Mk 1 Mod 1. Description, Operation and Maintenance	31 Dec 43	R	1st rev
933	Range Table (Abridged) for 6"/47 Cal Gun 2,590 fsiv 105 lb HC Projectile	29 Feb 44	R	1st rev
934	Bombing Table for 1600 lb AP Bomb AN-Mk 1, Bombsight Mk 15 Mods 4 to 7	May 1943	R	
935	3" Range Table 1,650 fsiv 13 lb AA Projectile Mk 26.....	Apr 1943	R	NOTE: Surface Range Table, 3"/23
937	Bombing Table for Bomb GP 2000 lb AN-M34 and AN-M66, Bombsight Mk 15 Mods 4 to 7	15 Mar 43	R	
944	AA Range Table 3"/23 Cal Gun 1,650 fsiv 13 lb AA Projectile Mk 26 Mechanical Time Fuze Mk 22	2 Aug 43	R	
945	Range Table for 20-mm AA Gun 2,725 fsiv.....	25 Aug 43	R	With Change 1 dated 6 Dec 44
946	Torpedo Mk 18 and Mk 18 Mod 1.....	29 Jul 44	R	1st rev. Issued with OTI T5-44, Change 1 dated 14 Nov 44. Supersedes OD 3830
947	Indicator Float Mk 1 and Mods and Indicator Float Mk 2 Description, Operation and Care	3 Dec 43	R	
*948	Mine Mk 10 Mod 3. Description and Instructions for Use.....			
949	Portable Bomb Hoist Mk 7 Mod 1.....	May 1943	R	Now issued by BuAer. NAVAER No. 11-5-510
950	Torpedo Mk 13 Type.....	30 Nov 44	R	1st rev. With Change 1 dated 19 Jun 45. Supersedes OP 629A; ODs 3819, 3841, 3833, and OCL T6-42
951	0.50 Inch Machine Gun Mount Mk 17 Mods 1 and 2.....	Mar 1943	R	
952	Demolition Outfit Mk 7, Mines, Description.....	Mar 1943	R	To be superseded by OP 1245

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OP No.	Title	Date	Class	Remarks
954	Mine AN-Mk 26 Mod 1 Description and Instructions for Assembling, Handling and Planting (Aircraft)	11 Dec 43	R	Issued with OTIs M4-44 M11-44, OCL M29-44. Supersedes NOL Report No. 783
955	Bombing Tables Bomb GP 250 lb AN-M57, Bombsight Mk 15 Mods 4 to 7	May 1943	R	Supersedes OP 843
*956	Mine Mk 25. Description and Instructions for use.....			
957	Bombing Table for Bomb, Practice 1000 lb Wet Sand Filled Mk 22 Bombsight Mk 15 Mods 4 to 7	May 1943	R	
959	Range Conversion Scale Mk 1 Operating Instructions.....	Apr 1943	R	Supersedes OD 4435
960	AW Torpedo Tube Sight Mk 5 and Mods (Preliminary).....	May 1943	R	Supersedes OD 4452
961	Portable Bomb Hoist Mk 6.....	Feb 1943	R	Now issued by BuAer. NAVAER No. 11-5-506
*962	Stereoscopic Rangefinders, Care and Operation.....			Will supersede OP 105
964	Range Table 14"/45 Cal Gun, and 14"/50 Cal Gun 2,000 fsiv 1275 lb HC Projectile Mk 19	Apr 1943	R	Issued with Addendum 1 OCL A100-43, Change 1 dated 3 Mar 45. Supersedes OP 917
965	The 20-mm Feed Mechanism AN-M1 (Aircraft).....	May 1943	R	Issued with OTI GV2-44
966	14" Elevating Gear, 14" Training Gear and Receiver-Regulator Controls. <i>USS TENNESSEE</i> and <i>USS CALIFORNIA</i>	May 1943	R	Supersedes OP 310
*967	16"/45 Gun Turret Mounts for BBs 45, 46, 48.....			Until completed use OP 966
968	Torpedo Tubes 22½" Torpedo Tubes Mk 1 and Mk 1 Mod 1 and Auxiliary Equipment. Operating and Installation Instructions	May 1943	R	Issued with OCL T4-43
969	Range Table 16"/45 Cal Gun, 2,000 fsiv 1900 lb HC Projectile Mk 13	17 Oct 44	R	2nd rev. With Change 1 dated 27 Jul 45
970	Range Table 16"/45 Cal Gun, 16"/50 Cal Gun, 1,900 fsiv 1900 lb HC Projectile Mk 13	25 Oct 44	R	2nd rev. With Change 1 dated 27 Jul 45
971	Optical Equipment, Rangefinders Mk 45 Mods 1 and 2 (Preliminary)	Nov 1943	R	Change 1 adds Mod 2 With Change 1 dated 14 Feb 45
972	Gun Train Indicator Mk 52 Mods 1, 2 and 3, Target Designation Transmitter Mk 8 Mods 1, 2, 3 and 4 for Projectors Mk 10 and 11	26 Jul 44	R	OP 972 Preliminary Superseded OD 4503. Supersedes OP 972 Preliminary and OCL F10-43
#973	Machine Gun Trainer Mk 1.....	Oct 1943	R	With Change 1 dated 1 Mar 45, and Change 2 dated 24 May 45
*973A	Machine Gun Trainer Mk 1—Parts List.....			
974	Instruction Manual and Parts Catalogue 20-mm Hand Driven Link Belting Machine Mk 5	May 1943	R	
#975	Aircraft Vesicant Munitions.....	Mar 1943	R	Now issued by BuAer. NAVAER No. 24-10-501
976	Bomb Shackles Mk 4 and Mk 4 Mods 1, 2, and 3.....	Apr 1943	R	Now issued by BuAer. NAVAER No. 11-5-508
977	Bomb Shackles Mk 5 Mods 1 and 2.....	Mar 1943	R	Now issued by BuAer. NAVAER No. 11-5-507
978	Bomb Shackles Mk 3 and Mk 3 Mods 1, 2, and 3.....	Mar 1943	R	Now issued by BuAer. NAVAER No. 11-5-509
980	Periscope Mk 20 Mod 6.....	29 Jun 43	R	
981	Rangefinder Mk 51 and Mk 51 Mods 1, 2, and 3.....	12 Jun 43	R	
982	Aircraft Torpedo Director Mk 30.....	May 1943	R	Issued with OTI FV2-44. Supersedes OD 3792
983	Torpedo Director Mk 31, Description & Instructions for Use....	May 1943	R	Supersedes OD 4456
984	3" Gun Mounts .50 Cal DP Pedestal Type Mk 24 and Mk 24 Mod 1	27 Jan 44	R	With Change 1 dated 5 Jan 45, and Change 2 dated 18 Jun 45

*Under preparation. #Under revision.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
985	Aircraft Machine Gun Boresighting Kit.....	Jun 1943	D	Issued with OTI FV3-44
986	Auto Pilot Amplifier Test Set.....	Jun 1943	R	
988	Bomb Fuzes, Navy Mk 219, 221, 223, AN-Mk 224, 234, Mk 227, 228, 229, AN-Mk 230, Mk 231 Mod 0, Mk 244 Mod 0, Army: AN-M100A2, 101A2, 103, 110A1, M112, M113, 114, 115, 116, 117 (Mk 243, Water Selective added by Change 6) M111, M111A1, M111A2, M127, M138, M155, AN-M146, AN-M128, M144, AN-M145, AN-M147, M152, M153	May 1943	R	Issued with Addendum 1, Change 2 dated 12 Jan 44, Change 3 dated 8 Aug 44, Change 4 dated 26 Aug 44, Change 5 dated 7 Sep 44, Change 6 dated 14 Sep 44, Change 7 dated 19 Sep 44, Change 8 dated 21 Feb 45, Change 9 dated 14 Mar 45, Change 10 dated 31 Mar 45, Change 11 dated 1 May 45, Change 12 dated 29 May 45, Change 13 dated 30 Jul 45, Change 14 dated 21 Sep 45; OCL AV9-45, and OTI VI4-44. Supersedes OPs 618, 622, and OCL V89B
989	Antenna Train Drive Mk 3.....	21 Sep 44	R	
990	AA Range Table 6"/47 Cal Gun 2,590 fsiv 105 lb HC Projectiles MK 34, 45 Second Mechanical Time Fuze Mk 18	24 Aug 43	R	
992	Range Table (Abridged) for 8"/55 Cal Gun 2,600 fsiv 260 lb HC Projectile	31 Jan 44	R	1st rev
993	AA Range Table for 8"/55 Cal Gun 2,600 fsiv 260 lb HC Projectile Mk 24, 45 Second Mechanical Time Fuze Mk 18	30 Nov 43	R	
994	Special Bomb Fuzes Mk 232 Mod 1 and Mk 233. Description and Operations	May 1943	C	
996	Portable Platform Mk 1 for 20-mm Guns.....	Jun 1943	D	
997	Collision Course Tables & Torpedo Angle Solver Mk 9—Description and Instructions for Use	Jul 1943	R	
998	Aircraft Pyrotechnics	14 Jul 43	R	Issued with OCLs, AV6-44, AV12-44, AV20-44, Change 1 dated 19 Oct 43, Change 2 dated 7 Oct 44, Change 3 dated 3 Jan 45, Change 4 dated 19 Jan 45, Change 5 dated 10 Feb 45, Change 6 dated 10 Mar 45. Supersedes OP 562
999	Bureau of Ordnance Radio Equipment Mk 100.....	Jun 1943	R	
1001	Projectors Mk 10, Mk 10 Mod 1 and Mk 11 and Ammunition, Description and Instructions for Use	25 Jul 44	R	1st rev. Issued with Change 1 dated 24 Oct 44. Supersedes OCLs A113-43, and G12-44
1002	7.2 Rocket Launchers Mk 20, Mk 22 and Ammunition.....	30 Nov 43	R	1st rev. Issued with Change 1 dated 12 Sep 44, Change 2 dated 17 Apr 45, and OCL A8-44. Supersedes OCLs A69-43, G4-42, and G13-43. This OP superseded by OP 1437 for Ballistic Data for 7.2 Rockets (Shipboard)

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OP No.	Title	Date	Class	Remarks
1003	4.5 Rocket Launchers Mk 1 and Mk 8—Description and Instructions for Use	22 Apr 44	R	1st rev. Supersedes OP 1003 dated Dec 1942, in conjunction with OP 1111
1004	Index of Ballistic Information for Projectiles, Rockets, and Bombs	7 Mar 45	C	2nd rev. With Change 1 dated 19 Jun 45
1005	Fire Control Radar Equipment Mk 10.....	12 May 44	R	Current for Mk 10 Mods other than 0, 1, 2
1008	Range Table for 6"/47 Cal Gun 2,665 fsiv 105 lb HC Projectiles	12 Jul 43	R	With Change 1 dated 30 Dec 44
*1009	Instruction Manual for Stereo Trainers Mk 2 and 3.....	.....	..	Will supersede OP 588
*1010	Instruction Manual for Stereo Trainer Mk 6.....	.....	..	
*1011	Instruction Manual for Stereo Trainer Mk 7.....	.....	..	
1012	Demolition Outfit Mk 108 for Submarines, Description, Installation, and Operation	Jun 1943	R	With Change 1 dated 16 Mar 45
1013	5" Gun Mounts for Merchantmen and Auxiliaries, 38 Cal DP, Single, Open, Base Ring Type, MK 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49	11 Apr 44	R	Issued with Change 1 dated 21 Jun 45, Change 2 dated 29 Jun 45, and OTI G7-44
1014	Gunnery Safety Precautions, Their Origin and Necessity.....	12 Jul 43	D	
1017	Special Fuzes for Rockets, Projector Charges and Miscellaneous Munitions	13 Jun 44	R	1st rev. Supersedes OCL AV13-44. Original OP 1017 dated 7 Aug 43 superseded OP 953
1018	5" Loading Machine Assembly 89; 5" Loading Machine Mk 17 Mod 0; 5" Projectile Hoist Top Mk 3 Mod 0; 5" Powder Hoist Top Mk 3 Mod 0	26 Jul 45	R	
*1025	Rangefinders Mk 61 and Mk 63 .....	.....	..	
1026	Range Table for 6"/53 Cal Gun 3,000 fsiv 105 lb HC Projectile	28 Aug 43	R	Issued with Change 1 dated 11 Aug 44. Supersedes Addenda to OP 112
*1027	5"/54 Cal Mount Mk 39 (Single).....	.....	..	
1027A	5" Train Power Drive Mk 14 Mod 0 and 5" Elevation Power Drive Mk 14 Mod 0 (Preliminary) (5"/54)	Jul 1945	R	Used with OP 1027
1027B	Fuze Setting Indicator Regulator Mk 8 Mod 10—(Preliminary)	12 Jul 45	R	
1027C	5" Projectile Hoist Mk 6; 5" Powder Hoist Mk 6, Electric-Hydraulic Equipment (Preliminary)	5 Jul 45	R	
1028	8" Triple Gun Mounts, Main Armament for USS Chester Class (CAs 27, 28, 31, 33) (Preliminary)	Mar 1944	R	With Change 1 dated 18 Aug 45. Blueprinted copies distributed to the ships concerned, will not be reprinted, no other copies available for distribution. Supersedes OD 1587
1029	5" Gun Mount Mk 40, 25-cal Single Purpose—Submarine Mount	22 Aug 44	R	With Change 1 dated 29 Jun 45
#1030	Non-persistent Gas Munitions.....	22 Dec 43	R	Issued with Change 1 dated 10 Jul 44
1031	Sight Setter's Indicator Mk 6 Mods 0 and 1 including Parallax Range Adjuster Mk 7 Mods 0 and 1	18 Oct 45	R	
1035	Bearing and Range Indicator Mk 1 and Mk 1 Mods 1 to 7.....	6 Feb 45	R	Contains List of Spare Parts. Supersedes OD 4464
#1040	Gun Sight Mk 14 Mods 6, 7, 8, and 15—Operators Manual (Preliminary)	Dec 1943	R	Issued with Change 1 dated 19 Feb 45, Change 2 dated 27 Apr 45, and OTI F19-44
1041	Range Table for 8"/55 Cal Gun 260 lb HC Projectile iv 2,700 and 2,800 fs	1 Mar 44	R	1st rev. Supersedes OP 1095, OCL A21-43

*Under preparation. \$Under revision.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
#1042	Ships Chemical Munitions, Description and Instructions for Use	25 Sep 45	R	Issued with Change 1 dated 21 Aug 44, Change 2 dated 10 Nov 44, Change 3 dated 6 Aug 45; OCL AV3-44, OTI A3-44 and TB 3-300-9. Supersedes OP 734; OCLs A30-42, A17-42, and A38-43. This OP superseded by OP 1487 for Ballistics for WP Projectiles
1043	Service Manual for Gun Sight Mk 18 and Mods.....	Sep 1943	R	Issued with Change 1 dated 22 Jun 44 and Change 2 dated 10 Mar 45. INCLUDES Theory of Operation intended as OP 1043B, Voltage Regulator Mk 1 OP 1043C
1043A	Illustrated Parts Catalogue for Gunsight Mk 18 and Mods....	Sep 1943	R	INCLUDES: OP 1043D Voltage Regulator Mk 1 Illustrated Parts Catalog
1046	Fuze Setter Mk 12, Description & Operation.....	30 Oct 43	D	
1050	Aircraft Smoke Bombs.....	13 Oct 44	R	1st rev
1051	Range Table (Abridged) for 16"/45 Cal Gun and 16"/50 Cal Gun, 1,975 fsiv 1900 lb HC Projectiles	23 Mar 45	R	1st rev
1052	AA Range Table for 16"/45 Cal Gun 16"/50 Cal Gun 1,825 fsiv 1900 lb HC Projectile	15 Apr 44	R	
1053	Intervalometer Type K-2.....	30 Sep 43	R	Issued with Change 1 dated 8 Dec 43, Change 2 dated 21 Nov. 45. Now issued by Bu Aer. NAVAER No. 11-5-515
1056	Torpedo Data Computer Mk 3 Mods 5 to 12 incl.....	Jun 1944	R	Issued with OCL F10-44. Supersedes OD 2561
*1057	Gun Directors Mk 34 and Mods.....			
*1059	Computer Mk 6 and Mods.....			
*1060	Gun Director Mk 37 and Mods.....			Will supersede OP 756
1061	Director Control Mechanism for Gun Director Mk 37 (Arma Contact Type)	Mar 1945	R	Supersedes ODs 2576, 2584, and OTI F4-44
1062	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operation and Maintenance	1 Aug 44	R	Supersedes OD 3901
1063	Stable Element Mk 6 and Mods.....	Jan 1944	R	Insofar as the Stable Element Mk 6 is concerned, OP 1063 supersedes OD 2599. OD 2599 is still current in application to Stable Element Mk 5; With Change 1 dated 4 Jan 46
*1064	Computer Mk 1 and Mods.....			
*1064A	Computer Mk 1 and Mods.....			
*1064B	Computer Mk 1 and Mods—Disassembly, Repairs, Reassembly, Installation, and Lubrication			
*1064C	Starshell Computers Mk 1 Mods 0, 1, 2, and 3.....			Will supersede OP 1590
*1064D	Computers Mk 1 Mods 8 and 12.....			
*1064E	Computers Mk 1 Mods 14 and 16.....			

*Under preparation. #Under revision.

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OP No.	Title	Date	Class	Remarks
*1064F	Computer Mk 1 Mod 15.....		..	
1066	Electric Hydraulic Drives and Indicator Regulators for 5"/38 Cal Single Mount, Elevating and Training Gears	19 Jun 45	R	Supersedes ODs 3897 and 3902
1067	Gun Director Mk 50 and Mods—Vol. 1, Theory (<i>Preliminary</i>)	Mar 1945	R	Issued only on Bureau approval. Supersedes OD 2560
1067	Gun Director Mk 50 and Mods—Vol. 2, Operation, Tests and Maintenance (<i>Preliminary</i>)	19 May 45	R	Issued only on Bureau approval. Supersedes OD 2560.
*1068	Rangekeeper Mk 8.....	.....	..	
*1068A	Rangekeeper Mk 8—Tests and Adjustments.....	.....	..	
1069	Training and Elevating Receiver Regulators for 6"/47 Cal Triple Gun Turret	Aug 1944	R	Supersedes OD 2570. Supplements OP 833
1070	Gun Mount Adapters, Navy Type.....	19 Jan 45	R	Now issued by BuAer. NAVAER No. 11-10-502
*1070A	Gun Mount Adapters, Navy Type—Parts List.....	.....	..	Will be issued by BuAer.
1071	Release, Bomb Rack, Type AN-A-2A.....	30 Sep 43	R	Now issued by BuAer. NAVAER No. 11-5-516
1072	Selector, Bomb Rack Types RS-2.....	29 Sep 43	R	Now issued by BuAer. NAVAER No. 11-5-514
1073	Bombs and Torpedo Skids, Trucks and Trailers.....	29 Sep 43	R	Issued with Change 1 dated 22 Jul 44, Change 2 dated 1 Sep 44, Change 3 dated 22 Feb 45, Change 4 dated 29 Mar 45, Change 5 dated 12 Apr 45, Change 6 dated 29 May 45; Now issued by BuAer. NAVAER No. 19-25-501
1074	Bomb Rack Mk 43 and Mk 43 Mods 1 and 2 or 1A.....	11 Sep 43	R	Now issued by BuAer. NAVAER No. 11-5-511
1075	Fire Control Radar Equipment Mk 18.....	27 Dec 43	R	
1076	Radar Equipment Mk 12 Mod 0.....	22 Apr 44	R	With Change 1 dated 26 Jun 44, and Change 2 dated 4 Aug. 44
1077	Boxes, Auxiliary Switch, Type NX-2, NX-2A and Mk 1.....	10 Sep 43	D	Now issued by BuAer. NAVAER No. 11-5-513
1079	Range Table (Abridged) for 14"/45 Cal Gun, 14"/50 Cal Gun, 1,925 fsiv 1275 lb HC Projectile	14 Mar 45	R	1st rev
1080	AA Range Table for 14"/45 Cal Gun 14"/50 Cal Gun 1,925 fsiv 1275 lb HC Projectile	11 Mar 44	R	
1081	Computer Mk 12 Mod 1, Operators Manual.....	30 Sep 43	R	With Change 1 dated 8 Apr 44, Change 2 dated 25 Oct 44
1082	Bomb Racks Mk 47 and Mk 47 Mod 1.....	11 Sep 43	R	Now issued by BuAer. NAVAER No. 11-5-512
1084	Controls, Bomb Arming, Type A-1, B-1, AN-A-2 and AN-B-2...	30 Sep 43	D	Now issued by BuAer. NAVAER No. 11-5-517
1085	21" Submerged Torpedo Tubes Mks 32 to 39 and Modifications as in SS 198 and up	Jun 1944	R	Supersedes OP 586 for Tubes Mk 32 to 39 incl
1087	Release Lags for Incendiary Bomb Clusters.....	30 Nov 43	R	Issued with OCL AV129-43 and Change 1 dated 2 Mar 44
1088	Cal .30 Machine Gun Mount Mk 21.....	16 Nov 43	R	Change 1 canceled
1090	Range Table (Abridged) for 16"/50 Cal Gun 2,615 fsiv 1900 lb HC Projectile	30 Oct 43	R	With Change 1 dated 24 Apr 44
1091	AA Range Table for 16"/50 Cal Gun 2,615 fsiv 1900 lb HC Projectile	11 Mar 44	R	

*Under preparation.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
1092	Torpedo Tube Heater (Gasoline Type for <i>Motor Torpedo Boats</i>)	Oct 1943	R	
1096	AA Range Table for 8"/55 Cal Gun 2,700 fsiv 260 lb HC Projectile Mk 24, 45 Second Mechanical Time Fuze Mk 18	22 Dec 43	R	
1097	Gun Director Mk 52 Mods 2 and 3, Description, Operation and Maintenance (<i>Preliminary</i>)	Oct 1944	R	1st rev. With Change 1 dated 5 Feb 45, Change 2 dated 3 Mar 45, Change 3 dated 24 Apr 45, Change 4 dated 1 May 45, Change 5 dated 31 Oct 45, Change 6 dated 6 Nov 45, and Change 7 dated 21 Nov 45
#1098	Gun Sight Mk 15 Mods 2 and 3 (<i>Preliminary</i>)	Mar 1944	R	Issued with Change 1 dated 5 Dec 44, Change 2 dated 19 Dec 44, Change 3 dated 16 Jul 45, Change 4 dated 20 Sep 45, Change 5 dated 6 Nov 45; OTIs F14-44, and F20-44
1099	Intervalometer Mk 2, Mk 2 Mods 1 and 2	30 Nov 43	R	Now issued by BuAer. NAVAER No. 11-5-518
1100	Range Table for 16"/50 Cal Gun 2,690 fsiv 1900 lb HC Projectile	8 Dec 43	R	With Change 1 dated 24 Mar 44, Change 2 dated 24 Feb 45
#1101	Attack Plotters Mk 1 Mods 1 and 2	Jan 1944	R	With Change 1 dated 14 Sep 44, Change 2 dated 24 Nov 44, Change 3 dated 2 Dec 44, Change 4 dated 16 Jan 45
*1102	Power Equipment for 8"/55 Turrets			
1103	Electric-hydraulic Gun Drives for 5"/38 Cal DP Mount	Jan 1945	R	Supersedes OD 4187
1105	Ordnance Storage Instructions	15 Dec 45	R	1st rev. Issued with Change 1 dated 25 Jan 46 (which supersedes OCL T5-45), and OTI G7-44. This OP is only partially completed
1106	Station Distributor Mk 3 Mods 0, 1, and 2	13 Oct 44	R	Issued with Change 1 dated 5 Apr 45. Now issued by BuAer. NAVAER No. 11-10-501
1109	Range Table for 16"/45 Cal Gun 2,560 fsiv 1900 lb HC Projectile (Abridged)	30 Nov 43	R	With Change 1 dated 24 Apr 44
1110	AA Range Table for 16"/45 Cal Gun 2,560 fsiv 1900 lb HC Projectile	11 Mar 44	R	
1111	475 Rocket Ammunition, Description and Instructions for Use	10 May 44	R	Issued with OTI A3-44. This OP in conjunction with OP 1003 1st rev supersedes OP 1003 dated Dec 1942
1112	Gun Mount and Turret Catalog	7 Mar 45	R	2nd rev
1114	Electric Gun Chargers Mk 3 and Mk 3 Mod 1 with Control Box for Browning Machine Gun Caliber .50 M2 (Aircraft) Description and Instructions for Use	5 Feb 44	R	Now issued by BuAer. NAVAER No. 11-10b-501
1116	Glide Bombing Attachment Mk 2 Mod 1	19 Jan 45	R	1st rev. Supersedes OP 1116A
1116B	Inspection Procedure for Glide Bombing Attachment Mk 2 Mod 1	29 Jun 45	R	
*1117	Attack Director Mk 2			

*Under preparation. #Under revision.

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ORDNANCE PUBLICATIONS

OP 0

OP No.	Title	Date	Class	Remarks
#1118	Instructions for Installation of Mines in Aircraft.....	28 Jan 44	R	Issued with Change 1 dated 30 Oct 44, Change 2 dated 27 Jan 45, Change 3 dated 24 Mar 45, Change 4 dated 12 Apr 45, Change 5 dated 12 Jul 45, Change 6 dated 16 Oct 45; OTIs MV2-44, and M3-44. Supersedes OTI MV7-43
#1119	Gun Director Mk 51 Mod 3, Operators Manual (<i>Preliminary</i>)....	22 Jul 44	R	With Change 1 dated 24 Aug 45.
1120	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34A-43
*1121	Gun Elevation Indicator Mk 45.....			
1122	Gun Director Mk 55 Mod O.....	30 Jul 45	R	
1123	Bombing Table 100 lb Incendiary Bombs M47A1 and AN-M47A2, Bombsight Mk 15 Mods 4 to 7	5 Jun 44	R	
1124	Bombing Table 4,000 lb LC Demolition Bombs AN-M56 and AN-M56A1, Bombsight Mk 15 Mods 4 to 7	11 Mar 44	R	
1125	Aviation Ordnance, Chemical Spraying Equipment.....	29 Sep 44	R	With Change 1 dated 29 May 45. Supersedes OP 723. Now issued by BuAer. NAVAER No. 24-10-502
1126	5" Loading Machine Mk 20.....	17 Feb 45	R	
1127	4.5 Rocket Launcher Mk 12 Mod 1, Description and Instructions for Use	15 Mar 44	R	
1128	4.5 Rocket Launcher Mk 4, Description and Instructions for Use	15 Mar 44	R	Now Rocket Launcher Mk 10 Mod 0
1131	4.5 Rocket Launcher Mk 7 (Experimental)—Description and Instructions for Use	17 Jul 44	R	With Change 1 dated 2 Jan 45, and Change 2 dated 11 Aug 45
1133	Rocket Launcher Mk 17 and Mk 17 Mod 1, (Formerly Designated Rocket Launchers Mk 1 Target and Mk 1 Mod 1 Target) Description and Instructions for Use	30 Aug 44	R	With Change 1 dated 16 Feb 45
1135	Rocket Launcher Mk 30 Mod 0, (T-Slot Launcher for Fin Stabilized Rockets) (<i>Preliminary</i>)	10 Nov 44	R	
1137	60-mm Mortar M2, for Shipboard.....	6 Jan 45	R	
1139	Flame Throwers, Description and Instructions for Operation....	14 Jun 44	C	
1140	Basic Fire Control Mechanisms.....	Sep 1944	R	Supersedes OD 1661
*1140A	Basic Mechanisms			
1141	Aerial Targets and Associated Equipment, Description and Instructions for Use	20 Nov 44	R	Issued with Change 1 dated 10 Mar 45. Supersedes OP 726, OCLs V29, V16-43, OTIs V5-43, V16-43, V26-43, V35-43, V1-44, V9-44, V10-44, V24-44, OHI V4-44. Now issued by BuAer. NAVAER No. 28-10a-501
1143	Cal .50 Hydraulic Gun Charger AN-Mk 2 and AN-Mk 2 Mod 1; Hydraulic Control Valve AN-Mk 1 and AN-Mk 1 Mod 1 and Hydraulic Control Valve Part No. 79720	9 Oct 44	D	Supersedes OPs 827 and 828. Now issued by BuAer. NAVAER No. 11-10b-502
1144	Range Table (Abridged) for 16"/45 Cal Gun 2,450 fsiv 1900 lb HC Projectile	11 Mar 44	R	
1145	AA Range Table for 16"/45 Cal Gun 2,450 fsiv 1900 lb HC Projectile	11 Mar 44	R	

*Under preparation. ‡Under revision.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
*1146	Fuze Setters and Related Equipment.....			Will supersede all ODs on Fuze Setter Indicator Regulators
1147	Demolition Outfit Mk 119 (Army Designation Reddy Fox or Aqueous Snake)—Description and Instructions for Assembly	1 Mar 44	R	With Change 1 dated 11 Apr 44 and Change 2 dated 14 Mar 45. Formerly Demolition Charge Mk 13
1150	Instructions for Loading of and Transporting of 12" to 16" Guns by Rail	26 Jul 44	R	
1153	Radar Equipment Mk 22 Mod 0.....	14 Jun 44	R	With Change 1 dated 19 Jan 45
1154	Radar Equipment Mk 26 Mods 3 and 4.....	8 Aug 44	R	
1155	Radar Equipment Mk 27.....	4 Aug 44	R	
1156	Radar Equipment Mk 28 Mods 0 and 3.....	25 Oct 44	R	
1157	Rocket Ammunition, 375 and 570 Aircraft Rockets (3725 Motor)—Description and Instructions for Use	23 Mar 45	R	1st rev. With Change 1 dated 21 Sep 45
1158	Handling of Forward-Firing Rocket Equipment Aboard Kaiser Class Carriers (<i>Preliminary</i>)	16 Mar 44	R	With Change 1 dated 30 Jun 44, Change 2 dated 8 Sep 44, Change 3 dated 18 Dec 44
1159	AA Range Table for 16"/45 Cal Gun 1,900 fsiv 1900 lb HC Projectile	18 Apr 44	R	
1160	Bomb Ballistic Data for Horizontal Dive and Glide Bombing....	24 May 44	R	Issued with Change 1 dated 7 Aug 44, Change 2 dated 21 Oct 44. Supersedes OD 3612
1161	Fuze Setting Indicator Mk 12 Mods 0 and 1.....	14 Nov 44	R	With Change 1 dated 19 Feb 45, and Change 2 dated 19 Jul 45
1162	Range Table for 14"/50 Cal Gun (Abridged) 2,750 fsiv 1275 lb HC Projectile	6 Apr 44	R	
1163	AA Range Table for 14"/50 Cal Gun 2,750 fsiv 1275 lb HC Projectile	17 Apr 44	R	
1164	Ballistic Testing of Rocket Propellants.....	26 Aug 44	R	
1166	Range Table (Abridged) for 14"/45 Cal Gun 2,660 fsiv 1275 lb HC Projectile	18 Apr 44	R	
1167	AA Range Table for 14"/45 Cal Gun 2,660 fsiv 1275 lb HC Projectile	5 May 44	R	
1169	Gyro Setting Indicator Regulator Mk 1 Mods 0, 1, 2, and 3.....	Dec 1944	R	Supersedes OD 2585
*1170	Gun Director Mk 41 (Stable Vertical).....			
1171	Optical Equipment, Rangefinders Mk 58, Mk 58 Mod 1, Mk 65 and Mk 65 Mod 1 (<i>Preliminary</i>)	17 Apr 44	R	
1172	Performance of Bombs and Projectiles Against Shore Installations	9 May 44	C	
1175	3725 Rockets, Target.....	31 Jul 44	R	With Change 1 dated 24 Feb 45
1176	Range Table for 375 and 570 Aircraft Rockets (3725 Motors) Used with Launchers Mk 4 and Mk 5	2 May 44	R	Superseded by OP 1358 for SB2C Type Aircraft, by OP 1355 for F6F Type Aircraft, by OP 1296 for Angle of Attack Data for corresponding Aircraft: by OP 1354 for F4U Type Aircraft, by OP 1357 for TBM-1C and TBF-1C Aircraft, by OP 1356 for TBM-1 and TBF-1 Aircraft

*Under preparation.

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OP No.	Title	Date	Class	Remarks
1177	Surface Pyrotechnics and Projectors.....	19 Jan 45	R	With Change 1 dated 1 May 45, Change 2 dated 2 Aug 45, Change 3 dated 9 Aug 45, Change 4 dated 29 Aug 45. Supersedes OPs 725 and 725A; OCLs A33-42, A28-43, A45-43, A56-43, A63-43, A15-44, A28-44, D253, AV24-44 and OTI A4-44
#1178	Demolition Material	8 Dec 44		
1179	Radium Camera Mk 2.....	19 Dec 44	C	Issued only on Bureau approval
*1180	8" Three Gun Turrets for CA 134 Class.....			
*1180A	8" Triple Gun Turrets—Turret Description and Operation.....			
*1180B	8" Triple Gun Turrets—Guns and Slides.....			
*1180C	8" Triple Gun Turrets—Elevating and Training Gears.....			
*1180D	8" Triple Gun Turrets—Ammunition Equipment.....			
*1180E	8" Triple Gun Turrets—Fire Control and Electrical Installations..			
*1180F	8" Triple Gun Turrets—Tools and Accessories and Turret Ordnance General Instructions			
1182	Range Table for 5"/54 Cal Gun 2,650 fsiv 70 lb HC Projectile..	26 May 44	R	
1183	Range Table (Abridged) for 5"/54 Cal Gun 2,550 fsiv 70 lb HC Projectile	16 May 44	R	
1184	AA Range Table for 5"/54 Cal Gun 2,550 fsiv 70 lb HC Projectile	27 May 44	R	
1185	Fuze Setter Mk 16—Description and Instructions for Use—Parts List	Nov 1944	R	
1186	AA Range Table for 8"/55 Cal Gun 2,200 fsiv 260 lb HC Projectile	14 Oct 44	R	
1187	2725 Subcaliber Aircraft Rockets—Description and Instructions for Use	10 Feb 45	R	
1188	Abridge Range Tables for U.S. Naval Guns.....	13 Jun 44	R	With Change 1 dated 12 Dec 44. Supersedes OD 443
1189	Target Bearing Transmitter Mk 8, Description and Instructions for Use Including Parts Catalogue	27 Sep 44	R	
1190	Range Table for 8"/55 Cal Gun 2,160 fsiv 260 lb HC Projectile..	20 Jun 44	R	
1192	AA Range Table for 8"/55 Cal Gun 2,060 fsiv 260 lb HC Projectile	20 Jun 44	R	
1193	Radar Beacon Mk 1 Mod 1.....	3 Jun 44	R	With Change 1 dated 9 Jun 44
*1194	Electric Control of Hydraulic Equipment for 8" Training Gear Mk 19 and Mk 19 Mod 1, Mk 20 and Mk 20 Mod 1, Mk 21, Mk 23, and Mk 23 Mod 1, and 8" Elevating Gear Mk 20, Mk 21, Mk 22 and Mk 24			
*1195	Submarine Attack Teacher Mk 2 and Mods.....			
1199	Train Power Drive Mk 31 Mods 0, 1, and 2; Elevation Power Drive Mk 31 Mods 0, 1, and 2 (Preliminary)	5 Jul 45	R	
1200	Gunnery Trainer Mk 3.....	26 Feb 45	R	With Change 1 dated 18 Jun 45, and Change 2 dated 13 Sep 45
*1201	Gunnery Trainer Mk 6.....			
1203	U.S. Navy Cavity Charges.....	26 Jun 44	R	
#1205	Range Table for 5"/25 Cal. Gun, 2,110 fsiv 53.85-lb AA Common Projectile Mk 36	17 Dec 45	R	Supersedes OD 4478
*1205A	AA Range Table for 5"/25 Cal Gun—AA Common Projectile....		R	
*1205B	Range Table for 5"/25 Cal Gun—WP Smoke Projectile.....		R	

*Under preparation. #Under revision.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
1207	U.S. Navy Aircraft Torpedoes, General Information.....	27 Jun 44	R	With Change 1 dated 16 Oct 44. Supersedes OD 3816
1208	Readiness and Care of Ordnance Equipment on Vessels in Inactive Status	19 Nov 45	D	1st rev.
1209	Hand Firing Mechanism Mk 2, Description and Instructions for Use	25 Oct 44	R	
1210	Aircraft Machine Gun Boresighting Kit Mk 2 Mod 0.....	9 Apr 45	R	
1211	Cyclic Rate Control Mk 2 Mod 1 for Use on 20-mm AA Gun, Instruction Book (Preliminary)	15 Nov 44	D	
1212	Projectile Fuses.....	23 May 45	R	With Change 1 dated 10 Jul 45, and Change 2 dated 24 Oct 45. Supersedes OCLs A91-43, A22-44, A64-44, and A18-43
1214	Range Table for 6"/53 Cal Gun 2,400 fsiv 105 lb HC Projectile	9 Aug 44	R	
1215	AA Range Table for 6"/53 Cal Gun 2,300 fsiv 105 lb HC Projectile	29 Aug 44	R	
1216	Gun Sight Mk 23 Mod 0.....	8 Apr 45	R	
*1217	Torpedo Workshop Equipment.....			Will supersede OD 750 1st rev
1219A	Ammunition Code Catalog, Class A—Bombs and Accessories....	9 Jul 45	R	1st rev
1219B	Ammunition Code Catalog, Class B—Pyrotechnics.....	13 Jun 45	R	1st rev
1219C	Ammunition Code Catalog, Class C—Chemicals.....	1 Oct 44	R	With Change 1 dated 12 May 45
1219D	Ammunition Code Catalog, Classes D and U—Depth Charges and Accessories	25 Jun 45	R	1st rev. With Change 1 dated 15 Nov 45 and Change 2 dated 25 Jan 46
1219E	Ammunition Code Catalog, Class E—Demolition Material.....	20 Jul 45	R	1st rev
1219F	Ammunition Code Catalog Class F—Torpedo Warheads and Accessories	5 Nov 45	R	1st rev
#1219H	Ammunition Code Catalog, Classes 1 and R—20 and 40-mm Ammunition	1 Oct 44	R	With Change 1 dated 12 May 45
1219I	Ammunition Code Catalog, Classes 4, 7, and 8—Unserviceable Gun Ammunition	8 Aug 45	R	1st rev
1219J	Ammunition Code Catalog, Class J—Projector Charge and Rocket Ammunition Assemblies	13 Jul 45	R	1st rev
1219K	Ammunition Code Catalog, Class K—Dummy Ammunition Assemblies	1 Oct 44	R	With Change 1 dated 12 May 45
#1219L	Ammunition Code Catalog, Class L—Miscellaneous Charges....	1 Oct 44	R	With Change 1 dated 12 May 45
1219M	Ammunition Code Catalog, Class M—Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev
1219N	Ammunition Code Catalog, Class N—Fleet Return Projector Charge and Rocket Ammunition	13 Jul 45	R	1st rev. With Change 1 dated 26 Oct 45
1219O	Ammunition Code Catalog, Class O—Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev
1219P	Ammunition Code Catalog, Class 5—Small Arms, Machine Gun and Aircraft Gun Ammunition	25 Apr 45	R	1st rev
1219Q	Ammunition Code Catalog, Class 6—Marine Corps and Landing Force Ammunition	15 Jan 45	R	With Change 1 dated 12 May 45
1220	1250 lb AP Rocket Bomb Mk 50 and Fuzes Mk 150 and Mk 151..	29 Aug 44	C	Issued only on approval of the Bureau
1221	Train Parallax Corrector Mk 2 Mods 1 and 2 (Preliminary)....	20 Jul 44	R	
1222	Gun Order Corrector Mk 2 Mods 0 and 1.....	17 Jul 44	R	Supersedes OD 4466
1223	Range Table for 375 and 570 Aircraft Rockets, British, 3725 Motor No. 1 Mk 2 (11-lb Cruciform Grain)	17 Jul 44	R	Superseded by OP 1296 for Angle of Attack Data for corresponding Aircraft

*Under preparation. #Under revision.

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OP No.	Title	Date	Class	Remarks
1224	Range Table for 4"/50 Cal Gun 2,900 fsiv 33 lb HC and Common Projectiles	16 Sep 44	R	
1225	AA Range Table for 4"/50 Cal Gun 2,800 fsiv 33 lb HC Projectile	21 Aug 44	R	
1227	11775 Rocket Ammunition, Description and Instructions for Use	13 Mar 45	C	1st rev. With Change 1 dated 17 May 45 and Change 2 dated 5 Jun 45. Now issued by BuAer. NAVAER No. 11-75b-501
1229	Range Table 8"/55 Cal Gun, 2,300 fsiv 260 lb HC Projectile.....	15 Sep 44	R	
1230	Range Table for 12"/50 Cal Gun, 1,850 fsiv 940 lb HC Projectile	22 Sep 44	R	With Change 1 dated 19 Jun 45
1231	Range Table (Abridged) for 12"/50 Cal Gun, 1,865 fsiv 940-lb HC Projectile	10 Feb 45	R	
1232	AA Range Table for 12"/50 Cal Gun 1,775 fsiv 940 lb HC Projectile	9 Oct 44	R	
#1233	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (<i>Preliminary</i>)	15 Nov 44	R	With Change 1 dated 24 May 45, Change 2 dated 16 Jul 45, Change 3 dated 1 Aug 45, Change 4 dated 20 Sep 45, Change 5 dated 20 Sep 45, and Change 6 dated 16 Oct 45
#1234	100 lb Incendiary Bomb, AN-M47A2 (All Purpose) (<i>Preliminary</i>)	29 Jul 44	R	With Change 1 dated 1 Jun 45
1235	Manual for the Computation of Effective Rocket Temperatures in Rockets Using 3725 Motors	14 Aug 44	R	NAVORD Form 1183 is used with this OP
1238	Radar Equipment Mk 28 Mod 2.....	28 Dec 44	R	
1239	570 Rocket (570 Motor, Fin Stabilized) (<i>Preliminary</i>).....	8 Dec 44	R	With Change 1 dated 16 May 45
*1240	Stable Element Mk 7 Mod 1.....	.....	..	
1241	Range Table for 12"/50 Cal Gun 2,650 fsiv 940 lb HC Projectile...	15 Sep 44	R	With Change 1 dated 23 Jan 45
1242	Range Table (Abridged) for 12"/50 Cal Gun 2,575 fsiv 940 lb HC Projectile	6 Sep 44	R	
1243	AA Range Table for 12"/50 Cal Gun 2,575 fsiv 940 lb HC Projectile	22 Sep 44	R	With Change 1 dated 23 Jan 45
1244	Rocket Launchers Mk 50 Mods 0 and 1--Description and Instruction for Use	26 Oct 45	R	2nd rev
*1245	Controlled Mines Mk 20 and Mk 37.....	.....	R	Will supersede OP 952
1246	Rocket Launcher Mk 51 Mod 0--Description and Instructions for Use	18 Jun 45	R	Used with OP 1260. Supersedes OCL G15-45
1247	Instruction Book for Gun Sight Mk 22 Mod 0, for Control of 0.50 Cal Machine Guns in Martin Model 250 GH1 Aircraft Turret (<i>Preliminary</i>)	18 May 45	R	Issued only on Bureau approval
1248	Instruction Book for Target Course Indicator Mk 1.....	19 Sep 44	R	
1255	Range Table for 2725 Rockets (Sub-caliber) Used with Aircraft Launchers Mk 6 and Mods (<i>Preliminary</i>)	14 Sep 44	R	Superseded by OP 1358 for SB2C Type Aircraft, by OP 1355 for F6F Type Aircraft, by OP 1296 for Angle of Attack Data for corresponding Aircraft, by OP 1354 for F4U Type Aircraft, by OP 1357 for TBM-1C and TBF-1C Aircraft, by OP 1356 for TBM-1 and TBF-1 Aircraft

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NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
1256	Bomb Rack Mk 53 and Auxiliary Equipment (For Lighter Than Air Use Only)	2 Oct 44	R	Now issued by BuAcr. NAVAER No. 11-5-519
1257	Garrett 60-mm Shoulder Mortar Mk 1 Mod 0, Description and Instructions for Use	14 Sep 44	R	
#1260	Rocket Ammunition, 570 Rocket (570 Motor) Spin Stabilized (Preliminary)	6 Feb 45	R	With Change 1 dated 17 Mar 45 and Change 2 dated 20 Sep 45. Includes GP, Common, HC. Supersedes OTI A6-44
#1263	Gunnery Trainer Mk 5 Mod 1.....	18 May 45	R	With Change 1 dated 10 Sep 45 and Change 2 dated 9 Jan 46. For Use with Gun Sight Mk 14
1264	Portable Platform Mk 2 Mod 0 (Preliminary).....	3 Feb 45	D	
1266	Depth Charge Test Set Mk 70 Mod 0.....	9 Feb 45	R	Issued only on Bureau approval
1267	Rangekeeper Mk 8 Mods 33, 34, 53, Description and Instructions for Use (Preliminary)	17 Oct 44	R	Used with OD 4173
1269	Signal (Pepper) Mk 14 Mods 0, 1, and 2—Description and Instructions for Use	28 Sep 45	C	
*1274	Reel Box Mk 2.....		R	
1279	Rocket Launcher Mk 31 Mod 0.....	2 Apr 45	R	
1280	Aircraft Bombs	17 Feb 45	R	With Change 1 dated 20 Aug 45. Supersedes OPs 736 and 1019; OCLs V89, V89A, V89B, V93, V24-42, V30-42, V47-42, A6-43, A9-43, A9a-43, AV41-43, AV84-43; OTIs A4-43, and AV6-43
1281	Range Table for 12"/50 Cal Gun 3,000 fsiv 740 lb HC Projectiles	17 Oct 44	R	With Change 1 dated 7 Feb 45
1283	AA Range Table for 12"/50 Cal Gun, 2,925 fsiv 740 lb HC Projectile	30 Oct 44	R	Issued only on Bureau approval
1284	Instructions for the Overhaul, Inspection and Test of Gun, Browning Aircraft Machine Cal .50 AN-M2	Dec 1944	R	For Shop Use only, not for issue to the Fleet. Issued only on Bureau approval
1285	Range Table for 5"/38 Cal Gun, 1,200 fsiv AA Common Projectile Mk 35	26 Sep 45	R	1st rev
*1287	Periscope for Submarine Attack Teacher Mk 2.....		R	
1288	Instruction Book for Range Keepers Mk 10 Mods 43, 47, 50, 51, 52, 58, 59, 64, and 65	3 Mar 45	R	Supersedes OD 4241
1289	40-mm Mount Mk 3 Mod 4; 40-mm Train and Elevation Power Drives Mk 10 Mods 0, 1, and 2	28 Aug 45	R	
1290	Instructions Book for Computer Mk 3 Mods 6 and 7.....	9 Oct 44	R	Issued with OD 4183
*1290A	Instruction Book for Computer Mk 3 Mod 8 and Trunnion Tilt Corrector Mk 5 Mod 1 (Preliminary)		R	
*1290B	Computer Mk 3 Mod 10.....		R	
*1290C	Computer Mk 3 Mod 9.....		R	
1291	Computer Mk 14 Mod 0 (AN/APA/30).....	23 Jan 45	C	
1293	Range Table for 5"/51 Cal Gun 3,150 fsiv 50 lb HC Projectile...	31 Oct 44	R	
1294	Range Table for 5"/51 Cal Gun 2,300 fsiv 50 lb HC Projectile...	4 Nov 44	R	
1296	Boresighting and Effective Angle of Attack Data for Aircraft...	29 Dec 44	R	With Change 1 dated 18 Jun 45. Supersedes OPs 1176, 1223, and 1255 for Angle of Attack Data for corresponding Aircraft

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OP No.	Title	Date	Class	Remarks
1297	Radar Equipment Mk 13 Mod 0.....	30 Jul 45	R	
1298	Radar Equipment Mk 8 Mod 3.....	Aug 1945	R	
1299	Radar Equipment Mk 29 Mod 2.....	25 Apr 45	R	
#1300	Radar Equipment Mk 32 Mod 1.....	23 Jul 45	R	
*1301	Radar Equipment Mk 34 Mods 3 and 4.....		C	
1303	United States Navy Synchros, Description and Operation.....	15 Dec 44	D	
*1303A	Synchro Tester Mk 3 Mod 2, Description.....		R	
*1304	Rocket Launchers, Catalogue.....		R	
1306	Bomb Director Mk 1 Mod 0 (AN/ASG-10 (XN))—Description and Instructions for Use	6 Apr 45	C	
1307	Target Bearing Receiver Mk 2 Mod 1.....	14 Apr 45	R	
1308	Gun Elevation Order Transmitter Mk 2 Mods 0 and 1.....	27 Jun 45	R	
1309	Multiple Turret Train Indicator Mk 11 Mods 0 to 3, Mk 12 Mods 0 to 12	27 Jun 45	R	Supersedes OD 2353
*1311	Periscopes Mk 27.....		..	
1312	Torpedo Launching Rack Mk 1 Mod 1.....	11 Nov 44	R	With Change 1 dated 14 Apr 45
1314	Instruction Book for Range Keepers Mk 10 Mods 66, 67 (<i>Preliminary</i>)	23 Mar 45	R	
1315	Bombing Table for Use with Droppable Fuel Tanks.....	27 Nov 44	R	With Change 1 dated 23 Jan 45
1316	Bombsight Mk 23 and Mods, Service Manual (<i>Preliminary</i>)....	2 Jun 45	R	
*1316A	Bombsight Mk 23 (<i>Preliminary</i>) Parts Catalog.....		R	
*1316B	Bombsight Mk 23—Overhaul Manual.....		R	
1317	20-mm Automatic Gun T31 (M3) Basic and 20-mm Feed Mechanism AN-M2 (T-14)	18 Jun 45	R	Supplemented by OP 1317A. Replaces TM9-229 for Navy Use.
1317A	20-mm Feed Mechanism M2.....	3 Apr 45	D	Supplement to OP 1317
1317B	Electric Heater T2 for 20-mm Aircraft Guns (<i>Preliminary</i>).....	29 Aug 45	R	
1318	Rocket Launcher Mk 36 Mod 0, Description and Instructions for Use (<i>Preliminary</i>)	14 Nov 44	R	
*1323	Gun Fire Control System Mk 57 Mod 1.....		R	
#1323A	Gun Fire Control System Mk 57, Maintenance (Less Radar Equipment)	25 Jul 45	R	With Change 1 dated 21 Jan 44
#1323B	Gun Fire Control System Mk 57, Installation, Maintenance and Accuracy Tests (<i>Preliminary</i>)	31 Oct 45	R	
1323C	Gun Fire Control System Mk 57, Schematic Diagrams (<i>Preliminary</i>)	31 Aug 45	R	
#1325	Gun Sight Mk 20 Mod 3, Installation, Operation and Maintenance (<i>Preliminary</i>)	Mar 1945	R	
*1328A	Computer Mk 22 Mod 0.....		D	
*1329	40-mm Quad Mount Mk 4 and Power Drive Mk 9.....		..	
1330	Mine Disposal Handbook.....	1 Nov 44	C	With Change 1 dated 15 Feb 45, Change 2 dated 10 Mar 45, Change 3 dated 15 Apr 45, Change 4 dated May 1945, Change 5 dated 15 Jun 45, Change 6 dated 10 Jun 45, Change 7 dated 15 Jun 45, Change 8 dated Jul 1945, Changes 9 and 10 undated. Accountable; distribution limited to Mine Disposal personnel

*Under preparation. #Under revision.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
1331	375 Rocket Flare.....	15 Nov 44	C	
1332	Bombing Table for 13 lb Practice Bomb Mk 19 Mod 1. Bomb-sight Mk 15 Mods 4 to 8	18 Nov 44	R	With Change 1 dated 12 Jan 45
1333	Range Table for 8"/55 Cal Gun 2,220 fsiv 260-lb HC Projectile..	27 Nov 44	R	With Change 1 dated 16 Jun 45
1334	Range Table (Abridged) for 8"/55 Cal Gun 2,150 fsiv 260 lb HC Projectile	27 Nov 44	R	Supersedes OP 1191
1335	AA Range Table for 8"/55 Cal Gun 2,150 fsiv 260 lb HC Projectile	27 Nov 44	R	
1336	Radar Beacon Mk 2 Mod 0 and Mod 1.....	7 Mar 45	R	
1338	Periscopes Mk 28 Mods 0 and 1; Mk 29 Mods 0, 1, and 2; Mk 30 Mods 0, 1, and 2; Mk 31 Mods 0 and 1	14 May 45	R	
1339	Climb and Glide Bombing Tables for Use with Glide Bombing Attachment Mk 2 Mods 0 and 1 to the Bombsight Mk 15 Mods 4 to 7	1 Feb 45	R	
1340	Electric Bomb Hoist Mk 5.....	21 Apr 45	R	Now issued by BuAer. NAVAER No. 11-5-522
1341	Portable Bomb Hoist Mk 8 Mod 0.....	23 Mar 45	R	Now issued by BuAer. NAVAER No. 11-5-520
1342	Bomb Shackle Mk 8 Mod 0 and Mod 1, Bomb Shackle Release Mk 1 Mod 0 and Mod 1, Bomb Shackle Release Mount Mk 1 Mod 0 and Mod 1	28 Mar 45	R	Now issued by BuAer. NAVAER No. 11-5-521
1343	Hoisting, Suspension and Trunnion Bands.....	23 Apr 45	R	Supersedes OTI A1-45. Now issued by BuAer. NAVAER No. 11-5-525
*1344	Range Table for Aircraft Guns.....		R	
1345	Torpedoes Mk 16 and Mk 17 Types (Preliminary).....	16 Jan 45	C	With Change 1 dated 18 Jun 45 and Change 2 dated 9 Aug 45
*1348	Control Mechanism Mk 38 Director.....		D	
*1349	Elevation Receiver Regulator Mk 17 for Gun Director Mk 34..		D	
*1352	Gun Director Mk 54.....		D	
1353	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft FM-2	22 Dec 44	R	Title changed by Change 1 dated 1 Jun 45, also has Change 2 dated 9 Jul 45
1354	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft F4U-1, F4U-1D, and FG-1	22 Dec 44	R	With Change 1 dated 9 Jul 45. Supersedes OPs 1176 and 1255 for F4U Type Aircraft
#1355	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft F6F-3 and F6F-5	22 Dec 44	R	With Change 1 dated 18 Apr 45 and Change 2 dated 9 Jul 45. Supersedes OPs 1176 and 1255 for F6F Type Aircraft
1356	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft TBM-1 and TBF-1	9 Apr 45	R	With Change 1 dated 9 Jul 45. Supersedes OPs 1176 and 1255 for TBM-1 and TBF-1 Aircraft
1357	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft TBM-1C and TBF-1C	16 Mar 45	R	With Change 1 dated 9 Jul 45 and Change 2 dated 30 Jul 45. Supersedes OPs 1176 and 1255 for TBM-1C and TBF-1C Aircraft

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OP No.	Title	Date	Class	Remarks
1358	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft SB2C-1, SB2C-1C, SB2C-3, SB2C-4, and SB2C-5	29 Dec 44	R	With Change 1 dated 18 Apr 45, Change 2 dated 9 Jul 45, and Change 3 dated 30 Jul 45. Supersedes OPs 1176 and 1255 for SB2C Aircraft
1359	AA Range Table for 5"/51 Cal Gun 3,050 fsiv 50 lb HC Projectile	16 Dec 44	R	
1360	AA Range Table for 5"/51 Cal Gun 2,200 fsiv 50 lb HC Projectile	29 Dec 44	R	
1361	Napalm Bombs (Aircraft Jettisonable Fuel Tanks Used as Incendiary Bombs) (<i>Preliminary</i>)	21 Apr 45	R	With Change 1 dated 24 May 45, and Change 2 dated 28 Jul 45. Now issued by BuAer. NAVAER No. 24-10-503
1362	Demolition Firing Device Mk 1 Mod 1 (<i>Preliminary</i>)	Nov 1944	R	Supersedes OTI A5-44
1365	Torpedo Exploder Mechanism Mk 9 Mod 0	13 Mar 45	C	
1366	Range Table for 6"/47 Cal Gun, 2,225 fsiv 105-lb. HC Projectile	28 Jul 45	R	
1367	Range Table (Abridged) for 6"/47 Cal Gun, 2,125 fsiv 105-lb HC Projectile	23 Mar 45	R	
*1369	Torpedo Exploder Mechanism Mk 10 Mod 3	13 Mar 45	C	With Change 1 dated 9 Jul 45
*1369A	Torpedo Exploder Mechanism Mk 10 Mod 3, Inspection Standards for			
1371	Range Table for 11775 Aircraft Rockets Fired from F4U and F6F Type Aircraft Using Drop Launchers (<i>Preliminary</i>)	2 Mar 45	R	
1374	Bomb Shackle Release Type P9E	26 Jun 45	R	Now issued by BuAer. NAVAER No. 11-5-524
1375	Bomb Rack Mk 51 Mods 11 and 12	18 May 45	R	With Change 1 dated 6 Nov 45 which supersedes OTI V27-43. Now issued by BuAer. NAVAER No. 11-5-523
*1378	MBFC System for BBs 61-66		R	
*1379	MBFC System for CBs 1 to 3		R	
*1380	Sight Setters Indicator Mk 8		R	
*1381	Gun Train Indicator and Transmitter Mk 25 Mod 7		R	
*1382	Gun Elevation Order Transmitter Mk 4		R	
*1383	Gun Train Indicator Mk 40		R	
*1384	Sight Setters Indicator Mk 5		R	
*1385	MBFC System for CLs 55, 64 and 40 Classes		R	
*1386	MBFC System for CL 106 Class		R	
*1387	MBFC System for CA 68 and 122 Classes		R	
1388	Initiator (Detonating Cord) Mk 1 Mod 0 (<i>Preliminary</i>)	27 Dec 44	R	
1389	Demolition Firing Device Mk 12 Mod 0 (<i>Preliminary</i>)	4 Jul 45	R	
1390	Demolition Firing Device Mk 13 Mod 0 (<i>Preliminary</i>)	5 Jul 45	R	
1391	U. S. Naval Mines (<i>Preliminary</i>)	27 Jan 45	R	Supersedes OP 660
1392	Clearance Fixture (Aircraft Gun) Mk 1 Mod 0	4 May 45	R	Used with Boresight Kit Mk I
1393	Optical Equipment—Rangefinders Mk 48 Mods 0, 1, and 2 (<i>Preliminary</i>)	10 Jan 45	R	
1394	Bombing Table for 2,000 lb Aircraft-laid Mine Mk 25 Mod 0	1 Feb 45	R	
1395	Bombing Table for 1,000 lb Aircraft-laid Mines AN-Mk 26 Mod 1, Mk 36 Mods 0 and 1	12 Feb 45	R	With Change 1 dated 28 Sep 45
*1396	Instruction Book for Amplifier Mk 1 Mod 1 (<i>Preliminary</i>)		R	
*1397	Instruction Book for Computer Mk 16 Mod 1 (<i>Preliminary</i>)		R	
*1398	Telescopes Mk 90 and 91			
1399	Gun Director Mk 31, Use and Operation of Pointers Level Indicator (<i>Preliminary</i>)	22 Dec 44	R	
1400	Electric Trigger Controls (Cal .30 and .50) Special Precautions Regarding Adjustment (<i>Preliminary</i>)	27 Dec 44	R	
*1401	MBFC System for CL 144 Class		R	

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NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
*1402	MBFC System for CA 139 Class.....		R	
*1405	Torpedo Attack Teacher Mk 4.....		..	
1406	Range Table for 20-mm Aircraft Guns M1, AN-M2 and M3(T31) 2,750 isiv Forward Fire (<i>Preliminary</i>)	29 Dec 44	R	Supersedes OTI AV14-43
1407	Anti-jamming Operation of Fire Control Radar.....	25 May 45	R	With Change 1 dated 14 Aug 45
1408	Ordnance Fitting Out Information.....	28 Dec 44	R	
*1410	Elementary Optics.....		R	Will supersede OP 434
1411	Blasting Caps and Related Demolition Material (<i>Preliminary</i>)....	28 Dec 44	D	
1412	Target Designation Transmitter Mk 12 Mod 1.....	20 Jan 45	C	
*1415	Rocket Assemblies (<i>Preliminary</i>).....	7 Apr 45	C	Supersedes OD 5368
*1417	Collimators (For Optical Instruments).....		R	
*1418	Attack Teacher Mk 3.....		C	
1419	Elastic Gas Check Pads, Installation and Maintenance (<i>Preliminary</i>)	16 Apr 45	R	
1421	Sighting Data for Fixed-gun Strafing, Cal .50 and 20-mm Fixed Machine Guns	28 Apr 45	R	1st rev
1424	Rocket Launcher Assembly Mk 102 Mod 0, Description and In- structions for Use	20 Sep 45	R	1st rev
1425	Use of Depth Charge Test Sets Mk 34 Mods 0 and 1 with Depth Charge Mk 8	12 Feb 45	R	Supersedes OCL M40-43
1427	Shotgun Mount Assembly Mk 1 Mod 0.....	23 Feb 45	D	
1428	Physical Inventory Manual for Ammunition (<i>Preliminary</i>).....	22 Feb 45	D	
1429	Erosion Data, Construction, Use and Accuracy.....	12 Feb 45	R	Contains NPG Photos
*1431	Preparation of Impulse Cartridges for Catapults.....		..	
*1432	Torpedo Director Mk 33 (<i>Preliminary</i>).....		C	
1433	Demolition Outfit Mk 127 Mod 0 (<i>Preliminary</i>).....	23 Mar 45	C	
1434	Inspection Gage Manual for Inspectors of Naval Ordnance Mate- rial	16 Feb 45	D	With Change 1 dated 13 Jun 45
*1435	Computer Mk 23 Mod 0 (<i>Preliminary</i>).....		..	
1436	Optical Equipment Rangefinder Mk 57 Mod 0 (<i>Preliminary</i>)....	28 Mar 45	R	
1437	Range Table for 7"2 Shipboard Rockets, Rocket Launchers Mk5 20 and 22	14 Apr 45	R	Supersedes OP 1002 (1st rev) for Ballistic Data for 7"2 Shipboard Rockets
1438	20-mm Cyclic Rate Control Mk 1 Mod 0, Description and Instruc- tions for Use (Including Parts Catalog)	25 May 45	D	
1439	20-mm AA Assemblies (Twin); 20-mm AA Gun Mounts Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods; 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter Equipment Mk 2 Mod 0; 20-mm Machine Gun Mech- anism Mk 4 Mod 1, and 20-mm Magazine Mk 5 Mod 0	28 Apr 45	D	
*1439A	20-mm Mount Mk 25 Mod 0; Magazine Mk 12 Mod 0, Mk 13 Mod 0; 20-mm Gun Mk 8 Mod 0		R	
*1440	472 Mortar Assembly Mk 1 Mod 0.....	25 Apr 45	R	
*1442	Torpedo Data Computer Mk 4 Mods 1 to 12.....		R	
1443	Grapnel Rocket Mk 1 Mod 0, Used with Rocket Launcher Mk 26 Mod 0 (<i>Preliminary</i>)	17 Jul 45	C	
1444	VT Fuzes for Bombs (T50E1, T50E4, T51E1, T89, T90, T91)...	31 Jul 45	C	1st rev. With Change 1 dated 12 Feb 46
1446	Target Acquisition Unit Mk 1 Mods 1, 2, 3, and 4.....	10 Jul 45	R	
1447	Gas Identification Sets.....	14 Jun 45	D	Supersedes OCL X14-42
*1448	Target Bearing Transmitter Mk 9.....		R	
*1449	5"/38 Boresight Mk 38 and Mods; Boresight Telescopes Mk5 and 75 and Mods		R	
1451	5"/38 Window Projectiles (<i>Preliminary</i>).....	23 Feb 45	C	Supersedes OCL A51-44

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ORDNANCE PUBLICATIONS

OP 0

OP No.	Title	Date	Class	Remarks
*1452	Mine Accessories, Description and Instructions for Testing (<i>Preliminary</i>)		R	
1455	Range Table (Abridged) for 16"/45 Cal Gun, 2,225 fsiv 2,700-lb AP Projectile	7 Mar 45	R	Supersedes OD 3456
1456	Range Table (Abridged) for 16"/45 Cal and 16"/50 Cal Gun, 1,725 fsiv 2,700 lb Target Projectile	7 Mar 45	R	Supersedes OD 3455
1457	Range Table (Abridged) for 16"/50 Cal Gun, 2,425 fsiv 2,700 lb AP Projectile	7 Mar 45	R	Supersedes OD 3593
1458	Fragmentation Data on Bombs and Projectiles.....	2 Apr 45	R	With Change 1 dated 31 Jul 45
1459	Bombing Table for 2,000 lb Aircraft-laid Mines Mk 25 Mods 1, 2, and 3	22 Mar 45	R	With Change 1 dated 28 Sep 45
1460	Range Table (Abridged) for 12"/50 Cal Gun, 2,425 fsiv 1140 lb AP Projectile	13 Mar 45	R	Supersedes Pages 74 and 75 of OP 789
*1460A	Range Table for 12"/50 Cal Gun.....	.....	R	
1461	Range Table (Abridged) for 12"/50 Cal Gun, 1,725 fsiv 1140 lb Target Projectile	13 Mar 45	R	Supersedes Page 71 of OP 789
*1461A	Range Table for 12"/50 Cal Gun.....	.....	R	
*1462	Safety Data for AA Guns.....	.....	..	Will supersede OD 3326
1463	Optical Equipment Rangefinder Mk 51 Mod 4.....	22 Mar 45	R	
1464	False Target Shell Mk 1 Mod 0 and False Target Can Mk 2 Mod 0	24 Mar 45	C	With Change 1 dated 11 Jul 45 and Change 2 dated 4 Sep 45. Supersedes OP 1044
*1465	Remote Transmitter for Attack Plotter Mk 1 Mod 2.....	.....	R	
1466	Sight Settings for Masthead Bombing at Altitudes 50-500 Feet	14 Aug 45	R	1st rev
1467	Range Table for 14"/50 Cal Gun, 1,860 fsiv 1500 lb Target Projectile	11 Aug 45	R	1st rev. Supersedes OP 754
1468	Range Table for 14"/50 Cal Gun, 2,625 fsiv 1,500 lb AP Projectile	20 Aug 45	R	1st rev. Supersedes OP 752
1469	375 Window Rockets and Rocket Launchers Mk 32 Mods 0 and 1	9 Apr 45	C	Supersedes OP 1165
1470	VT Rocket Fuzes (for Aircraft Rockets) (<i>Preliminary</i>).....	6 Apr 45	C	
*1471	Demolition Charge Mk 2 Mod 2.....	.....	R	
1472	Range Table (Abridged) for 16"/45 Cal Gun, 1,860 fsiv 2,240 lb Target Projectile	23 Mar 45	R	Supersedes OD 3457
1473	Range Table (Abridged) for 16"/45 Cal Gun, 2,445 fsiv 2,240 lb AP Projectile	23 Mar 45	R	Supersedes OD 3458
1474	Station Distributor Mk 5 Mod 0 and Mk 5 Mod 1.....	23 May 45	R	Supersedes OHI V2-45. Now issued by BuAer. NAVAER No. 11-10-503
1475	Bomb Rack Mk 50 Mods 4 and 5.....	28 Sep 45	R	Supersedes OP 936, OTI V18-44, and NAVORD CHART V3-43. Now issued by BuAer. NAVAER No. 11-5-526
1478	Rocket Sight (Aircraft) Mk 1 Mod 0.....	10 Jul 45	C	
#1480	VT Fuzes for Projectiles, Characteristics and Operational Use (<i>Preliminary</i>)	6 Apr 45	C	With Change 1 dated 13 Aug 45. Contains list of letters superseded
1480A	VT Fuzes for Spin Stabilized Rockets, Characteristics and Operational Use (<i>Preliminary</i>)	23 Jul 45	C	
*1481	Mount Mk 1 and Mods and 37-mm Magazine Mk 1 and Mod 0	.....	..	
*1481B	37-mm Mount Mk 4 Mod 0.....	.....	R	
1482	Detonating Cord Initiator Mk 2 Mod 0 (<i>Preliminary</i>).....	4 Jul 45	R	
*1483	Electric Gun Chargers Mk 3 and Mk 3 Mod 1 with Manual Control	.....	R	Will be issued by BuAer.
1484	Demolition Firing Device Mk 10 Mods 0, 1, 2, and 3—Description and Instructions for Use	25 Jun 45	R	1st rev

*Under preparation. \$Under revision.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
1485	Instructions for Application of Strippable Coating (Spray Type) (OS 3602)	2 Apr 45	D	With Change 1 dated 28 Jan 46
1487	Range Table for 5"/38 Cal Gun, 2,600 fsiv 53-lb WP Smoke Projectile	17 Apr 45	R	Supersedes OP 1042 for Ballistic Data for WP Projectiles
1488	Range Keeper Mk 8 Mod 56, Description and Instructions for Use (Preliminary)	29 Jun 45	R	Used with OD 4173
*1489	Instruction Book for Computer Mk 6 Mod 19.....	.....	..	.....
1492	Stowage and Safety Instructions for Minesweeping Cutter Mk 13	6 Aug 45	C	.....
1494	Mounting Bracket (Illuminated Sight) Mk 1 Mod 3, Service Manual	25 Apr 45	R	.....
*1498	Range Table for 5" Spin Stabilized Rockets Fired from Rocket Launchers Mk 50 and Mk 102	.....	R	.....
1499	Range Table (Elevations above 45°) 4"2 Mortar Assembly Mk 1 Mod 0, 24.25-lb Shell HE M3 (TNT) with Fuze M3 and Propelling Charge M6, 25.5-lb Shell M2 (WP) with Fuze M2 and Propelling Charge M6	25 Apr 45	R	.....
*1501	Coursefinder Mk 3 Mods 0 and 1.....	.....	R	.....
1502	Degaussing Station Instructions, Restrictions and Precautions for the Protection of Ships, Their Gear and Cargo, during Deperming and Flashing	26 Aug 44	D	Formerly DGSI No. 2. Available to Degaussing Activities only. Used with OP 1536 (1st rev.)
1503	Degaussing Station Instructions, Permissible Loading and Deperming Cables	15 Jun 44	R	Formerly DGSI No. 3. Available to Degaussing Activities only. Used with OP 1536 (1st rev.)
1504	Degaussing Station Instructions, Construction of Minesweeper Loop Ranges	25 Mar 43	D	Formerly DGSI No. 4. Available to Degaussing Activities only
1505	Aviation Ordnance Stock List.....	20 Apr 45	D	Supersedes Aviation Ordnance Stock Lists (Classes 1, 2, and 3) dated Jul 1944
1506	Cal .50 Machine Gun Mount Mk 21 Mod 1, Instructions for Laying out of Cam Limit Stop and the Cutting of the Cam	30 Aug 45	R	.....
1507	Japanese Underwater Ordnance.....	20 Apr 45	R	.....
1509	Degaussing Station Instructions, Degaussing of Acoustic Booms on Wooden Minesweepers	11 Feb 43	C	Formerly DGSI No. 9. Available to Degaussing Activities only
1511	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	.....
*1512	Optics Filming Units Mks 1-6.....	.....	..	.....
*1513	Radar Equipment Mk 34 Mod 2.....	.....	R	.....
*1514	Radar Equipment Mk 39 Mod 3.....	.....	R	.....
1515	Restricted and Unserviceable Ammunition.....	11 Jun 45	R	With Change 2 dated 18 Aug 45, Change 3 dated 30 Aug 45, Change 4 dated 10 Sep 45, Change 5 dated 31 Oct 45, and Change 6 dated 30 Nov 45. Supersedes OCLs A69-44, A9-45, A21-45, AV3-45, A119-43, A6-45, A11-45, and AV4-45
1516	Torpedo Propulsion Batteries (Exide 101 Lead Acid Type)—Instructions for Care and Maintenance	29 Jun 45	R	

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OP No.	Title	Date	Class	Remarks
1517	Sight Setter's Indicator Mk 7 Mod 0.....	20 Nov 45	R	
1520	Degaussing Station Instructions, Control Panels for Advance-base Magnetic Ranges	24 Aug 43	D	Formerly DGSI No. 20. Available to Degaussing Activities only
1521	Degaussing Station Instructions, Degaussing of <i>FLETCHER</i> (DD 445) Class of <i>Destroyers</i> Having Abnormal Magnetic Fields near the Stern	27 Aug 43	R	Formerly DGSI No. 21. Available to Degaussing Activities only. Will be combined with OP 1532 (1st rev.)
1523	Degaussing Station Instruction Forms, Records and Reporting Procedures	21 Jul 45	D	1st rev. With Change 1 dated 26 Jul 45. Used with OP 1536 (1st rev.). Supersedes OP 1540. Available to Degaussing Activities only
1524	Range Table for 2"25 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft PV-1	4 Jul 45	R	
1526	Degaussing Station Instructions, Degaussing Action and Recommendations for Action	30 Jan 46	C	Formerly DGSI No. 26. Used with OP 1536 (1st rev.). Available to Degaussing Activities only
*1527	5"/54 Twin Mount Mk 41.....		R	
*1527A	5" Ammunition Hoist Mk 1 Mods 0-11 in 5"/54 Cal DP Twin Mounts Mk 41 Mod 0		R	
*1527B	Electric Hydraulic Equipment for 5" Ammunition Hoist Mk 1 Mods 0-11, 5"/54 Cal in Double Purpose Twin Mounts Mk 41 Mod 0 (CL 154 Class)		R	
1529	Degaussing Station Instructions, Magnetic Treatment of Landing Craft	26 Dec 44	C	Formerly DGSI No. 29. With Change 1 dated 13 Jun 45. Available to Degaussing Activities only
1531	Complete Rounds for Aircraft Bombs.....	18 May 45	D	Supersedes OD 5603
#1532	Degaussing Station Instructions, Use of Auxiliary M-coil Loops to Compensate the Stern Anomaly on the <i>USS BRYANT</i> (DD 665) and other Ships of the <i>FLETCHER</i> Class	1 May 44	R	Formerly DGSI No. 32. Will Combine OP 1521. Available to Degaussing Activities only
*1533	Instructions for the Installation, Adjustment, and Maintenance of Oscillating Bearing Assemblies for all Turrets Having Automatic Control			
1534	Degaussing Station Instructions, Design of Ships' Degaussing Coils	15 May 44	R	Formerly DGSI No. 34. Available to Degaussing Activities only
1535	Degaussing Station Instructions, Deperming Procedures for Stations Equipped with Fixed Magnetometers	15 Jun 44	C	Formerly DGSI No. 35. Used with OP 1536 (1st rev.). Available to Degaussing Activities only
1536	Degaussing Station Instructions—Degaussing of <i>Submarines</i>	5 Nov 45	C	1st rev. Used with OPs 1502, 1503, 1523 (1st rev.), 1526, 1535, 1537, and 1538. Supersedes OP 1522. Available to Degaussing Activities only
1537	Degaussing Station Instructions, Procedures for Use of Portable and Advanced-base Equipment	20 Oct 44	R	Formerly DGSI No. 37. Used with OP 1536 (1st rev.). Available to Degaussing Activities only

*Under preparation. \$Under revision.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
1538	Degaussing Station Instructions, Magnetic Ranging and Calibration Procedures	10 Oct 44	R	Formerly DGSI No. 38. With Change 1 dated 25 Aug 45. Used with OP 1536 (1st rev.). Available to Degaussing Activities only
1539	Degaussing Station Instructions, Deperming Station Batteries....	21 Sep 45	D	1st rev. Formerly DGSI No. 39. Available to Degaussing Activities only
1542	Underwater Photographic Assembly No. 2.....	3 Mar 45	R	
1543	Range Table for 16"/45 and 16"/50 Cal Guns, 2,075 fsiv 1,900-lb HC Projectile	21 Jun 45	R	
1544	Range Table for 14"/45 and 14"/50 Cal Guns, 2,065 fsiv 1,275-lb HC Projectile	21 Jun 45	R	
*1545	Target Designation Transmitter and Receiver Mk 1 Mods 26 and up	.....	R	
*1546	Overhaul Manual for Computer Mk 17 and Mods.....	.....	R	Will supersede OP 1650
*1547	Antiaircraft Target Reel Mk 8 Mod 0.....	.....	..	Will be issued by BuAer. NAVAER No. 28-10a-500
1548	Bomb Fuze Data.....	5 Oct 45	R	
*1549	Service Life of U. S. Naval Guns (<i>Preliminary</i>).....	.....	C	
1550	Naval Gun Factory Amplifier for 40-mm Power Drives Mk 5 and Mk 6 (<i>Preliminary</i>)	31 May 45	R	
*1551	Antenna Train Drive Mk 7 Mods 2 and 3 for Use with Radar Equipment Mk 8 Mods 2 or 3 or Radar Equipment Mk 13	.....	R	
*1552	Gun Director Catalogue.....	.....	R	
1553	Range Table for 14"/45 Cal Gun, 2,525 fsiv 1,500-lb AP Projectile Mk 16	10 Jul 45	R	Supersedes OP 746 (1st rev.), and OD 3717
1554	Range Table for 14"/45 Cal Gun, 1,860 fsiv 1,500-lb Target Projectile Mk 17	6 Aug 45	R	Supersedes OP 754
1555	Range Table for 14"/45 Cal Gun, 2,600 fsiv 1,500-lb AP Projectile Mk 20, <i>USS NEW YORK</i> and <i>TEXAS</i>	13 Jul 45	R	
1556	Range Table for 14"/45 Cal Gun, 1,935 fsiv 1,500-lb Target Projectile Mk 21, <i>USS NEW YORK</i> and <i>TEXAS</i>	31 Jul 45	R	
*1557	Computer Mk 34 Mod 0.....	.....	..	
1558	Rocket Launcher Mk 26 Mod 0, Description and Instructions for Use	28 Jun 45	R	Used with OP 1443
*1562	Gun Fire Control System Mk 61 and Mods.....	.....	C	
*1562A	Detailed Description and Maintenance of Gun Fire Control System Mk 61 (Less Radar Equipment)	.....	..	
*1563	Bearing Transmitter Mk 11 Mod 0.....	.....	R	Will supersede OD 3085
1564	Range Table for 12"/50 Cal Gun, 1,965 fsiv 940-lb HC Projectile	20 Jul 45	R	
*1565	Range Table for 475 Rockets Mk 3.....	.....	R	
*1566	3"/50 Twin Mount Mk 27 Mod 1.....	.....	R	
1567	Firecracker Mk 2 Mod 0.....	22 Jun 45	D	
*1568	Elevation Receiver Regulators Mk 8 and Mods and Train Receiver Regulators Mk 13 and Mods for 6", 8", 14", and 16" Turrets and Mounts, Interchangeability	.....	R	
*1569	Radar Antenna Mount Mk 20 Mod 2 and Mk 21 Mod 0, Description, Operation, and Maintenance	.....	..	
*1570	Instruction Book for Spot Transmitter Mk 4	.....	..	
*1571	Cable and Chain Cutter Mk 1 Mod 1, Description and Instructions for Use	.....	C	
*1573	Rangefinder Mk 52 Mod 0 and Rangefinder Mk 52 Mod 1.....		R	
*1575	Target Acquisition Unit Mk 2 Mod 1.....		R	

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OP No.	Title	Date	Class	Remarks
1576	375 Rocket (Aircraft Flare) Mk 6 Mod 0.....	8 Aug 45	R	
*1577	Depth Charge Mk 14 Mod 0 and Depth Charge Test Set Mk 45, Instructions (Tentative)	.....	R	
1579	Demolition Outfit Mk 136 Mods 0 and 1 (<i>Preliminary</i>).....	28 Jul 45	R	
1580	Lighter, Fuze, Friction Type, M1 (<i>Preliminary</i>).....	29 Jun 45	D	
1581	Installation of British "A" Mines Mk I-IV, V, VI, VII, and VIII in U. S. Army and Navy Aircraft	4 Jul 45	R	Supersedes OTI MV3-44
1582	Demolition Outfit (UDT) Mk 133 Mod 0 (<i>Preliminary</i>).....	31 Jul 45	R	
1583	Demolition Outfit (UDT) Mk 135 Mod 0.....	31 Jul 45	R	
*1584	Optical Equipment, Rangefinders Mk 53 Mod 0, and Mk 53 Mod 1	.....	R	
1585	Bomb Cluster Adapter Mk 3 Mod 0.....	7 Jul 45	R	
*1586	Torpedo Director Mk 27 and Mods.....	.....	..	
1587	Emergency Shipboard Preparation of Catapult Launching Charges	5 Jul 45	R	Supersedes OCL A90-44
*1588	Bomb Container Mk 4 Mod 0.....	.....	R	
1591	Clearing of Live Ammunition from Guns.....	28 Nov 45	D	Supersedes OCLs A72-43, A76-44, A35-45, A36-45, and G24-44
*1594	AA Range Table 475 Spin Rocket M16.....	.....	R	
*1595	AA Range Table 570 High Capacity Spin Stabilized Rocket.....	.....	R	
*1597	Range Table for Aircraft Rockets Used with Post-type Launchers Fired from F7F Aircraft	.....	R	
*1598	Range Table for Aircraft Rockets Used with Post-type Launchers Fired from F8F Aircraft	.....	R	
*1599	Range Table for Aircraft Rockets Used with Post-type Launchers Fired from PV-2 Aircraft	.....	R	
*1600	Gun Fire Control System Mk 56.....	.....	C	
*1600A	Radar Equipment Mk 35.....	.....	R	
*1600C	Gun Fire Control System Mk 56, Director Maintenance.....	.....	R	
*1600D	Gun Fire Control System Mk 56, Control Room Maintenance....	.....	R	
1601	Demolition Firing Device Mk 15 Mod 0 (<i>Preliminary</i>).....	21 Aug 45	R	
*1603	Bomb Rack Mk 55 Mod 0.....	.....	R	
*1604	Solenoid Operated Hydraulic Gun Charging System for Aircraft..	.....	R	
*1605	Aviation Ordnance Gun Sight Test Units Mk 2 Mod 0 (<i>Preliminary</i>)	.....	R	
*1605A	Aviation Ordnance Gun Sight Test Units Mk 3 Mod 0 (<i>Preliminary</i>)	.....	R	
*1605B	Aviation Ordnance Gun Sight Test Units Mk 4 Mod 0 (<i>Preliminary</i>)	.....	R	
*1605C	Aviation Ordnance Gun Sight Units Mk 5 Mod 0 (<i>Preliminary</i>)..	.....	R	
*1605D	Aviation Ordnance Gun Sight Test Units Mk 6 Mod 0 (<i>Preliminary</i>)	.....	R	
*1606	Gun Sight Mk 15 Overhaul Manual (<i>Preliminary</i>).....	.....	..	
1608	Carrying Frame (Demolition Charge) Mk 1 Mod 0.....	14 Nov 45	R	
1610	Aviation Ordnance Equipment, Salvage and Overhaul Guide.....	14 Aug 45	R	With Change 1 dated 14 Nov 45. Supersedes OCL V5-45
*1612	Range Table for 6"/47 Cal Double Purpose Gun, 2,565 fsiv 105-lb HC Projectile Mk 39	.....	R	
*1613	AA Range Table for 6"/47 Cal DP Gun, 105-lb HC Projectile Mk 39, 2,565 fsiv	.....	R	
*1614	Range Table for 6"/47 Cal DP Gun, 105-lb Projectile Mk 39, 2,125 fsiv	.....	R	
1616	Bombing Table, Trail and Time of Fall, 100-lb Practice Bomb Mk 15 Mod 2, Wet Sand Filled (<i>Preliminary</i>)	21 Aug 45	R	
1616A	Bombing Table, Trail and Time of Fall, 100-lb Practice Bomb Mk 15 Mod 2, Water Filled (<i>Preliminary</i>)	21 Aug 45	R	

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NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
1616B	Bombing Table, Trail and Time of Fall, 100-lb GP Bomb AN-M30 and AN-M30A1 (<i>Preliminary</i>)	21 Aug 45	R	
1616C	Bombing Table, Trail and Time of Fall, 250-lb GP Bomb AN-M57 and AN-57A1 (<i>Preliminary</i>)	21 Aug 45	R	
1616D	Bombing Table, Trail and Time of Fall, 500-lb GP Bomb M43, AN-M64 and AN-M64A1 (<i>Preliminary</i>)	27 Aug 45	R	
1616E	Bombing Table, Trail and Time of Fall, 1,000-lb GP Bomb M44, AN-M65 and AN-M65A1 (<i>Preliminary</i>)	27 Aug 45	R	
1616F	Bombing Table, Trail and Time of Fall, 2,000-lb GP Bomb M34, AN-M66 and AN-M66A1 (<i>Preliminary</i>)	27 Aug 45	R	
1616G	Bombing Table, Trail and Time of Fall, 260-lb Fragmentation Bomb M81 (<i>Preliminary</i>)	27 Aug 45	R	
1616H	Bombing Table, Trail and Time of Fall, 350-lb Depth Bomb AN-Mk 54 Mod 1 (<i>Preliminary</i>)	27 Aug 45	R	
1616I	Bombing Table, Trail and Time of Fall, 100-lb Incendiary Bomb M47A1 and M47A2 (NP or IM Filled) (<i>Preliminary</i>)	27 Aug 45	R	
1616J	Bombing Table, Trail and Time of Fall, 500-lb SAP Bomb, AN-M58A1 and AN-M58A2 (<i>Preliminary</i>)	27 Aug 45	R	
1616K	Bombing Table, Trail and Time of Fall, 1,000-lb SAP Bomb AN-M59 and AN-M59A1 (<i>Preliminary</i>)	27 Aug 45	R	
*1617	Interval Selector Mk 1 Mod 0, Interval Generator Mk 1 Mod 0....	.....	R	
*1618	Mount .50 Cal Mk 26 and Mods.....	.....	R	
*1619	8" Error Reducer Mk 1 and Mods.....	.....	R	
*1620	Gun Fire Control System Mk 63 (Less Gun Sight Mk 15 and Less Radar Equipment Mk 28 or Mk 34) Overhaul Manual	.....	..	
*1621	100-lb Practice Bomb Mk 15 Mod 3.....	.....	R	
*1623	AA Target Reel Hydraulic System Mk 1 Mod 0.....	.....	..	
*1624	Contour Control for 5"/38 Cal Mount Mk 24 Mod 11, with Training and Elevating Gear Mk 12 Mods 1 and 2, 5"/38 Cal Mount Mk 30 All Mods with Training and Elevating Gear Mk 6 and Mods, Description, Operation, and Maintenance Instructions	.....	..	
1627	Detector Set AN/PRS-5.....	26 Oct 45	R	
*1628	Gunnery Trainer Mk 2 and Mods.....	.....	..	Will contain information from Obsolete ODs 4378, 4379, 4380, and 4381
*1629	Antenna Mount Mk 23 Mod 0.....	.....	R	
*1630	Cal .50 Mount Mk 21 Mod 1.....	.....	..	
1631	Ammunition Hazard Classification List.....	21 Sep 45	R	
*1633	5" Hand Rammer, Description and Instructions for Use.....	.....	R	
1634	U. S. Navy Torpedoes, General Data.....	15 Oct 45	R	
*1636	Glider Target Mk 16.....	.....	R	
*1637	Test Unit (Visual Checksight) Mk 1 Mod 0.....	.....	R	
*1638	Bearing and Range Indicator Mk 3 Mod 2.....	.....	C	
*1639	Target Designation Transmitter Mk 11 Mod 1.....	.....	C	
*1641	Power System (Hydraulic) Mk 1 Mod 0.....	.....	R	
*1642	The Antiaircraft Fire Control Problem and Its Solution by Gyroscopic Computing Mechanisms	.....	R	
*1643	Aircraft Bombs, Fuzes, and Accessories, Status and Availability of	.....	..	
*1644	Time of Flight Clock Mk 2, Instruction Book.....	.....	R	Will supersede OD 3156
*1645	Dictionary of Naval Ordnance Terms.....	.....	R	
*1646	Attack Director Mk 4 and Mods.....	.....	R	
*1647	The Cavity Charge and its Application to Demolishing or Entering Explosive Ordnance	.....	C	
*1648	Monitor Mk 2 Mod 2 and Associated Equipment.....		..	
*1649	SWOD (Control System) Mk 18 Mod 1.....		..	

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OP No.	Title	Date	Class	Remarks
1650	Test Unit Mk 13 Mod 0 (Computer Mk 17)—Installation and Operation		R	Will be superseded by OP 1546
*1651	Radar Equipment Mk 25 Mod 2.....	.....	C	
*1652	Balloon-borne Radar Reflector Type ML-309.....	.....	R	
*1653	Description of Gun Director Mk 43 (Stable Vertical and Stable Vertical Control Panel Mk 9) BBs 57-60	.....	R	
*1654	Maintenance and Lubrication of Charleston Auxiliary Metal Sheath Type Gun Port Seals	.....	R	
*1655	Train Parallax Corrector Mk 5, Amplifier Mk 10 and Gun Order Corrector Mk 3	.....	R	
*1656	Identification of Ammunition.....	.....	R	
*1657	Compensator Mk 2 Mod 0, Information for Installation of 5"/54 Single Mounts	.....	R	
*1658	Issue Loading Fleet Ammunition Ships.....	.....	R	
*1659	German AA Guns, Description and Operation.....	.....	R	
*1660	Catapults Type P Mk 6 Mod 2, and Type P Mk 6 Mod 3, with Catapult Gun Mk 10 Mod 0	.....	..	
*1661	Methods for Listing Synchro Systems.....	.....	R	
*1662	Instruction Pamphlet, Range Keeper Mk 8 Mods 57, 58, 60, and 61	.....	R	
*1663	Renewal Parts Lists for Photoelectric Recording Fluxmeters (<i>Preliminary</i>)	.....	..	
*1664	United States Ordnance.....	.....	R	
*1665	British Ordnance.....	.....	R	
*1666	German Ordnance.....	.....	..	
*1667	Japanese Ordnance.....	.....	..	
*1668	Russian, French, and Italian Ordnance.....	.....	..	
*1669	The Gyro Mk 18, Maintenance and Operation.....	.....	R	
*1670	Aircraft Sight System Mk 1 and Mods.....	.....	R	
*1671	Illuminated Sight Mk 20, Operation, Maintenance and Parts List	.....	..	
*1672	5"/54 Twin Mount Pilot Model, Electric Hydraulic Equipment....	.....	..	
*1673	German Underwater Ordnance.....	.....	..	
*1674	Intervalometer (Depth Charge) Mk 5 Mod 0.....	.....	..	
*1675	Ammunition Stock Recording System, Manual of Instruction for All Shore Establishments except Naval Ammunition Depots	.....	..	
*1676	Torpedo Data Computer Remote Indicating Equipment (<i>Preliminary</i>)		R	

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ORDNANCE DATA (NAVFORD ODs)

OD No.	Title	Date	Class	Remarks
18	Description of Periscope Mount Mk 1 Mod 1—General Description, Assembling and Operation	11 Feb 14	D	Designed to Carry Periscopes whose Outside Diameters are 3" as the Mk 1, 2, 3, 4, 6 etc
50	Description of Periscope Mount Mk 2 Mod 1.....	30 Apr 14	D	Designed to Carry Mk 5 Periscopes or Others Whose Diameters (Outside) are 4"
57	14" Turret Assemblies Nos 27-46 incl. Weights and Centers of Gravity	13 Aug 14	R	
100	Description of 14" Rammers Mk 1.....	19 Jun 17	D	
102	Description of 14" Deck Lug Mk 1.....	7 Jan 15	R	
119	Description of 14" Slide Mk 1 and 14" Slide Mk 1 Mod 1.....	14 Apr 15	D	
147	14" Shell Hoist Mk 6—Description of.....	31 Aug 15	D	Lower Member of a 2-Stage Shell Hoist of which 14" Shell Hoist Mk 1 is the Upper Member
148	Description of 14" Shell Hoist Mk 1.....	31 Aug 15	D	See remarks for OD 147
374	Classification of Ordnance Material.....		R	Rev B. Will be superseded by Ordnance Standard No 68
453	Description of Submarine Attack Course Finder Mk 1 Mod 3....	3 May 22	D	Rev F
471	Submarine Attack Teacher Mk 1 Mod 1—Instructions for Installation of the Submarine Teacher Mk 1 Mod 1.....	27 Jun 21	R	
477	Optical Equipment—Mk 21 Rangefinder.....	19 Sep 21	D	
480	Assemblies, Director Gear 6" Elevating Gun Attachment Mk 1 and Mk 2 and 6" Training Gun Attachment Mk 1 and Mk 2.....	27 Jul 22	D	
481	Description of Searchlight Deflection Eliminator Mk 2.....	7 Jul 22	D	
513	Spotting Glass Mount Mk 4—Description.....	21 Jul 22	D	
515	Index of Drawings of Ammunition Details with Latest Revisions.	12 May 39	R	
516	Solenoid Mk 9 and Mk 9 Mod 1—Description.....	7 Jun 22	D	
546	Ray Filter Attachment Mk 1 (For Telescopes).....	9 Jun 23	D	
580	Girder Assembly—Lower Naval Proving Ground, Dahlgren, Virginia	21 May 24	D	
635	Training Receivers Mk 1 and Mods—Characteristics Use and Adjustment of Spare Instruments	Jun 1925	D	
642	Range Converter Mk 1 Mod 4—Description and Operation.....	20 Sep 27	D	
656	Target Bearing Transmitter Mk 5 Description.....	19 Nov 29	D	
657	Target Bearing Transmitter Mk 5 and Mod 1.....	23 Nov 29	D	Rev A
658	USS CINCINNATI—6" Sprinkler System Mk 1—Description and Instructions for Operation	12 Dec 29	R	
659	USS RICHMOND—6" Sprinkler System Mk 1—Description and Instructions for Operation	18 Dec 29	R	
660	Gun Director Mk 20 Mod 2—Description, Installation and Adjustment	20 Jan 30	D	Rev A
662	Gun Director Mk 20 Mod 4—Description, Installation and Adjustment	22 Aug 30	D	Rev A
664	Gun Director Mk 21 Mod 1—Description, Installation and Operation	5 Mar 31	D	
665	Gun Director Mk 21 Mod 2—Description, Installation and Operation	26 Mar 31	D	
666	Gun Director Mk 23—Description, Installation and Adjustment..	25 Mar 31	D	Rev A
667	Gun Director Mk 23 Mod 1—Description, Installation and Adjustment	16 Apr 31	D	

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OD No.	Title	Date	Class	Remarks
672	Time of Flight Clock Mk 1 Mod 2—Description.....	8 Apr 44	D	
684	Training Receivers Mk 1 Mods 22 and 23 (Follow-the-Pointer System)—Description, Installation and Adjustment	16 May 31	D	
685	Elevation Receiver Mk 1 Mod 15 (Follow-the-Pointer System)—Description, Installation and Adjustment	1 May 31	D	
686	Elevation Receiver Mk 1 Mod 16 (Follow-the-Pointer System)—Description, Installation and Adjustment	1 Jul 31	D	
689	Training Receivers Mk 1 Mods 24 and 25 (Follow-the-Pointer System)—Description, Installation and Adjustment	2 Oct 31	D	
690	Rangefinder Training Attachment Mk 3—Description, Installation and Adjustment	3 Jan 34	D Rev A	
*692	Gun Director Mk 8 Mod 2—Description.....	.....	..	
*693	Independent Train and Arbitrary Deflection Transmitter Mk 2 Description	.....	..	
*694	Gun Director Mk 8 Mod 12 Description.....	.....	..	
696	Gun Director Mk 21 Mod 3—Description, Installation and Operation	6 Aug 34	D	
699	Fuze Cover Soldering Machine—Description and Operation.....	17 Mar 33	D	
700	Director Gear—Broadside Battery—Dip and Convergence Data..	24 Jul 42	D Rev A	
717	Torpedo Tubes—Tube Testing Sets Mk 1, Mk 1 Mods 1, 2, and 3, and Mk 2 and Mod—Description and Instructions	17 Feb 44	R Rev G	
732	Specifications for the Manufacture and Inspection of Primer Lock Combination Mk 15 Mod 1	2 Nov 44	D Rev C	
#733	Description and Instructions for the Manufacture and Installation of Tetryl Boosters for Torpedo Warheads	29 May 30	R	
743	Materials Used in Manufacture of Fuzes, Tracers, Igniters, Primers, etc	20 Jul 38	R Rev A	
749	Specification of Materials Purchased Commercially for Workshop Equipment of <i>Torpedo Tenders</i> in the U.S. Navy	22 Jan 42	R Rev E	Issued with OTI T19-43
750	Description and Instructions for Use of Torpedo Workshop Testing Equipment and Tools	May 1942	R	1st rev. With Change 1 dated 17 Mar 45 and OTI T19-43, Supersedes OTI T10-44, ODs 701, 729, 735 & 738. Will be superseded by OP 1217
762	Telescope Collimator Mk 2 and Mk 2 Mods 1 and 2—Description and Operation	25 Mar 27	D Rev A	
784	5"/25 Cal AA Gun Mount Mk 19 and Mods, Firing Stop Mechanism, Cam Plate, Manufacturing and Installation	4 Jan 41	D Rev C	With Change 2 dated 24 Oct 45 superseding Change 1
802	Description—Main Battery Fire Control System—Instrument, Double Turret Indicator Mk 2 Mod 0 (Turrets 1 and 2) Mod 1 (Turrets 3 and 4)	Undated	R	
863	14" Elevating Gear Mk 1 Mod 4 for <i>USS NEW YORK</i> , <i>USS TEXAS</i> , <i>USS OKLAHOMA</i> AND <i>USS NEVADA</i>	29 Jun 26	D	
867	Rangefinder Mount Mk 28, Mk 28 Mod 1.....	27 May 44	D Rev B	
888	Gun Director Mk 20 and Mk 20 Mod 1—General Description and Instructions for Installation (<i>Preliminary</i>)	14 Oct 26	D	
900	Tests of Suitable Element of Firing Keys Mk 16, Mod 1 and 17—Information Concerning Firing Circuit Currents and Resistances on <i>Battleships</i> , <i>Light Cruisers</i> , and <i>Destroyers</i>	5 Nov 26	R	
901	Rangefinder Mk 34—Description and Operation.....	24 Nov 26	R	
931	Rangefinder Mk 28 Mod 1 for <i>Destroyers</i> —Optical Equipment	29 Jun 27	R	
938	Fire Control Equipment—Instructions for Tests of Selsyn Generators, Motors and Transformers	30 May 27	R	

*Under preparation. #Under revision.

NUMERICAL LISTING—NAVORD ODs

OD No.	Title	Date	Class	Remarks
939	Mounts—14" Slides Mk 2 Mods 3 and 4 (<i>USS NEVADA, OKLAHOMA, and ARIZONA</i>)	6 Jun 37	R Rev A	
958	Description of Gun Train Indicator Mk 10 Mods 2-5 incl.....	15 Oct 28	R	
960	Description of Gun Elevation Indicator Mk 9 Mods 2 to 5.....	16 Oct 28	R	
961	Description of Gun Battle Order Indicator Mk 14 and Mk 14 Mods 1, 2 and 3	19 Oct 28	R	
965	Instruction Book for Rangekeeper Mk 1 Mod 12.....	19 Jul 29	R	
995	5", 6", 7", 8", 10", 12", 14", and 16" Guns, Shell Seating Powder Space, Chamber Volume, Rifling	5 Aug 32	R Rev B	
1011	Description of Parallax Range Adjuster Mk 3— <i>USS NEW YORK, and TEXAS, Main Firing—Fire Control System</i>	11 Jan 27	R	
1012	Description of Multiple Turret Indicator Mk 6— <i>USS NEW YORK, and TEXAS—Main Battery Fire Control System</i>	11 Jan 27	R	
1013	Description of Double Turret Train Indicator Mk 3 <i>USS NEW YORK—Main Battery Fire Control System</i>	11 Jan 27	R	
1014	Description of Train Indicator Mk 11— <i>USS NEW YORK and TEXAS—Main Battery Fire Control System</i>	11 Jan 27	R	
1015	Description of Triple Turret Train Indicator Mk 2 <i>USS NEW YORK and TEXAS—Main Battery Fire Control System</i>	11 Jan 27	R	
1016	Description of Turret Train Transmitter Mk 4— <i>USS NEW YORK and TEXAS—Main Battery Fire Control System</i>	11 Jan 27	R	
1017	Description of Target Bearing Transmitter for Gun Directors Mk 20 and Mk 20 Mod 1— <i>USS NEW YORK and TEXAS—Main Battery Fire Control System</i>	11 Jan 27	R	
1018	Description of Target Bearing Transmitter for Gun Directors Mk 21— <i>USS NEW YORK and TEXAS—Main Battery Fire Control System</i>	11 Jan 27	R	
1019	Description of Double Turret Train Indicator Mk 3 Mod 1— <i>USS NEW YORK and TEXAS—Main Battery Fire Control System</i>	11 Jan 26	R	
1020	Description of Target Bearing Indicator Mk 15— <i>USS NEW YORK and TEXAS—Main Battery Fire Control System</i>	11 Jan 27	R	
1023	Description of Plot Signal Light Mk 2— <i>USS NEW YORK and TEXAS—Main Battery Fire Control System</i>	11 Jan 27	R	
1026	Description of Procedure to Control Main Battery in Various Groupings— <i>USS NEW YORK and TEXAS</i>	3 Mar 27	R 1st rev	
1028	General Instructions for Testing Zero Setting and Phase Rotation of Selsyn Generators Motors and Transformers <i>USS PENSACOLA and SALT LAKE CITY</i>	25 Apr 32	D 5th rev	
1037	Description of Selsyn Generator Model 81E109—Frame 77 Flange Mounted	20 Jul 42	D 10th rev	
1039	Description of Mount Train Indicator Mk 1— <i>USS PENSACOLA and SALT LAKE CITY—Main Battery Fire Control System</i>	1928	R	
1040	Description of Mount Train Indicator Mk 1 Mod 1— <i>USS PENSACOLA and SALT LAKE CITY—Main Battery Fire Control System</i>	1928	R	
1041	Description of Bearing Indicator Mk 1—Main Battery Fire Control System	19 Jun 29	R 5th rev	
1044	Description of Exciter Mk 3—Main Battery Fire Control System	1928	R 2nd rev	
1045	Selsyn Generators, Motors and Transformers—Instructions for Testing Zero Setting and Phase Rotation of Selsyn Generator Motors and Transformers— <i>USS WEST VIRGINIA</i>	5 May 29	R 3rd rev	
1046	Description of Target Designator Mk 4—Main Battery Fire Control System	1929	R 2nd rev	
1047	Description of Target Designator Mk 4 Mod 1— <i>USS PENSACOLA and SALT LAKE CITY Main Battery Fire Control System</i>	1928	R	

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OD No.	Title	Date	Class	Remarks
1200	Optical Instruments—Data Sheets. (<i>Four Volumes</i>).....	1 Sep 43	R	Rev A
#1586	Powder Proof Data.....		R	Not available for distribution
1588	Projectiles—Instructions for Special Loading of.....	22 Aug 28	R	Rev Q
1590	6"/53 Cal iv 3,000 fs Ballistic Computation Diagram.....	3 Oct 28	R	
1596	Gun Train Indicator Mk 10—Fire Control Equipment—Director Firing Installation (Ford Type) 5" Anti-Aircraft Battery	16 Nov 26	R	
1597	Fire Control Equipment—Director Firing Installation, Ford Type. 5" Anti-Aircraft Battery—Gun Train Indicator Mk 10 Mod 1	16 Nov 26	R	
1598	Anti-Aircraft Instruction Book—Gun Elevation Indicator Mk 9...	18 Nov 26	R	
1599	Fire Control Equipment—Director Firing Installation, Ford Type. 5" Anti-Aircraft Battery—Gun Elevation Indicator Mk 9 Mod 1	18 Nov 26	R	
1603	Anti-Aircraft Instruction Book—Step-by-Step Transmitters and Motors	15 Dec 26	R	
1604	Gun Battle Order Indicator Mk 13.....	26 Nov 26	R	
1605	Searchlight Battle Order Indicator Mk 12.....	29 Nov 26	R	
1618	Range Correction for Air Density 14"/45 Ballistic Computation Diagram	13 Jul 31	R	Rev A
1619	14"/45 Cal iv 2,600 fs Ballistic Computation Diagrams.....	13 Jul 31	R	Rev B
1620	14"/45 Cal iv 2,000 fs Ballistic Computation Diagrams.....	20 Mar 31	R	
1626	Firing and Lighting Circuits—Source of Current for Local Firing. Comparative Tests Made with 6, 10 and 12 Volt Storage Batteries	31 Jan 28	D	
1652	Description—Main Battery Fire Control System, Battle Order Indicator Mk 15. (<i>USS PENSACOLA and SALT LAKE CITY</i>)	30 Nov 27	R	
1653	Description—Main Battery Fire Control System, Battle Order Transmitter Mk 15. (<i>USS PENSACOLA and SALT LAKE CITY</i>)	Oct 1928	R	
1702	5" AA Sights Azimuth Shaft.....	Undated	D	
1709	8" Training Gear Mk 20, 8" Elevating Gear Mk 21, 8" Elevation Gun Attachment Mk 4—Manufacturing List of Parts With Instructions for Assembly and Installation on CA32 & CA36	Jun 1943	R	
1710	5" Sight Mk 28 Mod 5—Description and Installation of Sights....	Undated	R	
1712	Preliminary Description and Operation of Antenna Train Drive Mk 1 and Mk 1 Mod 1.....	29 Apr 43	C	Rev A
1715	Gas Check Seat Reamer for 8"/55 Cal Guns Mk 9 Mod 2, Mk 14 and Mk 14 Mod 1—Instructions Covering Setup and Operation of the Tools	16 Sep 42	D	
1716	8" Main Battery Turrets Firing Stop Cam Mechanism.....	14 Aug 43	R	
1721	Description of Gun Elevation Indicator Mk 11—Main Battery Fire Control System	1929	R	2nd rev
1736	Description of Mount Train Indicator Mk 2—Main Battery Fire Control System	5 Mar 30	R	4th rev
1737	Description of Mount Train Indicator Mk 1 Mod 2—U.S. <i>Light Cruisers</i> 26 to 31 incl.	15 Nov 30	R	6th rev
1749	Description of Battle Order Transmitter Mk 17—Main Battery Fire Control System	26 Feb 30	R	1st rev
1752	Description of Selsyn Differential Motor Model 31E111 Frame 07 Flange Mounted	8 Apr 38	R	4th rev
1753	Description of Selsyn Motor Model—31E112 Frame Flange Mounted	3 Sep 31	R	4th rev
1754	Description of Gun Elevation Indicator Mk 11 Mod 1, <i>Light Cruisers</i> 26 and 31. Main Battery Fire Control System	8 Feb 30	R	2nd rev
1755	Description of Bearing Indicator Mk 1 Mod 1 <i>Light Cruisers</i> 26-31—Main Battery Fire Control System	13 Feb 30	R	2nd rev

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OD No.	Title	Date	Class	Remarks
1756	Description of Gun Train Indicator Mk 12 Mod 1. <i>Light Cruisers</i> 26-31—Main Battery Fire Control System	8 Nov 30	R 3rd rev	
1759	Description of Gun Director Mk 24, Main Battery Fire Control System	12 Sep 31	R 3rd rev	
1760	Description of Gun Director Mk 24 Mod 1. Main Battery Fire Control System	12 Sep 31	R 3rd rev	
1761	Description of Selsyn Motor Model 81E116 Frame 07 Flange Mounted	6 Nov 30	R 3rd rev	
1762	Description of Selsyn Generator Model 81E114 Frame 65 Flange Mounted	Apr 1934	R	
1763	Description of Selsyn Generator Model 81E118 Frame 05 Flange Mounted	6 Sep 32	R 3rd rev	
1764	Description of Selsyn Transformer Model 81E120 Frame 07 Flange Mounted	23 Nov 33	R 2nd rev	
1766	Description of Selsyn Motor Model 81E113 Frame 05 Mounted Flange Mounted	26 Apr 32	R 4th rev	
1767	Description of Selsyn Transformer Model 81E115 Frame 65 Flange Mounted	23 Nov 33	R 2nd rev	
1768	Description of Selsyn Transformer Model 81E117 Frame 77 Flange Mounted	18 Oct 32	R 4th rev	
1769	Description of Selsyn Generator Model 81E119 Frame 77 Flange Mounted	10 May 33	R 4th rev	
1771	Description of Selsyn Motor Model 81E123, Frame 05 Ball Bear- ing Mounted	15 Jun 34	R 3rd rev	
1773	Description of Selsyn Generator Model 81E122 Frame 87 Flange Mounted	23 Nov 33	R 2nd rev	
1774	Description of Selsyn Motor Model 81E126 Frame 05 Nozzle Mounted	23 Nov 33	R 2nd rev	
1775	Description of Bearing Indicator Mk 5—Main Battery Fire Con- trol System	29 Aug 32	R 4th rev	
1776	Description of Multiple Turret Train Indicator Mk 7—Main Bat- tery Fire Control System	28 Apr 32	R 6th rev	
1778	Description of Battle Order Transmitter Mk 18 Mod 1—Main Battery Fire Control System	26 Apr 32	R 3rd rev	
1779	Description of Battle Order Transmitter Mk 18—Main Battery Fire Control System	25 Apr 32	R 6th rev	
1780	Description of Battle Order Indicator Mk 18—Main Battery Fire Control Systems	26 Apr 32	R 4th rev	
1781	Description of Searchlight Train Order Corrector Mk 1—Main Battery Fire Control System	18 Oct 32	R 6th rev	
1782	Description of Gun Train Indicator Mk 17—Main Battery Fire Control System	22 May 34	R 10th rev	
1783	Description of Exciter Mk 4—Main Battery Fire Control System.	30 Jun 37	R 6th rev	
1784	Description of Sight Angle and Deflection Transmitter Mk 1— Main Battery Fire Control System	26 May 33	R 4th rev	
1785	Description of Target Bearing Transmitter Element for Gun Di- rector Mk 21 Mod 3—Main Battery Fire Control System	15 Jun 33	D 2nd rev	
1786	Description of Gun Elevation Indicator Mk 16—Main Battery Fire Control System	16 Feb 44	R 3rd rev	
1787	Description of Exciter Mk 4 Mod 3—Anti-Aircraft Fire Control System	29 Aug 32	R 3rd rev	
1788	General Description of Main Battery Fire Control System.....	17 Sep 31	R 2nd rev	
1789	Description of Target Bearing Transmitter Unit (For Target Bearing Transmitter Mk 5 Mod 2) Main Battery Fire Control System	15 Jun 33	R 2nd rev	

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OD No.	Title	Date	Class	Remarks
1790	Description of Exciter Mk 4 Mod 4—Main Battery Fire Control System	29 Aug 32	R 2nd rev	
1791	Description of Gun Director Mk 21 Mod 3 (Director Correction Transmitter Element) Main Battery Fire Control System	15 Jun 33	D 3rd rev	
1792	Description of Multiple Turret Indicator Mk 9—Main Battery Fire Control System	15 Jun 33	R 3rd rev	
1793	Description of Multiple Turret Indicator Mk 9 Mod 1—Main Battery Fire Control System	15 Jun 33	R 3rd rev	
1794	Description of Turret Train Transmitter Mk 6—Main Battery Fire Control System	15 Jun 33	R 3rd rev	
1796	Description of Target Designator Mk 8 Mod 1—Main Battery Fire Control System	15 Jun 33	R 2nd rev	
1797	Description of Target Designator Mk 8 Mod 2—Main Battery Fire Control System	14 Jun 33	R 2nd rev	
1798	Description of Train Indicator Mk 18—Main Battery Fire Control System	15 Jun 33	R 5th rev	
1799	Description of Parallax Range Adjuster Mk 5—Main Battery Fire Control System	15 Jun 33	R 2nd rev	
1800	Description of Sight Angle and Deflection Transmitter Mk 1 Mod 1—Second Battery Fire Control System	26 May 33	D 3rd rev	
1801	Description of Gun Elevation Transmitter Mk 2—Main Battery Fire Control System	5 Nov 34	R 7th rev	
1802	Description of Selsyn Receiver Regulator Model 81E127—Main Frame 65 Flange Mounted	23 May 33	R 1st rev	
1803	Description of Gun Elevation Indicator Mk 17, Description and Secondary Battery Fire Control System	22 Mar 34	R 6th rev	
1804	Description of Gun Train Indicator Mk 19—Secondary Battery Fire Control System	14 Jun 33	R 3rd rev	
1805	Description of Selsyn Receiver Regulator Model 81E129 Frame 65 Flange Mounted	27 Mar 33	R 2nd rev	
1806	Description of Gun Indicator Mk 21—Anti-Aircraft Fire Control System	15 Jun 33	R 5th rev	
1807	Description of Searchlight Train Indicator Mk 10—Fire Control System	15 Jun 33	R 6th rev	
1808	Description of Speed Converter Mk 1—Main Battery Fire Control System	17 Feb 38	D 1st rev	
1809	Description of Speed Converter Mk 1 Mod 1—Main Battery Fire Control System	17 Feb 33	D 1st rev	
1810	Description of Searchlight Elevation Indicator Mk 2—Anti-Aircraft Battery Fire Control System	12 Aug 43	D 5th rev	
1812	Description of Gun Elevation Indicator Mk 19—Anti-Aircraft Battery Fire Control System and Description of Modification of Instrument for CAs 36, 37 and 38	21 Sep 43	D 5th rev	
1813	Description of Elevation Receiver Regulator Mk 1—Anti-Aircraft Fire Control System	23 May 33	R 2nd rev	
1814	Description of Train Receiver Regulator Mk 1—Anti-Aircraft Fire Control System	23 May 33	R 1st rev	
1815	Description of Bearing Indicator Mk 5 Mod 1 Main Battery Fire Control System	22 Jan 34	R 4th rev	
1816	Description of Gun Director Mk 31 and Mk 31 Mod 1—Main Battery Fire Control System	30 Jun 33	R 7th rev	
1817	USS OKLAHOMA and NEVADA—Director Gear—14" Elevation Gun Attachment Mk 5 and Mk 6—Instructions for Installing and Adjusting	2 Mar 29	D	
1819	Compass Card Projector Mk 4—Adjustment and Care.....	20 Jul 29	D	

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OD No.	Title	Date	Class	Remarks
1837	Rangefinder Stand Mk 10 Mod 3, Mk 20 and Mods, Mk 16 Mod 3, and Mk 22 Mod 2—Elevation Mechanism	Undated	D	
1838	Rangefinder Stand Mk 33 and Mk 33 Mods 1, 2 & 3.....	12 Feb 45	D	Rev B
1839	Guns—Bore Grinder for the Removal of Constrictions in Bores of 12", 14" and 16" Guns—Instructions for Setting up and Operating the Machine	21 May 29	D	
1852	Torpedo Air/Flask Dilation Indicator (Alexandria TS Modification)—Description and Operation	24 Jun 29	D	
1853	Band Seat Grinder Mk 1 and Mk 1 Mod 1 (For 14" Guns) Instructions for Setting up and Operating the Machine	24 Feb 33	D	
1857	Rangefinder Mount Mk 35—Description.....	20 Nov 30	D	Rev A
1861	Gun Firing Circuits—Instructions for Installing Firing Cables and Cable Terminals on Guns	13 Sep 29	D	
1865	Aeronautical Equipment—Aircraft Machine Gunsight Type C-3—General Description	3 Feb 30	R	
1877	Parallax Range Adjuster Mk 4 <i>USS ARIZONA</i> and <i>PENNSYLVANIA</i>	1929	R	
1891	Information and Instructions for Balancing 14" Turret Mounts— <i>USS PENNSYLVANIA</i> and <i>ARIZONA</i>	29 Nov 29	D	
1904	14"/50 Cal iv 2,600 fs Ballistic Computation Diagrams.....	3 May 30	R	
1908	14"/45 Cal iv 2,600 fs Ballistic Computation Diagrams, <i>USS TEXAS</i>	11 Jun 35	R	Rev A
1922	Electric Test of K-2 Mod 1, Mine Firing Device.....	23 Apr 33	R	
1923	Specifications for Knocked-Down 6" Dry Cells for Mine Batteries	24 Apr 33	D	Rev A
1933	8" Elevating and Training Gears—Speed Gear Control Screw Cut-out Switches—Description and Instructions for Installation CAs 24-31	10 Jun 30	D	
1938	Instructions for Manufacture of Parts and Assembly for Proof Firing 8"/55 Cal Gun Mk 12 in 10" Girder Mk 5	Jun 1930	R	
1948	Rangefinder Mount Mk 36—Description.....	25 Oct 30	R	
1952	Assemblies. 5" Loading Machine Mk 7, 8, 9 and Mk 9 Mod 1....	11 Jun 31	R	
1960	5" Mount Mk 19 and Mods Anti-Aircraft Maintenance Overhauling, Examination and Replacement of Parts of the Counter Recoil and Differential Cylinders	22 Nov 30	D	
1967	3" Mount Mk 11 Mod 8—Sight Breech Mechanism V-10 (Anti-Aircraft Mount on <i>Submarines</i> B1 to B3, C1 and C2)—General Description	26 Feb 32	R	
1986	5"/25 Anti-Aircraft Mount Mk 19 and Mods. Synchronizing of the Firing Stop Mechanism for Electric and Percussion Firing	6 Aug 31	D	
1987	5" Loading Machine Mk 8—Elevation Stop Mechanism and Projectile Deflection Tray—Instructions for Assembly	6 Aug 31	D	
1988	4"/50 Cal iv 2,900 fs Ballistic Computation Diagrams.....	20 Apr 31	R	PG 19— <i>USS SACRAMENTO</i>
1990	Instructions for Installing Training Circle Covers on 5" Mount Mk 15—With 5" Carriage Mk 13 Mod 4	22 Apr 32	D	Rev A
1999	5" Sight Mk 28 and Mods 1 & 2 Anti-Aircraft Assembling of Sight on Gun Mount	7 Jun 31	R	
2017	Periscopic Alidade Mk 1—Installation and Care.....	3 Apr 33	R	
2018	5" Sight Mk 28 Mods 1 and 2 Anti-Aircraft Sight Angle and Deflection Indicators—Description, Operation and Installation of Indicators	Undated	R	Rev A
2026	Detonator Sand Test Bomb and Firing Hammer—Instructions for Use of	23 Aug 35	C	Rev A
2031	<i>USS PORTLAND</i> (CA 33) and <i>USS INDIANAPOLIS</i> (CA 35). 8" Triple Enclosed Mounts—Multiple Rotary Transfer Switch Terminal Markings	11 Feb 32	D	

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OD No.	Title	Date	Class	Remarks
2033	Assemblies—0"50 Sight Mk 3, 4 and 5 (Anti-Aircraft)—Instructions for Adjustment and Use	21 Apr 37	D	Rev D. Also Mk 6
2035	Primer Testing Set Mk 1—Description and Operation.....	Undated	D	
2038	Illuminating Projectile Sight, Mk 2 (Used on 3" Sight Mk 21 and Mods)—Description	11 Apr 32	D	
2044	NEW ORLEANS (CA 32) ASTORIA (CA 34) and MINNEAPOLIS (CA 36)—8" Triple Turrets—Multiple Rotary Transfer Switch—Terminal Markings	13 Sep 32	D	Superseded by OD 2732 for CA 39 and 44
2052	Rangekeeper Mk 7 Mod 3—Instruction Book. (Secondary Battery Fire Control BBs 40-42)	22 Jun 34	R	3rd rev
2055	Instruction Book for Rangekeeper Mk 8 Mod 3 USS TUSCALOOSA, SAN FRANCISCO and QUINCY	15 Oct 33	R	
2067	Illuminating Projectile Sight, Mk 1 (used on 4" Sight Mk 21 and Mods)—Description	31 Mar 32	R	
2071	Manufacture and Installation of the Firing Stop Mechanism Cam Plate, also Synchronizing of the Firing Stop Mechanism for Electric and Percussion Firing for 5"/38 Cal AA Gun Mounts Mk 21 and Mk 21 Mod 1, Mk 24 and Mk 24 Mod 1, Mk 25 and Mk 25 Mods 1 and 2, Mk 30 and Mods 1 to 11 incl	8 Sep 43	D	Rev F
2075	3"/50 Tracking Sheet.....	Undated	R	
2077	3"/50 Anti-Aircraft—Deflection Diagram.....	7 Sep 33	R	
2090	Periscopic Alidade Mk 1 Mod 1—Installation and Care.....	5 Dec 33	R	
2092	Instructions for Installing Check Sight Holders Drawing 119123, on 3"/50 Cal Sight Mk 16 Mod 1	8 Jan 34	D	
2096	3"/50 Anti-Aircraft Tracking Sheet for Torpedo Plane Attacks, 21 Second Fuze Mk 11 Mods 2 and 3	4 Jan 34	R	
2097	14"/50 Cal Ballistic Computation Diagrams (MISSISSIPPI)....	1934	R	
2098	14"/50 Cal Ballistic Computation Diagrams USS NEW MEXICO and IDAHO	14 Apr 34	R	
2101	Fire Control Equipment, Arma Synchro Control Transformer Type 5CT—Mod 1	30 Jun 43	R	
2104	Electronic Tube Tester Mk 1—Theory, Operation and Maintenance	Undated	D	
2105	Stable Element Mk 2 Mods 5, 6, 8, 9, 11 and 12.....	22 Apr 44	R	
2106	Stable Element Mk 2 Mods 7, 10 and 13.....	14 Sep 44	R	Rev A
2109	Test Report Summary, Train Power Drive Mk 31 Mods 0 and 1, Elevation Power Drive Mk 31 Mods 0 and 1—Parts 1, 2, and 3	9 Nov 45	R	
2113	Description of Gun Battle Order Indicator Mk 14 Mod 4.....	9 Sep 30	R	1st rev
2114	Fire Control Equipment—Rangekeeper Mk 7 Mods 1 and 2.....	31 Jul 34	R	Rev A
2116	Design Specifications of Rangekeeper Mk 8.....	18 Jul 32	R	
2119	Fire Control Equipment—Gun Train Indicator Mk 15 and Mk 15 Mod 1—Description, Cruisers 32-35	5 Aug 32	R	
2121	Illumination Transformer Mk 1 Mods 3 to 5. Description, Cruisers 32 and 35	12 Aug 32	D	
2124	Fire Control Equipment—Searchlight Train Indicator Mk 9 and Mk 9 Mod 1—Description	23 Aug 32	R	
2126	Design Specifications for Rangekeeper Mk 8 Mod 1.....	18 Jul 32	R	
2127	Design Specification of Rangekeeper Mk 8 Mod 2.....	20 Dec 32	R	
2128	Fire Control Equipment—Rangekeeper Mk 8—Description.....	3 Aug 33	R	
2129	Rangekeeper Mk 8 Mod 1—Description.....	3 Mar 33	R	
2130	Instruction Book for Rangekeeper Mk 8 Mod 2 and Mk 8 Mod 10	24 Jan 33	R	1st rev
2156	Battle Order Indicator Mk 19—Description CAs 33 and 35.....	Undated	R	
2157	Battle Order Transmitter Mk 19 and Mk 19 Mod 1—Description, CAs 33 and 35	Undated	R	
2158	Multiple Turret Train Indicator Mk 8 (For CA's 33 and 35)....	16 Jan 31	R	1st rev. With Change 1 dated 9 Jul 45

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OD No.	Title	Date	Class	Remarks
2159	Gun Elevation Indicator Mk 15—Description, CAs 33 and 35.....	23 Oct 30	R	
2160	Bearing Indicator Mk 4, CAs 33 and 35.....	20 Oct 30	R	
2162	Searchlight Train Order Corrector Mk 2 CAs 33 and 35.....	22 Jun 31	C	2nd rev
2164	Differential Transmitter Type D-1.....	18 Nov 30	R	
2165	Torpedo Tube Train Order Transmitter and Torpedo Target Bearing Transmitter for Torpedo Director Mk 26 CAs 33 and 35	Nov 1930	C	
2166	Outline Description of Main Battery Fire Control System USS ARIZONA and PENNSYLVANIA	18 Dec 30	R	
2180	Fire Control Equipment—Gun Directors Mk 29 Mod 1 and Mk 30 (Stable Vertical)	11 Aug 33	R	
2296	Gun Director Mk 30 (Stable Vertical).....	28 Jun 35	R	
2306	Director Gear—U.S. Coast Guard Academy—Parallax Data.....	17 Aug 33	D	
2308	Description of Self-Synchronous Transmitter.....	18 Sep 33	R	
*2320	Battle Order Transmitter Mk 21, Description.....	.....	..	
*2321	Battle Order Transmitter Mk 21 Mod 1, Description.....	.....	..	
*2323	Battle Order Indicator Mk 20 Description.....	.....	..	
*2324	Battle Order Transmitter Mk 20, Description.....	.....	..	
2326	Synchro Motor Mk 8 (Size 1F)—Instructions for Testing.....	10 Dec 38	R	
2327	5" Training Gun Attachment Mk 2 Mod 2—Description, Installation and Adjustment	12 Apr 40	D	
*2328	5" Elevation Gun Attachment Mk 2 Mod 2, Description, Installation and Adjustment	.....	..	
*2329	5" Elevation Gun Attachment Mk 6 Mod 1, Description, Installation and Adjustment	.....	..	
*2330	Training Receiver Mk 1 Mod 10, Description.....	.....	..	
*2331	Elevation Receiver Mk 1 Mod 20, Description.....	.....	..	
*2332	5" Training Gun Attachment Mk 10, Description, Installation and Adjustment	.....	..	
2333	5" Training Gun Attachment Mk 10 Mod 1—Adjustment, Installation and Description	22 Nov 40	R	
2335	5" Elevation Gun Attachment Mk 10 Mod 1—Description, Installation and Adjustment	17 Apr 41	R	
2336	Erosion Data for Computing Range Scales for Mk 1 and Mods --Elevation Receivers—4" Gun—2,500 fsiv	26 Apr 40	R	
2337	Instructions for Aligning 16" Sights Mk 4 Mods 0 to 13 of BBs 55 to 66	1 Mar 45	R	
2338	Searchlight Train Order Corrector Mk 4 Mod 1, Searchlight Elevation Order Corrector Mk 4 Mod 1, Searchlight Elevation Order Corrector Mk 4 Mod 2, Searchlight Train Order Corrector Mk 4 Mod 2, Elevation Designator Mk 2 and Mk 2 Mods 1, 2 and 3, Train Designator Mk 2 and Mods 1, 2 and 3, Target Designator Transmitter Mk 3 and Mk 3 Mod 1—Description	18 Apr 41	R	
2339	Gun Director Mk 38 and Mk 38 Mod 1—For BBs 55 to 60—Installation Instructions	5 Mar 41	R	
2340	Erosion Data for Computing Range Scales for Mk 1 and Mods Elevation Receivers 6" Gun 2,800 fsiv Range Table Ordnance Pamphlet No. 200—5 fs Increment	1 Dec 41	R	Rev B
2341	Train Designator Mk 2 Mod 3—Description.....	30 Nov 41	R	
2342	Illumination Transformer Mk 10 Mod 8—Description.....	30 Nov 41	D	
2343	Gun Director Mk 40 for BBs 55 to 60—Installation Instructions..	15 Jan 42	R	
2344	Theory and Lectures for Computer Mk 1 Mod 1.....	8 Jun 42	R	Rev A
2345	Theory and Lectures for Computer Mk 3 Mods 0 to 1 and Trunnion Tilt Corrector Mk 5	18 Feb 42	R	
2346	Instructions for Adjustment and Testing Amplidyne Train Control System for Gun Director Mk 38	8 May 42	R	
2347	Theory and Lectures for Computer Mk 1 Mod 2.....	10 Mar 43	R	Rev B

*Under preparation.

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OD No.	Title	Date	Class	Remarks
2348	Gun Elevation Indicator Mk 33 and Mk 33 Mods 1 and 2—BBs 55 to 60—Installation Instructions	30 Jun 42	R Rev A	
2349	Detailed Instructions and Method of Procedure for Taking Firing Stop Cam Data and Installation in 5" Anti-Aircraft Gun Mounts	24 Oct 43	R Rev B	
2352	Gun Elevation Indicator Mk 23 Mod 2 for CLs 55 and 56 Installation Instructions	19 May 42	R	
2354	Gun Elevation Indicator Mk 40 for CA's 68-75, Installation Instructions	1 Mar 43	R Rev A	
2355	Tests and Procedure for Fitting Out 5"/38 Cal Battery.....	1 Sep 44	R Rev A	
2356	Gun Elevation Indicator Mk 23 Mod 3 for CL's 57, 58, 62-67, 80-83, 86, 87, 89-94, 101, 102, Instructions for Installations	22 Sep 42	R	
2357	Gun Elevation Indicator Mk 33 and Mk 33 Mods 1 and 2 (BB 55) —Instructions for Modifying Units in Service	14 Oct 42	R	
2359	Sight Setters Clutch Interlock System for 16" Sight Mk 4 Mods 2 and 3—for BBs 61-66 incl—Installation Instructions	12 Nov 42	R Rev A	
2363	Changes Required in Fire Control Instruments Manufactured at Navy Yard, NY To Improve Red Illumination	4 Feb 44	D	
2364	Instructions for Assembly of Radar Reflector and Installation on Target Sleds Series 40 and 60	30 Mar 44	D	
2365	Instructions for Testing 16" Powder Hoist Mk 9 and Mods Upper Trunk Door, Experimental Operating Equipment	27 Sep 44	D	
2366	Fuze Setter (152-mm Projectiles) Description, Installation and Adjustment	12 Jun 44	D	
2368	Instructions to Adjust the Clark Solenoid Brake of the 16" Projectile Hoists Mk 8 and Mk 8 Mods 1 and 2	May 1944	D	
2456	Description of Gun Directors Mk 31 Mod 2 and Mk 31 Mod 7 (Main Battery Fire Control System)	30 Jun 34	R 9th Rev	
2457	Description of Gun Directors Mk 31 Mods 3, 4, 5 and 6 (Secondary Battery Fire Control System)	30 Jun 33	R 3rd rev	
2458	Description of Parallax Range Adjuster Mk 6 (Main Battery Fire Control System)	22 Jan 34	R 2nd rev	
2461	Description of Gun Directors Mk 30 Mod 8 and Mk 31 Mod 9 (Main Battery Fire Control System)	7 Apr 45	R 2nd rev	
2462	Description of Gun Elevation Indicator Mk 20 (Main Battery Fire Control System)	Feb 1944	R 3rd rev	
2463	Fire Control Equipment—Trunnion Tilt Corrector Mk 1 Mod 1..	27 Sep 35	R	
2466	Description of Thyatron Automatic Control for 5"/25 Cal Guns (Anti-Aircraft Battery)	20 Feb 36	R 9th rev	
2467	Description of Exciter Mk 4 Mod 9 (Main Battery Fire Control System)	24 Jan 36	R 1st rev	
2468	Description of Exciter Mk 4 Mod 10 (Main Battery Fire Control System)	24 Jan 36	R 2nd rev	
2469	Description of Thyatron Automatic Control for 5"/25 Cal Guns —Anti-Aircraft Battery—USS PORTLAND (CA 33) and USS INDIANAPOLIS (CA 35)	19 Dec 40	R 6th rev	
2470	Thyatron Automatic Control for 5"/25 Cal Anti-Aircraft Guns for Naval Gun Factory	8 Dec 33	R 1st rev	
2472	Description of Main and Secondary Battery Fire Control Systems for USS NEW MEXICO (BB 40) MISSISSIPPI (BB 41) and IDAHO (BB 42)	13 Oct 36	R 1st rev	
2476	Description of Gun Train Indicator Regulator Mk 29 Mods 1 to 5 Fire Control System	3 Oct 36	R 9th rev	
2477	Description of Gun Elevation Indicator Regulator Mk 27 Mods 1 to 5 Fire Control System	13 Oct 36	R 7th rev	
2479	Description of Searchlight Train Indicator Mk 12 Anti-Aircraft Battery Fire Control System	3 Mar 36	R 8th rev	

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OD No.	Title	Date	Class	Remarks
2480	Description of Searchlight Elevation Indicator Mk 4 Anti-Aircraft Battery Fire Control System	3 Mar 36	R 7th rev	
2481	Description of Synchro Generator 5G Mk 1 Mod 2.....	24 May 39	D 5th rev	
2482	Description of Synchro Motor 5F Mk 4 Mod 2.....	18 Feb 43	R 7th rev	
2483	Description of Synchro Motor 5B Mk 5 Mod 2.....	30 Jan 43	R 7th rev	
2484	Description of Synchro Motor 5N Mk 6 Mod 2.....	19 Nov 35	R 4th rev	
2485	Description of Synchro Differential Motor 5D Mk 7 Mod 2.....	1 Feb 43	R 8th rev	
2486	Description of Synchro Generator 6G Mk 2 Mod 2.....	11 Mar 41	R 7th rev	
2487	Description of Synchro Differential Generator 6DG Mk 5 Mod 2..	11 Mar 41	R 7th rev	
2488	Description of Synchro Generator 7G Mk 3 Mod 2.....	15 May 36	R 3rd rev	
2489	Description of Synchro Differential Generator 7DG Mk 6 Mod 2..	15 May 36	R 3rd rev	
2490	Description of Synchro Generator 8G Mk 4 Mod 2.....	5 Mar 36	R 2nd rev	
2491	Description of Synchro Generator 8 DG Mk 7 Mod 2.....	Undated	R 2nd rev	
2493	Description of Gun Train Order Relay Transmitter Mk 1 Mod 1 Main Battery Fire Control System	2 May 35	R 1st rev	
2494	Description of Gun Train Order Relay Transmitter Mk 1 Description—Main Battery Fire Control System	2 May 35	R	
2495	Description of Target Designator Mk 4 Mod 4 Main Battery Fire Control System	Undated	R 3rd rev	
2497	Description of Parallax Range Adjuster Mk 6 Mod 1 Main Battery Fire Control System	18 Nov 36	R 2nd rev	
2499	Description of Magnetic Brake for Train Power Motor—Main Battery—DDs 364 to 379 incl	5 Mar 36	D 6th rev	
2500	Description of Thyatron Automatic Control for 5"/38 Cal Guns—Destroyers 348 to 355	7 Feb 38	R 4th rev	
2501	Description of Gun Directors Mk 31 Mod 10 and Mk 31 Mod 11—Main Battery Fire Control System	24 Jan 35	R	
2502	Description of Synchro Control Transformer Frame 6CT Mk 2 Mod 2	11 Mar 41	R 9th rev	
2503	Description of Synchro Control Relay 5CR Mk 1 Mod 2.....	24 Feb 38	R 6th rev	
2504	Description of Searchlight Elevation Indicator Mk 4 Mod 1—Main Battery Fire Control System	3 Mar 36	R 6th rev	
2505	Description of Searchlight Train Indicator Mk 12 Mod 1—Main Battery Fire Control System	3 Mar 36	R 6th rev	
2506	Description of Magnetic Brake for Elevation Power Motor—Main Battery DDs 364-379	5 Mar 36	R 5th rev	
2511	Description of Gun Train Indicator Mk 31 Main Battery Fire Control System	2 Apr 37	R 5th rev	
2512	Description of Gun Elevation Indicator Mk 29 Main Battery Fire Control System	2 Apr 37	R 4th rev	
2513	General Description of Main Battery and Auxiliary Main Battery Fire Control System <i>USS NEW ORLEANS</i> (CA 33), <i>ASTORIA</i> (CA 34), and <i>MINNEAPOLIS</i> (CA 36)	14 Apr 36	R 2nd rev	
2514	Description of Train Power Motor—Main Battery DDs 364 to 379 incl	5 Mar 36	D 4th rev	
2515	Description of Elevation Power Motor—Main Battery DDs 364 to 379	5 Mar 36	D 5th rev	
2516	Description of Synchro Generator 7SG Mk 8 Mod 2.....	23 Mar 36	R 2nd rev	
2518	Description of Train Power Motor—Anti-Aircraft Battery.....	5 Mar 36	D 1st rev	
2519	Description of Elevation Power Motor—Anti-Aircraft Battery....	5 Mar 36	D 1st rev	
2520	Description of Magnetic Brake for Train Power Motor—Anti-Aircraft—CLs 40 to 43 incl and CA 44	5 Mar 36	D 1st rev	
2521	Description of Magnetic Brake for Elevation Power Motor—Anti-Aircraft Battery—CLs 40 to 43 and CA 44	5 Mar 36	D 1st rev	
2522	Description of Battle Order Indicator Mk 25—Main Battery Fire Control System	24 Mar 37	R 4th rev	

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OD No.	Title	Date	Class	Remarks
2523	Description of Battle Order Indicator Unit—Main Battery Fire Control System	7 Mar 36	R 2nd rev	
2525	Description of Searchlight Train Indicator Mk 12 Mod 2 Anti-Aircraft Battery Fire Control System	20 Nov 36	R 5th rev	
2526	Description of Searchlight Elevation Indicator Mk 4 Mod 2—Anti-Aircraft Battery Fire Control System	10 Nov 36	R 4th rev	
2527	Description of Synchro Exciter Assembly Mk 9, AA Battery Fire Control System DDs 364 to 379, CA 44, CLs 40 to 43	10 Nov 36	R 3rd rev	
2528	Description of Power Motor—Main Battery—CLs 40-43 and CA 44	10 Feb 38	D 1st rev	
2529	Description of Exciter Mk 4 Mod 1—Main Battery Fire Control System	30 Jun 37	R	
2530	Description of Searchlight Elevation Order Corrector Mk 1—Main Battery Fire Control System	13 Dec 37	R 1st rev	
2531	Description of Searchlight Elevation Order Corrector Mk 2 Main Battery Fire Control System CAs 37 and 38	13 Dec 37	R 1st rev	
2532	Description of Searchlight Train Order Corrector Mk 3—Main Battery Fire Control System CAs 32, 34, 36-39	13 Dec 37	R 1st rev	
2533	Description of Searchlight Elevation Order Corrector Mk 3—Main Battery Fire Control System	22 Dec 37	R 1st rev	
2534	Description of Searchlight Train Indicator Mk 12 Mod 3—Anti-Aircraft Battery Fire Control	Undated	R	
2535	Description of Searchlight Train Indicator Mk 4 Mod 3—Anti-Aircraft Battery Fire Control System	Undated	R	
2536	Description of Trunnion Tilt Corrector Mk 1 Mod 2—Main Battery Fire Control System CLs 40 to 43, 46 to 48	7 Apr 38	R 4th rev	
2539	Description of Gun Directors Mk 34 and Mk 34 Mod 1—Description with Shield Mk 5	19 Dec 39	R 15th rev	
2544	Description of Searchlight Elevation Indicator Mk 4 Mod 3—Anti-Aircraft Battery Fire Control System BBs 37, 39, 43, 45-48, CVs 2, 3 and 7, DDs 379-408	15 Feb 38	R 13th rev	
2547	Description of Gun Directors Mk 34 Mod 2 and Mk 34 Mod 3 CA 44	15 Nov 37	R 7th rev	
2554	Description of Thyatron Automatic Control for 5"/38 Cal Guns—Destroyers 364 to 379	27 Oct 41	R 6th rev	
2557	Gun Director Mk 32 and Mk 32 Mods 1, 2, 3 and 4.....	16 Nov 44	C 4th rev	
#2562	Automatic Control for Electric Hydraulic Equipment for 14" Training Gear Mk 1 and 14" Elevating Gear Mk 7 and Mk 7 and Mods 1 and 2, 16" Training Gear Mk 3 and 16" Elevating Gear Mk 6 and Mk 6 Mod 1 (Train and Elevation Receiver Regulators)	6 Aug 43	R	
2568	Antenna Control Equipment (Elevation Control) Radar Antenna Mount Mk 7 and Associated Control Units	25 Jun 42	R	
2569	Fuze Setting Indicator Regulator Mk 9 and Mk 9 Mod 1.....	10 Jan 45	R Rev A	
2571	Fire Control Equipment—Arma Synchro Control Transformer Type 5 CTB Mod 1	16 Jun 43	R Rev A	
2572	Description of Train Receiver Regulator Mk 14 and Mk 14 Mod 1	16 Jul 42	R Rev B	
2573	Range Transmitter Mk 2, Mk 3 and Mk 3 Mod 1 Including Selector Switch	29 May 44	R Rev C	
2577	Stewing Sight Mk 2 and Mk 2 Mod 1.....	19 Nov 42	R Rev A	
2579	Fuze Setting Indicator Regulator Mk 8 Mod 9—Description CVs 9-12 and 20-21, CVs 13-19, CAs 24-39, 44, CLs 40-43, 46-48, CVs 2-4	1 Jun 42	R Rev A	Superseded in part, by OP 735, 1st rev
2580	Searchlight Train Indicator Mk 14 Mod 1.....	19 Aug 41	R Rev C	
2581	Searchlight Elevation Indicator Mk 7 Mods 1 and 2.....	5 Jun 42	R Rev D	
2582	Fire Control Equipment—Stable Element Mk 1—Description....	12 Jun 35	R	

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OD No.	Title	Date	Class	Remarks
2583	Range Spot Transmitter Mk 3.....	6 Aug 40	R	
2587	Fuze Setting Indicator Regulator Mk 8 and Mod 6.....	17 Dec 40	R	
2588	Fuze Setting Indicator Regulator Mk 8 Mod 7.....	20 Jul 42	R	Rev A
2589	Sight Setters Indicator Mk 4.....	13 Jul 42	R	Rev C
2590	Fire Control Equipment—Arma Synchro Control Motors—Description	21 Jun 40	R	
2591	Battle Order Transmitter Mk 27 Mod 1.....	25 Mar 40	R	
2592	Searchlight Corrector Mk 6 and Mk 6 Mod 1.....	10 Oct 40	R	
2593	Fuze Setting Indicator Regulator Mk 8 Mod 3.....	21 Feb 40	R	
2594	Fuze Setting Indicator Regulator Mk 8 Mod 4.....	12 Mar 40	R	
2596	Searchlight Train Indicator Mk 14.....	10 Jan 40	R	
2597	Searchlight Elevation Indicator Mk 7.....	25 Jan 40	R	
2598	Fire Control Equipment, Synchro Transmission Units—Description	14 Jun 40	R	Rev A. Supersedes ODs 3440 to 3445 incl
2599	Stable Element Mk 5, Mk 6 and Mk 6 Mod 1—Arma.....	8 Oct 42	R	Rev D—Page 63, 2nd paragraph of Rev D Cancelled per OTI F6-43. Superseded by OP 1063 for Mk 6 and Mk 6 Mod 1, Current for Mk 5
2600	Gun Director Mk 41 (Stable Vertical).....	16 Sep 42	R	Rev B
2601	Battle Order Transmitter Mk 27.....	3 May 39	R	
2602	Searchlight Corrector Mk 4.....	17 May 40	R	
2603	Submarine Torpedo Fire Control System for SS 172-181.....	21 Apr 39	R	
#2604	Torpedo Data Computer Mk 1 Mods 2 and 3. Part I.....	14 Nov 38	R	
2605	Submarine Torpedo Fire Control System for SS 169-171.....	28 Jun 39	R	
2607	Fire Control Equipment—Rangekeeper Mk 10—Instruction Book..	25 Nov 35	R	Rev A
2608	Rangekeeper Mk 10—Tabulation of Principal Differences between Modifications	1 Jun 38	R	Rev G
2611	Synchronous Indicator Type H-1.....	28 Feb 33	R	
2612	Synchronous Indicator Type A-9.....	28 Feb 33	R	
2613	Synchronous Indicator Type A-10-R and A-11-R.....	28 Feb 33	R	
2614	Self-Synchronous Commutator Transmitter Types T-4, T-5, T-6, T-7	28 Feb 33	R	
2615	Synchronous Transmitter Type B-4.....	28 Feb 33	R	
2617	Instruction Book for Rangekeeper Mk 10 Mod 1.....	20 May 37	R	Rev B
2635	Instruction Book for Rangekeeper Mk 10 Mod 2.....	20 May 37	R	Rev B
2636	Instruction Book for Rangekeeper Mk 10 Mod 3 <i>USS PORTLAND and INDIANAPOLIS</i>	20 May 37	R	Rev C
2637	Instruction Book for Rangekeeper Mk 10 Mod 4 <i>USS PORTLAND and INDIANAPOLIS</i>	4 Mar 35	R	Rev A
2641	Fire Control Equipment—Rangekeeper Mk 11—Description.....	29 Oct 36	R	Rev A
2643	Instruction Book for Rangekeeper Mk 11 Mod 1 <i>CHARLESTON and ERIE</i> , PGs 50 and 51	15 Nov 36	R	
2645	Instruction Book for Rangekeeper Mk 8 Mod 5.....	18 Feb 37	R	
2647	Instruction Book for Rangekeeper Mk 7 Mod 4 <i>TUSCALOOSA and SAN FRANCISCO</i>	6 Jan 34	R	
2648	Description and Operation of Sperry Relay Converter and Transmitter for <i>USS CALIFORNIA and TENNESSEE</i>	16 Aug 33	D	
2649	Gun Director Mk 30 Mod 1 (Stable Vertical).....	24 May 34	R	
2650	Fire Control Equipment—Stable Element Mk 2 and Mk 2 Mod 3..	30 Jan 39	R	Rev B
*2651	Arma Tube Tester.....			
2652	Circuit Tester Description, Test and Maintenance.....	26 Mar 40	R	Rev A
2653	Anti-Aircraft Fire Control Instruments for <i>USS VINCENNES (CA 44)</i> —Gun Director Mk 39	22 Aug 38	R	

*Under preparation. ‡Under revision.

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OD No.	Title	Date	Class	Remarks
2654	List of Mk and Mod Numbers for Stable Instruments & Control Panels	21 Jan 38	R Rev C	
2655	Anti-Aircraft Fire Control Instrument for Fuze Setting Indicator Regulator Mk 8 DDs 400, 401, CV 7, CA 45, CLs 46-48	28 Jan 38	R	
2656	Anti-Aircraft Fire Control Instrument for Fuze Setting Indicator Regulator Mk 8 Mod 2	18 May 38	R	
2657	Torpedo Data Computer Mk 1 and Mk 1 Mods 1 to 5. Part 2....	14 Mar 40	R Rev B.	For Part I see OD 3082
2659	Sound Range Transmitter Mk 1.....	18 Jul 39	R Rev A	
2661	Fire Control Equipment—Gun Director Mk 30 Mods 2 and 3....	21 Feb 40	R Rev B	
2662	Fire Control Equipment—Stable Element Mk 2 Mods 1 and 2....	27 Aug 41	R Rev D	
2664	Stable Element Mk 3.....	7 Jan 37	R	
2665	Arma Follow-up System—Service Manual for Stable Element and Stable Vertical	16 Sep 38	R Rev C	
2666	Director Train Control (Power Drive Equipment) for Gun Director Mk 34 Mods 6 and 7	19 Jul 39	R Rev A	
2667	Transmission of Level and Cross Level to an Aloft Station from a Stabilized Element at a Remote Point	2 Dec 36	R	
2670	Instruction Book for Rangekeeper Mk 10 Mod 5 (CA 39)....	16 Mar 35	R Rev A	
2672	Instruction Book for Rangekeeper Mk 10 Mod 15 (Originally Mod 6)	16 Mar 36	R Rev B	
2674	Fire Control Equipment—Rangekeeper Mk 10 Mods 7 and 8—Description (Mods 7 and 29)	26 Feb 36	R Rev A	
2676	Instruction Book for Rangekeeper Mk 8 Mod 4 CLs 40-43, 46-48	31 Jan 39	R Rev A	
2678	Fire Control Equipment—Rangekeeper Mk 7 Mod 6—Description CLs 40-43, 46-48	29 Mar 38	R Rev A	
2680	16"/45 Cal iv 2,000 fs Ballistic Computation Diagrams.....	11 Jan 34	R	
2682	Optical Alignment—Adjustment and Testing of Gun Directors Mk 33 and Mods	3 Feb 36	R	
2685	14"/50 Cal iv 2,000 fs Ballistic Computation Diagrams.....	11 Jun 34	R	
2686	Drift Tables (iv 300 fs, iv 2,300 fs) for 6"/53 Cal Guns Mk 12 Mods 3 and 4 Common Projectile Mk 20 and Mods	17 May 34	R	
2689	Gun Elevation Indicator Mk 18—Description and Installation Instructions DDs 348-355	27 Nov 34	R	
2690	Gun Train Indicator Mk 20 and Mods 1 to 4—(Preliminary) Description and Installation Instructions	14 Mar 42	R Rev A	
2698	Rangefinders Mk 41, 42 and Mods—Report and Instructions for Testing Electrical Circuits	28 Mar 40	D Rev A	
2700	5"/25 Cal and 5"/38 Cal AA Guns—Special Tools & Directions for Assembling Breech Block in Housing	16 Nov 34	D	
2702	Instructions for Heat Treatment of Material for the 1710 Machine Gun Mechanism Mk 1	25 Aug 41	D Rev J	
2703	Installation of Gun Train Indicator Mk 20 and Mods.....	Undated	D	
2704	Test of Rheostats Mk 8 for Dimming Mazda.....	Undated	D	
2705	Results in Development of Torpedo Impulse Charges, Project G-180 Using 21" AW Torpedo Tube Mk 11 with Sodium Nitrate Powder Furnished by Accepted Bidders for Firing Tests	20 Nov 34	R	
2706	Instructions for Setting Electrical Zero Selsyn Generators, Motors, Transformers and Receiver Regulators—General Electric.....	11 Jul 33	R	
2707	Assemblies—8" Triple Mounts for Heavy Cruisers (USS NEW ORLEANS, ASTORIA and MINNEAPOLIS)—Lubrication Instructions	26 Mar 35	R	
2709	Inspecting Instruments, Primer Seat Gauges—General Description and Method for Using	15 Jan 35	D	
2727	Test Gauge Equipment for Checking Air and Liquid Gauges in Counter Recoil Systems	28 Mar 35	D	

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OD No.	Title	Date	Class	Remarks
2742	14"/45 Cal iv 2,700 fs (USS TEXAS).....	Undated	D	
2743	Firing Keys Mk 16 and Mods and Mk 17 and Mods—Description..	19 Jan 39	D	Rev B
2749	Preliminary Ordnance Weights SS 182 to 197.....	29 Apr 37	R	Rev B
2761	Descriptive Pamphlet for Hydraulic Equipment for 21" AW Torpedo Tubes Mks 14 and 15, Quintuple Tube for Destroyers Training Gear Mk 3 Mod 1	22 Jul 40	C	Rev D
2762	Descriptive Pamphlet for Hydraulic Equipment for 5" Slides Mk 21 Mods 2 and 4 (Rammers) and for 5" Loading Machines Mk 14 Mod 2	7 Mar 38	R	Rev C
2770	Electric Hydraulic Equipment for Training and Elevating Gear—8"/55 Cal Three Gun Turret (CA 45)	4 Apr 39	R	
2771	Fire Control Instruments—Data Sheets.....	1 Oct 45	R	1st rev. Available only on Bureau approval
2771A	Fire Control Instruments—Data Sheets.....	1 Oct 45	C	1st rev. Available only on Bureau approval
2772	3"/50 Cal 5"/25 Cal 5"/38 Cal and 6"/47 Cal Guns—Instructions for Assembling and Disassembling Gun Barrels and Housings (Bayonet Joint Type)	2 May 41	D	Rev G
2775	Instructions for Assembling and Using Testing Equipment—Tests of Automatic Control Apparatus—6"/47 Cal Triple Mounts and 5"/38 Cal Twin Mounts CLs 40-43, 46-48, DDs 356-363, 381 and 383	10 Feb 37	R	
2776	Notes on the Method of Manufacture and Inspection of Radially Expanded 5"/38 Gun Barrels Mk 12 Mod 1	7 Feb 36	R	
2778	5"/25 Cal Anti-Aircraft Ammunition—Withdrawing, Reforming and Reloading Tool—General Description and Operation	26 Aug 36	R	
2779	4"/50 Cal Ammunition—Withdrawing and Reloading Tool—Description and Method of Operation	25 May 36	R	
2780	Table of Distances for Locating the Origin of Bore of Service Guns 3" to 16" Inclusive, For Use in Connection with Star Gauge Report Form NOrd 54	23 Jan 46	R	Rev D
2787	Drift Tables (iv 2,700 fs, iv 2,300 fs) for 8"/55 Cal Guns with Uniform Twist Rifling of 1/25	7 Aug 36	R	
2788	Periscopic Alidade Mk 1 Mod 2—Installation and Care.....	26 Aug 36	R	
2790	Weights and Dimensions of Ammunition Components and Their Containers	Dec 1943	R	
2792	5"/25 Powder Assignments.....	24 Oct 36	R	
2811	Instructions for Manually Operating the Breech Block and Cartridge Case Extractor for 6"/47 Cal Triple Mount—Slide Mk 19 and Housings Mk 1 and Mk 1 Mod 1 Where Mounts are not Equipped with Hydraulic Units—Instructions for	30 Sep 37	R	
2813	6"/47 Cal Triple Gun Mount—Instructions for Loading Drill.....	22 Apr 37	R	
2815	U.S. Naval Gun Factory Method of Manufacturing & Inspection of 5"/38 Cal Cartridge Cases Mk 5	17 Sep 41	D	Rev B
2819	U.S. Naval Gun Factory Method of Manufacture and Inspection of 6"/47 Cal Cartridge Cases Mk 4	22 Oct 41	D	Rev B
2820	Regulations Covering Reforming and Inspection of Used Brass Cartridge Cases	6 Apr 44	D	Rev C
2821	Gun Directors Mk 33—Procedure for Reassembling, Adjusting and Checking Collimation of Gun Directors After Modification of Rangekeepers Mk 10 Mod 8 for Improvement on Dynamic Accuracy (DDs 380, 382, 384-393)	5 May 38	R	
2825	U.S. Naval Gun Factory Method of Manufacturing 17/10/75 Cal Cartridge Cases Mk 1	26 Feb 41	D	Rev A

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OD No.	Title	Date	Class	Remarks
2826	U.S. Naval Gun Factory Method of Manufacture and Inspection of 5"/25 Cal Cartridge Cases Mk 4	8 Feb 39	D	
*2827	6"/47 Cal Bore Sight Mk 36, General Description and Instruction for Bore Sighting	.....	..	
2828	8"/55 Cal Triple Mounts—Upper Powder Hoists—Electric Hydraulic Drives—Instructions for Adjustment to Produce Proper Operation (CAs 32, 34, 36-39, 44 & 45)	29 Apr 38	R	
2829	8"/55 Cal Triple Mounts—Lower Powder Hoists—Instructions for Checking the Door Interlock System and Making Proper Adjustments (CAs 32, 34, 36-39, 44 & 45)	18 May 38	R	
2831	Assemblies—5" Projectile Hoists Mk 2 (for 5"/38 Cal AA Enclosed Mounts on Destroyers 380, 382, 384 to 393)	19 Oct 42	R	Rev A
2836	Instructions for Cutting Laminated Glass.....	31 Aug 38	D	
2843	Assemblies—5" Projectiles Hoists Mk 2 Mod 1 (for 5"/38 AA Enclosed and Enclosed Type, Open Mounts) DDs 397-436, AV 5, ADs 14-15, AOs, 22-24, AVPs 10-11, AG 11, CM 5)	19 Oct 42	R	Rev C
2844	6"/47 Cal Dummy Cartridge Mk 2—Instructions for Modification	12 Dec 38	D	
2845	Report of Tests and Inspection—Gun Director Mount Mk 1 Mod 1 Control Equipment	12 Apr 39	R	
2846	Instructions for Balancing Oscillating Parts of Enclosed Mounts and Turrets	3 Mar 39	D	
2847	Methods of Drying and Charging Optical Instruments.....	8 Feb 44	D	Rev G
2851	Report of Tests and Inspection of Gun Director Mk 38, Automatic Control Equipment	7 Jun 39	R	
2853	Dynamometer—Tests of Hydraulic Variable Speed Gear—Waterbury Size 10 Type C Elevating Gear for CL 49 and CL 50	22 Mar 39	D	
2854	Gauges—(Cork Plugs Mk 2 for 5"/38 and 6"/47 Cal Cartridge Cases)—General Description and Instruction for Use	22 Mar 39	D	
2860	U.S. Naval Gun Factory Method of Manufacture and Inspection of 5"/51 Cal Cartridge Cases Mk 3	20 Jun 39	D	
2861	5" Sight Mk 35 for 5"/38 Twin AA Mount Mk 29 (CLs 49-50)—Description	26 May 39	R	
2862	Assemblies—5" Projectile Hoist Mk 3 and Mk 3 Mod 1 for 5"/38 Twin AA Enclosed Mounts on Cruisers 49 and 50 Description	19 Nov 42	R	Rev A
2873	Interval Timers (To Replace Mk 11 Clock on Bombing Trainer)	Undated	D	
2878	List of Telescopes, Sights and Mounts for 3-Pdr, 6-Pdr, 3"/23, 3"/50, 4"/50, 5"/38, 5"/50, 5"/51, 6"/50 and 6"/53 Guns, Telescopes for Torpedo Tube Sights Mk 1, Mk 1 Mod 1, Mk 2 and Torpedo Directors Mk 25, Mk 25 Mod 1 and Mk 27 and Mods	27 Feb 42	R	Rev A
2879	Gas Ejector Tests for 16"/45 Turrets for BBs 55-60.....	21 Jun 41	R	
2886	Stable Element Mk 4—DDs 409 to 420 (General Electric Type)—Starting Up Routine	14 Dec 39	R	
2882	Shock and Endurance Tests on Synchro Motors Type 5F Mk 4..	26 Feb 40	R	Rev A
2883	21"0 AW Torpedo Tubes Mk 11 and Mk 12 and Mk 12 Mods 1, 2 and 3, Mk 13 and Mk 13 Mods 1, 2 and 3 (for DDs 348 to 420 incl and CLs 51 to 54)—Instructions for Repairing and Straightening Torpedo Tube Barrels	15 Mar 40	R	
2889	Spotting Boards Mk 7 and Mk 7 Mod 1—Description.....	30 Oct 40	R	Rev A
2890	Report of Tests on Operation of Type 5G Synchro Generator With Load of 4 Frame 05 Selsyns	18 Mar 40	R	Proposed application in Gun Director Mk 19
2892	5"/38 Cal Gun Instructions for Assembling and Disassembling Gun Barrels and Housings (Bayonet Joint Type for Assemblies 1001 and 1002)	18 Apr 40	D	
2893	Test Gauge Equipment for Checking Air and Liquid Gauges on Counter Recoil Systems (For Assemblies 1001 and 1002)	18 Apr 40	D	

*Under preparation.

OD No.	Title	Date	Class	Remarks
2895	Instructions for Modification of 3"/50 Cal Gun Mk 6 Breech End to 3" Gun Mk 20 or Mk 20 Mod 1 and 3" Breech Mechanism Mk 5 Mod 6 to 3" Breech Mechanism Mk 5 Mod 11	3 Aug 40	D	
2897	Fiber Glass Insulation—Report of Tests and Inspection on Fiber Glass Insulation	17 Jun 40	D	
2902	The Alden Type Dynamometer Applied to Testing of Power Drives for Ordnance Equipment	20 May 43	D	Rev A
2903	Report of Tests—Fuze Setting Indicator Regulator Mk 8 Mod 4..	11 Jan 41	R	Rev A
2904	Report of Tests on Use of Size 5 Synchros as Error Transmitters	30 Jan 41	R	
2905	Assemblies—.30 and .50 Cal BAM Bore Sight Mks 15 & 16—Instructions for Assembly and Adjustment	Undated	D	
2906	Report of Tests on Synchro Transmission Systems with Combinations of Synchro Types	13 Nov 40	R	
2907	Gun Director Mk 33 Mod 8—Instructions for Connecting Gun Director Mk 33 Mod 8 and Rangekeeper Mk 10 Mod 20 to Stable Element Panel Mk 3 Mod 1 and Sperry Step by Step from Gyro Compass	Undated	R	
*2909	5"/38 Cal Single Mount Ford. Waterbury General Electric Contract, Mount, Report of Tests	.....	..	
2910	Instructions for Handling Plastic, Transparent, Flame Resisting Sheet Used for Windows in Fire Control Instruments and Director Shields	21 May 41	D	Rev B
2911	Installation Instructions for Parallax Change Gears in Train Receiver Regulator Mk 7	8 Apr 41	R	
2912	Synchro Units Type 5G Mk 1 Mod 5, Type 5F Mk 4 Mod 5, Type 5B Mk 5 Mod 5, Type 5N Mk 6 Mod 5, Type 5D Mk 7 Mod 5, Type 6G Mk 2 Mod 5	2 Dec 43	R	Rev B
2913	5"/38 Cal AA Double Purpose Single and Twin Gun Mounts Instruction for Filling the Recoil and Differential Cylinders and Charging the Counter-Recoil Air Cylinder	14 Jul 44	D	Rev A
*2914	21" AW Torpedo Tubes Mk 14 and Mk 15 and Mods Instructions for Loading Torpedo Impulse Charges	.....	..	
2915	General Instructions Relating to the Socketing of Wire Rope....	25 Oct 41	D	
2918	Modification of Cross Level Receiver Regulator Mk 3 to Train Receiver Mk 14 and Mk 14 Mod 1	7 Jan 42	R	Rev A
2920	5"/38 Cal AA Twin Mounts for CLs 95 to 98 and ANs 1 to 4 Method of Installation Aboard Ship	13 Jul 44	R	Rev A
2923	Instructions for Modification of Gun Breech of 5"/25 Cal Guns Mk 10 Mod 2, Mk 11, Mk 11 Mods 2, 5 and 6 to 5" Housing Mk 5, and 5"/25 Cal Guns Mk 10 Mod 3, Mk 11 Mods 1, 3 and 7 to 5" Housing Mk 5 Mod 1 for the Bayonet Joint Type Gun Barrel	8 Feb 45	D	Rev A
2924	5"/38 Cal AA Single Gun Mounts (Base Ring Type, Open and Enclosed), 5" Slides Mk 24 Mods 2, 3, 4, 5, 6, 7, 8 Instructions for Balancing Oscillating Parts	1 Jul 42	D	
2925	5"/38 Cal AA Twin Mounts (for BBs 36-46 and 48, CBs 1-6, CAs 68-75, CLs 55-58, 60, 62-67, 79-83, 86-87, 89-94, 99-102)—Method of Installation Aboard Ship	13 Jul 44	R	Rev A
2926	5"/38 Cal AA Twin Mounts (for BBs 61 to 66 incl)—Method of Installation Aboard Ship	13 Jul 44	R	Rev A
2928	5"/38 Cal AA Twin Gun Mounts (Base Ring Type)—5" Slide Mk 27 and Mods 1 to 9—Instructions for Balancing the Oscillating Parts	8 Aug 42	D	
2929	20-mm AA Assemblies—Cross Index to OE Drawing Numbers..	15 Apr 43	D	Rev B
2931	5"/38 Cal AA Single Gun Mounts (Pedestal Type, Open)—5" Slides Mk 21 Mod 8—Instructions for Balancing Oscillating Parts	8 Aug 42	D	

*Under preparation.

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OD No.	Title	Date	Class	Remarks
2932	Heat Treatment of Mechanical Time Fuze Parts.....	2 Sep 42	D	
2933	Glass Cutting Instructions.....	6 Jul 42	D	
*2934	5"/38 Cal AA Single Gun Mount (Pedestal Type Open) 5" Slides Mk 21 Mod 8 Instructions for Balancing Oscillating Parts	.....	..	
*2935	5"/38 Cal AA Single Gun Mounts (Pedestal Type) 5" Slide Mk 21 Mods 11 and 12 Instructions for Balancing Oscillating Parts	.....	..	
2936	5"/50 Cal AA Gun Mounts Mk 20 Mods—Using 3"/50 Cal Guns Mk 20 and Mk 20 Mods 1 and 2—Instructions for Regunning With a 3"/50 Cal Gun Mk 21, Mk 21 Mod 2, Mk 22, Mk 22 Mods 1, 2, or 3	6 Jul 43	R	
2937	Submarine Torpedo Tube Barrel Centerline Gauge—Description and Instructions	Undated	D	
2938	Installation Instructions for 5" Shields Mk 38 and Mk 38 Mod 1 on 5"/38 Cal AA Single Gun Mounts Mk 30 and Mods	25 Sep 44	D	Rev C
2941	5"/38 Cal Single and Twin AA Gun Mounts—Instructions for Installing Trunnion Bearings	18 Sep 43	R	
2942	Heaters for Use with Window Wiper Attachments for Telescopes Mks 61, 62, 67 and 68 on 5"/38 Cal AA Gun Mounts—Instruc- tions for Installing	30 Nov 42	D	With Change 1 dated 26 Dec 45
*2943	Investigation of Enclosed Worm Gear Drive Lubricants.....	.....	..	
*2944	5"/38 Cal AA Single and Twin Gun Mounts.....	.....	..	
2945	Location of 8" and 5" Guns, Directors and 36" Searchlights (Par- allax Data) CAs 122 to 129 incl 137, 138	26 May 44	D	Rev C
2946	Tabulation and Identification of Shields and Partial Shields for Use with 5"/38 Cal AA Mounts Mk 30 and Mods (Open and Enclosed Type)	24 Nov 43	D	Rev A
2947	5" Shield Mk 31 Mod 1, Barbette Water Seals and External Type Training Stop Buffers for 5" Mount Mk 32 Mods 3 & 4— Installation Instructions	16 Oct 44	D	Rev B (Includes Mods 8, 11 and 12)
2948	Location of 5" Guns, Directors and 36" Searchlights (Parallax Data) CV 4 USS RANGER	1 Feb 43	D	
2949	Location of 6" & 5" Guns, Directors and 36" Searchlights (Par- allax Data) CLs 106 to 111, 116 to 118	12 Jan 45	D	Rev B
2950	CVBs 41 to 44 Incl—Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	22 Jul 43	D	Rev A
2951	Location of 5" Guns, Directors and 36" Searchlight Parallax Data (Preliminary)	5 Feb 43	D	
2953	Collimators (for Optical Instruments)—Description and Operation	5 May 43	D	
2954	8"/55 Cal Guns and Breech Mechanisms—Instructions for Conver- sion of 8"/55 Cal Guns Mk 12 Mod 1 to Mk 12 Mod 2 and Mk 15 to Mk 15 Mod 1—By Means of Adapter Sleeves and 8" Breech Mechanisms Mk 9 Mods 4 and 8 to Mk 9 Mod 9	20 Apr 43	D	
2955	Salt Spray Test Equipment—Description of Operation.....	5 Jun 43	D	
*2956	Lead Gaskets for Optical Instruments—Manufacture and As- sembly	.....	..	
2957	Report of Tests on Solenoid Mk 14—120 Volt—60 Cycle.....	17 Jul 43	D	
3000	Lubrication of Ordnance Material.....	1 Dec 43	D	Rev A. With Change 1 dated 2 Jun 45, superseding OCLs G18-43, G42-43, G45- 43; Change 2 dated 19 Sep 45 superseding OCLs G21- 43, X21-44; Change 3 dated 1 Nov 45 superseding OTI G8-44
3001	USS MINNEAPOLIS—5" AA Mounts Mk 19 Mod 6—Method of Installing Cable Leads Through Base of Mount	Undated	D	

*Under preparation.

NUMERICAL LISTING—NAVORD ODs

OD No.	Title	Date	Class	Remarks
3002	USS TUSCALOOSA—Main and AA Fire Control Equipment (CA 37)—Checking and Adjustments Instructions	25 Jul 34	R	
3003	DD 335, Ordnance Installation, Checking and Adjustment—Description	1 Apr 35	R	For design and research use only, not for distribution
3005	Report of Ordnance Installations Tests—USS TERROR (CM 5)	17 Nov 43	R	For design and research use only. Not for distribution
3006	USS BUTLER (DD 636)—Report of Ordnance Installation Tests	Undated	R	Do
3007	USS GHERARDI (DD 637)—Report of Ordnance Installation Tests	Undated	R	Do
3008	USS NEW JERSEY (BB 62)—Report of Main Battery Ordnance Installation Tests 16"/50 Cal Triple Turret Assemblies	2 Dec 43	R	Do
3009	USS NEW JERSEY (BB 62)—Report of Secondary Battery Ordnance Installation Tests 5"/38 Cal AA Twin Mounts	2 Dec 43	R	Do
3010	USS NEW JERSEY (BB 62)—Report of Secondary Battery Ordnance Installation 40-mm Mounts	2 Dec 43	R	Do
3012	Fire Control Equipment—Rangekeeper Mk 7 Mod 7—Description	12 Sep 35	R	Rev B
3013	Design Specification for Rangefinder Stabilizer Mk 2.....	23 Dec 42	R	
3015	Instruction Book for Rangekeeper Mk 7 Mod 4.....	26 Feb 36	R	
3019	AA Fire Control Instruments for USS YORKTOWN, ENTERPRISE, WICHITA, PHOENIX, BOISE, HONOLULU, INDIANAPOLIS—Searchlight Train Indicator Mk 13	11 May 36	R	
3020	AA Fire Control Instruments for USS YORKTOWN, ENTERPRISE, WICHITA, PHOENIX, BOISE, HONOLULU, INDIANAPOLIS—Searchlight Elevation Indicator Mk 5 and Mk 5 Mod 1	22 Oct 36	C	Rev A
3024	Description of Synchro Motor 5F Mk 4 Mod 1.....	2 Feb 37	R	Rev A
3025	Description of Synchro Motor 5N Mk 6 Mod 1.....	14 Apr 37	R	Rev A
3026	Description of Synchro Generator 5G Mk 1 Mod 1.....	14 Apr 37	R	Rev A
3027	Description of Synchro Motor 5B Mk 5 Mod 1.....	14 Mar 37	R	Rev A
3028	Description of Synchro Overload Relay 2M3 Mk 1 Mod 1.....	14 Apr 37	R	Rev A
3029	Description of Synchro Generator 7G Mk 3 Mod 1.....	14 Apr 37	R	Rev A
3030	Description of Synchro Differential Motor 5D Mk 7 Mod 1.....	14 Apr 37	R	Rev A
3031	Description of Synchro Differential Generator 6DG Mk 5 Mod 1..	14 Apr 37	R	Rev A
3032	Description of Synchro Differential Generator 7DG Mk 6 Mod 1..	14 Apr 37	R	Rev A
3033	Description of Synchro Generator 6G Mk 2 Mod 1.....	14 Apr 37	R	Rev A
3034	Description of Synchro Exciters Mks 5, 7, 8, and 10.....	14 Apr 37	R	Rev A
3035	Description of Synchro Generator 8G Mk 4 Mod 1.....	14 Apr 37	R	Rev A
3041	Design Specifications for Electric Hydraulic Drive Equipment for 6"/47 Cal 3 Gun Turret Training Gear	23 Dec 42	R	Rev A
3043	Description of Ford Hydraulic Amplifier as Used in Train Receiver Regulator Mk 2 and Elevation Receiver Regulator Mk 2	13 Apr 36	R	Rev A
3044	Description of Ford Hydraulic Amplifier as Used in Train Receiver Regulator Mk 3 and Elevation Receiver Regulator Mk 3	9 Apr 36	R	
3045	Rangekeepers Mk 8—Tabulation of Principal Differences Between Mods	16 Apr 40	R	Rev B
3046	Rangekeepers Mk 7—Tabulation of Principal Differences between Mods	5 Dec 35	R	
3049	Instruction Book for Train Receiver Regulator Mk 2, Elevation Receiver Regulator Mk 2 and Supplementary Equipment	24 Mar 39	R	Rev B
3050	Instruction Book for Train Receiver Regulator Mk 3—Elevation Receiver Regulator Mk 3 and Supplementary Equipment	1 Mar 39	R	Rev B
3054	Rangefinder Stabilizer Mk 2 Mod 1 and Rangefinder Stand Mk 33 Mods 12 and 14—Instruction Book	7 Feb 38	R	
3082	Torpedo Data Computer Mk 1 Mods 4 and 5, Part 1, for SS 182 to 197	1 Mar 39	R	For Part 2 see OD 2657

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OD No.	Title	Date	Class	Remarks
3090	Torpedo Data Computer Mk 1 and Mk 1 Mod 1. Part 1.....	8 Jan 40	R	1st rev
3092	Range Keepers Mk 11 and Mk 11 Mod 1, Tabulation of Principal Differences Between Mods	8 Nov 37	R	
3094	Fire Control Equipment, Train Designation and Level Relay Transmitters Mk 1 and Mk 1 Mod 1, Mk 2 and Mk 3, Gun Order Relay Transmitters Mk 1 and 2, Description	30 Nov 37	D	
3103	Instruction Book for Range Keeper Mk 10 Mods 9, 10, 12, 13, 31, 33, 36	12 Jan 39	R	Rev A. With Change 1 dated 27 Nov 43
3104	Instruction Book for Range Keeper Mk 10 Mod 11.....	10 Sep 40	R	Rev A
3105	Instruction Book for Dummy Director and Error Recorder.....	23 Jun 38	R	
3106	Instruction Book for Range Keeper Mk 10 Mod 14.....	9 Feb 39	R	Rev A
3107	Range Keeper Mk 10 Mods 5, 7, and 9 to 15 incl. Analysis of Errors in Adjustment	18 Feb 37	R	Rev A
3108	Fire Control Equipment (Ford) Lubrication.....	12 Jun 44	D	Rev C
3111	Range Keeper Mk 10 Mods 0 and 4 incl. Analysis of Errors in Adjustment	18 Feb 37	R	
3112	Range Keeper Mk 11 and Mk 11 Mod 1, Analysis of Errors Due to Incorrect Adjustment	13 Apr 37	R	
3113	Range Keepers Mk 8 and Mk 8 Mods 1 to 5, Analysis of Errors Due to Incorrect Adjustment	21 Apr 37	R	Used instead of OD 3144
3114	Instruction Book for Range Keeper Mk 7 Mod 8.....	17 Aug 38	R	
3115	Instruction Book for Range Keeper Mk 7 Mod 9.....	7 Nov 38	R	
3119	Instruction Book for Range Keeper Mk 8 Mod 6.....	16 Jun 39	R	
3120	Instruction Book for Range Keeper Mk 8 Mod 7.....	20 Jun 39	R	
3126	Train Hydraulic Power Equipment for 6"/47 Cal Turret Guns...	Undated	R	
3127	Elevating Hydraulic Power Equipment for 6"/47 Cal Turret Guns	Undated	R	
3129	Instruction Book for Range Keeper Mk 8 Mod 8.....	30 Nov 39	R	Used with OD 5134
3131	Instruction Book for Range Keeper Mk 8 Mod 9.....	2 Dec 41	R	Rev A. Used with OD 5140
3133	Instruction Book for Computer Mk 1 and Change of Range Receiver Mk 1 DDs 409 to 428	12 Jan 40	R	Rev A. Issued with OTI F1-43. Chapter 3 is superseded by OD 4185
3135	Instruction Book for Electric Hydraulic Drive Equipment for Training Gear Mk 5 and Elevating Gear Mk 5 on 5"/38 Cal Twin Gun Mounts Mk 28, Mk 28 Mod 1 and Mk 32	15 Jun 42	R	Rev B
3137	Instruction Book for Computer Mk 1 Mod 1 and Change of Range Receiver Mk 1, BBs 55-57, CLs 51-54	22 Apr 40	R	Issued with OTI F1-43. Chapter 3 superseded by OD 4185
3139	Instruction Book for Computer Mk 1 Mod 2 and Change of Range Receiver Mk 1	9 Oct 40	R	Issued with OTI F1-43. Chapter 3 superseded by OD 4185
3140	Nomenclature for Computer Mk 1 Mods 1 and 2.....	10 Jul 39	R	Rev B
3141	Main Battery BBs 55 to 62, incl. Range Keepers Mk 8 Mod 9, Computer Mk 3 and Mk 3 Mod 1, Trunnion Tilt Corrector Mk 5	Undated	R	
3143	Instruction Book for Dummy Director Mk 1 Mod 1, and Error Recorder Mk 1 Mod 1, Dummy Director Mk 1 Mod 2, and Error Recorder Mk 1 Mod 2	17 Feb 41	R	Rev E
3146	Instruction Book for Torpedo Data Computer Mk 2.....	30 Jun 41	R	
3147	Defense Against Dive Bombers Using Gun Directors Mk 19, Mk 28, Mk 33, and Mk 37	14 Sep 39	R	Rev A
3150	Range Keeper Mk 1 Mods 17 and 18 (formerly Mods 12 and 13) Installation Instructions and Test Sheets, Material for Changing Ballistics, Range Keeper Mk 1 Mods 17 and 18	26 Aug 40	R	Rev A
3156	Instruction Book for Time of Flight Clock Mk 2 (Preliminary)...	1 Dec 43	R	
3158	Instructions for Installation of Electric Hydraulic Drive Equipment for Elevating Gears of 5"/38 Cal Twin Mounts Mk 28	Undated	R	

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OD No.	Title	Date	Class	Remarks
3159	Instructions for Installation of Electric Hydraulic Drive Equipment for Training Gear for 5"/38 Twin Mounts Mk 28	Undated	R	
3161	Design Specifications for Director Control Mechanism for Mk 33 Directors	23 Dec 42	R	
3165	Design Specifications for Range Keeper Mk 10 Mods 18 and 19..	23 Dec 42	R	
3169	Instruction Book for Director Hydraulic Control Mechanism Mk 1 for Gun Director Mk 33 and Range Keeper Mk 10	7 Jul 43	R	Rev B
3170	Instruction Book for Range Spot Transmitter Mk 2.....	12 May 41	R	
3171	Instruction Book for Battle Order Transmitter Mk 29.....	12 May 41	R	
3172	Instruction Book for Searchlight Corrector Mk 5.....	12 May 41	R	
3175	Instruction Book for Computer Mk 3 Mod 0 and Trunnion Tilt Corrector Mk 5 and Computer Mk 3 Mod 1	12 Mar 42	R	Rev A
3176	Ford Instrument Company Fire Control Equipment, Exercising When in Storage (<i>Preliminary</i>)	Undated	R	Rev A. Incomplete, for advance information only
3178	Instruction Book for Range Keeper Mk 8 Mods 14 and 19.....	29 Apr 42	C	Rev A. Used with OD 5138
3180	Instruction Book for Computer Mk 1 Mods 3 and 10. Change of Range Receiver Mk 1, BBs 58-60, CV 3	6 Feb 43	R	Rev A. Chapter 3 superseded by OD 4185. Issued with OTI F1-43
3181	Instruction Book for Computer Mk 1 Mod 4 (Serial Nos. Lower than 101) Star Shell Computer Mk 1, Change of Range Receiver Mk 1	10 Mar 42	R	Issued with OTI F1-43, Chapter 3 superseded by OD 4185. Applies to CLs 55 and 56 only
3183	Instruction Book for Computer Mk 1 Mod 6 (Serial Nos. Lower than 101). Star Shell Computer Mk 1 Change of Range Receiver Mk 1	10 Mar 42	R	Issued with OTI F1-43, Chapter 3 superseded by OD 4185. Applies to DDs 449-458 and 468 only
3184	Instruction Book for Computer Mk 1 Mod 4 (Serial Nos. Higher than 100) Star Shell Computer Mk 1, Change of Range Receiver Mk 1	10 Jan 45	R	Rev A
3185	Instruction Book for Computer Mk 1 Mod 6 (Serial Nos. Higher than 100) Star Shell Computer Mk 1, Change of Range Receiver Mk 1 (<i>Preliminary</i>)	3 Sep 43	R	
3186	Spot Transmitter Mk 1, Instruction Book.....	7 Jan 42	R	With Change I dated 22 Jun 45
3188	Instruction Book for Electric Hydraulic Control Equipment for Train and Elevating Gear Mk 3 Mod 1 on 5"/38 Cal Twin Mounts Mk 29, CLs 49 and 50	29 Apr 42	R	
3189	Instruction Book for Electric Hydraulic Control and Drive Equipment for Training Gear Mk 10 and Elevating Gear Mk 10 on 5"/38 Cal Twin Gun Mount Mk 32	15 Jun 42	R	Rev A
3190	Instruction Book for Searchlight Trunnion Tilt Corrector Mk 1..	1 Jan 42	R	
3191	Instruction Book for Star Shell Spot Transmitter Mk 1.....	7 Jan 42	R	
3197	Description of Gyro Angle Indicator Mk 4 Mod 1. Torpedo Battery, SS 182 to 187 incl	18 Jan 38	R	5th rev
3199	Description of Tube Gyro Indicator Mk 1 Mods 2 and 3, SS 182 to 197 incl	18 Jan 38	R	5th rev
3200	Description of Synchro Exciter Assembly Mk 12, Torpedo Battery SS 182 to 193 incl	2 Feb 38	R	6th rev
3202	Searchlight Train Indicator Mk 12 Mod 4, AA Battery Fire Control for BBs 35, 43, 45, CVs 2, 3, 7, CLs 49, 50, DDs 397 to 408, and Spares	25 Feb 38	R	5th rev
3203	Description of Battle Order Indicator Mk 25 Mod 1, Main Battery Fire Control System DDs 394, 395, 396	Undated	R	2nd rev
3204	Description of Gun Elevation Indicator Mk 24 Mod 1, Main Battery Fire Control System, DD 394, 395, 396 and CL 50	11 Mar 38	R	4th rev

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OD No.	Title	Date	Class	Remarks
3205	Description of Thyatron Automatic Control for 5"/25 Cal Guns CLs 40 to 43 and CA 44	5 Dec 44	C	6th rev
3206	Description of Train Designation and Level Relay Transmitter Mk 4	Undated	R	5th rev
3207	Description of Gun Order Relay Transmitter Mk 3.....	Undated	R	5th rev
3208	Description of Gun Train Indicator Mk 34 Mods 5 and 6 CLs 49 and 50	19 Jun 41	R	5th rev
3209	Description of Magnetic Brake for Power Motor Automatic Director Training Control (CA 45)	30 Jun 38	D	3rd rev
3210	Description of Power Motor Automatic Director Training Control (CA 45)	6 Jan 41	R	5th rev
3211	Description of Gun Train Order Relay Transmitter Mk 2 CLs 49 and 50	Undated	R	
3212	Description of Latitude Motor DDs 409 to 420.....	Undated	D	
3213	Description of Synchro Control Transformer, 5CT Mk 3 Mod 2..	6 Mar 45	R	7th rev
3214	Description of Special Differential Generator (75 DG).....	Undated	R	1st rev
3215	Description of Gun Directors Mk 34 Mods 4 and 5 Including Shield Mk 1 (CA 45)	Undated	R	3rd rev
3216	Description of Battle Order Transmitter Mk 26 (DDs 409 to 420)	20 Mar 40	R	7th rev
3218	Description of Searchlight Corrector Mk 3 (DDs 409 to 420)....	1 Apr 40	R	9th rev
3219	Description of Power Motor Director Shield Mk 5—Automatic Train Control CLs 40 to 43 and 46 to 48	21 Aug 41	D	2nd rev
3220	Description of Gun Directors Mk 34 Mods 6 and 7 Including Shield Mk 1 (CLs 49-50)	18 Jan 40	R	3rd rev
3222	Main Battery Turret Firing Stop Mechanism Mk 1 and Mk 1 Mod 1	4 Mar 44	D	
3224	5"/38 Twin Mounts, Roof Hatch Cover, Instructions for Filling Roof Hatch Cover	Undated	D	
3301	Electric-Hydraulic Equipment for 5" Slides Mk 25 (Rammer) and for 5" Loading Machines Mk 13	16 Apr 37	R	Rev A
*3306	Electric Hydraulic Drive for 8" Powder Hoist.....	.....	..	
*3307	Electric Hydraulic Equipment for 8"/55 Cal Rammer Mk 17 and Mk 17 Mod 1 for CA 45	.....	..	
3309	Test Requirements for 6"/47 Cal Mount Mk 18, 2,000 Ton Gun Boats (PGs 50 and 51)—Operation of Mount with Vickers Hydraulic Drive	Undated	R	
3310	Electric Hydraulic Equipment for 5" Slides Mk 22 Mods 2 and 3—(Rammers) and for 5" Loading Machines Mk 12 Mods 2 and 3	16 Apr 37	R	Rev A
3323	Electric Power and Control Equipment for 5"/25 Cal Mount Mk 27 Mod 2 Training and Elevating Gears	8 Jul 38	R	
3324	Description of Elastically Supported Rangefinder Stands Mk 33 Mod 12	Undated	D	
3326	AA Safety Data 5"/38, 5"/25 and 3"/50 Guns.....	1 Nov 41	R	Rev A. Will be superseded by OP 1462
3329	21" AW Torpedo Tubes Mk 12 Mod 2 and Mk 13 Mod 2 (Quadruple Tubes for DDs 380 to 420)—Method of Testing the Equipment after Installation Aboard Ship	23 Jan 40	R	Rev B
3330	Gun Directors Mk 33 Mods 5 to 10 incl (DDs 364-379, 380, 382, 384-393, 397-408, CVs 5-7, CLs 40-43, 46-50, CAs 44 and 45) Acceptance Tests of Electric Hydraulic Drive Type A Mod 2 After Installation Aboard Ship	24 May 37	R	
3334	4"/50 Cal Ballistic Computation Diagrams.....	23 Jun 37	R	
3338	Results of Firing Tests of 21" AW Torpedo Tube with Mk 8 Mod 3D Dummy Torpedo and Sodium Nitrate Powder	21 Jun 37	R	

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OD No.	Title	Date	Class	Remarks
3340	6"/47 Cal Turret Assemblies for CLs 40 to 43 and 46 to 50— Method of Testing the Equipment After Installation Aboard Ship	15 Sep 37	R	
*3346	Elevating and Training Gear Drives Mk 2 for 5"/38 Cal Mount Mk 22	.....	..	
3348	5" Powder and Projectile Hoists Mk 4 and Mods—Electric Hy- draulic Equipment—Description of Circuits and Units with In- struction for Adjustment, Operation and Repairs for 5" Powder & Projectile Mk 4 and Mods—Electric Hydraulic Equipment	29 Mar 43	R	Rev A
3349	Preliminary Ordnance Weights for BBs 55 and 56.....	20 Nov 39	R	Rev B
3351	Electric Hydraulic Equipment for 8" Auxiliary Projectile Hoist Mk 6 and Mk 6 Mods 1 and 2	8 Oct 37	R	
3352	5" Anti-Aircraft Mounts (for DDs 380, 382, 384 to 393, 397 to 420, CV 7, CA 45)—Method of Testing After Installation Aboard Ship	14 Mar 40	R	Rev C
3354	Instruction Book Data for Electric Hydraulic Equipment for Gun Director Mk 33 Mod 8	12 May 38	R	
3358	Hydraulic Power Equipment for Training and Elevating Gears for 16"/45 Three Gun Turrets (BBs 55 and 56)	21 Jul 41	R	
3361	Description of Circuits and Units with Instruction for Adjustment, Operation and Repair for 5" Projectile Hoist Mk 1 and Mk 1 Mods 1 to 7 incl 5" Powder Hoist Mk 1 and Mk 1 Mods 1 to 7 incl (38 Cal Twin Mount)—Electric Hydraulic Drive	1 Jun 38	R	
3363	Train, Elevation and Cross Level Power Drive Equipment for Gun Director Mounts Mk 1 and Mk 1 Mod 1	31 Jul 40	R	Rev A
3365	Test of Hydraulic Variable Speed Gear Size 10.....	14 Jan 38	R	
3366	Description of Circuits and Units with Instructions for Adjust- ment, Operation and Repair for Gun Director Mk 35—Director Hydraulic Equipment	20 Jul 38	R	Rev A
3368	Non-Firing Type Tests of Elevating and Training Gear Electric Hydraulic Drives and Control (Ford-Waterbury)—5"/38 Cal Mounts Mk 25 and Mk 30 DD 380 Class	10 Aug 38	R	
3370	Director Control Mechanisms for Gun Directors Mk 37 and Mk 37 Mod 1 for DDs 409 to 428	1 Aug 41	R	Rev C
3374	6"/47 Cal Triple Rammer, Breech Block and Extractor—Electric Hydraulic Drive (Vickers) Non-Firing Type Tests of Electric Hydraulic Drive	24 May 38	R	
3379	Test of Gyro Setting Mechanisms for SS 170 to 175.....	9 Oct 39	C	
3383	Report of Tests and Inspection—Synchro Differential Generator Mk 6 Mod 3 (Size 7DG)	15 Jul 38	R	
3384	Electric Hydraulic Equipment—Data Pamphlet for 6" Carriage Mk 17—Training Gear, Elevating Gear	24 Jan 39	R	Rev A
3385	Report of Tests—5X Synchro Motors (Experimental).....	5 Aug 39	R	
3388	Test of Hydraulic Variable Speed Gear Size 7030 "A"—7130 "B" (Constant Velocity Joints)	12 Sep 38	D	
3389	Rammer Test of Hydraulic Variable Speed Gear (Northern Pump Co) Size 7030 "A" and 7130 "B"	12 Sep 38	R	
3390	Rammer Test of Hydraulic Variable Speed Gear Waterbury Tool Co Size 10-C	12 Oct 38	D	
3391	Rammer Test of Hydraulic Variable Speed Gear Vickers, Inc N-142-B, Serial No 2	22 Nov 38	D	
3394	Report of Tests on 5"/25 Mount Mk 27—Control Equipment.....	10 Oct 38	R	
3395	Fly Wheel Test Results of Hydraulic Variable Speed Gear Northern Pump Co Size 7030 "A" and 7130 "B"	29 Nov 38	D	

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OD No.	Title	Date	Class	Remarks
3396	Fly Wheel Tests of Hydraulic Variable Speed Gear Waterbury Tool Co Size 10-C Reg No 3976	21 Dec 38	D	
3397	Fly Wheel Test of Hydraulic Variable Speed Gear—Vickers Inc N-142-B Serial No. 2	22 Mar 39	D	
*3398	Capacities of Gas Ejectors Systems.....	.....	..	
3401	Test of Pump with Uni-Directional Flow.....	15 Nov 38	D	
3405	Description of Circuits and Units with Instructions for Adjustment, Operation and Repair—5" Powder Hoist Mk 1 and Mk 1 Mods 1 to 6 incl 5" Projectile Hoist Mk 1 and Mk 1 Mods 1 to 7 incl	9 Jan 39	R	
3406	Report of Tests and Inspection—6DG Synchro Differential Generator Mk 5 Mod 3, 5 CT Synchro Control Transformer Mk 1 Mod 3	23 Jan 39	R	
3407	Report of Test of Dynamic Braking on a 5"/38 Cal Mount Mk 21 Mod 19	9 Mar 39	D	
3411	Gun Director Collimator Mk 4 (Shop Use)—For Gun Director Mk 37 and Modifications—Direction and Operation	9 Mar 39	R	
3412	Synchro Motor Mk 8—Type 1F—Report of Tests and Inspections	3 Mar 42	R	Rev B
3414	Electric Hydraulic Equipment for 5" Projectile Hoist Mk 4 Mods 4, 5, 8 and 9 for 5" Mounts Mk 28 and Mods on CLs 51 to 54	11 Feb 44	..	Rev A
3415	Report of Tests—Change of Range Receiver Mk 1 Gun Director Mk 37	12 May 39	R	
3418	Rammer Test of Hydraulic Variable Speed Gear Size 10-K Spare Unit for CA 45 Elevating Gear	6 Jun 39	R	
3433	Hydraulic Power Equipment for Training Gear for 16"/50 Cal Three-Gun Turrets (BBs 61-66 incl)	5 Apr 44	R	
3434	Description of Circuits and Unit with Instructions for Installation, Adjustment, Operation and Repair for 16" Powder Hoist Mk 9 and Mk 9 Mods 1 to 8—Electric Hydraulic Equipment BBs 61-71	12 Mar 43	R	
3437	Electric Hydraulic Equipment for 16" Rammer Mk 5 and Mk 5 Mods 1 and 2, 16"/50 Caliber Three Gun Turrets	17 Dec 43	R	
3439	Arma Synchro Motor Type 1F Mk 8—Description and Specifications	Undated	R	
3447	Standard Fire Control and Torpedo Control Symbols (For Use in the Study and Preparation of Ordnance Data and Ordnance Pamphlets)	30 Aug 39	R	
3448	Fire Control Equipment (Except Optical Material)—Instructions for Furnishing of Spare Parts	13 Oct 44	R	Rev B
3451	Description of Circuit and Units with Instructions for Installation, Adjustment, Operation and Repair for Electric Hydraulic Drive for 16" Projectile Ring Mk 2 (16"/50 Cal 3 Gun Turrets)	30 Oct 41	R	
3461	Description of Synchro Control Motor Type 5SB Mod 2.....	4 May 43	D	5th rev
3463	Control Tests with 8" Training Gear Drive—Conducted at Naval Gun Factory	26 Mar 42	D	
3464	Hydraulic Power Equipment for Training and Elevating Gears —5"/38 Cal Mounts Mk 29	21 Apr 41	R	
3466	Report of Tests and Inspection—5F Synchro Motors Mk 4.....	21 Apr 43	R	Rev B
3468	8" Experimental Training Gear—Electric Hydraulic Equipment—Description	15 Jan 40	R	
*3469	Electric Hydraulic Equipment for Experimental Training Gear 5" Powder and Projectile Hoists	.....	..	
3470	Installation and Maintenance Instructions for .50 Cal Gun Recoil Dampers	2 Feb 40	R	

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OD No.	Title	Date	Class	Remarks
3476	16"/45 Cal 3 Gun Turret, 16" Projectile Ring Mk 1, Electric Hydraulic Equipment—Description of Circuit and Units with Instructions for Installation, Adjustments, and Operation and Repair	Mar 1940	R	
3477	Report of Non-Firing Tests—5"/38 Cal Mount Mk 30—Elevating and Training Gear—Electric Hydraulic Drives	12 Feb 41	R	Rev A
*3479	16" Projectile Hoist, Mk 8, Mk 8 Mods 1 and 2 BBs 61 and 62 Three Gun Turrets	.....	..	
*3480	5"/38 Cal Single Rammers and Loading Machines Electric Hydraulic Equipment	.....	..	
3481	Description of Circuits and Units with Instructions for Installation, Adjustment, Operation and Repair of 6" Projectile Hoist, Mk 4 and Mk 4 Mods 1 and 2; 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 Cal Triple Turret)—Electric Hydraulic Drives	7 Apr 43	R	
3482	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 6" Housings Mk 1 Mods 2 & 3; 6" Rammers Mk 1 Mods 2 & 3 Electric Hydraulic Equipment	23 Sep 42	R	Rev A
3486	Manufacture and Installation of the Firing Stop Mechanism Cam Plate, also Synchronizing of the Firing Stop Mechanism for Electric Percussion Firing for 5"/38 Cal. AA Gun Mounts Mk 28, Mk 28 Mod 1, Mk 29, Mk 31 and Mk 32	8 Sep 43	D	Rev B. With Change 1 dated 27 Aug 45, Change 2 dated 30 Oct 45
3487	Routine Upkeep of Fire Control Instruments in Store.....	15 Jan 40	D	
3488	General Information Relating to the Fabrication of Grommets for Anti-Torpedo Nets	17 Jun 41	R	Rev A
3491	Description and Operation of Synchro Test Panel Mk 1 and Mk 1 Mod 1	19 May 41	R	
3492	5" Projectile Hoist Mk 2 Mod 1 (for 5"/38 Cal AA Enclosed and Enclosed Type Open Mounts) on DDs 397-444, AVs 4 and 5, ADs 14 and 15, AOs 22-24, AVPs 10-13, AS 11, CM 5, AR 5—Synchronization of Hydraulic Motor and Control Unit with Hoist and Adjustment of Control Gear	6 Mar 40	R	
3498	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 5" Projectile Hoist Mk 4 Mods 10 and 11 and 5" Powder Hoist Mk 4 Mods 10 and 11 Electric Hydraulic Equipment	2 Oct 42	R	
*3499	Electric Hydraulic Equipment for Rammers for 5"/38 Cal Mounts Mk 32 for CLs 55 and 56, BBs 61 and 62	.....	..	
3500	Test of Electric Hydraulic Drive for 16" Rammers (BBs 55 and 56)	1 Mar 40	R	
3503	Test of Electric Hydraulic Drive for 16" Projectile Ring.....	12 Mar 40	R	Rev B
*3504	Description of Elevating and Training Gears for 5" Mounts Mk 21 Mods 3 and 4	.....	..	
3508	Description of Elevation Receiver Regulator Mk 10 and Mk 14 for Elevation Electric-Hydraulic Control 16" 3-Gun Turrets	Undated	R	
3509	Description of Train Receiver-Regulators Mk 15 and Mk 18 for Train Electric-Hydraulic Control—16" 3 Gun Turrets	11 Jul 44	R	2nd rev
*3510	Description of Elevation Receiver Regulator for 16" Turrets BBs 57 to 60	.....	..	
*3511	Description of Training Receiver Regulator 16" Turrets BBs 57 to 60	.....	..	
*3512	16" Elevation Receiver Regulator BBs 61-66.....		..	
*3513	16" Train Receiver Regulator BBs 61 to 66.....		..	

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OD No.	Title	Date	Class	Remarks
*3515	Description of the 1"10 Mount Mk 2 Mod 7 Electric Hydraulic Equipment (Drive) for Elevating and Training Gears and Traverse Drive		..	
*3516	Description of Elevation Indicator Regulator Mk 2 Mod 2 and 1"10 Mount Mk 2 Mod 1	.....	..	
3518	Torpedo Angle Solver Mk 8—Operating Instructions.....	28 Aug 41	R	
3529	Assemblies—5" Ammunition Hoists for 5"/38 Cal Twin Double Purpose Enclosed Mounts on BBs 55 and 56—Description	19 Oct 42	R	Rev B
3532	21"0 AW Torpedo Tube Mk 14, 15 & Mods—Method of Manufacture and Assembly	26 Feb 43	R	Rev E
3533	Requirements for Acceptance Tests for 21"0 AW Torpedo Tubes Mk 14 and Mk 15 and Mods	20 May 42	R	Rev E
*3534	Description of Automatic Control Equipment for 1"10 Mount Mk 1 Mod 4	.....	..	
*3535	1"10 Machine Gun, Secondary Battery Target Designation System BBs 55 to 60	.....	..	
*3536	Train Test of 8" WICHITA Turret Arma Regulator, Waterbury Speed Gear	.....	..	
3537	Report of Tests and Inspection—Gun Director Mk 37 Mod 4 Director Control Mechanism	22 Jul 40	R	
3538	5"/38 Cal Single AA Gun Mounts Mk 24 and Mods (Pedestal Type); Mk 30 and Mods (Base Ring Type)—Elevating and Training Gears with General Electric Co, or Ford Instrument Co, Power Equipment. Slides with Northern Pump Co (Northern Ordnance Inc), Ramsers. Projectile Hoist with Vickers, Inc Power Equipment—Method of Testing After Installation Aboard Ship	13 Sep 43	R	Rev C
3539	Report of Tests on Gyro Setting Mechanism Motor.....	4 Sep 40	R	Rev A
*3541	Train Test on 8" WICHITA Turret General Electric Regulator, Waterbury Speed Gear	.....	..	
*3545	8"/55 Projectile Hoist Drives CAs 68 to 75.....	.....	..	
3546	Electric Hydraulic Equipment for 8" Powder Hoist Mk 30 and Mk 30 Mods 1 to 8 (Lower Powder Hoist for 8"/55 Cal 3 Gun Turrets) for CAs 68-75 incl	20 Jul 43	D	
*3547	8"/55 Upper Powder Hoist Drives.....	.....	..	
3550	16"/45 Cal 3 Gun Turrets—Training and Elevating Gear—Hydraulic Power Equipment (BBs 57-60)	1 May 41	R	
3551	21"0 AW Torpedo Tubes Mk 14 and 15 and Mods Method of Testing the Equipment After Installation Aboard Ship	29 Aug 40	R	
3552	Gun Directors Mk 33 Mods 11 and 12—Training Gear Electric Hydraulic Drive (Type A-3)—Instructions for Installation, Adjustment, Operation and Repair for Electric Hydraulic Equipment for Gun Directors Mk 33 Mods 11 and 12	5 May 41	R	
3554	Report Based on Quantitative Vibration of the Rangefinder in Turret 4 and of the Turret Structures of USS SAVANNAH	Undated	R	
3561	Instructions for Changing Depth Setting of Pistol of Bomb Fuze Mk 24 and Mods (Hydrostatic)	4 Sep 42	R	Rev G
3562	Optical Equipment—Telescope Mk 48 and 49—Description and Care	6 Sep 40	R	For submarine Wet Mounts
*3563	Train Test of 8"/55 Cal 3 Gun Turret with Ford Receiver Regulator and Waterbury Speed Gear	.....	..	
3564	Collimator Sight, Accuracy Tests with Binocular Vision Using the Mk 1	13 Sep 40	R	
*3565	Repair and Upkeep of Synchro Motors Mk 8		..	

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OD No.	Title	Date	Class	Remarks
3566	5"/38 Cal AA Twin Mounts (For CLs 51 to 54 incl and BBs 55 to 60 incl)—Method of Testing after Installation Aboard Ship	26 Sep 42	R	Rev D
3567	Report of Tests on Four Type SF Synchro Motors.....	16 Aug 40	R	
3570	5"/38 Cal AA Twin Mounts for CLs 51 to 54 incl and BBs 55 to 60 incl—Method of Installation Aboard Ship	13 Jul 44	R	Rev B
3571	Report of Tests of Automatic Control 5"/38 Caliber Twin Mount Mk 28	8 Feb 44	R	Rev C
3583	Assemblies—5" Ammunition Hoists (For 5"/38 Cal Twin Double Purpose Enclosed Mounts on BBs 57 to 60 incl and CLs 51 to 54 incl)—Description	20 Mar 42	R	
3590	16" Projectile Hoist Mk 7 Mod 2—Instructions for Testing.....	1 Oct 40	R	
3591	16" Powder Hoist Mk 8 Mod 17—Instructions for Testing.....	1 Oct 40	R	
3594	Modernization of Electric Cables in Bureau of Ordnance Installations	8 Jan 42	D	
3595	5" Powder Hoist Mk 4 and Mods 5" Projectile Hoists Mk 4 and Mods 5"/38 Cal Twin DP Enclosed Mounts—Installation Instructions	15 Oct 40	R	
3604	Description of Rangefinder Stand Mk 33 Mod 23.....	10 Mar 41	R	
3607	Test of Northern Electric-Hydraulic Drive for 16" Training Gear—BBs 55 and 56	18 Feb 42	R	Rev A
3609	Test of Waterbury Electric Hydraulic Drive for 16" Training Gear—BBs 57 to 60	13 May 41	R	
3618	Instructions for the Treatment of Porous Castings (Phosphor Bronze) that Fail to Pass the Hydrostatic Pressure Test Specified on Drawings	29 Mar 45	D	Rev C
3625	Instructions for Use of Angle Firing Diagram for Torpedo Mk 10 Mod 3	25 Aug 41	R	
3627	Electric Hydraulic Equipment for 21" AW Torpedo Tube Training Gear Mk 6 and Mk 6 Mod 1—Instructions for Operation and Maintenance	31 Aug 42	R	
3628	Report of Tests of Automatic Control—5"/38 Cal Single Mount Mk 30 Mod 8	13 Nov 41	R	
3632	Report of Tests on Oils with a Regulator and Electro-Hydraulic Drive at Low Temperatures	13 Jun 41	R	Rev A
3633	16"/45 Cal Triple Turret Assemblies for BBs 55 to 60—Method of Testing the Equipment after Installation Aboard Ship	29 Aug 41	R	Rev A
3634	Electric-Hydraulic Equipment for 16" Powder Hoist Mk 8 and Mk 8 Mods 1 to 17—Instructions for Installation, Adjustments, Operation and Repair	1 Jul 41	R	
3635	Description of Circuit and Units with Instructions for Installation, Adjustments, Operation and Repair for Electric Hydraulic Equipment for 5" Projectile Hoist Mk 2 Mod 1 (5"/38 Cal Mount Mk 30)	29 Mar 43	R	Rev B
3637	Interval Timer Mk 1 Mod 2 (110V—60 Cycle Motor) and Interval Timer Mk 1 Mod 3 (110 V—25 Cycle Motor)—For Use with Bombing Trainers, Description, Operation and Maintenance	13 Jun 41	R	
3638	5"/38 Cal Twin Mount Mk 28 Mod 1 (CLs 51 to 54)—Report of Investigation of Lighting Requirements	24 Apr 41	R	
3639	5" Mount Mk 28 Mod 1, 5" Shield Mk 29 and Barbette Water Seals for CLs 51-54 incl—Installation Instructions	14 Oct 44	D	Rev C
3640	5" Mount Mk 28 and Mk 28 Mod 2, 5" Shield Mk 28 and Mk 28 Mod 1, and Barbette Water Seals for BBs 55-60, Installation Instructions	14 Oct 44	D	Rev B. Supersedes OD 3621
3641	Report of Radio Interference Test.....	12 Jun 41	R	

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3645	Fuze Setter Mk 10—Description and Operation.....	30 Jun 41	R	
3646	1710 Machine Gun Mechanism Mk 1 Mods 1 and 2—Instructions for Heat Treatment for Parts Manufactured from Chrome Molybdenum Steel and Carburizing Steel	4 Oct 43	D	Rev B
3652	Test of 16" Powder Hoist Mk 8 Mod 17 (BBs 55 to 60).....	13 Jun 41	R	
3653	Test of 16" Projectile Hoist Mk 7 Mod 2 (BBs 55 to 60).....	13 Jun 41	R	
3654	Test of Lubricating Oils for Use in Synchro Units.....	30 Aug 43	R	Rev A
*3655	Electric Hydraulic Equipment for 6" Slide Mk 20 and Mk 20 Mod 1 and 6" Housing Mk 3 and Mk 3 Mod 1 for 6"/47 Cal 2 Gun Turrets DP	.....	..	
*3656	Electric Hydraulic Equipment for 6" Slide Mk 20 Mods 2 and 3, 6" Housing Mk 3 Mods 2 and 3, 6"/47 Cal 2 Gun Turrets, DP	.....	..	
3657	Aircraft Telescope Sight Mk 3 Mod 4—Instructions for Replacement of Inclinator	19 Jun 41	D	Supersedes OD 2832
3658	Telescopes Mk 67 and Mk 68 for 5"/38 Cal AA Twin Gun Mounts Mk 28, Mk 28 Mod 1, Mk 31, Mk 31 Mod 1, Mk 32 and Mk 32 Mods 1 and 2 for BBs 36 to 46, 48 and 55 to 66, CBs 1 to 6, CVs 9 to 24, CLs 51 to 58, 60, 62 to 67, 77 to 83, 85 to 87, 89 to 102; CAs 68 to 75, ANs 1 to 4—Installation Instructions	27 Feb 42	R	
3659	Report of Tests and Inspection—Synchro Differential Motor Type 5D Mk 7 Mod 5	18 May 42	R	Rev B
*3660	Mechanical AA Computer Mk 7.....	.....	..	
3661	Test of 6" Cork Plug Assembled in Cartridge Case.....	2 Sep 41	D	
3662	Report of Low Temperature Tests—5"/38 Cal Single Mount Mk 30 Elevating and Training Gear—Electric Hydraulic Drives	18 Nov 44	R	Rev B
3671	Reports of Tests and Inspection—Synchro Differential Generator Type 1DG Mk 1 Mod 1	8 Jan 42	R	Rev A
3672	Report of Tests and Inspection Synchro Control Transformers Type 1CT Mod 2	16 Oct 42	R	Rev A
3674	Report of Tests—Gun Director Mk 33 Mods 11 and 12 with Ford Automatic Elevating and Training Hydraulic Control Mechanism	6 Aug 41	R	
3676	8" Range Table 2,425 faiv.....	26 Dec 41	R	
3677	Report of Tests and Inspection—Synchro Generators Type 6G Mk 2 Mod 2A	15 Aug 41	R	
3678	Report of Tests and Inspection—Synchro Differential Generator Type 6DG Mk 5 Mod 2A	9 Aug 41	R	
3679	Report of Tests and Inspection—Synchro Control Transformer Type 6CT Mk 2 Mod 2A	21 Aug 41	R	
3681	Test of Swing Joints for Conveying Fluid Pressure.....	11 Sep 41	D	
3682	Report of Shock Tests on Fire Control Equipment.....	13 Aug 41	R	
3684	Shock Test of Synchro Transmission Units—Report of Examination After Tests	25 Aug 41	R	
3685	Report of Tests and Inspection—Synchro Differential Generators —Type 6DG Mk 5 Mod 5	16 Oct 42	R	Rev B
3686	Report of Tests and Inspection—Synchro Generators Type 6G Mk 2 Mod 5	30 Jun 42	R	Rev B
3687	Report of Tests on Proposed Mine Laying Timing Device.....	12 Sep 41	D	
3693	Report of Low Temperature Test—5"/38 Cal Single Mount Mk 30 Mod 9—Elevating and Training Gears—Electric Hydraulic Drives	4 Oct 43	R	Rev B
3696	Test of Brake Bands and Drums of Various Materials in Automatic Gas Brake—Quintuple Torpedo Tubes	15 Oct 41	R	
3698	Tactical Data for Torpedo Mk 10 Mod 3.....	5 Feb 42	R	

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OD No.	Title	Date	Class	Remarks
3699	Tactical Data for Torpedoes Mk 14 and Mk 14 Mod 1 (High Power, Low Power)	4 Dec 41	R	Issued with OCL T17-44 and Change 1 dated 9 Jul 45
3700	Tactical Data for Torpedo Mk 15—High Power, Intermediate Power and Low Power for Submarine Firing	18 Mar 42	R	
3701	16" Training Gear Regulator—Firing and Non-Firing Tests (USS NORTH CAROLINA—BB55)	12 Sep 41	R	
3702	Report of Tests and Inspection—Synchro Differential Generators Type 5DG Mk 4 Mod 2	8 Apr 42	R	Rev A
3703	Portable Bomb Hoist Mk 6—Description, Operation and Maintenance	16 Feb 42	R	
3704	Collimator Sight (Reflecting) Mk 2 Description.....	28 Apr 42	R	
3706	5" Range Table 2,200 fsiv.....	27 Nov 41	R	
3707	5" Range Table 3,050 fsiv.....	27 Nov 41	R	
3708	6" Range Table, 2,200 fsiv.....	27 Nov 41	R	
3714	Fuze Setter Mk 10 Mod 1—Description and Operation.....	2 Mar 43	R	Rev B
3721	5"/38 Cal AA Single Gun Mounts Mk 30 Mods 12, 13, 16-19, 25, 28 and 32, 5" Shield Mk 25, Mk 25 Mods 1-5—Installation Instructions	25 Sep 44	D	Rev B
3723	Type Non-Firing Tests of Electric Hydraulic Drives—6"/47 Cal (Triple) Rammer, Breech Block and Extractor	2 Dec 41	R	
3725	6" Range Table 2,425 fsiv.....	6 Dec 41	R	
3727	6" Range Table 1,975 fsiv.....	6 Dec 41	R	
3729	8" Range Table 1,925 fsiv.....	26 Dec 41	R	
3730	Principle of Operation and Instruction Book for Signal Roughness Recorder	12 May 43	R	Rev A
3731	Mirror Tilting Device (For BS).....	6 Nov 41	R	With Change 1 dated 9 Jul 45
3732	Preliminary Ordnance Weights for Fuel Oil Barges (YOs 65-79—5,000 bbl)	28 Nov 41	R	
3735	Report of Test to Determine Whether a Size 6G Synchro Generator Can Operate a 6DG Synchro Differential Generator without a Synchro Capacitor	21 Oct 42	R	Rev A
3739	5" Slide Mk 19—Modification for Installation of 5" Gun Mk 13	7 Jan 42	R	
3743	Report of Tests and Inspection—Synchro Generator 1-G Mk 5 Mod 2, Synchro Motor 1-F Mk 8 Mod 2	29 Dec 41	R	
3744	Synchro Capacitor Mk 3 Mod-3 Type 9C—Report of Tests and Inspection	3 Jan 42	R	
3746	21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4, 5, 8 and 9, Mk 15, Mods 1, 2, 3, 4, 5, 8 and 9—Method of Testing the Equipment after Installation Aboard Ship (For Electric Hydraulic Equipment Mk 6, Mk 6 Mod 1, Mk 7 and Mk 7 Mod 1)	6 Dec 44	R	Rev C
3747	Electric Hydraulic Equipment for 5" Rammers—Summary of Routine Tests	31 Dec 41	R	
3748	Report of Tests on Vapor Overload Relays.....	19 Jan 42	R	
3750	Report of Tests and Inspection—Synchro Generators Type 5G Mk 1 Mod 4	7 Jan 42	R	
3752	Tests at Naval Gun Factory of 5"/38 Cal Elevating Gear Power Drive (For CLs 49 and 50)	16 Jan 42	R	
3754	Report of Tests and Inspection—Synchro Generator Type 1G Mk 5 Mod 5	31 Mar 42	R	Rev A
3759	Test of Waterbury Electric Hydraulic Drives for 16" Elevating Gear (BBs 57 to 60)	21 Jan 42	R	
3762	Type K-2 Intervalometer (Control, Bomb Release)—Operation and Service Instructions	23 Apr 43	R	1st rev. Issued only on Bureau approval
3763	Type RS-2 Rack Selector—Operation and Service Instructions..	23 Apr 43	R	1st rev. Issued only on Bureau approval

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OD No.	Title	Date	Class	Remarks
3764	N-2 Bomb Shackle Release—Operation and Service Instructions	23 Apr 43	R	Issued only on Bureau approval
3765	Auxiliary Switch Box Types NX-2 and NX-2A—Operation and Service Instructions	10 Aug 43	R	Issued only on Bureau approval
3766	Rangefinders Mk 58 and Mk 58 Mod 1—Conversion Mechanism..	Undated	R	
3770	5" Shield Mk 31 and Barbette Water Seals for 5" Mount Mk 32 and Mk 32 Mods 2 and 6 Installation Instructions	16 Oct 44	R	Rev D
3773	5" Shield Mk 30 and Barbette Water Seals for 5" Mount Mk 28 and Mk 28 Mod 2 for BBs 61 to 66 incl. Installation Instructions	12 Oct 44	D	Rev B
3776	Spotting Glasses Mk 10 and Mk 10 Mod 1—Instructions for Operation	21 Feb 42	R	
3777	5" Shields Mk 33 and 36 and Barbette Water Seals for 5" Mount Mk 32 and Mk 32 Mods 2 and 6 Installation Instructions	16 Oct 44	R	Rev C
3779	5" Shield Mk 34 and Barbette Water Seals for 5" Mount Mk 32 Mods 1 and 7 Installation Instructions	16 Oct 44	R	Rev C
3780	Report of Accelerated Life Test on 5"/38 Cal Elevation Indicator Regulator and Electric Hydraulic Drive BBs 55 and 56	4 Sep 43	R	
3782	40-mm Anti-Aircraft Gun Mount Mk 1 (Twin)—Description and Operation (<i>Preliminary</i>)	15 Mar 42	R	With Addenda D. Will be superseded by OP 821
3783	Ordnance Data—Range Transmitter Mk 1.....	28 Apr 42	R	
3784	Weights of Gun Barrel Forgings (for New Construction).....	7 Feb 45	R	Rev B
3790	5"/38 Cal AA Twin Mounts for BBs 36-46, 48 and 61-66, CBs 1-2, CVs 9-21, CAs 68-75, ANs 1-4, CLs 55-58, 60, 62-67, 79-83, 89-98, 101-102, DDs 692-791, 805-808, DD 356 Class (Replacements) Method of Testing after Installation Aboard Ship	26 Oct 44	R	Rev B
3798	Preliminary Ordnance Weights for <i>Auxiliary Aircraft Carriers</i> (ACVs 31-54)	17 Nov 42	R	Superseded by OD 4626 as to ACV 31, now CVE 31-54
3802	Description of Tide Meter.....	Undated	R	
3805	Mk 14 Torpedo Mk 15 Torpedo Mk 15 Mod 1 Torpedo—Shop Tests	14 Dec 40	R	Rev B
3806	Torpedo Mk 15 Torpedo Mk 15 Mod 1—Range Tests.....	12 Jun 40	R	Rev A
3808	Mk 14 Mod 1 Torpedo—Range Tests.....	23 Mar 43	R	Rev A
3811	Mk 14 Mod 1 Torpedoes—Shop Tests.....	23 Mar 43	R	Rev A
3815	Specifications for Torpedo Mk 13 Mods 1 to 10.....	8 Jun 45	R	Rev L. Supersedes ODs 3801 and 3807 and AX200. Paragraphs 204 and 204.10 superseded by OD 6275. Paragraph 208 superseded by OD 6276
3823	Torpedoes—War Head Characteristics.....	18 Oct 45	R	Rev D
3824	Torpedoes—Exercise Head Characteristics.....	17 Oct 45	R	Rev D
3825	Starting Gears Mk 13 Type Torpedoes—Instructions for Changing Design of Connection Lever Catch and for Fitting New Toggles	15 Sep 42	R	
3826	Mk 15 Modification Torpedoes—Instructions for Deep Running Adjustments	Nov 1942	R	
3827	Mk 14 Mod 3 Torpedoes, Mk 14 Mod 3A Torpedoes—Specifications	8 Apr 43	R	Rev H. Paragraphs 425.30 and 426.80 superseded by OD 6276
3828	Mk 15 Mod 1 Torpedoes—Specifications.....	14 Jun 43	R	Rev I. Paragraphs 425.30 and 426.80 superseded by OD 6276
3832	Description of and Instructions for the Use of Mk 30 Mod 2 Exercise Head	31 Jan 44	R	Rev A

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OD No.	Title	Date	Class	Remarks
3837	Use of Solutions or Suspensions in Torpedo Exercise Heads to Obtain Warhead Weight Specifications	10 Aug 43	R	
3839	Adjustment and Tests, Mk 8 3C and 3D Torpedoes.....	Undated	R	
3840	Instructions for Changing Sprays and Reducing Valve Plugs in Mk 15 Modification Torpedoes When Used with a 50% Alcohol and Water Mixture in the Water Compartment	Oct 1943	R	
3843	Adjustments and Tests for Mk 15 Mods 1 and 2 Torpedoes.....	14 Mar 44	R	Rev A. Issued with OTI T8-44
3849	Description and Instructions for Use of the Leak Meter.....	14 Mar 44	R	
3850	Description of Synchro Differential Generator 7G Mk 3 Mod 2A..	2 Oct 41	R	2nd rev
3851	Description of Synchro Differential Generator 7DG Mk 6 Mod 2A	2 Oct 41	R	2nd rev
3852	Description of Synchro Generator 8G Mk 4 Mod 2A.....	6 May 43	R	4th rev
*3853	Synchro Differential Generator (8DG).....	.....	..	
3854	Description of Synchro Motor 1-F Mk 8 Mod 2.....	31 Jan 40	R	1st rev
3855	Description of Rangefinder Stabilizer Mk 3 Mod 1 and Elastic Supports for Rangefinder Stands Mk 33 Mod 17	17 May 40	R	5th rev
3856	Description of Rangefinder Stabilizer Mk 2 and Elastic Supports for Rangefinder Stands Mk 33 Mods 18 and 19	10 Jun 40	R	4th rev
3857	Preliminary Description of Rangefinder Stabilizer Mk 3 and Elastic Support for Rangefinder Stands Mk 33 Mods 15 & 16	7 Jun 40	R	4th rev
3859	Description of Battle Order Transmitter Mk 31 (AD-14, AV-4, AS-11, AO-24 and AVPs 10 to 13 incl)	31 Mar 44	R	9th rev
3860	Description of Train Regulator Mk 8 for 8" Training Gear Mk 18	28 Mar 40	R	
3861	Dynamic Accuracy Tests on Synchro Units and Synchro Systems of General Electric Co Manufacture	6 Oct 43	D	2nd rev
3862	Description of Stable Element Mk 4 and Stable Element Control Panel Mk 6 (DDs 409 to 420)	31 Jan 40	R	2nd rev
3863	Description of Rangefinder Stabilizer Mk 3 Mod 5 for Gun Directors Mk 34 and Mk 34 Mod 1 (Shield Mk 5) for CLs 40 to 43, 46-48)	12 Jul 40	R	4th rev
3864	Description of Searchlight Elevation Indicator Mk 4 Mod 5 for Anti-Aircraft Battery Fire Control System for BBs 40-42, 61-64, CVs 9-12, AV 7, AS 12, AVPs 21 & 22, CAs 68-71, DDs 666-808	1 Dec 42	R	7th rev
3865	Description of Searchlight Train Indicator Mk 12 Mod 6 for AA Battery Fire Control System for BBs 40-42, 61-64, CVs 9-12, AV 7, AS 12, AVPs 21 & 22, CA 68-71, DDs 666-808	2 Dec 43	R	7th rev
3866	Description of Range Receiver Mk 1 (BBs 55 to 60).....	19 Apr 40	R	1st rev
3867	Description of Director Control Mechanism for Gun Directors Mk 38 and Mk 38 Mods 1 to 5	7 Nov 42	R	5th rev
3868	Description of Rangefinder Stabilizer Mk 3 Mod 5 for Gun Directors Mk 34 and Mk 34 Mod 1 (Shield Mk 5) for CLs 40-43, 46-48	15 Mar 42	R	5th rev
3869	Description of Gun Director Mk 43 (Stable Vertical and Stable Vertical Control Panel Mk 9) BBs 57-60	17 Mar 43	D	3rd rev
3870	Description of Synchro Control Transformer Mk 8 Mod 2 (5CTB)	24 Feb 45	D	4th rev
3871	Description of Gun Elevation Indicator Regulator Mk 39-AA Battery Fire Control System (CVs 2 and 3)	9 Oct 41	R	4th rev
3872	Description of Gun Train Indicator Regulator Mk 43-AA Battery Fire Control System (CVs 2 and 3)	9 Oct 41	R	3rd rev
3874	Description of Gun Elevation Indicator Mk 20 Mod 1 Main Battery Fire Control System (BBs 43 and 44)	6 Oct 42	D	2nd rev
3875	Description of Gun Train Indicator Mk 17 Mod 1—Main Battery Fire Control System (BBs 43, 44, and 48)	27 Mar 42	R	5th rev

*Under preparation.

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OD No.	Title	Date	Class	Remarks
3876	Description of Magnetic Brake for Elevating Gear Electric Motor, 5" Mount Mk 19 Mod 13 CVs 2 and 3	9 Jan 41	D	1st rev
3877	Description of Synchro Generator 1G Mark 5 Mod 2.....	1 Nov 43	D	5th rev
3878	Description of Synchro Motor 1B Mark 1 Mod 2.....	1 Nov 43	D	4th rev
3879	Description of Synchro Motor 1F Mark 8 Mod 2A.....	1 Nov 43	D	4th rev
3880	Description of Synchro Control Transformer Frame 6CT Mk 2 Mod 2A	14 Apr 42	R	1st rev
3881	Description of Aircraft Machine Gun Sight.....	10 Dec 40	D	
3882	Description of Magnetic Brake for Training Gear Electric Motor, 5" Mount Mk 19 Mod 13 CVs 2 and 3	9 Jun 41	D	2nd rev
3883	Description of Synchro Control Transformer Type 1CT Mod 2...	8 Nov 43	D	9th rev
3884	Description of Synchro Control Transformer Type 1CTB Mod 2	1 Nov 43	D	8th rev
3885	Description of Gun Directors Mk 24 Mods 2 and 3 (CAs 26-31)—Gun Director Mk 24 Mods 4 and 5 (<i>Ordnance Ship No 1</i>)	4 Dec 41	R	6th rev
3886	Description of Searchlight Control Transmitter Mk 1, Mk 1 Mod 1 and Synchro Exciter Assembly Mk 14 and Mk 27, Fire Control System	3 Aug 45	R	13th rev
3887	Description of Synchro Generator 6G Mk 2 Mod 2A.....	16 May 43	R	5th rev
3888	Description of Synchro Differential Generators 6DG Mk 5 Mod 2A	6 May 43	D	3rd rev
3890	Description of Synchro Differential Generator 5DG Mk 4 Mod 2	24 Aug 45	D	3rd rev
3892	Instructions for Conversion of Gun Directors Mk 24 Mods 0 and 1 to Mk 24 Mods 2 and 3 (CAs 26-31)	13 Apr 42	R	4th rev
3893	Description of Gun Train Indicator Regulator Mk 39 Mods 0 and 16 to 19, Elevation Indicator Regulator Mk 36 Mods 0, 1, 2, 3 and 4 Electric Hydraulic Training and Elevating Equipment for 5"/38 Cal Mounts Mk 24	19 Nov 41	R	
3894	Description of Synchro Generator Mk 3 Mod 2B (7G Flange Mounted)	6 May 43	D	2nd rev
3895	Description of Synchro Differential Generator Mk 6 Mod 2B (7DG Flange Mounted)	6 May 43	D	3rd rev
3898	Description of Synchro Generator Mk 8 Mod 2B (7SG Flange Mounted)	2 Jun 43	R	3rd rev
3900	Description of Gun Directors Mk 34 Mods 8, 9, 10, 11, 16, 17, 18 and 19	27 Sep 44	R	5th rev
3903	Description of Synchro Generator Type 6SG Mod 2A (Flange Mounted)	Undated	R	
3905	Description of Rangefinder Stabilizer Mk 3 Mod 6 and Elastic Supports for Gun Directors Mk 34 Mods 4, 5, 6 & 7 (Shield Mk 1) for CA 45, CLs 49 & 50 and for Gun Directors Mk 34 Mods 8, 9, 10, 11, 14, 15; 16, 17 & 18 (Shield Mk 7) for CLs 55-58 incl 60, 62-67 incl 80-83 incl 86, 87, 89-94 incl 103-111 incl CAs 68-75 incl BBs 43, 44 & 48	22 Nov 43	R	5th rev
3907	Description of Rangefinder Stabilizer Mk 3 Mod 7 for Rangefinder Stands Mk 33 Mods 11 & 13 and Elastic Supports for CA 45, CLs 49 & 50 and Rangefinder Stands Mk 33 Mods 23 & 24 for CLs 55-58 incl 60, 62-67 incl 80-83 incl 86, 87, 89-94 incl 103-111 incl CAs 68-75 incl	22 Nov 43	R	4th rev
3908	Description of Rangefinder Stabilizer Mk 3 Mod 8 for Gun Directors Mk 38 (any Mod) Shield Mk—for BBs 55 to 66, CBs 1 and 2	25 Sep 43	R	2nd rev
3909	Descriptions of Modifications Gun Directors Mk 34 Mods 8 and up	15 Mar 45	R	1st rev
3910	Description of Gun Train Indicator Mk 12 Mod 3, Main Battery Fire Control System CA 27	2 Jun 43	R	1st rev
3911	Description of Synchro Control Transformer Type 5 SCT Mod 2	1 Sep 43	D	1st rev

NUMERICAL LISTING—NAVORD ODs

OD No.	Title	Date	Class	Remarks
3912	Director Control Mechanism for Gun Director Mk 37 Instructions for Care in Storage	Undated	D	
3913	Description of Searchlight Control Transmitter Mk 2 for Fire Control System for ADs 16 to 19, ANs 1 to 4, AOs 24-26, ARs 6-7, ARH 1, ASs 15-19, AVs 7, 11-13, AVPs 33-57, CMs 6-7	1943	R	
3914	Description of Battle Order Transmitter Mk 31 Mod 1 for Fire Control System for ADs 16-19, ANs 1-4, AOs 24, 26, ARs 6-7, ARH-1, ASs 15-19, AVs 7, 11-13, AVPs 33-57 CMs 6-7	22 Mar 44	D	4th rev
3915	Description of Gun Elevation Indicator Mk 20 Mod 3—Main Battery Fire Control System Spare Turrets for CAs 24, 25, 26-31, 32, 37	Undated	D	
3916	Preliminary Description of Rangefinder Stabilizer Mk 4, Mk 4 Mod 1, Mk 4 Mod 2 for Main Battery Turret Rangefinders on BBs 55-60, 61-66, CBI, 2, 3	28 Dec 44	R	2nd rev
3919	Description of Rangefinder Stabilizer Mk 3 Mod 9 for Rangefinder Stands Mk 33 Mods 28, 29, & 30 for CAs 24-39 Spares	Mar 1944	R	3rd rev
3920	Description of Searchlight Control Transmitter Mark 1 Mod 4—Fire Control System for British vessels	1944	R	
3921	Description of Gun Train Indicator Mk 17 Mod 4 Main Battery Fire Control System BBs 40-46 and 48	1944	D	
3922	Description of Gun Train Indicator Mk 17 Mod 2.....	Undated	D	
3923	Description of Antenna Train Drive Mk 5 (Preliminary).....	1944	R	1st rev
3924	Illumination of Fire Control Instruments for Dark Adaptation of Personnel—Modification of Instruments Furnished by the General Electric Co to Provide for	1944	R	
3925	Description of Gun Train Indicator Mk 17 Mod 3, Main Battery Fire Control System, Spare Turrets for CAs 26-31, 32, 37 Classes	Undated	R	
3926	Description of Gun Elevation Indicator Mk 20 Mod 2.....	Undated	D	
3927	Description of Synchro Control Transformer 5CT Mark 6 Mod 2	1944	D	
3929	Description of Searchlight Control Transmitter Mk 1 Mod 3, Main and Secondary Fire Control Systems	3 Aug 45	R	3rd rev
3930	Gun Director Mark 34 Mods 8 and up: Instructions for Care in Storage	24 Jul 44	D	
3932	Instructions for the Addition of a Level Designation Transmitter to Gun Director Mk 34 Mods 0 and 1, CLs 40, 41, 42, 43, 46, 47, 48	15 May 45	D	1st rev
3933	Description of the Follow-the-Pointer Cross Level Indicator Unit to be Added to Existing Mk 34 Gun Directors Mods 0 and Up, CAs, CLs, BBs	3 Feb 45	D	
3950	Description of Circuit and Units with Instructions for Adjustment, Operation and Repair for 5" Projectile Hoist Mk 2 Mod 1 5"/38 Cal Mount Mk 30 and Mods (Electric Hydraulic Equipment)	29 Mar 43	R	Rev A
3951	Description of Circuit and Units with Instructions for Adjustment, Operation and Repair for 5" Projectile Hoist Mk 3 and Mk 3 Mod 1, 5"/38 Cal Mount Mk 29 (Electric Hydraulic Equipment)	6 Apr 39	R	Rev A
4046	CV 9—Fire Control Equipment—40-mm and 5"/38 Cal Mounts and Directors—Accuracy Tests, Checking Concentricity of Elevating and Training Racks with Elevation and Train Indicator	27 Jan 43	D	
*4049	21" Torpedo Tube Mk 7, Electric Hydraulic Training Drives DDs 445-648	.....	..	
4054	Electric Hydraulic Drive for 16" Rammers Mk 4 and Mods 1 and 2	24 Nov 40	R	

*Under preparation.

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OD No.	Title	Date	Class	Remarks
4056	Electric Hydraulic Equipment for 5" Slides Mk 24 Mods 2 and 3 and 4 (Rammers) and for 5" Loading Machines Mk 16 Mod 2	7 Oct 44	R	Rev A
4057	Electric Hydraulic Drive for 16" Rammers Mk 4 and Mods 1 and 2	1 May 41	R	
4058	Electric Hydraulic Equipment for 5"/38 Cal Twin Rammer Drives	22 Jun 44	R	
4059	Electric Hydraulic Equipment for 21" AW Torpedo Training Gear Mk 7—Instructions for Installation, Operation and Maintenance	31 Aug 42	R	
4060	Electric Hydraulic Equipment for 8" Upper Powder Hoist Mk 28 Mods 6, 7, 8, 9, 10, 11 Instructions for Operation and Maintenance For CAs 68 to 75 Incl	Undated	D	
4061	Electric Hydraulic Power Equipment for Training Gear Mark 2 Mod 1 for 6"/47 Cal Three Gun Turrets	31 Dec 42	D	
4062	Hydraulic Power Equipment for Elevating Gear Mk 2 Mod 1 for 6"/47 cal Three Gun Turrets	31 Dec 42	R	
4063	Electric Hydraulic Equipment for 16" Projectile Hoist Mk 8 and Mk 8 Mods 1 & 2 for 16" Mounts Mk 8 and Mods in BBs 61-66 Incl	13 Apr 43	D	
#4153	DD 510, 5"/38 Cal AA Mounts—Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Sep 43	R	For Design and Research use only, not for distribution
4155	DD 511—21" AW Torpedo Tubes—Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Sep 43	R	Do
#4156	DD 511—5"/38 Cal AA Gun Mounts—Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Sep 43	R	Do
4157	DD 512, 5"/38 Cal AA Mounts Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Jan 44	R	Do
#4159	USS DD 616. 5"/38 Cal AA Gun Mounts Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	D	Do
4160	USS DD 616. 21" AW Torpedo Tubes Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R	Do
#4161	USS DD 476. 5"/38 Cal AA Gun Mounts—Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R	Do
4162	USS DD476. 21" AW Torpedo Tubes—Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R	Do
4166	Instruction Book for Dummy Director Mk 1 Mod 3 and Error Recorder Mk 1 Mod 3	15 Mar 44	R	Rev A
4167	Instructions for Installation of Gun Train Receiver Regulator Mk 12 for Training Gear Mk 3 Mod 1, 5"/38 Cal Twin Mount Mk 29 Used on CL's 49 and 50	24 Oct 41	D	
4168	Instructions for Installation of Gun Elevation Receiver Regulator Mk 7 for 5" Elevating Gear Mk 3 Mod 1, 5"/38 Cal. Twin Mount Mk 29. Used on CLs 49 and 50	24 Sep 41	D	
4169	Instruction Book for Gun Train Order Relay Transmitter Mk 3..	20 May 42	R	
4170	Instructions for Installation of Parallax Zero-Reader Dials on Gun Train Indicator Regulator Mk 38 Mods 1 to 10	2 May 42	R	
4172	Instruction Book for Range Keeper Mk 8 Mod 11 (Preliminary)	2 Mar 44	R	
4173	Instruction Book for Range Keeper Mk 8 Mods 12, 13, 25 and 26	15 Feb 45	R	Rev A. Used with ODs 5147 5155 and OPs 1267 (Prel), 1488 (Prel)
4174	Instruction Book for Computer Mk 1 Mods 7 to 13 Star Shell Computer Mk 1 Change of Range Receiver Mk 1 (Preliminary)	20 Sep 44	R	Rev C. Supersedes ODs 5136 and 5137. Issued with OTI FI-43
4175	Instructions for Installation of Metering Valve Block for Gun Director Mk 33—Training and Elevating Hydraulic Control Mechanism	20 Sep 41	R	

‡Under revision.

OD No.	Title	Date	Class	Remarks
4176	Instruction for Installation of Electric Hydraulic Drive Equipment for Training Gear Mk 10 for 5"/38 Cal Twin Mounts Mk 32	12 Mar 42	D Rev A	
4177	Instructions for Installation of Electric Hydraulic Drive Equipment for Elevating Gear Mk 10 for 5"/38 Cal Twin Mounts Mk 32	10 Mar 42	R Rev A	
4178	Computer Mk 1 Mods 1 to 6—Instructions for Installation of Modified Ship Course Receiver Unit and Bearing Filter	14 Nov 41	R	For serial Nos less than 100
4179	Design Specification for Computer Mk 6 Mods 0, 1, 4, 5, 6, 8, 9, 10, 14	18 Jul 42	R	
4180	Design Specification for Computer Mk 6 Mod 3.....	18 Jul 42	R	
4181	Design Specification for Computer Mk 6 Mods 2, 7, 11, 12, 13....	18 Jul 42	R	
4182	Computer Mk 3 Mod 2—Instruction Book.....	24 Sep 43	R Rev A	
4183	Instruction Book for Computer Mk 3 Mod 3 and Computer Mk 3 Mod 4 (<i>Preliminary</i>)	4 Nov 42	R	Rev A. With Change 1 dated 11 Oct 44
4184	Instructions for Installing Time of Flight Contactors for Range Keeper Mk 7 Mods 4, 6 and 8	12 Dec 41	R	
4185	Description of Rate Control System—Computer Mk 1 Mods 0, 1, 2, 4, 5, 6, 9, and 10	14 Oct 42	R	Rev B. OD 4185 supersedes Chap III of the following ODs 3133, 3137, 3139, 3180, 3181, 3183
4186	Description of Operation, Rate Control System—Computers Mk 1 Mods 2, 3, 4, and 6 (Serial Nos 101 and Later)	7 Feb 42	R	
4188	Computer Mk 1 Mods 3, 4, or 7—Table of Corrections for 6"/47 Cal Guns Firing 105-lb HC Projectile	15 Nov 42	R	
4189	Instruction for Installation of Electric Hydraulic Drive Equipment for Training Gear Mk 9 or Mk 10 on 5"/38 Cal Twin Mounts	9 May 42	R	
4190	Instructions for Installation of Electric Hydraulic Equipment for Elevating Gear Mk 9 or Mk 10 on 5"/38 Cal Twin Mounts	23 Dec 42	R	
*4193	Summary of routine tests Electric Hydraulic Equipment for 5" Training and Elevating Gears Mk 9 and 10 for 5"/38 Mount, Twin, Train Indicator Regulator Mk 46 Elevation Indicator Regulator Mk 42	.....	D	
4194	Instructions for Installing Sight Angle Converter Tapes for Computer Mk 6 and Mods (<i>Preliminary</i>)	13 Jul 43	R Rev A	
4195	Instructions for Changing Initial Velocity for Computer Mk 6 and Mods	1 May 42	R	
4196	Summary of Routine Tests—Power Drive Equipment Mk 1 Mods 0, 1, 2—for 171 Mount Mk 2 Mod 3	18 Aug 42	R Rev A	
4197	Range Keepers Mk 8 Mods 14 and 19—Instructions for Alteration, Ship Speed Gearing, Additional Gun Elevation Transmitter—Modification Designation	27 Aug 42	D Rev A	
4198	Instructions for Converting Range Keeper Mk 7 Mod 1 to Mk 7 Mod 11	5 May 42	R	
4200	Instructions for Converting Range Keeper Mk 7 Mod 7 to Mk 7 Mod 10	15 May 42	R	
4202	Electric Hydraulic Control and Drive Gear for Training Gear Mk 18 Mod 1 and Elevating Gear Mk 19 Mods 3, 4, and 5 Instruction Book	Undated	R	
4203	Instruction Book for Computer Mk 1 Mod 2 (Serial Numbers Higher than 100) Change of Range Receiver Mk 1 (<i>Preliminary</i>)	6 Dec 43	R	Rev A. Issued with OTI F1-43
4204	Range Keeper Mk 1 Mods 17 and 18—Setting Instructions For Use with Guns Having 1/25 Twist Rifling	4 Jun 42	D	
4205	Design Specification for Range Keeper Mk 10 Mod 23B.....	Undated	R	

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OD No.	Title	Date	Class	Remarks
4206	Instruction Book for Range Keeper Mk 10 Mod 23B (Brazil)....	Undated	D	Designed for Brazilian Navy
4208	Installation Instructions for Power Drives Mk 2 Mods 0, 1, 2— on 40-mm Mount Mk 1 Mod 1	23 Jun 42	R	
4209	Computer Mk 1 Mods 3, 4, 7, 8, 11 or 12, Use for Main Battery Control, Includes Operating Instructions and Directions for Computing Tables of Corrections	9 Sep 43	R	Rev A. Issued with Change 1 dated 11 Nov 43
4210	Instruction Book for Computer Mk 6 Mods 0, 1, 4, 5, 6, 8, 9, 10 and 14 (Preliminary)	25 Feb 43	R	
4211	Instruction Book for Computer Mk 6 Mods 2, 7, 11, 12 and 13....	10 Apr 44	R	Rev A
4213	Range Keepers Mk 10 Mod 5—Instructions for Replacing Single Speed Fuze Transmitters with Double Speed Transmitters	9 Jul 42	R	
4214	Range Keeper Mk 10 Mods 7, 14 and 15—Instructions for Re- placing Single Speed Fuze Transmitter with Double Speed Transmitter	9 Jul 42	R	
4215	Range Keeper Mk 10 Mods 0 to 17—Instructions for Installation of Target Angle Switch	24 Jul 42	R	
4216	Instructions for Converting Range Keeper Mk 7 Mod 10 to Mk 7 Mod 13	7 Jan 43	R	Rev B
4217	Range Keepers Mk 10 Mods 0 to 5, 7, 9-17, and 20—Alterations to Increase Target Speed and Remove Air-Surface Shift	26 Nov 42	R	Rev B
4218	Instructions for Converting Range Keeper Mk 8 Mod 17—For Use with 6" Mk 35 Projectile 130 lb	18 Sep 42	R	
4219	Instructions for Converting Range Keeper Mk 8 Mod 10 to Mk 8 Mod 24—For Use with 14"/50 Cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
4220	Instructions for Converting Range Keeper Mk 8 Mod 4 to Mk 8 Mod 18—For Use with 6" Mk 34 Projectile (130 lb)	18 Sep 42	R	
4221	Instructions for Converting Range Keeper Mk 7 Mod 2 to Mk 7 Mod 14—For Use with 8" Guns with 1/25 Twist Rifling	18 Sep 42	R	
4222	Instructions for Converting Range Keeper Mk 7 Mod 4 to Mk 7 Mod 15—For Use with 8" Guns with 1/25 Twist Rifling	18 Sep 42	R	
4223	Instruction Book for Range Keeper Mk 8 Mod 16 (BB 48).....	30 Sep 42	R	With Change 1 dated 27 Sep 44
4224	Instructions for Converting Range Keeper Mk 7 Mod 6 to Mk 7 Mod 12—For Use with 6" Projectile Mk 34 (130 lb)	18 Sep 42	R	
4225	Instructions for Converting Range Keeper Mk 8 Mod 0 to Mk 8 Mod 20—For Use with 8"/55 Cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
4226	Instructions for Converting Range Keeper Mk 8 Mod 1 to Mk 8 Mod 21—For Use with 8"/55 Cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
4227	Instructions for Converting Range Keeper Mk 8 Mod 3 to Mk 8 Mod 22—For Use with 8"/55 Cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
4228	Instructions for Converting Range Keeper Mk 8 Mod 5 to Mk 8 Mod 23—For Use with 8"/55 Cal Gun with 1/25 Twist Rifling	18 Sep 42	R	
4229	Conversion of Range Keeper Mk 5 Mods 0 and 1—For Use with 8"/55 Cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
4230	Range Keeper Mk 8 Mods 14 and 19—Instructions for Addition of Bearing Correction Transmitter	15 Oct 42	R	
4231	Range Keeper Mk 8 Mod 16—Instructions for Addition of Bearing Correction Transmitter	7 Oct 42	R	
4233	Instructions for Changing Target Angle Follow-up Differential Shaft on Computer Mk 1 and Mods (Serial Nos 1-100)	22 Oct 42	R	
4234	Range Keepers Mk 8 Mods 9, 11, 12, 13—Difference Between the Respective Instruction Books	28 Nov 42	R	With Change 1 dated 27 Sep 44
4235	Star Shell Spot Transmitter Mk 1 or Spot Transmitter Mk 1 or Battle Order Transmitter Mk 29—Instructions for Replacement of Handcrank Detent Spring	12 Dec 42	R	

NUMERICAL LISTING—NAVORD ODs

OD No.	Title	Date	Class	Remarks
4236	Instructions for Installation and Operation of Selector Drive Mk 1	5 Jan 43	D	
*4237	Train and Elevation Power Drives Mk 2, Mods 0, 1, 2 Installation Instructions for 1710 Mounts Mk 2 Mod 4	.....	D	
4238	Instructions for Converting Range Keeper Mk 10 Mod 18, Serial Number 111, and Mk 10 Mod 19, Serial Number 114 to Mk 10 Mod 57	22 Jan 43	R	
4239	Instructions for Installing Parts to Convert Target Angle Follow-up to Target Course Follow-up on Computer Mk 1 and Mods	19 Feb 43	R	Issued with OCL F9-43
4240	Instruction Book for Range Keeper Mk 10 Mods 44, 53 and 54...	9 Oct 44	R	Will be superseded by OP 1065
4242	Range Keeper Mk 10 Mods 5, 11, 13, 27, 34 or 36—Alteration to Permit Control of 6"/47 Cal Guns Firing Fuzed Projectiles	31 May 43	D	
4243	Instructions for Installation and Operation of Selector Drive Unit for Range Keeper Mk 10 and Mods	13 Jun 44	R	
4244	Range Keeper Mk 10 Mods 43, 53, 64—Alteration to Permit Control of 6"/47 Cal Guns Firing Fuzed Projectiles	14 Mar 44	R	Rev A
4245	Instructions for Converting Range Keeper Mk 8 Mod 8 to Mk 8 Mod 30 by Installation of Gun Elevation Order Automatic and Gun Train Order Automatic Transmitters	23 Jul 43	D	Rev A
4246	Computers Mk 3 Mods 0, 1, 2, 3 and 4—Alteration of Dial Mask to Permit Removal of Clock	9 Jan 43	D	
4247	Instructions for Converting Range Keeper Mk 8 Mod 12 to Mk 8 Mod 25 For Use with 105 lb HC Projectile	26 Jul 43	D	
4248	Instructions for Altering Range Keeper Mk 8 Mods 11, 13, 25 and 26 To Accommodate External Plot Selector Switch	15 Jul 43	D	
4249	Conversion Parts for Range Keepers Mk 10 Mods 53 and 54—Installation Instructions (<i>Preliminary</i>)	30 Oct 44	R	Rev B
4250	Conversion Parts for Range Keepers Mk 10 Mods 43, 47, 50, 64 and 65 Installation Instructions (<i>Preliminary</i>)	11 Mar 44	R	
4251	Range Keeper Mk 10 Mod 56—Instructions for Altering to Permit Transmission of Elevation Designation and Gun Elevation Order Indicating at 2 and 36 Speeds	12 Jun 43	D	
4252	Range Keeper Mk 10 Mod 50—Instructions for Altering to Permit Transmission of Elevation Designation and Gun Elevation Order Indicating at 2 and 36 speeds	15 Jul 43	D	Rev A
4253	Gun Elevation Indicator Mk 9 Mods 3, 5, 6—Instructions for Altering to Receive Orders at 2 and 36 Speeds	6 Jul 43	R	Rev A
4254	Gun Elevation Indicator Mk 14 Mods 0, 1—Instructions for Altering to Receive Orders at 2 and 36 Speeds	20 Jul 43	D	
4255	Elevation Receiver Regulator Mk 3—Alterations to Permit Gun Movements Between -5° and +60° (Instead of Between -5° and +41° as Originally Installed)	2 Jun 43	D	
4256	Range Keeper Mk 10 Mods 51 and 52—Instructions for Altering to Permit Transmission of Elevation Designation and Gun Elevation Orders at 2 and 36 Speeds	8 Jul 43	D	
4257	Instruction Book for Computer Mk 3 Mod 5.....	24 Mar 44	R	
4258	Instruction Book for Power Amplifier Installed in Range Keeper Mk 8 Mods 11, 15, 54, 55 (<i>Preliminary</i>)	31 May 44	R	
4259	Range Keeper Mk 10 Mod 60—Instructions for Altering to Permit Transmission of Elevation Designation and Gun Elevation Order Indicating at 2 and 36 Speeds	7 Sep 43	D	Rev A
4260	Range Keeper Mk 10 Mod 11 Serial Nos 104, 105—Conversion to Mod 60 for Use on USS SAN FRANCISCO CA 38	21 Jul 43	D	
4261	Range Keeper Mk 10 Mod—Serial Nos 115 to 139 Incl Instructions for Altering Range Mark Signal to Operate on 115 Volt AC	30 Jul 43	D	

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OD No.	Title	Date	Class	Remarks
4262	Range Keeper Mk 10 and Modifications, Use for Main Battery Control, Including Instructions and Directions for Computing Tables of Corrections	25 Sep 43	R	
4263	Range Keepers Mk 10 Mods 5, 11, 27, 34, 43, 64 Table of Corrections for Control of 6"/47 Cal Guns Firing 105-lb HC Projectiles (Preliminary)	5 Aug 43	R	
4264	Antenna Pedestal and Associated Apparatus for Navy Model FC Radar Equipment	21 Apr 41	R	
4265	Greasing of Motors Having Keystone Grease Relief Fittings....	27 Jul 42	D	
4364	Ordnance Data for Gun Train Indicator Mk 23 Mod 2.....	14 Jan 44	R	Rev A
4365	Gun Train Indicators Mk 23 Mods 3 to 12.....	14 Jan 44	R	Rev A
4366	Gun Elevation Indicator Mk 21 Mod 2.....	17 May 44	D	Rev B
4367	Gun Elevation Indicators Mk 21 Mods 3 and 4.....	17 May 44	R	Rev B
4368	Ordnance Data for Fuze Setting Indicator Mk 5 Mod 1.....	4 Dec 43	R	
4369	Gun Sight Mk 14 Mods 2, 3, 4, 9, 10 and 11 (Overhaul Manual), (Preliminary) Part 1	26 Apr 44	R	Supersedes Sperry Instruction Book No. 14-20A. Issued with OTIs F19-44, F21-44, F24-44, F25-44. Change 1 dated 15 Dec 44, Change 2 dated 19 Feb 45, Change 3 dated 22 May 45. Change 4 dated 21 Sep 45 superseding OTI F12-44. Issued only on Bureau approval
4369	Gun Sight Mk 14 Mods 6, 7, 8, 12, 13 and 14 (Overhaul Manual), (Preliminary) Part 2	15 Dec 44	R	Issued only on Bureau approval
*4370	Overhaul Manual for Gun Sight Mk 15.....			
*4371	Overhaul Manual for Gun Director Mk 52.....			
4374	Hydraulic Power Equipment for 8" Rammers (RH and LH) Mk 17 and Mk 17 Mods 1, 2 and 3	26 Dec 41	R	
4375	Electric Hydraulic Equipment for 5" Slides Mk 27 and Mk 27 Mods 1, 2 and 3 (Rammers) and for 5" Loading Machines Mk 15 and Mk 15 Mod 1	15 Dec 41	R	
4388	Report of Tests and Inspection—Synchro Capacitors Mk 1, Type 3C, Mk 3 Type 9C	26 Mar 42	R	
4389	21" AW Torpedo Tubes (Quadruple and Quintuple)—Instructions for Preservation at Navy Yards	22 Jun 42	D	
4390	Theory of an Electronic—Hydraulic Regulator for Ordnance Equipment—Mathematical Discussion	17 Apr 42	R	
4391	40-mm Antiaircraft Quad Mount Mk 2—Description and Operation (Preliminary)	15 Apr 42	R	With Addenda D. Will be superseded by OP 822
4392	Instruction Pamphlet for Antiaircraft Range Indicator Mk 1....	13 May 42	D	Issued with OTI F3-43
4393	3" Range Table 2,615 fsiv.....	Undated	R	
4396	Suitability Tests of R A D Mk 3 Hydraulic Pump (British Make)	28 Apr 42	R	
4398	Table of Estimated Lives of U.S. Naval Guns.....	16 Jul 42	R	Rev A. With Change 1 dated 9 Jul 45
4399	Report of Temperature Tests on Electric Heater for 1710 Machine Gun Recoil Cylinder	8 May 42	R	
4400	Instructions for Installation of Electric Hydraulic Drive Equipment—5" Training Gear Mk 10 and Mk 10 Mod 1 and 5" Elevating Gear Mk 10 on 5"/38 Cal Twin Gun Mounts Mk 32 and Mk 32 Mods 1 and 2	15 Sep 42	R	Rev A
4403	6"/47 Cal Triple Turret Assemblies for, CLs 55-58, 60, 62-67, 79-83, 86-87, 99-111, 116-118 Method of Testing the Equipment After Installation Aboard Ship	4 Jan 45	R	Rev A

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NUMERICAL LISTING—NAVORD ODs

OD No.	Title	Date	Class	Remarks
4404	6" Range Table 2,725 fsiv.....	15 May 42	R	Rev A
4407	Ordnance Equipment List for <i>Aircraft Carriers</i> , Large, CVB 41 Class	5 Nov 45	R	2nd rev
4408	Pamphlet for 40-mm Power Drive System Mk 5 Mods 0, 1, 2, 3, 4, 5, 6, 7 and 8	15 Mar 43	R	Rev B. With Change 1 dated 28 Jun 45 and OTI G33-43. Will be superseded by OP 822
4409	6" Range Table 2,925 fsiv.....	31 May 42	R	
4410	Data for Use with Torpedo Directors Mk 28 and Mk 28 Mod 2 in the Launching of Torpedoes Mk 13, Mk 13 Mod 1 and Mk 13 Mod 2	4 Jun 42	R	Amended by OCL FV 6-43
4412	6" Range Table 2,225 fsiv.....	21 May 42	R	
4415	14" Slide Mk 1 Mod 3 (2 Gun Turret) 14" Slide Mk 2 Mod 5 (3 Gun Turret)—for BB 36—Instructions for Filling the Recoil and Counterrecoil System	23 May 42	R	
4416	Diesel Engine Driven Generator Set Furnished by Schramm, Inc.—Report of Acceptance Tests and Inspection	8 Jul 42	R	
4417	Compositions of Navy Department and Bureau of Ordnance Metals and Commercial Equivalents	29 Jan 43	D	Rev A
4421	Gun Directors Mk 37 and Mods Part 2—Installation Instructions	8 Feb 44	R	
4422	Controlled Mine Mk 20—Description.....	21 Jul 42	R	Rev A
4423	Hydraulic Power Equipment for Projectile Hoists and Door Operating Equipment 8"/55 Cal 3 Gun Turrets Mk 27 Mods 3, 4, and 5 (CAs 68-75)	15 Apr 43	D	
4424	Gun Director Mk 51 Mod 2—Operator's Manual.....	Mar 1944	R	2nd rev. With Change 1 dated 19 Feb 45 and Change 2 dated 4 Jun 45
*4425	Operational Training Vessels AVP 23.....			
4427	Depth Charge Release Tracks General Features.....	15 Jul 42	R	
4428	Operating Controls for Depth Charge Release Tracks—General Description	15 Jul 42	R	
4429	Gun Sight Mk 14 Mods 2, 3 and 4—Operator's Manual.....	May 1943	R	1st rev. Supersedes OD 3733. Issued with OTIs F13-43 and F19-44 and Change 1 dated 19 Feb 45
*4432	Periscopes Mk 20.....			
4434	Depth Charge Equipment for <i>Submarine Chasers</i> (PTCs 1 to 12)	18 Aug 42	R	
4436	Instructions for Installation of Electric Hydraulic Drive Equipment for 5" Training Gear Mk 6 Mods 6, 7, 9, 10, 17-20, 5" Elevating Gear Mk 6 Mods 6, 7, 17, 18 and Telescopes Mk 61 and Mods, Mk 62 and Mods on 5"/38 Cal Single AA Gun Mounts—Including Instructions for Testing After Installation	29 Jan 43	R	
4437	5" Sights Mk 31 Mod 5 for 5"/38 Cal Single Gun Mounts—Instructions for Installing the Housing Assembly and for Testing Sight After Installation	8 Mar 43	R	
4442	Report of Tests and Inspection—Synchro Motors Type 1F Mk 8 Mod 5	10 Aug 42	R	
4443	Depth Charge Case Mk 6 Mod 3—Instructions for Loading.....	23 Jul 42	R	
4444	Tactical Data for Torpedoes Mk 8 Mods 3C, 3D, 4, 5 and 8 Destroyer Firing	17 May 44	R	
4446	General Instructions Relating to the Assembly and Testing of Four-Way Clamps	24 Jul 42	R	
4448	5" Projectile Hoist Mk 2 Mod 1 (5"/38 Cal Mount Mk 30)—Electric Hydraulic Equipment—OS 2130—Routine Test Data	3 Jun 42	R	

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OD No.	Title	Date	Class	Remarks
4450	Report of Tests to Determine the Suitability of Formex and Formvar Insulated Wire for the Windings of Synchros	5 Aug 42	R	
4451	Report of Tests of Automatic Control of Cold Temperature and Accelerated Life on 6"/47 Cal Elevating Controls	21 Dec 42	R	
4454	Fuze Setter Mk 12 Mod 1—Description and Operation.....	23 Sep 43	R	Rev A
4455	Telescope for 8.8 cm Deck Gun (German Type)—Description...	7 Aug 42	R	With Change 1 dated 9 Jul 45
4457	Report of 2,000 Ft lb Shock Test, Part I, of Firing Solenoid Mk 22, Having a Malleable Iron Housing. Part II, Firing Solenoid Mk 22, Having a Die Cast Zinc Alloy Housing (Zamak #3)	11 Mar 43	R	Rev A
4459	Report of Tests and Inspection of Synchro Differential Generator Type 5DG Mk 4 Mod 5	12 Oct 42	R	
4460	Illumination Corrector Mk 1.....	17 Sep 42	R	
4462	Ordnance Data for Sight Setters Indicator Mk 2 Mod 1.....	26 Feb 43	R	
*4463	Sight Setters Indicator Mk 3 Mods 4 and 5.....	.....	..	
4465	Conversion of Sight Setters Indicator Mk 1 Mod 3 to Sight Setters Indicator Mk 1 Mod 4.....	28 Oct 44	R	
*4471	Report of Non-Firing Tests of Automatic Control 40-mm Mount Mk 1 Mod 2 (Twin) Equipped with Ford Instrument Power Drive	.....	..	
4472	Preliminary Test Report of Non-Firing Type Approval Tests at Normal Temperatures on 40-mm Mount Mk 1 Mod 2 (Twin)—Equipped with General Electric Power Drive	28 Apr 43	R	
*4473	Report of Non-Firing Tests of Automatic Control 40-mm Mount Mk 1 Mod 6 (Twin) Equipped with York Safe and Lock Power Drive Mk 5 Mod 3	.....	..	
*4474	Report of Non-Firing Tests of Automatic Control 40-mm Mount Mk 2 Mod 2 (Quad) Equipped with York Safe and Lock Power Drives Mk 5 Mod 0 Light Train Power Drive	.....	..	
*4475	Report of Non-Firing Test of Automatic Control 40-mm Mount Mk 2 Mod 2 (Quad) Equipped with York Safe and Lock Power Drives. Train Power Drive Mk 6 Heavy Train Power Drive	.....	..	
4481	Report of Tests and Inspection—Synchro Generators Type 6G Mk 2 Mod 4	25 Sep 42	R	
4482	Ordnance Equipment List for <i>Destroyer Tenders</i> —AD 22 Class..	24 Apr 45	R	1st rev
4483	Ordnance Equipment List for <i>Seaplane Tenders, Large</i> —AV14 Class	14 Dec 44	R	Rev A
4484	German Illuminated Sight (Carl Zeiss, Jena, Serial No. 119076)..	26 Sep 42	R	With Change 1 dated 9 Jul 45
4485	Report of 2000 Ft lb Shock Test of Exciter Case Mk 19—Made of Malleable Iron	1 Oct 42	D	
4486	Some Comments on the Operation and Maintenance of Ordnance Equipment	8 Dec 43	R	Rev A. Issued with OTI F5-44. Change 1 dated 23 Sep 44
4487	Report of Tests of Two Ford Instrument Co Type 5B Synchro Motors Rejected as Failing to Meet OS 671 (Rev D)	7 Oct 42	R	
4489	Summary of Routine Navy Tests Under Non-Firing Conditions on Power Drives Mk 5 Mod 0 and Mod 6 for 40-mm Quadruple Mounts, Together with Summary of Test Data Supplied by Vickers Inc, Covering Routine Tests of Hydraulic Equipment Listing Maximum and Minimum Values Found in Each Test	23 Jul 45	R	Rev F
4494	Preliminary Ordnance Weights for <i>Auxiliary Aircraft Carriers</i> (ACV 10)	17 Nov 42	R	Now CVE 10

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NUMERICAL LISTING—NAVORD ODs

OD No.	Title	Date	Class	Remarks
4495	Routine Test Data, 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3 (Electric Hydraulic Equipment)	23 Sep 42	R	
4496	Tactical Data for Torpedo Mk 15 Mod 3 for Destroyer Firing..	22 Sep 44	R	
4498	5"/38 Cal AA Single Gun Mounts Mk 30 Mods (Manual Hand-wheel Drive)—For Merchantmen—Instructions for Installation Aboard Ship	11 Nov 42	R	
4500	Tilting Platform Mk 1 (Roll, Pitch and Train)—Instructions for Operation and Maintenance	5 May 43	R	
4501	Tilting Platform Mk 1 Mod 1 (Roll Only) Instructions for Operation and Maintenance	5 Feb 43	R	
4504	16" Projectile Hoist Mk 8 Mod 2—Cradle Operating Cylinder Performance Tests	28 Nov 42	R	
4505	An Investigation of the Magnetizing Currents Drawn from a Synchro Generator Type 7G by a Differential Generator Type 5DG Under Various Combinations of Type 1F and Type 5F—Synchro Motors Load (Static Condition)	17 Nov 42	R	
*4508	Preliminary Instruction Book for Operation and Maintenance of Barrage AA Computer Mk 6 Mod 5 for 5"/25 Cal Guns	.....	..	
4509	Preliminary Instructions for Operation and Maintenance of Anti-Aircraft Barrage Computer Mk 7 Mods 6, 7 and 8 for 5"/38 Cal Guns	1943	R	
4512	Report of Temperature Tests on Powder Surveillance Oven Mk 5	8 Dec 42	R	
4514	Test Data Summary, 8" Projectile Hoist Mk 27 Mods 6, 7 and 8, Electric Hydraulic Equipment	20 Sep 45	R	
4515	16"/50 Cal Triple Turret Assemblies for BBs 61-66 incl—Method of Testing the Equipment After Installation Aboard Ship	21 Dec 42	R	
4522	Installation Instructions for Compensating Parallax Change Gears for Train Receiver Regulator Mk 13 Mods 1 to 8 and 15 to 19 for 6" Training Gear Mk 2 Mod 1	Undated	R	
#4524	The Determination of the Accuracy and Stiffness Factor of a Synchro System—Composed of a Type 6G Synchro Generator Transmitting to Various Loads of Type 5F Synchro Motors	20 Jan 43	R	
4526	Utilization of Electric Heaters for Cold Weather Operation of Electric Hydraulic Equipment—Report of Investigation	11 Jan 43	R	
4527	Ordnance Equipment List for <i>Frigates</i> PF3 Class.....	10 Apr 44	R	Rev A. Formerly PGs 111-179
4528	Ordnance Equipment List for <i>Aircraft Carrier Escort</i> CVE 105 Class	28 Aug 45	R	2nd rev. Issued with Change 1 dated 23 Jan 46
4530	Ordnance Equipment List for <i>Light Cruisers</i> CL 64 Class and CL 106 Class	10 Apr 45	R	1st rev. Supersedes parts of OD 3586
4531	Ordnance Equipment List for <i>Destroyer Escort</i> Vessels DE (5")	11 May 45	R	2nd rev
4532	Ordnance Equipment List for <i>Destroyer Escort</i> Vessels DE (3")	23 Jul 45	R	2nd rev. Rev "A" superseded OD 3673 and part of OD 3785
4533	Telescopes Mks 39, 48, 49, 78 and Mods—For Submarine Gun Mounts—Instructions for Testing for Pressure Tightness	20 Mar 43	R	Rev A
4534	8"/55 Cal Triple Turret Assemblies for CAs 68 to 75—Method of Testing the Equipment After Installation Aboard Ship	27 Jul 44	R	Rev A
4535	5"/38 Cal Single AA Mounts Mk 30 and Mods—Instructions for Converting Standard Combat Enclosed Type Mounts to Open Mounts	15 Oct 43	R	Rev A
4537	Report of 2000 Ft lb Shock Test of Firing Solenoid Mk 25—For Use in Firing Circuit Mk 11 on 3" Gun Mounts Mk 24	18 Feb 43	R	

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OD No.	Title	Date	Class	Remarks
4538	Summary of Routine Navy Tests Under Non-Firing Conditions on Power Drives Mk 5 Mod 3 for 40-mm Twin Mounts together with Summary of Test Data Supplied by Vickers Inc. Covering Routine Tests of Hydraulic Equipment Listing Maximum and Minimum Values Found in Each Test	Apr 1945	R	Rev D. Including Amendments 1, 2, 3, 4 (Revisions A, B, C, D)
*4539	Conversion Mechanism Rangefinder Mk 58.....			
4541	4"/50 Cal Gun Mounts Mk 12 Mods 38, 40, 41, 42 and 43—For Submarines—Instructions for Installation Aboard Ship	19 May 44	R	Rev A
4542	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 8" Auxiliary Projectile Hoist Mk 6 Mods 3, 4 and 5—Electric Hydraulic Equipment	17 Aug 43	R	
4543	Ordnance Equipment List for <i>Submarine Tenders</i> AS 22 Class....	26 May 44	R	Rev A
4544	Ordnance Equipment List for <i>Motor Torpedo Boat Tenders</i> (AGPs 6-9)	17 Jan 45	R	Rev A
4545	Ordnance Equipment List for <i>Light Cruisers</i> (CLs 119-121).....	12 Jan 45	R	Rev A. Supersedes OD 3602 as to CLs 119-121. With Change 1 dated 21 Feb 45, Change 2 dated 25 May 45, Change 3 dated 4 Jul 45, Change 4 dated 20 Sep 45
4546	Ordnance Equipment List for <i>Large Cruisers</i> CB 1 Class CBs 1, 2, 3	21 Mar 45	R	1st Rev. Supersedes OD 3599
4547	SD-1 Station Distributor—Operation and Service Instructions....	1 Aug 43	R	Issued only on Bureau approval
*4548	Description and Operation of 6"/47 Cal Powder and Projectile Hoists			
*4549	Description and Operation of 6"/47 Cal Powder and Projectile Hoists			
4550	3"/50 Cal AA Mounts Mk 24—Installation Instructions.....	6 Dec 43	R	Rev A. With Change 1 dated 3 Jan 45
*4551	5"/38 Cal Twin Mount Rammer Drives.....			
4552	Electric Hydraulic Equipment Mk 7 Mod 1 for 21" AW Torpedo Tube Training Gear, Instructions for Installation, Operation and Maintenance	Undated	R	
*4553	6" and 8" Elevating Gear Electric Hydraulic Equipment.....			
*4554	6" and 8" Training Gear Equipment Electric Hydraulic Equipment			
*4555	Electric Hydraulic Equipment for 16"/45 Cal Elevating Gear Drive			
4556	3"/50 Cal AA Gun Mount Mk 24 Mod 1, Installation Instructions	6 Dec 44	R	With Change 1 dated 3 Jan 45
4557	Hydraulic Power Equipment for 16" Elevating Gear Mk 5 Mods 3, 4 and 5 for 16"/50 Cal 3-Gun Turret BBs 65 and 66	12 Aug 44	D	
*4575	3"/50 Mount Mk 22 Mod 3 and 3" Shield Mk 14 Installation Instructions			
4577	Fuze Setter Mk 13, Portable for Time Fuzes Mk 15, 16 and 18 Description and Operation	27 Feb 43	R	
4578	Location of 5" Guns, Directors and 36" Searchlights (Parallax Data) DDs 692-734, 741-748, 752-770, 774-791, 805-890	22 Nov 44	D	Rev A
4579	Report of Tests on Fuze Setting Indicator Regulator Mk 9 for Use with 5"/38 Cal Twin Mount Projectile Hoists Mk 3 (RH) and Mk 3 Mod 1 (LH)	27 Sep 43	R	Rev A
4580	Report of Tests to Determine Loading Characteristics of a Type 5G Synchro Generator	25 Mar 43	R	
4581	Inspection Check-off Sheets for Ordnance Equipment for <i>Destroyers</i> DD 453 Class and DD 445 Class	9 Jul 43	R	

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OD No.	Title	Date	Class	Remarks
4582	Check List for Inspection and Testing of Fire Control Circuits and Associated Equipment on DD 453 Class <i>Destroyers</i>	9 Jul 43	R	
4583	BBs 43, 44 and 48—Location of Guns Directors and 36" Searchlight—14"/50 (BBs 43-44) 16"/45 (BB 48) 5"/38 (BBs 43, 44, 48)—Parallax Data	16 Mar 43	D	Supersedes Sk 87200 and 96881 and OD 2940
*4584	Report of Tests 21" AW Torpedo Tube Mk 14 Mod 2 (Quintuple) Gyro Setting Mechanism Mk 5 Gas Operated Spindle Retractor (Experimental)	.....	..	
4585	Instructions for Converting an Open 5"/38 Single AA Mount Mk 30 Mod 50 (Assembly No 955)—Northern Ordnance Inc Interim Merchant Type to an Enclosed 5"/38 Single AA Mount Mk 30 Mod 64 (Assembly No 1239) (Heavy Roof Type)	12 Jun 44	R	Rev A
*4586	Report of Tests on Sizes Type B Synchros Supplied to General Mills, Inc, by Ford Instrument Co	.....	..	
4587	Routine Test Data for 5" Projectile Hoist Mk 4 Mods 10 and 11, 5" Powder Hoist Mk 4 Mods 10 and 11 (38 Cal Twin Mount Mk 32)—Electric Hydraulic Equipment	25 Feb 43	R	
*4588	Tabulation and General Description of 5"/38 Cal AA Single Base Ring Type Mounts, Open and Closed	.....	..	
4589	Ordnance Equipment List for <i>Motor Torpedo Boat Tenders</i> , AGP 4 Class	16 Mar 44	R	Rev A
4592	Report of Tests and Inspection of Synchro Differential Generator Type 6DG Mk 5 Mod 4	9 Apr 43	R	
4593	6" Powder Hoist Mk 2 Brake Load Tests—Vickers Hydraulic Drive Unit	19 Jul 43	R	
4594	Report of Tests to Determine Loading Characteristics of a Type 1F Synchro as a Transmitter	17 Apr 43	R	
4595	Ordnance Equipment List for <i>Landing Craft, Tank</i> (LCTs) (5) 1-88, 119-621)	3 May 43	R	
4596	Routine Test Data 16" Powder Hoist Mk 9 and Mk 9 Mods 1-8 (BBs 61 to 66—Electric Hydraulic Equipment)	12 Apr 43	R	Rev A
4598	Surveillance Overis Mk 5 and Mk 5 Mod 1—Description and Operation Instructions	30 Apr 43	D	Rev A
4599	Type AN-A-1 and AN-B-1 Control, Bomb Arming (Selective Fuzing Box) Operation and Service Instructions	23 Apr 43	R	Issued only on Bureau Approval
4600	Dummy Director Mk 2, Instruction Pamphlet Operation and Maintenance	4 May 43	D	
4601	Report of Test and Inspection—Synchro Differential Generator Type 7DG Mk 6 Mod 2 and Synchro Generators Type 7G Mk 3 Mod 2	25 May 43	R	
4602	Ordnance Equipment List for <i>Aircraft Carriers</i> , CV 9 Class.....	29 Oct 45	R	2nd rev
4603	5" Shield Mk 34 Mod 1, Barbette Water Seals and External Type Training Stop Buffers for 5" Mount Mk 32 Mod 5 Installation Instructions	16 Oct 44	R	Rev A
4604	5" Shields Mk 33 Mod 1 and Mk 36 Mod 1; Barbette Water Seals and External Type Training Stop Buffers for 5"/38 Cal Twin Gun Mounts Mk 32 Mods 3, 4, 8, 11 and 12—Installation Instructions	16 Oct 44	R	Rev A
4605	Ordnance Equipment List for <i>Destroyers</i> —DD 445 Class.....	18 Dec 45	R	1st rev. With Change 1 dated 13 Feb 46. Supersedes ODs 3502 and 3598 as to DDs 476-478
4606	Ordnance Equipment List for <i>Destroyers</i> (DD 453 Class—1630 Ton)	31 Jul 43	R	Supersedes OD 3722
4607	Ordnance Equipment List for <i>Destroyers</i> —DD 692 Class.....	19 Oct 45	R	2nd rev

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OD No.	Title	Date	Class	Remarks
4608	Ordnance Equipment List for <i>Submarines</i>	15 Oct 45	R	2nd rev
*4609	Periscope Mk 68 Instruction for Use, Assembly, Lubrication, Upkeep and Overhaul .....	.....	..	
*4612	Periscope Mk 29 Mod 2 Instructions for Use, Assembly, Lubrication, Upkeep and Overhaul .....	.....	..	
*4613	Periscope Mk 30 Mod 1 Instructions for Use, Assembly, Lubrication, Upkeep and Overhaul .....	.....	..	
*4614	Periscope Mk 31 Mod 1 Instructions for Use, Assembly, Lubrication, Upkeep and Overhaul .....	.....	..	
4615	Ordnance Equipment List for <i>Destroyers</i> (DDs 479-481-2100 Ton)	31 Jul 43	R	Supersedes OD 3598
4616	Report of Heat Test on Interlock Solenoid for 16" Projectile Hoist Mk 8, Mk 8 Mods 1 and 2	20 May 43	D	
4617	Report of Test and Inspection Control Transformers Type 1 CTB Mk-Mod 2	3 Jun 43	R	
4618	Report of Test and Inspection of Synchro Motors Type 1B Mk-Mod 2	3 Jun 43	R	
4619	Report of Test and Inspection of Synchro Motors Type 5B Mk 5 Mod 4	20 May 43	R	
4620	General Information for Identification and Interchangeability of Housings for 5"/38 Cal Guns--(5" Housings Mk 1 and Mods)	18 May 43	R	
4621	Location of 8" and 5" Guns, Directors and 36" Searchlights (Parallax Data) CAs 37 and 38	11 Oct 43	R	
4622	Bomb Rack Mk 51 Mod 6 and Mod 7.....	1943	D	
4623	Performance Tests--8" Lower Powder Hoist Mk 30 Mod 4....	9 Dec 43	R	
4626	Ordnance Equipment List for <i>Aircraft Carriers, Escort</i> CVE 6 Class (U.S.)	30 Aug 43	R	Supersedes OD 3756, and OD 3798 as to ACV 31
4627	Ordnance Equipment List for <i>Landing Ship, Dock</i> , LSD 1 Class	19 Jun 45	R	1st rev
4629	Ordnance Equipment List for <i>Battleship</i> BB 44.....	23 Sep 44	R	
4630	Ordnance Equipment List for BBs 61-66.....	14 Sep 43	R	Supersedes OD 3573
*4631	6"/47 Cal Projectile Hoist Mk 3 and Mk 3 Mods 1, 2 and 3--Description of Operation (<i>Rock Island Arsenal</i>)	.....	..	
*4632	6"/47 Cal Projectile Hoist Mk 3 and Mk 3 Mods 1, 2 and 3--Installation Instructions	.....	..	
4633	21"0 AW Torpedo Tubes Mk 12 Mod 7 and Mk 13 Mod 7--Method of Testing and Equipment After Installation Aboard Ship (For Electric Hydraulic Equipment Mk 7 and Mk 7 Mod 1)	16 Jun 43	R	
4634	Report of Tests and Inspection Gun Director Mk 37 Mod 57 Director Control Mechanism with Amplidyne Drive	6 Jun 44	R	Rev A
4635	Instruction Book Data for Electric-Hydraulic Equipment for 100-mm Training and Elevating Gear Power Drive	22 Jun 43	D	
4636	8"/55 Cal Triple Turret Assemblies for CAs 32 and 36--Method of Testing the Equipment on Spare Turrets	16 Oct 43	R	Rev A
4637	8"/55 Cal Triple Turret Assemblies for CAs 37 and 38--Method of Testing the Equipment on Spare Turrets	16 Oct 43	R	Rev A
4638	8"/55 Cal Triple Turret Assemblies for CAs 24-31, 33 and 35--Method of Testing the Equipment on Spare Turrets	10 Aug 43	R	
4639	The Determination of the Static Accuracies, Generator Capacities, and Stiffness Factors of Synchro Systems Composed of Chains of Cascaded Differential Generators and Capacity of Generator in Terms of 5D Differential Motors	3 Apr 44	R	
4640	Report of Tests in Connection with Improvement of Illumination of Fire Control Instruments for Dark-Adapted Personnel	13 Aug 43	D	Rev A
4641	French 100-mm Gun Fuze Setter (Modified for American Fuze Mk 22)--Description and Operation	19 Mar 45	R	Rev A

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OD No.	Title	Date	Class	Remarks
4642	16" Projectile Hoist Mk 7, Powder Hoist Mk 8 for 16"/45 Cal Hoists—Tests of Cradle and Powder Door Motor and Pumps	4 Sep 43	R	
4643	Installation Instructions for 5" Shield Mk 41 on 5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1	18 Oct 44	D	Rev C
4644	Gun Director Mk 33 and Mods—Installation Instructions.....	9 Oct 43	R	
4645	Sight Angle and Fuze Predictor (<i>Indianapolis</i> Type) Description and Operation	11 Sep 43	R	
*4646	Vibration Data for Design of Elastic Supports for Directors, Main Battery 1 and 2 AA 1 and 2 Turrets 1, 2 and 3	.....	..	
*4647	Vibration Data for Design of Elastic Supports for Director, Main Battery 1 and 2, AA 1 and 2, Turrets, 1 and 3	.....	..	
*4648	Vibration Data for Design of Elastic Supports for Director, Main Battery 2, AA 2, Turret 3	.....	..	
4649	Front-Surface Reflectors of Rodium.....	13 Sep 43	R	
4650	Report of Test and Inspection of Control Transformer Type 1CT Mk—Mod 3 Volts—90/45 AC	14 Oct 43	R	
4651	Report of Test and Inspection Synchro Motors Type 1F Mk 8 Mod 3A Volts 115/90 AC—Serial Nos 1 and 2	11 Dec 43	R	
4652	Report of Test and Inspection—Control Transformers Type 1CT Mk—Mod 3A 90/55 Volts AC	14 Oct 43	R	
4653	Test of Hydraulic Variable Speed Transmission.....	23 Oct 45	R	
*4654	USS NORTH CAROLINA (BB55)—Main Battery Directors and 16" Turrets—Report of Vibration Tests—Gun Directors Mk 38 Mods and 16"/45 Cal Turrets	.....	..	
*4655	USS WASHINGTON (BB56)—Main Battery Directors and 16" Turrets—Report of Vibration Tests—Gun Directors Mk 38 Mods and 16"/45 Cal Turrets	.....	..	
4656	Torpedo Angle Solvers Mk 7 and Mods—Description and Instructions for Use	15 Oct 43	R	
*4657	USS QUINCY (CA39)—8" Turrets Nos 1 and 3—Report of Vibration Tests (8"/55 Cal Turrets)	.....	..	
*4658	USS MONTPELIER (CL57)—Main Battery and AA Directors and 6"/47 Cal Turrets—Report of Vibration Tests—Gun Directors Mk 34 and 37 and 6"/47 Cal Turrets	.....	..	
4659	Ordnance Data Test of 16" Projectile Hoist Mk 8 Mod 2.....	12 Feb 44	R	
4660	Test of 16" Powder Hoist Mk 9 Mod 8 (50 Cal BB 61 Class)	27 Apr 45	R	
4661	AW Torpedo Tubes—Method of Inspecting Barrel Shell Plates Specification (48-S-5) Steel Plate, Hull, Structural	19 Oct 43	D	
4662	Report of Test and Inspection Synchro Motors Type 1F Mk 8 Mod 7 Volts 115/90 AC Serial Nos 2M1 and 2M2	13 Jul 44	R	Rev A
4663	Report of Test and Inspection of Synchro Generator Type 5G Mk 1 Mod 4 and Synchro Motor Type 5F Mk 4 Mod 4 High Speed Synchro	20 Jun 44	R	
4664	Report of Test and Inspection Control Transformers Type 5CT Mk 1 Mod 4 Volts 90/60 AC	9 Nov 43	R	
4665	Test of Worm and Worm Wheel Submitted by Professor Earle Buckingham (Wildhaber Type) for 5"/38 Cal Mount Training Gear	24 Feb 44	R	
*4666	USS INDIANA (BB58) Main Battery Directors and 16" Turrets Report of Vibration Tests	.....	..	
4667	Instructions for General Examination and Tests of Machine Gun Mounts (<i>Preliminary</i>)	5 Nov 43	R	
4668	Type Approval Test of 40-mm Single Gun Mount.....	31 May 44	R	
4669	Type Approval Tests of 20-mm Twin Gun Mount Mk 17	27 Mar 45	R	
4671	Type Approval Test of 20-mm Quad Gun Mount.....	30 May 44	R	
4672	Vibration Data for Design of Elastic Supports for Rangefinders USS BALTIMORE CA 68	Undated	D	

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OD No.	Title	Date	Class	Remarks
4673	Routine Test Data Power Drives for 5" Projectile Hoist Mk 2 Mod 1, 5"/38 Cal Mount Mk 30 Electric-Hydraulic Equipment	29 Oct 43	R	
4674	Report of Analysis of Japanese One-Meter Base Coincidence Rangefinder	6 Dec 43	R	
4675	Report of 2000 Ft lb Shock Test of 64 Wire Connection Box and Fuze Bpx Mk 3 With Deep Drawn Steel Cases	9 Dec 43	D	
4676	Manufacture and Installation of the Depression Stop Cam for 20-mm Machine Gun Mounts Mk 10, Mk 10 Mod 1 and Mk 14	29 Jan 44	D	
4677	Test of Wormwheel Drives for Elevating Gear 5"/38 Twin Mount, Straight Worm VS Cone Worm	21 Mar 44	R	
4678	Report of Tests and Inspection Synchro Motors Type 5F Mk 4 Mod 2 Volts 115/90 AC Serial Nos 5904338 and 5904348 (New Type Damper)	15 Dec 43	R	
4679	Report of Tests and Inspection of Synchro Motors Type 5F Mk 4 Mod 2 Volts 115/90 AC Serial Nos 5913289 and 5913292	10 Jan 44	R	
4680	Vibration Data for Design of Elastic Supports for Rangefinders USS NEW JERSEY BB 62	Undated	D	
4681	16" Rammer Mk 5—Report of Test of 16" Rammer Chains.....	6 Jan 44	R	
4682	Installation Instructions for 5" Shield Mk 48 on 5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1	18 Oct 44	R Rev A	
4683	Installation Instructions for 5" Shield Mk 53 on 5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1	18 Oct 44	R Rev A	
4684	12"/50 Cal Triple Turret Assemblies for CBs 1-3 Incl—Method of Testing the Equipment After Installation Aboard Ship	24 May 44	R Rev B	
4685	5"/38 Cal Mounts Mk 30, Mods 45, 46, 48 and 49 Equipped with 5" Sight Mk 31 Mod 8—Replacement of Telescope Mk 77 or 79 and Adapter with Telescopes Mk 61 or Mods or Mk 83 or Mods and Mk 62 or Mods—Instructions for Making the Change	25 Jan 44	R	
4686	Report of Test and Inspection Synchro Motors Type 1F Mk 8 Mod 2A Volts 115/90 AC Serial Nos 5958720 and 5958728	22 May 44	R	
4687	Report of Test and Inspection Lighting Transformers Type SL Volts 115/6 AC	22 May 44	R	
4688	Report of cursory Examination of German Four Meter Base Stereoscopic Rangefinder	22 Feb 44	R	
4689	Report of Tests of Synchro Systems Composed of Double and One Half Speed Indicator	12 Apr 44	R	
4690	Power Drive Mk 5, Manufactured by York Safe and Lock Co Trouble Shooting 40-mm	22 Jan 44	R	With Change 1 dated 16 Dec 44. To be superseded by OP 822
4691	Tests of Gas Seal for Gun Director Mk 37.....	21 Feb 44	R	
4692	Type Approval Tests of Electric-Hydraulic Equipment for 8" Elevating Gear CA 68 Class	20 Sep 44	R	
4693	Installation, Adjustment and Maintenance of Power Control Head Collector Rings and Contacts for Director Control Mechanisms for Gun Director Mk 37—Train Receiver Regulator—Mk 7 and Mods Elevation Receiver Regulator Mk 6 and Mods—Cross Level Receiver Regulator Mk 3	20 Apr 44	R	
4694	Test of Training Gear Pinion Drive for 5"/38 Single Mount....	6 Mar 44	R	
4695	21" AW Torpedo Tubes Heating Equipment, Tests of Insulation for Barrel Heaters	29 Mar 45	R	Replaces OD 4470 which was canceled
4696	Report of Test and Inspection Synchro Control Transformers Type 1CT Mk 5 Mod 4, Volts 90/55 AC Serial Nos A and B	4 Mar 44	R	
4697	Report of Test and Inspection Synchro Control Transformers Type 5CT Mk 6 Mod 4, Volts 90/55 AC Serial Nos A and B	4 Mar 44	R	

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OD No.	Title	Date	Class	Remarks
4698	5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1, Method of Installation Aboard Ship	13 Jul 44	R	Rev A
4699	Test of Automatic Elevating Control with a 16"/45 Gun and Associated Elevating Equipment, Duplicating Shipboard Installation with Waterbury Transmission	27 Mar 45	C	
*4700	Vibration Data for Design of Elastic Supports for Turret No. 3, Director No. 2, USS BILOXI, CL 80	.....	..	
4702	Report of Test on Depth Charge Launcher Knife Edge Insulators	9 Jun 44	R	
4703	Report of Tests on Firing Key Switches as used in Firing Key Mk 16 Mod 8 on Loads to Simulate Mk 28 Solenoids	18 Mar 44	D	
4704	Principle of Operation and Instructions Book for Electronic Dummy Director Mk 4	13 Apr 44	D	
4705	Test of Computer Mk 1 Mod 7 with Star Shell Computer Mk 1 Under High Ambient Temperatures	26 Apr 44	R	
4706	Report of Temperature Rise Tests on Type 5-B Synchro in Power Drive Mk 5 Mod 0 on Mount No 378	12 Apr 44	R	
4707	5"/25 Cal Gun Mounts Mk 40 for Submarines, Installation Instructions	21 Jun 44	R	
4708	Principle of Operations and Instruction Book for Electro-Mechanical Director, Dummy Director Mk 3	14 Apr 44	D	
4709	Test of Automatic Elevating Control with a 16"/45 Gun and Associated Elevating Equipment, Duplicating Shipboard installation with Northern Transmission	13 Sep 44	R	
4710	Torque Tests of 3"/50 Mount Mk 22 in Train to Determine Friction Loads Which May be Imposed on Power Drive Equipment	4 May 44	R	
4711	Report of Tests and Inspection of Synchro Generators Type 5G Mk 1 Mod — Volts 115/90 AC, Serial Nos 5364-1A and 5364-2A, Submitted for Type Approval by Diehl Mfg Co	12 Apr 44	R	
4712	Experimental Electronic Regulator for Hydraulic Speed Gears Developed at the Naval Gun Factory	7 Apr 44	R	
4713	Torque Tests of Coordinating Research Council Grease Samples on NGF Grease Torque Machine for Correlation with SOD Pressure Viscosimeter Method	3 May 44	D	
4714	Routine Test Data Power Drives for 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3, Electric Hydraulic Equipment	21 Feb 44	R	
4715	Report of Tests and Inspection of Synchro Control Transformers Type 5CT Mk 6 Mod 3A, Volts 90/55 AC Serial Nos 2 and 3	29 Nov 44	R	Rev A
4716	Report of Test and Inspection of Synchro Control Transformers Type 3CT Mk 7 Mod 3, Volts 90/55 AC Serial Nos 1 and 2	20 Jun 44	R	
4717	Report of Test and Inspection of Synchro Control Transformers Type 5SCT Mk—Mod 2, Volts 90/22.5 AC	26 Jun 44	R	
4718	Report of Test and Inspection of Synchro Control Transformers Type 5CT Mk 6 Mod 2, Volts 90/55 AC	23 Nov 44	R	Rev A
4719	Report of Test and Inspection of Synchro Control Transformers Type 5SCT Mk—Mod 4, Volts 90/22.5 AC Serial Nos A and B	26 Jun 44	R	
4720	Report of Test and Inspection of Continuous Duty High Speed Tests on Synchro Units	18 Jul 44	R	
4721	Report of Test and Inspection of Synchro Generators Type 7G Mk 3 Mod 4, Volts 115/90 AC Serial Nos A and B	28 Nov 44	R	Rev A
4722	Report of Test and Inspection of Synchro Capacitor Mk 14 Mod 2	11 Jan 45	R	Rev A
4723	Periscope Mk 23 and 24 Procedure Followed at the Naval Gun Factory Wash, DC in Chemically Treating and Painting Parts	9 Jun 44	D	

*Under preparation.

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OD No.	Title	Date	Class	Remarks
*4724	Vibration Data of Elastic Supports for After Main Battery Director Rangefinder, <i>USS WASHINGTON</i> BB 56 Gun Director Mk 38		C	
4725	Report of Test and Inspection Synchro Control Transformers Type 5HCT Mk 6 Mod 6 Volts 90/55 AC, Submitted for Type Approval by the Diehl Manufacturing Co	25 Apr 45	R	Rev B
4727	Operational Tests of Gun Director Mk 33 Mod 5, Serial No 20, with Shield Mk 10, Mounted on Tilting Platform Mk 1 Mod 1 Installed on <i>Navy Barge</i> YC 301 at Navy Yard, Washington, DC	28 Jul 44	R	
4728	Report of Test and Inspection of Synchro Motors Type 3F Mk 9 Mod 7 Volts 115/90 AC	13 Jul 44	R	
*4730	Vibration Data for Design of Elastic Supports for Rangefinders <i>USS HOUSTON</i> (CL 81) Main Battery Directors and Turrets Nos 2 and 3	.....	..	
4731	Report of Test and Inspection of Synchro Differential Generator Type 1DG Mk 1 Mod 1 to Replace Differential Motor Type 1D and Tests of Other Synchro Systems	8 Aug 44	R	
4733	Report of Test to Determine Voltage Gradients and Harmonic and Quadrature Voltage at Correspondence of Synchro Control Transformers	24 Aug 44	R	
4735	Report of Test and Inspection of Synchro Control Transformers Type 1CT Mk 5 Mod 6	24 Aug 44	R	
4737	Report of Tests to Check the Synchronizing Times of Synchro Systems Specified in OS 671	24 Aug 44	R	
4738	Report of Tests to Measure the Torque Gradient of Synchro by Applying Predetermined Torque and Measuring the Resulting Displacement	6 Sep 44	R	
4739	Report of Tests and Inspection of Synchro Motors Mk 9 Mod 3 Type 3F Volts 115/90	30 Oct 44	R	Rev A
4740	Report of Tests and Inspection of Synchro Control Transformers, Type 1CT Mk 5 Mod 1, Volts 90/55, Submitted for Type Approval by the Arma Engineering Corp	28 Sep 44	R	
*4741	Vibration Data for Design of Elastic Supports for Rangefinders CA 71	.....	..	
4742	16" Projectile Hoist Mk 7 and Mods, 16" Projectile Hoist Mk 8 and Mods BBs 55 to 64, Method of Testing Upper and Lower Cylinder Head Buffers on Projectile Hoist Hydraulic Cylinder Aboard Ship	25 Sep 44	R	
*4743	Type Approval Tests of 40-mm Mount Mk 1 Twin With WL Maxson Corp Power Drive	.....	..	
4744	Type Approval Tests of 40-mm Single Army M3 Gun Mount with United Shoe Machinery Corp Power Drive	20 Apr 45	R	
4745	Report of Tests to Determine a Method of Measuring Side Shake of Synchro Shafts	1 Nov 44	R	
4746	Report of Shock and Lag Tests of Limit Switch Mk 5 with Latches Modified for Less Lag	25 Sep 44	R	
4747	Report of Test and Inspection Synchro Control Transformer Type 5CT Mk 3 Mod 5 Volts 90/55 AC, Submitted for Type Approval by the Control Instrument Co	31 Mar 45	R	
4748	Report of Amperage Tests to Determine the Location of Synchro Capacitors in Simulated Change of Range Circuits to the Change of Range Receiver in the Rangefinder of Gun Director Mk 37 Equipped with Radar Equipment Mk 12 and in Simulated Change of Elevation and Bearing Circuits Using Slewing Sight Mk 2	4 Nov 44	R	

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OD No.	Title	Date	Class	Remarks
4749	Ordinance Data Type Approval of 40-mm Twin Gun Mount Mk 1 Mod 2 with General Electric Amplidyne Power and Control System Under the Provision of OD 4667	25 Jan 45	R	
4750	Type Approval Tests of Electric-Hydraulic Equipment for 8" Training Gear, CA 68 Class, Ford Instrument Co	27 Apr 45	R	
4751	Report of Test and Inspection, Special Synchro Motors, Type 5SF Mk — Mod 4, 400 Cycle, Single Phase, AC, Volts 115/90, Submitted for Type Approval by the Bendix Aviation Corp	14 May 45	R	Rev A
*4752	Vibration Data for Design of Elastic Supports for Rangefinders in Turrets Nos 1, 2 and 3 CL 64	.....	..	
*4753	Vibration Data of Elastic Supports for Main Battery Directors Nos 1 and 2 Rangefinders CL 49	.....	..	
4754	Report of Tests Measuring the Amperage in the Primary and Secondary and Balance of the System with Low Impedances in the Rotor of the Type 5 HCT Synchro Control Transformer	15 Nov 44	R	
4755	Report of Test and Inspection Special Synchro Motors Type 5SF Mk — Mod 3, 400 Cycle, Single Phase, AC, Volts 115/90	14 May 45	R	Rev A
4756	Report of Test and Inspection of Synchro Capacitor Type 2C Mk 13 Mod 2, Submitted for Type Approval by the General Electric Co	17 Jan 45	R	
4757	Report of Test and Inspection of Synchro Capacitor Type 1C Mk 12 Mod 2, Submitted for Type Approval by the General Electric Co	17 Jan 45	R	
4758	Report of Test and Inspection of Synchro Capacitor Type 9C Mk 3 Mod 2, Submitted for Type Approval by the General Electric Co	17 Jan 45	R	
4759	Report of Test and Inspection of Synchro Capacitor Type 3C Mk 1 Mod 2, Submitted for Type Approval by the General Electric Co	17 Jan 45	R	
4760	Report of Quantitative Analysis of Photographic Records of Resiliently Mounted Rangefinders in Main Battery Director No. 1 and Main Battery Director No. 2 of USS ST. LOUIS, CL 49	14 Sep 44	D	
4761	Report of Test and Inspection DC Motors, 3/4 HP, 230 Volts, DC, 3700 RPM, Submitted for Type Approval Tests by the Diehl Mfg. Co., Part 1—Initial Tests of Motors; Part 2—Overload Characteristics of Motors	2 Jul 45	R	Rev A
4762	Report of Test of 5"/54 Cal Pilot Powder Hoist Mk 6 and Projectile Hoist Mk 6, and Vickers Inc, Electric Hydraulic Power Drive Equipment	27 Dec 44	R	
*4763	Type Approval Tests of 40-mm Single Mounts Mk 3 Mod 3 with Power Drives and Control Furnished by W. L. Maxson Corp Both with Heavy and Light Power Drives	.....	R	
4764	Report of Tests to Determine Characteristics in Synchro Systems Composed of One Type 6G Generator, Two Type 6DG Differential Generators, Ten Type 5 HCT Control Transformers	13 Feb 45	R	
4765	Report of Tests and Inspection of Synchro Capacitor Box Mk 2 Mod 1 Ordnance Dr'g No 427013	13 Feb 45	R	
4766	Report of Test and Inspection of Synchro Transformers Type 5 CTB Mk 8 Mod 2, Volts 90/55, Submitted for Type Approval by General Electric Co	24 Feb 45	R	
4767	Report of Test and Inspection Synchro Differential Motors Type 3D Mk 3 Mod 3, Volts 90/90, Submitted for Type Approval by the Ford Instrument Co	14 May 45	R	Rev A
4768	Report of Accuracy and Current Tests of Two Synchro Systems when Connected Mechanically Together	24 Feb 45	R	

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OD No.	Title	Date	Class	Remarks
4769	Report of Test and Inspection Synchro Generator Type 7HG Mk 9 Mod 5, Volts 115/90, Submitted for Type Approval by the Control Instrument Co	19 Nov 45	R	Rev A
*4770	Instructions for Dismantling Gun Slide Assembly for a 5"/38 Cal Single Mount and Installing the Modified Oscillating Unit of a 155-mm Howitzer M1	.....	D	
4771	Suitability Test of Denison Hydraulic Motor Model MA-15-CP Dr'g No. 1-1848-BX Denison Engineering Co	24 Feb 45	R	
*4772	Test of 40-mm Gun Mounts Mk 3 Mod 4, Serial No. 4389 and 40 -mm Mount M2 (Army) Serial No. 21110 with MIT Controls	.....	..	
4773	Report of Test and Inspection AC Motors, 3/4 HP, 440 Volt, 3 Phase, 60 Cycle, 3450 RPM, Submitted for Type Approval Tests by the Leland Electric Co	14 Mar 45	R	
4774	Report of Tests to Determine the Characteristics of 60 Cycle Synchros when Operated from 400 Cycle Source of Power	24 Feb 45	R	
4775	Gun Director Mk 37 Mods, Report of Test on 3/4" and 3/8" Dia. Flexible Shafts Between the Change of Range Receiver and Rangefinder	30 Mar 45	R	
4776	Gun Director Mk 37 Mod 53 with Radar Antenna Mount Mk 12 Mods 4, 6, and 9 and Radar Equipment Mk 12 and 22, Vibration and Error Tests	13 Mar 45	R	
4777	5"/54 Cal AA Single Gun Mount Mk 39 Mod 0, Equipped with Powder Hoist Mk 6 Mod 0, Projectile Hoist Mk 6 Mod 0, Shield Mk 54 Mods 0 or 1, Sight Mk 40 Mod 0 (Telescopic) and Sight Mk 43 Mods 0 and 1 (Open)—Installation Instructions	28 Apr 45	R	Rev A
4778	5"/54 Cal AA Single Mounts for CVBs 41 to 43—Method of Testing after Installation Aboard Ship	6 Jul 45	R	
4779	Assembly Rocket Launcher Mk 101 Mod 0, Assembly Rocket Launcher Mk 101 Mod 1—Strength Test	31 Mar 45	C	
*4780	Report of Tests and Inspection for Synchro Coercion Data (Army 5D) for 40-mm Power Drive Mk 10 Mods 0, 1, 2	.....	..	
*4781	Report of Test and Inspection Synchro Control Transformers Type 3HCT Mk 7 Mod 4	.....	..	
4782	Report of Test and Inspection Synchro Motors Type 1F Mk 8 Mod 2A, Volts 115/90, Submitted for Type Approval by the General Electric Co	25 Apr 45	R	
4783	Report of Test and Inspection Rocket Launcher Assembly Mk 102 Mod 0, Equipped with Power Drives Mk 4 Mod 3, Manufactured by General Electric Co.; and Rocket Hoist Mk 1 Mod 0, Manufactured by Vickers Inc	19 May 45	R	
4784	Special Accelerated Life Test of 16" Elevating Gear Drive and Control (Waterbury-General Electric) in a Shop Setup Simulating Sustained Battle Firing Conditions	24 May 45	R	
4785	Synchro System Tests One Type 7G Generator Transmitting to the Rotors and Six Type 6G Generators, Transmitting to the Stators of Thirty-Eight Type 5D Differential Motors	20 Apr 45	R	
4786	Gun Director Mk 33 Mod 5 with Shield Mk 10—Test of Deck Tilt Computer	30 Apr 45	R	
4787	Type Approval Test of Multiple Cal .50 Machine Gun Mount M45, (Army), Navy Mk 31 Mod 0, Mfr. by Kimberly Clark, and Experimental Train and Elevation Limit Stops, Mfr. Maxson Corp.	2 Jun 45	R	
4788	Report of High Impact Shock Test of Type SL Transformers	25 Apr 45	R	
4789	Report of High Impact Shock Test of BuOrd Terminal Boards Drawing No. 8-Z-1141-1, Molded Glass Filled Melamine, Navy Type GMG, Phenolic Type CF120	20 Apr 45	R	

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OD No.	Title	Date	Class	Remarks
4790	Report of Test and Inspection Synchro Differential Motors Type 1D Mk 1 Mod 1, Volts 90/90, Submitted for Approval by the Arma Corp	26 Apr 45	R	
4791	Test of 12" Powder Hoist Mk 16 Mod 2.....	22 Jun 45	R	
4792	Test of 12" Powder Hoist Mk 17 Mod 8.....	5 Jul 45	R	
4793	Test of 12" Projectile Hoist Mk 16 Mod 2.....	19 May 45	R	
4794	Test of 12" Projectile Hoist Mk 17.....	18 Jun 45	R	
4795	Report of Test and Inspection Synchro Control Transformer Type 3HCT Mk 7 Mod 4, Volts 90/55, AC Cycle	21 Nov 45	R	Rev A
4796	Report of Test and Inspection Navy Synchro Systems Using Army Synchro Differential Motor Type XIX Serial No. H-45, Volts 100/100	17 May 45	R	
4797	Report of Initial Test of Rocket Launcher Assembly Mk 101 Mods 0 and 1	25 Apr 45	R	
4798	Report of Tests Determining the Static Accuracy of Synchro Control Transformers Using an Auto Transformer	19 May 45	R	
*4799	Vibration Data for Design of Elastic Supports for Main Battery Director Rangefinders—USS WICHITA and HELENA	.....	C	
*4800	Vibration Measurements Made on USS MAHAN.....	.....	C	
*4801	Report of Vibration Tests on USS BROOKLYN.....	.....	C	
*4802	Studies of Vibration and Fire Control Instruments and Supporting Structures Aboard USS MAHAN	.....	C	
*4803	Studies of Vibration of Fire Control Instruments and Supporting Structures Aboard USS PHILADELPHIA	.....	C	
*4804	Vibration Records of Rangefinders in No. 3 Turrets of USS NORTHAMPTON (CA 26) and USS PENSACOLA (CA 24) with and without Rubber Sandwich Suspensions	.....	C	
*4805	Report on Measurement of Vibration of Fire Control Instruments and Supporting Structures aboard USS INDIANAPOLIS	.....	C	
4806	Report of Test and Inspection of Power Drive Mk 4 Using Synchro Control Transformers Type 1CT Mod 2, Type 1CT Mk 5 Mods 3A and 4	10 May 45	R	
4807	Report of Test of Firing Solenoid Mk 21 Mod 0, Firing Solenoids Mk 22 Mods 0 and 2 When Operated from Low Voltage Supply used on 40-mm Gun Mounts	14 May 45	R	
4808	Report of Shock Test of Intervalometer Mk 6.....	10 May 45	R	
4810	Report of Synchro System Test Loading a Type 7G Generator with Type 5DG Differential Generators Loaded with Type SCT Control Transformers and Type 5F Motors	23 Jun 45	R	
4811	Report of Voltage Gradient Test of Synchro Control Transformers	29 Jun 45	R	
4812	Report of Test and Inspection Synchro Control Transformer Type 1HCT Mk 11 Mod 2, Volts 90/55 AC Cycle	14 Sep 45	R	
4813	Report of Test and Inspection Synchro Capacitor Type 15C Mk 4 Mod 2	15 Nov 45	R	Rev A
4814	Report of Test and Inspection Synchro Motor Type 3F Mk 9 Mod 2, Volts 115/90, AC Cycle	26 Nov 45	R	Rev A
4815	Report of Test and Inspection Synchro Generator Type 3HG Mk 10 Mod 2, Volts 115/90 AC Cycle	10 Aug 45	R	
4816	Report of Test and Inspection Synchro Generator Type 7HG Mk 9 Mod 1, Volts 115/90, AC Cycle 60	14 Jan 46	R	
4817	Report of Test and Inspection Synchro Generator Type 6HG Mk 7 Mod 1, Volts 115/90, AC Cycle	19 Nov 45	R	
*4818	Report of Test and Inspection Synchro Differential Generator Type 6HDG Mk 10 Mod 1		D	

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OD No.	Title	Date	Class	Remarks
4819	Report of Test and Inspection Synchro Differential Generator Type 5HDG Mk 9 Mod 1, Volts 90/90, AC Cycle 60	18 Dec 45	R	
*4820	Report of Test and Inspection Synchro Generators Type 5HG400 Mk 12 Mod 2	.....	D	
*4821	Report of Test and Inspection Synchro Motors Type 5F400 Mk 12 Mod 2	.....	D	
*4822	Report of Test and Inspection Synchro Generator Type 5HG400 Mk 14 Mod 3	.....	D	
*4823	Report of Tests and Inspection Synchro Motors Type 1F400 Mk 7 Mod 3	.....	D	
*4824	Report of Test and Inspection Synchro Generator Type 5HG Mk 6 Mod 1	.....	D	
4826	Report of Test and Inspection Synchro Generator Type 6G Mk 2 Mod 6, Volts 115/90, AC Cycle 60	19 Nov 45	R	
4827	Report of Test and Inspection Synchro Motor Type 5HF Mk 11 Mod 1, Volts 115/90, AC Cycle	2 Oct 45	R	
4829	Report of Test and Inspection Synchro Control Transformer Type 3HCT Mk 7 Mod 2, Volts 90/55, AC Cycle 60	14 Sep 45	R	
4830	Report of Test and Inspection Synchro Differential Generator Type 1HDG Mk 13 Mod 3, Volts 90/90 AC Cycle	3 Oct 45	R	
4831	Instructions for Determining Firing Pin Striking Energy of 5" Firing Mechanisms	17 Oct 45	R	
4832	Suitability Test of Vickers Variable Speed Hydraulic Transmission Type A-16801	29 Oct 45	R	
*4833	Type Approval Tests of 3"/50 Cal Mount Mk 26 Fitted with Arma Power Drive Mk 31 Mod 0	.....	R	
4834	Report of Test and Inspection Synchro Capacitor Boxes Mk 1 Mod 0, Mk 2 Mods 0 and 1, Mk 3 Mod 0, Mk 4 Mod 0	10 Aug 45	R	
4835	Report of Hi Shock Test of Small Switches (Commercial).....	19 Oct 45	R	
4836	Test of 12" Rammer Mk 11.....	16 Oct 45	R	
4838	Report of Test and Inspection Synchro Generator Type 5G Mk 1 Mod 5, Volts 115/90 AC Cycle	8 Nov 45	R	
4839	Report of Test and Inspection Synchro Motor Type 5F Mk 4 Mod 5, Volts 115/90, AC Cycle	8 Nov 45	R	
4840	Report of Test and Inspection Synchro Capacitor Type 7C Mk 15 Mod 2	22 Oct 45	R	
*4841	Report of Test and Inspection Synchro Generator Type 6G, Synchro Differential Generator Type 6DG Mk 2 Mod 5, Mk 5 Mod 5	.....	D	
*4842	Report of Test and Inspection Synchro Motors Type 1HF Mk 14 Mod 3	.....	D	
*4843	Report of Test and Inspection Synchro Motor Type 1F Mk 8 Mod 5	.....	D	
*4844	Report of Test and Inspection Synchro Differential Generator Type 6HDG Mk 10 Mod 5	.....	D	
*4845	Report of Test and Inspection Synchro Generator Type 6HG Mk 7 Mod 5	.....	D	
4946	Report of Test and Inspection Synchro Motor Type 3F Mk 9 Mod 7, Volts 115/90, AC Cycle 60	9 Jan 46	R	
*4947	Report of Test and Inspection Synchro Differential Generator Type 6DG Mk 6 Mod 5	.....	D	
*4948	Report of Test and Inspection Synchro Generator Type 6G Mk 2 Mod 5	.....	D	
*4949	Report of Test and Inspection Synchro Differential Generator Type 1HDG Mk 13 Mod 1		D	

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OD No.	Title	Date	Class	Remarks
4950	Report of Hi Shock Test of Sight Light Corporation Relay for Gun Captain's Control Panel Mk 24 Mod 0 and National Acme Relay	15 Feb 46	R	
5001	USS DD 513, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R	For Design and Research use only. Not for distribution
5002	USS DD 472, 5"/38 Cal AA Mounts Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R	Do
5003	USS DD 472, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	2 Oct 43	R	For Design and Research use only. Not for distribution
5004	USS DD 473, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R	Do
5005	DD 473, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	Jan 1944	R	Do
5006	USS DD 515, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Oct 43	R	Do
5007	USS DD 515, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Oct 43	R	Do
5008	USS DD 514, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R	Do
5009	USS DD 514, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R	Do
5010	USS DD 474, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R	Do
5011	USS DD 474, 5"/38 Cal AA Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Oct 43	R	Do
5012	USS DD 516, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R	Do
5013	USS DD 516, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	26 Oct 43	R	Do
5014	USS DD 617, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	26 Oct 43	R	Do
5015	USS DD 617, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Oct 43	R	Do
5016	DD 517, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	Jan 1944	R	Do
5017	DD 517, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Dec 43	R	Do
5018	DD 475, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	Jan 1944	R	Do
5019	DD 475, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Dec 43	R	Do
5020	USS DE 51, 21" AW Torpedo Tubes, Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
5021	DD 629, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Jan 44	R	Do
5022	DD 629, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Dec 43	R	Do
5023	DD 630, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Jan 44	R	Do
5024	DD 630, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Dec 43	R	Do
5025	CA 68, Accuracy Tests of Gun Train Receivers, Gun Elevation Receivers and Gun Director Train Indicator	24 Jun 43	D	
5026	USS DD 631, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Oct 43	R	Do

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OD No.	Title	Date	Class	Remarks
5027	DD 631, 5"/38 Cal AA Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Jan 44	R	For Design and Research use only. Not for distribution
5028	CV 17, Accuracy Test of Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	3 Jul 43	D	Do
*5029	DD 642, 5"/38 Cal AA Mount Mk 30 Mods 18, 19, 30, 31. Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	..	Do
5030	USS DD 582, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
*5031	USS DD 642, Report of Shipboard Tests and Inspection of Ordnance Equipment, 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 and 5, Mk 15 Mods 1, 2, 3, 4 and 5	.....	..	For Design and Research use only. Not for distribution
*5033	DD 582, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mounts, Mk 30 Mods 41, 42 and 60	.....	..	For Design and Research use only. Not for distribution
5034	USS DD 581, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	Dec 1943	R	Do
*5036	USS DD 583, Report of Shipboard Tests and Inspection of Ordnance Equipment, 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 and 5, Mk 15 Mods 1, 2, 3, 4 and 5	.....	..	Do
5038	USS DD 644, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
5040	USS DE 54, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
5041	USS DE 676, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
5042	USS DE 59, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
5043	USS DE 60, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
5044	USS BOSTON CA 89, Accuracy Test Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	29 Sep 43	D	
5046	USS DD 650, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	4 Feb 44	R	Do
5047	USS DE 62, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R	For Design and Research use only. Not for distribution
5048	USS DE 63, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R	Do
5049	USS DD 677, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R	Do
5051	USS DD 651, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	4 Feb 44	R	Do
*5052	DD 584, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	.....	..	Do
5053	USS DD 584, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	4 Feb 44	R	Do
*5055	DD 652, Report of Shipboard Tests and Inspection of Ordnance Equipment, 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 and 5, Mk 15 Mods 1, 2, 3, 4 and 5	.....	..	Do
*5056	DD 653, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	.....	..	Do
5058	USS DD 643, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	4 Feb 44	R	Do

*Under preparation.

NUMERICAL LISTING—NAVORD ODs

OD No.	Title	Date	Class	Remarks
*5059	USS DD 585, Report of Shipboard Tests and Inspection of Ordnance Equipment, 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 and 5, Mk 15 Mods 1, 2, 3, 4 and 5	.....	..	Do
*5060	DD 585, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mounts Mk 30 Mods 41, 43, and 60	.....	..	Do
5061	DE 68, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Mar 44	R	Do
5062	DE 679, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Mar 44	R	Do
5063	USS DE 57, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R	Do
5064	DE 53, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5065	DE 56, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Mar 44	R	Do
5066	USS DE 675, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R	For Design and Research use only. Not for distribution
*5067	DD 688, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	.....	..	Do
5068	USS DD 688, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5069	USS DE 70, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
*5070	DD 689, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	.....	..	Do
5073	USS DE 681, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
5074	CA 70, Accuracy Test, for Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	17 Feb 43	R	
*5075	DD 690, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	.....	..	Do
*5076	DD 690, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 and 5, Mk 15 Mods 1, 2, 3, 4 and 5	.....	..	Do
*5077	DD 586, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	.....	..	Do
*5078	DD 691, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	.....	..	Do
*5080	DD 586, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 and 5 Mk 15 Mods 1, 2, 3, 4 and 5	.....	..	Do
5081	USS DE 683, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
5082	USS DE 682, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
5083	USS DE 697, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
5084	USS CV 18, Accuracy Test, Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicators	24 Feb 44	D	

*Under preparation.

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OD No.	Title	Date	Class	Remarks
5087	USS DE 696, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
*5089	DE 684, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
*5090	DD 722, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 and 5, Mk 15 Mods 1, 2, 3, 4 and 5	.....	..	Do
5091	USS DE 684, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
5092	USS DE 789, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
5093	USS DE 698, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
5094	USS DE 790, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
*5095	DE 685, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
5096	USS DD 723, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
*5097	DD 723, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 and 5, Mk 15 Mods 1, 2, 3, 4 and 5	.....	..	For Design and Research use only. Not for distribution
5098	USS DD 722, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
*5099	DD 663, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	.....	..	Do
*5100	DD 663, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 and 5, Mk 15 Mods 1, 2, 3, 4 and 5	.....	..	Do
5101	Rangekeeper Mk 10 Mods 13, 36 or 53, Table of Corrections for Control of 6"/47 Cal Guns Firing 105 lb HC Projectiles	14 Aug 43	R	s
5102	Computer Mk 1 Mods 3, 4, 7 or 11 Table of Corrections for Control of 6"/47 Cal Guns Firing 105 lb HC Projectiles (<i>Preliminary</i>)	6 Aug 43	R	
5103	Computer Mk 1 Mods 3, 4, 7, 8, 11 or 12, Tables of Corrections for Control of 8"/55 Cal Guns Firing 260 lb HC Projectiles (<i>Preliminary</i>)	11 Feb 44	R	Rev A
5104	Rangekeeper Mk 10 Mod 0, Serial Nos 13, 14, 15 and 16, Instructions for Altering to Permit Transmission of Gun Elevation Order Indicating at 2 and 36 Speeds	31 Aug 43	R	
5105	Computer Mk 1 Mod 7, Alteration of Gearing to Provide for Receiving Ship Speed at 25 Knots per Revolution	9 Sep 43	D	
5106	Computer Mk 1 and Mods. Instructions for Altering iv Limits from 2,600 and 2,450 fs to 2,600 and 2,350 fs	Undated	R	
5107	Target Course Indicator Mk 1 Conversion from Target Angle Repeater Mk 1	3 Oct 43	R	
5108	Computers Mk 1 Mods 4, 6, and 7, Serial Numbers under 420 Alteration to Provide for Mounting and Operating with Target Course Indicator Mk 1	30 Oct 43	R	
5109	Instruction Book for Computer Mk 6 Mod 3 (<i>Preliminary</i>).....	12 May 44	R	
5110	Rangekeeper Mk 10 Mods 9 or 29, 14 or 20, 30 or 37, Instructions for Altering iv Limits from 2,600 and 2,450 fs to 2,600 and 2,350 fs	23 Oct 43	D	

*Under preparation.

OD No.	Title	Date	Class	Remarks
5111	Rangekeeper Mk 10 Mods 9 or 31, 10 or 33, 13 or 36, 17 or 39, Instructions for Altering iv Limits from 2,600 and 2,450 fs to 2,600 and 2,350 fs	23 Oct 43	D	
5112	Rangekeeper Mk 10 Mods 44, 53, and 54. Instructions for Altering iv Limits from 2,600 and 2,450 fs to 2,600 and 2,350 fs	23 Oct 43	D	
5113	Rangekeeper Mk 7 Mod 16, Instructions for Converting From Rangekeeper Mk 7 Mod 6 or Mod 12 for use with 6" 105 lb HC Projectile and 6" 130 lb AP Projectile (<i>Preliminary</i>)	1 Dec 43	R	
5114	Director Hydraulic Control Mechanism Mk 1, Installation of Adjustable Needle Valve	19 Apr 44	D	Rev B
5115	Rangekeeper Mk 8 Mod 32, Instructions for Converting From Rangekeeper Mk 8 Mod 18 for use with 6" 105 lb HC Projectile (<i>Preliminary</i>)	5 Jan 44	R	Rev A
5116	Computer Mk 1 Mods 3 and 10, Alteration to Provide for Mounting of and Operating with Target Course Indicator Mk 1 (<i>Preliminary</i>)	2 May 43	R	Rev A
5117	Computer Mk 1 Mods 0, 1, 2 and 9, Alteration to Provide for Mounting of and Operating with Target Angle Control Switch (<i>Preliminary</i>)	16 Dec 43	R	
5118	Installation of Synchro Test Unit for Use with Train Traverse and Elevation Power Drives Mk 1 Mods 0, 1 and 2, Train and Elevation Power Drives Mk 1 Mods 0, 1, and 2 (<i>Preliminary</i>)	27 Nov 43	R	
5119	Computer Mk 1 Mods 3, 4, 7 or 11 Tables of Corrections for Control of 16"/50 Cal Guns Firing 1900 lb HC Projectiles Using Service Charges for 2700 lb AP Projectiles	6 Jan 44	R	
5120	Computer Mk 3 Mod 6, Instructions for Converting from Computer Mk 3 Mod 3 for use with 6" 105 lb HC Projectile (<i>Preliminary</i>)	12 May 44	R	Rev A
5121	Computer Mk 3 Mod 7, Instructions for Converting from Computer Mk 3 Mod 4 for use with 8" 260 lb HC Projectile (<i>Preliminary</i>)	12 May 44	R	Rev A
5122	Instruction Book for Rangekeeper Mk 8 Mods 15 and 55 (<i>Preliminary</i>)	31 May 44	R	
*5123	Electric Hydraulic Equipment for 12" Training Gear Mk 1' and 12" Elevating Gear Mk 11 Mods 0, 1 and 2	.....	..	
5124	Rangekeeper Mk 8 Mod 33, Instructions for Converting from Rangekeeper Mk 8 Mod 13 for use with 8" 260 lb HC Projectile (<i>Preliminary</i>)	25 Sep 44	R	Rev B
5125	Rangekeeper Mk 8 Mod 31, Instructions for Converting From Rangekeeper Mk 8 Mod 17 for use with 6" 105 lb HC Projectile (<i>Preliminary</i>)	27 Jan 44	R	
5126	Computer Mk 6 Mod 0, Instructions for Adapting for Use with 8" 260 lb HC Projectile	29 Feb 44	R	
5127	Instructions for Providing Red Illumination on Instruments Manufactured by Ford Instrument Co. (<i>Preliminary</i>)	11 Sep 44	R	Rev A
5128	Instruction Book for Target Bearing Receiver Mk 2.....	12 Feb 44	R	
*5129	Computer Mk 1B Mod 0 and 1, Star Shell Computer Mk 2, Change of Range Receiver Mk 1	.....	..	
5130	Computer Mk 6 Mod 1, Instructions for Adapting for use with 6" 105 lb HC Projectile (<i>Preliminary</i>)	19 Feb 44	R	
*5131	Rangekeeper Mk 8 Mod 45, Instructions for Converting from Rangekeeper Mk 8 Mod 28	.....	..	
5132	Rangekeeper Mk 1 Mods 20 and 21, Setting Instructions for use with Guns Having 1/25 Twist Rifling (<i>Preliminary</i>)	26 Feb 44	R	

*Under preparation.

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OD No.	Title	Date	Class	Remarks
5133	Rangekeeper Mk 10 Mods 43, 58, 59 and 64, Instructions for Altering for Installation on BBs 45, 46	11 Mar 44	R	
5134	Instruction Book for Rangekeeper Mk 8 Mods 28, 29, 30 and 45, (Preliminary)	28 Mar 44	R	Used with OD 3129
5138	Instruction Book for Rangekeeper Mk 8 Mods 35 and 39 (Preliminary)	15 Apr 44	R	Used with OD 3178
5139	Instruction Book for Computer Mk 6 Mods 16, 17 (Preliminary)...	29 Apr 44	R	Used with OD 4211
5140	Rangekeeper Mk 8 Mods 36 and 40 Instruction Book for (Preliminary)	15 Apr 44	R	Used with OD 3131
5141	Rangekeeper Mk 8 Mods 47 and 51, Instructions for Converting Rangekeeper Mk 8 Mod 6 to Mk 8 Mod 51 and Mk 8 Mod 27 to Mk 8 Mod 47 for use with 8" 335 lb AP and 260 lb HC Projectiles (Preliminary)	18 Oct 44	R	Rev B
5142	Rangekeeper Mk 8 Mods 48, 49 and 50, Instructions for Converting Rangekeeper Mk 8 Mod 45 to Mk 8 Mod 48, Mk 8 Mod 29 to Mk 8 Mod 49, Mk 8 Mod 30 to Mk 8 Mod 50 for use with 8" 335 lb AP and 260 lb HC Projectiles (Preliminary)	13 Oct 44	R	Rev C
5144	Instruction Book for Rangekeeper Mk 8 Mods 38 and 42 (Preliminary)	22 May 44	R	Rev A. Used with OD 4173
5146	Computer Mk 1 Mods 4, 5, 6 and 7 Instruments Nos below 519, Instructions for the Removal of Solution Indicator Generators and Connecting Material (Preliminary)	18 Aug 44	R	
5147	Instruction Book for Rangekeeper Mk 8 Mods 37 and 41.....	Undated	R	Used with OD 4173
5148	Searchlight Elevation Indicator Mk 3 Mod 1, Instructions for Altering to Receive Orders at 2 and 36 Speeds (Preliminary)	9 May 44	R	
5149	Rangekeeper Mk 8 Mods 35, 36, 37, 38, 39, 40, 41, 42, Instructions for Altering to Transmit Gun Elevation Order Indicating at 6 and 72 Speeds (Preliminary)	3 May 44	R	
5153	Rangekeeper Mk 8 and Mods, Serial No 23 and Higher, Instructions for Altering to Add Present Range Transmitter	1 Jun 44	R	
5155	Instruction Book for Rangekeeper Mk 8 Mod 46 (Preliminary)...	20 Jul 44	R	Used with OD 4173
5157	Computer Mk 1 and Mods, Adjustment Procedure.....	8 Aug 44	R	Used with OD 4174
5158	Computer Mk 1 Mod 7, Instructions for Converting to Mod 13 (Preliminary)	21 Jun 44	R	
5160	Sonar Trunnion Tilt Corrector Mk 1--Instruction Book.....	30 Jun 44	R	
5226	Ordnance Equipment List for Motor Torpedo Boats PT 71 Class..	21 Oct 44	R	Rev A. Supersedes OD 4418
5227	Ordnance Equipment List of PCs 1376-1465, 136 ft Submarine Chasers (BCS)	14 Sep 43	R	Supersedes OD 4453
5228	Ordnance Equipment List for Aircraft Carriers, Small--CVL 22 Class	14 Sep 45	R	2nd rev
5229	Ordnance Equipment List for Aircraft Carrier CV 6.....	8 Oct 43	R	Supersedes OD 2042
5230	Ordnance Equipment List for Aircraft Carriers, Escort, CVE 55 Class	20 Dec 44	R	Rev A. Supersedes OD 3796
5231	Ordnance Equipment List for Minesweepers--AM 57 Class.....	18 Oct 45	R	2nd rev
5232	Ordnance Equipment List for Seaplane Tenders, Large--AV 7 Class	26 Mar 45	R	1st rev. Supersedes OD 3519
5233	Ordnance Equipment List for Seaplane Tenders, Small AVP 10 Class	29 Nov 44	R	Rev A. Supersedes OD 3520
5234	Ordnance Equipment List for Minesweepers--AM 136 Class (180 feet)	16 Aug 44	R	Rev A. With Change 1 dated 25 May 45. Supersedes OD 3691
5235	Ordnance Equipment List for Landing Ships, Tank--LST (Excepting LST 1153 Class)	4 Jul 45	R	1st rev
5236	Ordnance Equipment List for Destroyer Tenders--AD 17 Class...	19 Jun 45	R	1st rev. Supersedes OD 3680
5237	Ordnance Equipment List for PC 676 Class, 110 ft Submarine Chasers (SC)	24 Sep 43	R	Supersedes OD 3794

OD No.	Title	Date	Class	Remarks
5238	Ordnance Equipment List for <i>Light Cruisers</i> CL 95 Class.....	21 Jul 44	R	Supersedes OD 3602
5240	Ordnance Equipment List for PCE 842 Class, 180 ft <i>Patrol Craft, Escort</i>	16 Nov 43	R	Supersedes OD 3769
5241	Ordnance Equipment List for PC 452 Class, 173 ft <i>Submarine Chasers</i>	9 Nov 43	R	
5242	Ordnance Equipment List for SCs 1467, 1468, 1472, 1473, 112 ft <i>Submarine Chasers</i>	3 Mar 44	R	Supersedes OD 4490
5243	Ordnance Equipment List for <i>Battleships</i> —BBs 57 to 60.....	19 Apr 45	R	Supersedes OD 4439
5244	Mk 6 and Mk 6 Mod 1, Mk 7 and Mk 7 Mod 1, Left and Right Hand Bomb Shackles	12 Jul 43	R	Issued to the British only
5245	Routine Test Data 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 Cal Triple Turret) Electric Hydraulic Equipment	27 May 43	R	
5246	CA 45, Location of 8" and 5" Guns, Directors and 36" Searchlights (Parallax Data)	24 Jul 43	D	Supersedes SK 81429
5247	CLs 119 to 121, Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	30 Dec 43	D	
5249	AA Ballistic Data for 6"/47 Cal Gun 2,590 fsiv.....	Jul 1943	R	
*5250	Location of 14" and 5" Guns, Directors and 36" Searchlights Parallax Data BB 40	.....	..	
5252	AA Ballistic Data for 8"/55 Cal Gun 2,600 fsiv 260 lb HC Projectile Mk 24, 45 Second Mechanical Time Fuze Mk 18	24 Jul 43	R	With Change 1 dated 3 Dec 43
5253	Bomb Rack Mk 47 and Mod 1.....	8 Sep 43	R	
5254	Bomb Container Mk 3 and Mod 1.....	8 Sep 43	R	
5255	Bomb Rack Mk 43 Mod 2.....	8 Sep 43	R	
5256	Electric Hydraulic Equipment for 5" Twin Rammers and Loading Machines, Summary of Routine Tests	8 Jan 43	R	
5257	Ordnance Equipment List for <i>Landing Craft, Infantry</i> , (Large) LCI (L) 351 Class	24 Sep 43	R	
5258	Mk 2 Mk 2 Mod 1 and Mk 2 Mod 2 Intervalometer, Operation and Service Manual	7 Dec 43	R	
5259	CGs 65-68, 70 and 71, Location of 5" Guns, Directors (Parallax Data)	Apr 1944	D	
*5260	Routine Test for 8" Upper Powder Hoist.....	.....	..	
*5261	Routine Tests for 16" Projectile Hoist.....	.....	..	
*5262	Type Test Reports 6" Powder and Projectile Hoists.....	.....	..	
5263	Routine Test Data Power Drives for 16" Projectile Ring Mk 2 (16"/50 Cal 3 Gun Turrets) Electric Hydraulic Drive	3 Aug 43	R	
5264	Routine Test Data Power Drives for 16"/50 Cal Powder Hoist for BBs 65 to 71 incl Electric Hydraulic Equipment	3 Aug 43	R	
5265	Ordnance Equipment List for PCE(R) 848 Class, 180 ft <i>Patrol Craft, Escort (Rescue)</i>	Dec 1943	R	Supersedes OD 3769
5266	DDs 357 to 363, 381, 383, and 394 to 396 incl Location of 5" Guns, Director and 36" Searchlights (Parallax Data)	11 Oct 43	D	
5267	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for Gun Director Mk 33 Mods 14 to 33—Training Gear—Electric Hydraulic Drive	25 Sep 43	R	With Addendum A dated 9 Oct 44
5268	Mk 18 Mods 1 and 2 Torpedoes—Specifications.....	18 Jan 45	R	Rev I
5269	Navy Single 40-mm Gun Mount—Maxson Electric Drive.....	Undated	C	
*5270	Summary of Routine Tests for 16" Rammers.....	.....	..	
5271	Ordnance Equipment List for <i>Net Cargo Ships</i> , AKN 1 Class....	14 Dec 43	R	
5272	AG 17, <i>USS WYOMING</i> —Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	12 Apr 45	D	Rev A
5273	Ordnance Equipment List for <i>Auxiliary Cargo Attack</i> , AKA 21 Class	27 Sep 44	R	Rev A

*Under preparation.

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OD No.	Title	Date	Class	Remarks
5274	Ordnance Equipment List for <i>Transports</i> , Attack—APAs 33-43, 45-56, 91-116	5 Sep 45	R	1st rev. With Change 1 dated 29 Nov 45
5276	Ordnance Equipment List for Heavy <i>Cruisers</i> CA 139 Class.....	29 May 44	R	
5277	Ordnance Equipment List for <i>District Craft</i> Mounting 20-mm Guns	8 Oct 43	R	
5278	Routine Test Data, Power Drives for 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3, Electric Hydraulic Equipment	3 Sep 43	R	
5279	AGPs 6 to 9, Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	Dec 1943	D	
5280	APs 106 and 107, (Formerly CMs 6 and 7) Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	Dec 1943	D	
5281	Ordnance Equipment List for Internal Combustion Engine <i>Repair Ships</i> , ARG 1 and ARG 2 Classes	22 Dec 43	R	
5282	Ordnance Equipment List for <i>Motor Torpedo Boat Tenders</i> AGP 12 Class	13 Dec 43	R	
*5283	Ordnance Equipment List for AVP 4.....	.....	..	
5284	Ordnance Equipment, List for <i>Aircraft Carriers</i> , Small—CVL 48 Class	12 Sep 45	R	2nd rev
5285	AA Ballistic Data for 16"/50 Cal Gun 2,615 fsiv 1900 lb HC Projectile Mk 13, 45 Second Mechanical Time Fuze Mk 42	18 Nov 43	R	With Change 1 dated 4 Apr 44
5286	Ordnance Equipment List for <i>Transports</i> , AP 110 Class.....	2 Mar 45	R	1st rev. Supersedes ODs 3788 and 4394
5287	Ordnance Equipment List for <i>Cargo Ships</i> AK 70 Class.....	3 Mar 44	R	
5288	Ordnance Equipment List for <i>Ammunition Ships</i> —AE 3 Class...	19 Jun 45	R	1st rev
5289	Ordnance Equipment List for <i>Rescue Tugs</i> , ATR Class.....	Dec 1943	R	Supersedes OD 3775
5290	Ordnance Equipment List for <i>Repair Ships</i> AR 13 Class.....	11 May 44	R	
5291	Ordnance Equipment List for <i>Landing Ship</i> , Medium—LSM Class	19 Jun 45	R	1st rev
5292	Ordnance Equipment List for <i>Motor Minesweepers</i> YMS 1 Class..	Dec 1943	R	Supersedes OD 3600
5293	Ordnance Equipment List for <i>Store Ship</i> AF 28 Class.....	3 Feb 44	R	
5294	Ordnance Equipment List for <i>Oilers</i> AO 25 Class.....	16 Jan 45	R	Rev A. Supersedes ODs 4449 and 4477
5295	Ordnance Equipment List for <i>Ocean Going Tugs</i> , AT 67 Class....	12 Jun 44	R	Rev A. Supersedes OD 3692
5296	AA Ballistic Data for 8"/55 Cal Gun 2,700 fsiv 260 lb HC Projectile Mk 24, 45 Second Mechanical Time Fuze Mk 18	18 Nov 43	R	
5297	Ammunition Assemblies.....	14 Jul 44	R	Rev A. With Change 1 dated 28 Dec 44, Change 2 dated 5 Mar 45, Change 3 dated 28 Jul 45, Change 4 dated 21 Aug 45
*5298	Electric Hydraulic Equipment for 8" Slide Mk 20 and Mk 20 Mod 1	.....	..	
5299	Ordnance Equipment List for DMS 1 Class.....	17 Mar 44	R	
5300	Ordnance Equipment List for <i>Light Mine Layers</i> —DM 15 Class..	18 May 45	R	1st rev
*5301	20-mm Mount Mk 15, Instructions.....	.....	..	
*5302	20-mm Mount Mk 17, Instructions (Bell Aircraft Co).....	.....	..	
*5303	20-mm Mount Mk 18, (United Shoe Machinery Co).....	.....	..	
*5304	Parallax Data, BBs 40, 41, 42, Location of 14" Guns, and Directors	.....	..	
5305	AA Ballistic Data for 16"/45 Cal Gun 2,560 fsiv 1900 lb HC Projectile Mk 13, 45 Second Mechanical Time Fuze Mk 42	27 Dec 43	R	With Change 1 dated Mar 1944
5306	CL 49, Location of 6" and 5" Guns, Directors and 36" Searchlights (Parallax Data)	8 Jan 44	D	
*5307	8" Projectile Hoist Mk 31 and Mk 31 Mods 1 and 2, 8" Powder Hoist Mk 36 and Mk 36 Mod 1 in 8"/55 Cal 3 Gun Turrets (CA 139 Class)	.....	..	

*Under preparation.

OD No.	Title	Date	Class	Remarks
5308	Ordnance Equipment List for <i>Amphibious Force Flagships</i> —AGC 1 Class	29 Nov 44	R	Rev A. With Change 1 dated 17 Feb 45, Change 2 dated 13 Nov 45.
5310	Ordnance Equipment List for <i>General Stores, Issue Ships</i> —AKS 5 and 7 Classes	15 Mar 45	R	1st rev
5311	Ordnance Equipment List for <i>Repair Ships, Landing Craft</i> , ARL 1 Class	6 Jan 45	R	Rev A
5312	Ordnance Equipment List for <i>Cargo Ship, Attack</i> AKA 53 Class..	22 Oct 45	R	2nd rev
5313	Ordnance Equipment List for <i>Auxiliary Transport, Attack</i> , APA 117 Class	1 Mar 44	R	
5314	Ordnance Equipment List for <i>Motor Gunboats</i> , PGM 1 Class....	8 Mar 44	R	
5315	Routine Test Data Power Drives for 8" Auxiliary Projectile Hoist Mk 6 Mods 3, 4 and 5 Electric Hydraulic Equipment	20 Nov 43	R	
5316	Routine Test Data, Power Drives for 8" Auxiliary Projectile Hoist Electric Hydraulic Equipment	20 Nov 43	R	
5317	Preparation and Use of Impulse Cartridges for 21"0 AW Torpedo Tubes	30 Jun 45	D	Supersedes OD 2701
5318	Preparation of Impulse Cartridges for Single Depth Charge Projector Mk 6	14 Jun 44	D	With Change 1 dated 29 Mar 45. Supersedes OCLs A36-42 and A36a-42 per OCL M22-44
5319	Routine Test Data for Power Drives for 5" Projectile Hoist Mk 4 Mods 6, 7, 10 and 11. 5" Powder Hoist Mk 4 Mods 6, 7, 10 and 11, 38 Cal Twin Mounts Mk 28 and Mk 32 Electric Hydraulic Equipment	21 Jan 44	R	Rev A
5320	Routine Test Data Power Drives for 8" Lower Powder Hoist Mk 33, Electric Hydraulic Equipment	15 Dec 43	R	
*5321	Installation, Operation and Maintenance Instructions for Model OBC Practice Attack Meter Equipment	.....	..	
5322	CLs 4 to 13, Location of 6" and 3" Guns, Directors and 36" Searchlights (Parallax Data)	31 Jan 44	D	
5324	Ordnance Equipment List for <i>Aircraft Engine Overhaul</i> and <i>Structural Repair Ships</i> ARV 1 Class	3 Mar 44	R	
5325	Ordnance Equipment List for <i>Submarine Rescue Vessels</i> —ASRs	18 Aug 45	R	1st rev
5326	Ordnance Equipment List for <i>Heavy Hull Repair Ships</i> ARH 1...	29 Apr 44	R	Supersedes OD 3694
5327	Ordnance Equipment List for <i>Salvage Vessels</i> , ARS 213 ft Class..	18 Sep 44	R	Supersedes OD 3648
5328	Ordnance Equipment List for <i>Torpedo Repair Barges</i> YRs 49-50..	3 Feb 44	R	
5329	CAs 33 and 35. Location of 8" and 5" Guns, Directors and 36" Searchlights (Parallax Data)	7 Dec 44	R	Rev A
5330	Routine Test Data Power Drives for 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11. 6"/47 Cal Triple Turret	6 Jan 44	R	
5331	Ordnance Equipment List for <i>Floating Dry Docks</i>	28 Feb 44	R	
5333	CL 42, Location of 6" and 5" Guns, Directors and 36" Searchlights (Parallax Data)	20 Mar 44	D	
5334	Location of 8" and 5" Guns, Directors, and 36" Searchlights (Parallax Data) CAs 134, 139-143, 148, 149	30 Mar 45	D	
*5335	Controlled Mine Mk 37, Description.....	.....	..	
5337	Routine Test Data Power Drives for 5" Projectile Hoist Mk 2 Mod 1 for 5"/38 Cal Mount Mk 30 Electric Hydraulic Equipment	14 Jan 44	R	
5338	Ordnance Equipment List for <i>Cargo Ships</i> AK 73 Class.....	25 May 44	R	
5339	Ordnance Equipment List for <i>APA</i> 106 Class.....	13 May 44	R	
5340	Ordnance Equipment List for <i>Destroyer Tenders</i> —AD 24 Class..	19 Apr 45	R	1st rev
5343	Ordnance Equipment List for 255 ft <i>Coast Guard Cutters</i> PGs..	9 May 44	R	
5344	Ordnance Equipment List for 83 ft <i>Coast Guard Cutters</i> CGCs..	19 Apr 44	R	

*Under preparation.

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OD No.	Title	Date	Class	Remarks
5345	AA Ballistic Data for 16"/45 Cal Gun 2,450 fsiv 1900 lb HC Projectile, 45 Second Mechanical Time Fuze	15 Apr 44	R	
*5346	Electric Hydraulic Equipment for 6" Projectile Hoist Mk 3 and Mk 3 Mods 1, 2 and 3 and 6" Powder Hoist Mk 3 and Mk 3 Mod 1 for 6"/47 Cal 2 Gun Turrets CL 146 Class	.....	..	
*5347	Electric Hydraulic Equipment for Elevating and Training Gears 8"/55 Cal 3 Gun Turrets CA 139 Class	.....	..	
*5348	Ordnance Data for Elevation Indicator Regulator for 8"/55 Cal 3 Gun Turrets CA 139 Class	.....	..	
*5349	Ordnance Data for Train Receiver Regulator 8"/55 Cal 3 Gun Turrets CA 139 Class	.....	..	
5350	Routine Test Data Power Drives for 5" Projectile Hoist Mk 4 Mods 10 and 11, 5" Powder Hoist Mk 4 Mods 10 and 11 5"/38 Cal Twin Mount Mk 32	24 Feb 44	R	
5351	Angle Solver Mk 10, Operating Instructions and Design Data...	1 Apr 44	R	
5352	Ordnance Equipment List for <i>Cargo Ships</i> AK 157 Class.....	4 Jul 44	R	
5353	Ordnance Equipment List for <i>Light Cruisers</i> —CL 55 Class.....	18 Dec 45	R	1st rev. Supersedes OD 3586
5354	Ordnance Equipment List for <i>Gasoline Tankers</i> , AOG 1 Class...	13 May 44	R	Supersedes OD 3644
5355	Ordnance Equipment List for <i>Gasoline Tankers</i> AOG 17 Class and 14 to 16, and 47	7 Nov 44	R	Rev A
5356	Ordnance Equipment List for <i>Net Laying Ships</i> AN 151 ft Class.	31 May 44	R	
5357	Ordnance Equipment List for <i>Net Laying Ships</i> , AN 194 ft Class.	31 May 44	R	Supersedes OD 4401
5358	Ordnance Equipment List for <i>Evacuation Transports</i> , APH 1 Class	6 May 44	R	
5359	Ordnance Equipment List for <i>Cargo Ship and Aircraft Ferry</i> AKV 1 Class	15 May 44	R	
5360	Ordnance Equipment List for <i>Auxiliary Mine Layer</i> —ACM 10..	1 Aug 45	R	1st rev
5361	Ordnance Equipment List for CM 11 Class.....	12 Jun 44	R	
5363	AA Ballistic Data for 14"/50 Cal Gun 2,750 fsiv 1275 lb HC Projectile, 45 Second Mechanical Time Fuze	28 Apr 44	R	
5364	Type Test Report, Train and Elevation Power Drive Mk 5 Mods 3, 4 and 5 for Twin Mounts and Elevation Power Drive Mk 5 Mods 0, 1 and 2 for Quad Mounts	25 May 44	R	
5365	AA Ballistic Data for 14"/45 Cal Gun 2,660 fsiv 1275 lb HC Projectile, 45 Second Mechanical Time Fuze	25 Apr 44	R	
5367	Ordnance Equipment List for <i>Landing Craft Support</i> , (Large) Mk 3—LCS(L)1 Class	24 Aug 44	R	
5369	Forgings for Lining or Relining of 3" to 16" Guns.....	28 Aug 45	R	Rev A
5370	USS DD 724, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Inspection of Ordnance Equipment	30 Sep 44	R	For Design and Research use only. Not for distribution
5371	USS DD 725, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
*5372	DE 580. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
*5373	DE 581. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
5374	USS DE 582. 5"/38 Cal Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R	Do
5375	USS DE 583, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R	Do
5376	USS DE 584. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R	Do
5378	USS DD 691, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do

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OD No.	Title	Date	Class	Remarks
5379	DE 531. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	For Design and Research use only. Not for distribution
5380	USS DE 402, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R	Do
5381	USS DE 403, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R	Do
*5382	DE 404, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
5383	USS DE 405, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5384	DE 406, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
*5385	USS DE 532, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
*5386	DE 579, 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	..	Do
*5387	DE 686, 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	..	Do
*5388	DD 662, 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	..	Do
5389	USS DD 664, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5390	DE 706, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5391	DE 345, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment -	30 Sep 44	R	Do
5392	DE 418, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5393	USS AP 21, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5394	USS AGC 8, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5395	USS DE 533, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5396	USS DE 586, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Nov 44	R	Do
5397	USS DE 585, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	3 Nov 44	R	Do
5398	USS DE 587, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Nov 44	R	Do
5399	USS DE 407, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Nov 44	R	Do
5400	USS DE 408, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Nov 44	R	Do
5401	DE 576, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5402	DE 577, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5403	DE 579, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5404	DE 686, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5405	DE 791, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do

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OD No.	Title	Date	Class	Remarks
5406	DD 724. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5407	DD 725. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5408	DD 727. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	For Design and Research use only. Not for distribution
5409	DD 728. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5410	DD 729. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5411	DE 700. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
5412	DE 794. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	Do
5413	DE 795. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	Do
5414	DE 796. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	Do
5415	DE 798. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	Do
5416	DE 580. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5417	DE 581. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5418	DE 582. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5419	DE 583. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5420	DE 584. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5421	DE 402. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5422	DE 403. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
*5423	DE 407. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	R	Do
5424	DE 532. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5425	DE 578. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Nov 44	R	Do
5426	USS DD 727. 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	17 Nov 44	R	Do
5427	USS DD 728. 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Nov 44	R	Do
5428	USS DD 729. 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Nov 44	R	Do
5429	USS DD 730. 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Nov 44	R	Do
5430	DE 409. 5"/38 Cal AA Gun Mounts, Reports of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
5431	DE 410. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
5432	USS DD 664. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5433	USS DD 662. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do

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OD No.	Title	Date	Class	Remarks
5434	USS DD 730, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5435	USS DE 404, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5436	USS DE 585, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5437	USS DE 586, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5438	USS DE 702, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	For Design and Research use only. Not for distribution
5439	USS DE 800, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
5440	DE 340, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Nov 44	R	Do
5441	DE 341, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Nov 44	R	Do
5442	DE 342, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5443	DE 347, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Nov 44	R	Do
5444	DE 666, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5445	DE 533, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5446	DE 534, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Nov 44	R	Do
5447	DE 535, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5448	DE 587, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5449	DE 589, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
5450	DE 340, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
5451	DE 341, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
5452	DE 342, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
5453	DE 411, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
*5454	DE 413, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
5455	DE 414, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
5456	DE 415, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
5457	DE 416, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
5458	DE 418, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5459	DE 534, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5460	DE 535, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5461	DE 589, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do

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OD No.	Title	Date	Class	Remarks
5462	DE 706, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
5463	DE 707, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5466	DD 731, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	16 Jan 45	R	Do
5467	DD 732, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	16 Jan 45	R	Do
5468	DD 733, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	16 Jan 45	R	Do
5469	DD 734, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	16 Jan 45	R	Do
5470	6"/47 Cal Turret, Ordnance Installation Test Data for (CL 46)	Undated	R	For Design and Research use only. Not for distribution
5471	6"/47 Cal Triple Turret, Ordnance Installation Test Data for (CL 60)	Undated	R	Do
5472	5"/38 Cal AA Twin Mounts, Ordnance Installation Tests Data for (CL 60)	Undated	R	Do
5473	5"/38 Cal AA Twin Mounts, Ordnance Installation Tests Data for (CL 55)	Undated	R	Do
5474	5"/38 Cal AA Twin Mounts, Ordnance Installation Test Data for (CL 56)	Undated	R	Do
5475	5"/38 Cal AA Twin Mounts, Ordnance Installation Test Data for (CL 57)	Undated	R	Do
5476	5"/38 Cal AA Twin Mounts, Ordnance Installation Test Data for (CL 58)	Undated	R	Do
5477	6"/47 Cal Triple Turret, Ordnance Installation Test Data for (CL 47)	Undated	R	Do
5478	6"/47 Cal Triple Turret, Ordnance Installation Tests Data for (CL 55)	Undated	R	Do
5479	6"/47 Cal Triple Turret, Ordnance Installation Tests Data for (CL 56)	Undated	R	Do
5480	6"/47 Cal Triple Turret, Ordnance Installation Test Data for (CL 57)	Undated	R	Do
5481	6"/47 Cal Triple Turret, Ordnance Installation Test Data for (CL 58)	Undated	R	Do
5482	Ordnance Equipment List for <i>Auxiliary Transport, Attack, APA</i> 57 Class	20 Jul 44	R	
*5483	Weights of Breech Mechanism Forgings for 3" to 16" Guns.....		R	
5484	Ordnance Equipment List for <i>Light Cruisers</i> , CL 144 Class.....	3 Aug 44	R	
*5486	Ordnance Equipment List for <i>Destroyers Class "A" Brazil</i>		R	
5487	Description of Maxson Electric Drive for Navy 40-mm Mount Mk 1	Undated	C	
*5488	Instruction Book for Dummy Director Mk 4 Mod 1.....		R	
5489	16"/45 Cal Triple Turret, Ordnance Installation Test Data for (BB 57)	Undated	R	Do
5490	5"/38 Cal AA Twin Mounts, Ordnance Installation Test Data for (BB 64)	Undated	R	Do
5491	16"/50 Cal Triple Turret, Ordnance Installation Test Data for (BB 64)	Undated	R	Do
5494	Ordnance Equipment List for <i>High Speed Transports</i> , APD 37 Class (DE Type)	10 Aug 44	R	
*5495	Ordnance Equipment List for DE's (Bombardment).....		R	
5496	Ordnance Equipment List for <i>Cargo Ships</i> , AKs 156, 158 and 160.	4 Jul 44	R	
*5497	Standard Calibration Data for Gyro Units of Gunsight Mk 15 and Mods		R	

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OD No.	Title	Date	Class	Remarks
5498	Location of 14" and 5" Guns, Directors, and 36" Searchlights (Parallax Data) BB 38	26 Mar 45	R	Rev A
*5500	Torpedo Workshop Equipment and Tool Catalogue.....	.....	.....	.....
5550	Test Sheets for Mount Mk 1—APD 120.....	Undated	R	For Design and Research use only, not for distribution
5563	APD 107, Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mounts	10 May 45	R	For Design and Research use only, not for distribution
5600	Ordnance Equipment List for <i>Light Cruisers</i> CL 4 Class.....	29 Jan 45	R	.....
5601	Ordnance Equipment List for <i>Motor Gunboats</i> PGM 9 Class....	29 Nov 44	R	.....
5602	Ordnance Equipment List for <i>Light Mine Layers</i> DM 23 Class..	16 Feb 45	R	.....
5604	Ordnance Equipment List for <i>Miscellaneous Auxiliaries</i> —AGs 88-89	8 Aug 45	R	.....
5605	6"/47 Cal Triple Turret Assembly, Ordnance Installation Test Data for USS CL 42	Undated	R	For Design and Research use only, not for distribution
5606	5"/38 Cal Twin Mount, Ordnance Installation Test Data for USS CL 42	Undated	R	For Design and Research use only, not for distribution
5607	5"/38 Cal Single Mounts, Ordnance Installation Test for USS CURRITUCK (AV7)	1944	R	Do
5608	12"/50 Cal Triple Turret Assembly, Ordnance Installation Test Data for USS CB 1	Undated	R	For Design and Research use only, not for distribution
5610	Ordnance Equipment List for <i>Destroyer Tender</i> —AD 32.....	10 Apr 45	R	.....
5611	Ordnance Equipment List for <i>Aircraft Repair Ships</i> (Engine) ARV(E) 3, 4—(Aircraft) ARV(A) 5, 6	24 May 45	R	.....
5612	Ordnance Data, Gun Sight Mk 18 Mods 0, 1 and 2; Installation Resistance Tests	15 Nov 44	R	.....
5613	Test Sheet, Ordnance Equipment CA 72.....	Undated	R	For Design and Research use only. Not for distribution
5614	Test Sheet Mounts and Turrets CL 67.....	Undated	R	For Design and Research use only, not for distribution
5634	Ordnance Equipment List for <i>Heavy Cruisers</i> —CA 68 Class, CA 72 Class, CA 122 Class	3 May 45	R	With Change 1. Supersedes OD 4529 and 5239
5635	Ordnance Equipment List for <i>Cargo Ships</i> —AD 227 Class.....	16 Mar 45	R	.....
*5636	Location of 16" and 5" Guns, Director and 36" Searchlight BBs 35 and 36 (Parallax Data)	.....	.....	.....
5637	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 99	Undated	R	For Design and Research use only. Not for distribution
5638	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 100	Undated	R	Do
5639	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 101	Undated	R	Do
5640	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 103	Undated	R	Do
5641	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 105	Undated	R	Do
5642	Ordnance Equipment List for <i>Mine Layer</i> —CM 5.....	21 Sep 45	R	Supersedes OD 3420
5643	CLs 114-147, Location of 6" Guns, Directors and 36" Searchlights (Parallax Data)	12 Dec 44	D	.....
5644	Ordnance Equipment List for <i>Minesweepers</i> , High Speed—DMS 19 Class	17 Aug 45	R	.....
*5645	Bombsight Mk 23 Mod 0 Computation Data.....	.....	R	.....
5646	Ordnance Equipment List for <i>Landing Ship</i> , Medium (Rocket)—LSM(R)	10 Apr 45	R	With Change 1 dated 21 Jul 45
#5647	Ordnance Equipment List for <i>Auxiliary Mine Layers</i> —ACM 1 Class	25 Jun 45	R	Will supersede ODs 3320, 3392
*5648	Ordnance Equipment List for <i>Destroyer Tender</i> AD 34.....		R	

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OD No.	Title	Date	Class	Remarks
5649	Ordnance Equipment List for <i>Seaplane Tenders</i> —AV 4 Class...	5 Nov 45	R	
5650	DE 419. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	For Design and Research use only. Not for distribution
5651	DE 420. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
*5652	DE 350. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	..	Do
*5653	DE 351. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	..	Do
*5654	DE 352. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	..	Do
*5655	DE 353. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	..	Do
*5656	DE 355. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	..	Do
5657	DE 358. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5658	DE 405. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5659	DE 406. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5660	DE 408. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5661	DE 409. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
*5662	DE 410. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	R	Do
*5663	DE 411. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	R	Do
*5664	DE 413. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	R	Do
*5665	DE 414. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	R	For Design and Research use only. Not for distribution
*5666	DE 415. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	R	Do
5667	DE 416. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5668	DE 419. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5669	DE 420. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5670	DE 421. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5671	DE 422. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R	Do
5672	DE 345. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
5673	DE 347. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
5674	DE 350. 5"/38 Cal AA Gun Mounts, Reports of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	For Design and Research use only. Not for distribution
5675	DE 351. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do

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NUMERICAL LISTING—NAVORD ODs

OD No.	Title	Date	Class	Remarks
5676	DD 623. 21" AW Torpedo Tubes (After Damage Repairs) Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R	Do
5677	DD 731. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R	Do
5678	DD 732. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R	Do
5679	DD 733. 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R	Do
*5680	DD 734. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15	.....	..	Do
5681	DE 352. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
5683	DE 355. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R	Do
5684	DE 358. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R	Do
5685	DE 360. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R	Do
*5686	DE 421. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
*5687	DE 422. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
5688	DE 423. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
*5690	DE 709. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
5691	DD 613. 21" AW Torpedo Tubes (After Damage Repairs) Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R	Do
*5692	USS DD 741. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15	.....	..	Do
5693	DE 360. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R	Do
5694	DE 361. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R	Do
5695	DE 362. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R	Do
*5696	USS DE 423. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	..	For Design and Research use only, not for distribution
*5697	USS DE 707. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	..	Do
5698	DE 708. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R	Do
5699	DE 709. 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R	Do
5700	USS DM 23. 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	7 May 45	R	For Design and Research use only, not for distribution
5701	USS DM 24. 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	7 May 45	R	Do
5702	USS DM 25. 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	7 May 45	R	Do
5703	USS DM 26. 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	7 May 45	R	Do
*5704	USS DM 27. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1		..	Do

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OD No.	Title	Date	Class	Remarks
*5705	USS DM 28. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1		..	Do
*5706	USS DD 741. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	..	Do
5707	APD 39. 5"/38 Cal AA Gun Mount, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R	Do
5708	APD 50. 5"/38 Cal AA Gun Mount, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R	Do
5709	APD 56. 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
*5710	USS DE 361. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
*5711	USS DE 362. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
*5712	USS DE 536. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	.....	..	Do
*5713	USS DD 623. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 12, 18, and 75 (Mods to suit)	.....	..	Do
*5714	USS DD 613. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18 and 19	.....	..	Do
*5715	DD 742. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	..	Do
*5716	DD 742. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15	.....	..	Do
*5717	DD 743. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15	.....	..	Do
5718	USS DD 743. 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	7 May 45	R	Do
*5719	APD 54. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mod 75	.....	..	Do
*5721	DD 805. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	..	Do
*5722	DD 805. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15	.....	..	Do
*5723	APD 77. Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mount Mk 30 Mod 75	.....	..	Do
5724	USS DD 806—5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Jul 45	R	For Design and Research use only, not for distribution
*5725	DD 806. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 15	.....	..	Do
5726	USS DD 807—5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Jul 45	R	Do
*5727	DD 807. Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 15	.....	..	Do
5728	USS ST. PAUL (CA 73) Accuracy Test, Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	30 Mar 45	D	
*5729	APD 66, Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mount Mk 30 Mod 77.....	.....	D	For Design and Research use only, not for distribution
5730	USS DD 808—5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Jul 45	R	Do

*Under preparation.

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OD No.	Title	Date	Class	Remarks
*5731	DD 808, Report of Shipboard Tests and Inspection of Ordnance Equipment—21" AW Torpedo Tubes Mk 15		D	Do
5732	USS DD 829—5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Jul 45	R	Do
*5733	DD 829, Report of Shipboard Tests and Inspection of Ordnance Equipment—21" AW Torpedo Tubes Mk 15	.....	D	Do
*5734	DE 251—5"/38 Cal AA Gun Mounts Mk 30 Mods 42 and 61, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	D	Do
*5735	APD 45—5"/38 Cal AA Gun Mount Mk 30 Mod 37, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	D	Do
*5736	DD 830—5"/38 Cal AA Gun Mounts Mk 38 Mod 1, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	D	Do
*5737	DD 833, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mount Mk 38 Mod 1	.....	R	For Design and Research use only, not for distribution
*5738	DD 831—5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	R	Do
*5739	DD 834, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mounts Mk 38 Mod 1	.....	R	Do
*5740	DD 832—5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	R	Do
*5741	DE 57—5"/38 Cal AA Gun Mounts Mk 30 Mod 75, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	R	Do
*5742	LSD 26—5"/38 Cal AA Gun Mount Mk 37 Mod 5, Report of Shipboard Tests and Inspection of Ordnance Equipment	.....	R	Do
*5745	DE 537, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mounts Mk 30 Mod 75	.....	R	Do
*5746	DD 835, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	R	Do
*5747	LSD 20, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mount Mk 37 Mod 5	.....	R	Do
*5748	DD 836, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	R	Do
5749	USS DD 836—21" AW Torpedo Tubes Mk 14, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Sep 45	R	Do
5750	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 214	Undated	R	For Design and Research use only, not for distribution
5751	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 215	Undated	R	Do
5752	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 216	Undated	R	Do
5753	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 217	Undated	R	Do
5754	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 218	Undated	R	Do
5755	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 219	Undated	R	Do
5756	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 220	Undated	R	Do
5757	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 221	Undated	R	Do
5758	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 222	Undated	R	Do
5759	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 223	Undated	R	Do

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OD No.	Title	Date	Class	Remarks
5760	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 224	Undated	R	Do
5761	21" AW Torpedo Tubes, Ordnance Installation Test Data for USS DE 225	Undated	R	Do
5762	Test Data Summary—6" Projectile Hoist Mk 4 and 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and 4 Mods 1-11 (6"/47 Cal Triple Turrets) Electric Hydraulic Drives	1 Jan 45	R	
5763	Ordnance Equipment List for <i>Landing Ships, Tank</i> —LST 1153 Class	25 Jun 45	R	
5765	Ordnance Equipment List for <i>Provision Storeship</i> —AF 30 Class.	18 Jun 45	R	
5766	5"/38 Cal Single AA Gun Mounts—Ordnance Installation Test Data for USS DE 224	Undated	R	For Design and Research use only, not for distribution
5767	5"/38 Cal Single AA Gun Mounts—Ordnance Installation Test Data for USS DE 225	Undated	R	Do
5768	8"/55 Cal Triple Gun Turrets—Ordnance Installation Test Data for USS (CA 135)	Undated	R	Do
5769	8"/55 Triple Gun Turrets, Ordnance Installation Test Data for USS CA 136	Undated	R	Do
*5770	12"/50 Cal Triple Turrets, Ordnance Installation Test Data for USS CB 2	.....	..	Do
5771	21" AW Torpedo Tubes, Ordnance Installation Test Data for BD (M-1)	Undated	R	Do
5772	21" AW Torpedo Tubes, Ordnance Installation Test Data for BD (M-2)	Undated	R	Do
5773	21" AW Torpedo Tubes, Ordnance Installation Test Data for BD (M-3)	Undated	R	Do
5774	Inspection Procedure for Acceptance Tests of Bombsights Mk 15 and Mods	25 Apr 45	R	
5776	Ordnance Equipment List for <i>Landing Ship, Vehicle</i> —LSV.....	11 Jul 45	R	
5777	Flashless Powder Tests in Navy 16" Guns.....	20 Apr 45	C	
5780	5"/38 Cal Single AA Gun Mount, Ordnance Installation Test Data for USS APD 87	Undated	R	For Design and Research use only, not for distribution
5781	5"/38 Cal Single Gun Mounts Ordnance Installation Test Data for USS CV 36	Undated	R	Do
5782	5"/38 Cal Twin Gun Mounts, Ordnance Installation Test Data for USS CV 36	Undated	R	For Design and Research use only, not for distribution
5783	5"/38 Cal Twin Gun Mounts, Ordnance Installation Test Data for USS CL 103	Undated	R	Do
5784	6"/47 Cal Triple Turret Assembly, Ordnance Installation Test Data for USS CL 103	Undated	R	Do
5785	5"/38 Cal Twin Gun Mounts, Ordnance Installation Test Data for USS CA 135	Undated	R	Do
5787	Test Data Summary—8" Projectile Hoist Mk 27 Mods 6, 7 and 8—Electric Hydraulic Equipment	20 Sep 45	R	
5802	Degaussing Note—Acoustic Boom Degaussing Coils (Formerly DGN No 2)	16 Jan 43	R	Available to Degaussing Activities only
5803	Degaussing Note, Current Carrying Capacity of Rubber Insulated Cables (Formerly DGN No 3)	31 Aug 43	R	Do
5805	Degaussing Note, Detailed Study of M-Coil Constants and the suitability of the Straight Line Prediction Formula (Formerly DGN No 5)	5 Jul 43	R	Available to Degaussing Activities only
5810	Degaussing Note, List of Direct Current Electric Drive Ships (Formerly DGN No 10)	15 Mar 43	R	Do

*Under preparation.

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OD No.	Title	Date	Class	Remarks
5812	Degaussing Note, Use of Deperming Solenoid for Calibration and Measurement of Induced Longitudinal Magnetization (ILM) (Formerly DGN No 12)	23 Mar 43	R	Do
5815	Degaussing Note, Equilibrium and Induced Vertical Magnetization and Signatures of Magnetic Ship Models (Formerly DGN No 15)	9 Jun 43	R	Do
5816	Degaussing Note, Float Magnetic Range (Formerly DGN No 16)	9 Jun 43	R	Do
5817	Degaussing Note, Wiping Flashing and Flash D (Formerly DGN No 17)	18 Jun 43	C	Do
5819	Degaussing Note, Application of Deperm "CH" in <i>Great Britain</i> (Formerly DGN No 19)	7 Jul 43	C	Do
5820	Degaussing Note, Empirical Calibration of Channel Loop Ranges (Formerly DGN No 20)	1 Jul 43	R	Do
5821	Degaussing Note, Coil Effects of the 220 ft. Class of <i>Mine-sweepers</i> (AMs 57-65, 100-131, 314-324 and BAMs 8-15, 17-21, 25-32) (Formerly DGN No 21)	10 Jul 43	R	Do
5822	Degaussing Note, Magnetic Field Target Areas (Formerly DGN No 22)	16 Jul 43	R	Do
5824	The Magnetic Fields of Ships Loaded with Magnetic Cargo (Formerly DGN No 24)	23 Jul 43	R	Do
5827	Degaussing Note, Introduction of Permanent Athwartship Magnetization (PAM) during Deperming by Reversals (Formerly DGN No 27)	25 Aug 43	C	Available to Degaussing Activities only
5829	Degaussing Note, Undegaussed Signatures and Coil Effects of the <i>FLETCHER</i> (DD 445) Class of <i>Destroyers</i> (Formerly DGN No 29)	27 Aug 43	R	Do
5831	Degaussing Note, Coil Effects, Equilibrium Vertical Magnetization and Induced Longitudinal Magnetization for the DE 99 Class (Formerly DGN No 31)	9 Sep 43	R	Do
5832	Degaussing Note, Coil Effects, Equilibrium Vertical Magnetization and Induced Longitudinal Magnetization for the DE 51 Class (Formerly DGN No 32)	13 Oct 43	R	Do
5834	Degaussing Note, Undegaussed Signatures, Induced Longitudinal Magnetization and Coil Effects of the DE 256, BDE 1 Class (Formerly DGN No 34)	15 Oct 43	R	Available to Degaussing Activities only. Supersedes OD 5823 (DGN No. 23)
5835	Degaussing Note, Undegaussed Signatures, Induced Longitudinal Magnetization and Coil Effects of the T-2 (M.C. T2-SE-A1) Class of <i>Tankers</i> (Formerly DGN No 35)	18 Oct 43	R	Available to Degaussing Activities only
5836	Degaussing Note, Magnetic Proving Ground Equipment (Formerly DGN No 36)	22 Dec 43	D	Do
5837	Degaussing Note, Magnetic Stability of Iron Specimens (Formerly DGN No 37)	23 Dec 43	R	Do
5838	Degaussing Note, Degaussing Characteristics of the 180 ft <i>Mine-sweepers</i> , AM 136 Class (Formerly DGN No 38)	28 Dec 43	R	Do
5839	Degaussing Note, Degaussing Characteristics of the <i>GLEAVES</i> (<i>BRISTOL</i>) Class of <i>Destroyers</i> (Formerly DGN No 39)	7 Jan 44	R	Available to Degaussing Activities only
5840	Degaussing Note, Degaussing Characteristics of the BB 55, BB 57, and BB 61 Classes of <i>Battleships</i> (Formerly DGN No 40)	22 Jan 44	R	Do
5841	Degaussing Note, Degaussing Characteristics of the CVE 26 Class of <i>Auxiliary Aircraft Carriers</i> (Formerly DGN No 41)	24 Jan 44	R	Do
5842	Degaussing Note, Degaussing Characteristics of the CVL 22 Class of <i>Light Aircraft Carriers</i> (Formerly DGN No 42)	9 Feb 44	R	Do
5843	Degaussing Note, Degaussing Characteristics of the CL 55 and CL 95 Classes of <i>Cruisers</i> (Formerly DGN No 43)	15 Feb 44	R	Do
5844	Degaussing Note, Degaussing Characteristics of the PF 3 Class of <i>Frigates</i> (Formerly DGN No 44)	16 Feb 44	R	Do

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OD No.	Title	Date	Class	Remarks
5846	Degaussing Note, Degaussing Classification of U. S. Vessels (Formerly DGN No 46)	16 Feb 44	R	Do
5847	Degaussing Note, Degaussing Characteristics of Ships of the DE 51 and DE 99 Classes Having Simplified Coil Installations (Formerly DGN No 47)	28 Feb 44	R	Available to Degaussing Activities only
5849	Degaussing Note, Degaussing Characteristics of the CVE 55 Class of <i>Escort Aircraft Carriers</i> (Formerly DGN No 49)	1 Apr 44	R	Do
5850	Degaussing Note, M-Coil Current Setting on T-2 <i>Tankers</i> (Formerly DGN No 50)	1 May 44	R	Do
5851	Degaussing Note, Degaussing Characteristics of the APA 33 and APA 92 Classes of <i>Attack Transports</i> and Certain Non-Naval Vessels Having Type C3-S-A2 Maritime Commission Hulls (Formerly DGN No 51)	15 Jun 44	R	Do
5852	Degaussing Note, Degaussing Characteristics of <i>Victory Ships</i> (Maritime Commission Hull Types VC2-S-AP2, VC2-S-AP3, and VC2-S-AP5) (Formerly DGN No 52)	15 Jun 44	R	Do
5854	Degaussing Note, Degaussing Characteristics of the AO 51 Class of <i>Oilers</i> (Formerly DGN No 54)	1 Aug 44	R	Do
5855	Degaussing Note, Use of the Portable Magnetometer Control Box Mk 5 Mod 5 with Portable Detector Mk 5 Mod 4 (Formerly DGN No 55)	10 Aug 44	D	Do
5856	Degaussing Note, M-Coil Capacities of Merchant and Naval T-2 (M.C. T2-SE-A1) Class of <i>Tankers</i> (Formerly DGN No 56)	15 Sep 44	R	Do
5857	Degaussing Note, Information Concerning the Use of <i>Minesweepers</i> Special Service Generators for Deperming (Formerly DGN No 57)	1 Oct 44	C	Do
5858	Degaussing Note, Degaussing Characteristics of the CV 9 Class of <i>Aircraft Carriers</i> (Formerly DGN No 58)	1 Oct 44	R	Available to Degaussing Activities only
5859	Degaussing Note, Degaussing Characteristics of the Short Hulled ALLEN M. SUMNER (DD 692) Class <i>Destroyers</i> (Formerly DGN No 59)	8 Nov 44	R	Do
5860	Degaussing Note, Degaussing Characteristics of the LSTs 1-541 and LSTs 542-1130 Classes (Formerly DGN No 60)	16 Oct 44	R	Do
5862	Degaussing Note, Index of Degaussing Summaries Issued Before 1 Jan 45 (Formerly DGN No 62)	22 Jan 45	R	Do
5863	Degaussing Note, Degaussing Characteristics of APDs 37-39, 47-52, 54-57, 59-63, 69-74, 78-79, 87-136 (Formerly DGN No 63)	22 Jan 45	R	Do
5864	Degaussing Note, Degaussing Characteristics of the High Speed <i>Minesweeper</i> DMSs 19-42 (Formerly DGN No 64)	20 Feb 45	R	Do
5865	Degaussing Note, Degaussing Characteristics of the Motor <i>Minesweepers</i> YMSs 1-481 (Formerly DGN No 65)	1 Mar 45	R	Do
5866	Degaussing of Small Wooden-Hulled Craft for Minesweeping Operations	1 Mar 45	R	Available to Degaussing Activities only. With Change 1 dated 8 Aug 45
*5867	Degaussing Note, Degaussing Characteristics of Maritime Commission C1 Hull Types (Formerly DGN No 67)	.....	C	Available to Degaussing Activities only
*5868	Degaussing Note, Degaussing Characteristics of Maritime Commission C2 Hull Types (Formerly DGN No 68)	.....	C	Do
*5870	DD 837, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	R	For Design and Research use only, not for distribution
5871	USS DD 837, 21" AW Torpedo Tubes Mk 14, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Sep 45	R	Do
*5872	DD 838, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	R	Do
5873	USS DD 838, 21"0 AW Torpedo Tubes Mk 14, Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Jan 46	R	Do

*Under preparation.

NUMERICAL LISTING—NAVORD ODs

OD No.	Title	Date	Class	Remarks
*5874	DD 839, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	R	Do
5875	DD 839, 21" AW Torpedo Tubes Mk 14, Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Jan 46	R	Do
*5880	LSD 21, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mount Mk 37 Mod 5	.....	D	Do
*5881	DD 840, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	D	Do
5882	USS DD 840, 21" AW Torpedo Tubes Mk 14, Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Jan 46	R	Do
*5883	DD 841, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	R	Do
5884	USS DD 841, 21" AW Torpedo Tubes Mk 14, Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Jan 46	R	Do
*5885	AGC 16, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mounts Mk 37 Mod 5	.....	R	Do
*5888	DD 842, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	R	Do
*5889	DD 842, Report of Shipboard Tests and Inspection of Ordnance Equipment, 21" AW Torpedo Tubes Mk 14	.....	R	Do
*5890	DE 538, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mounts Mk 30 Mods 73 and 75	.....	R	Do
*5891	DD 850, Report of Shipboard Tests and Inspection of Ordnance Equipment, 21" AW Torpedo Tubes Mount Mk 14	.....	R	Do
*5895	LSD 27, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mount Mk 37 Mod 5	.....	R	Do
*5896	DD 843, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	.....	R	Do
*5897	DD 843, Report of Shipboard Tests and Inspection of Ordnance Equipment, 21" AW Torpedo Tubes Mk 14	.....	R	Do
*6120	Torpedoes Mk 16 and 17 Types Determination of Overall Characteristics	.....	C	
*6121	Torpedoes Mk 16 and 17 Types, Running Test of Main Engine in Afterbody	.....	R	
*6122	Torpedoes Mk 16 Mods 0, 1, 2 and 17 Mods 1 and 2—Pilot-Type Regulating Valve (S.G. 9870) Acceptance and Requirements	.....	R	
6123	Torpedoes Mk 16 Types and Mk 17 Type, Test of Regulators and Starting Valve in Combination	23 Jul 45	R	
6124	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Functional and Leakage Tests of Afterbody Valve System	27 Jul 45	C	
*6125	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Starting Gear and Governor (S.G. 7072)	.....	C	
*6126	Torpedoes Mk 16 Mods 0 and 1, Mk 17 Mod 1—Hydrostatic and Functional Tests for "N" Check Valve Assembly, G-12529	.....	C	
6128	Torpedoes Mk 16 Mods 1 and 2, Mk 17 Mods 1 and 2—Dynamometer Test Specifications	23 Nov 45	C	Rev D
*6129	Torpedoes Mk 16 Mods 0 and 1, Mk 17 Mod 1—Liquid Calcium Permanganate Catalyst (Properties of and Preparation and Handling Procedures for)	.....	C	
6130	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Specifications for Test of Starting Valve (S.G. 9898)	10 Sep 45	R	
6131	Torpedoes Mk 16 Mods 0, 1, 2 and Mk 17 Mods 1 and 2—Functional Test and Adjustments for Superheater Assemblies (S.G. 7048, 7084, 9853)	11 Sep 45	C	Rev A

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6132	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Specifications for Test of Starting Valve (S.G. 9884)	17 Aug 45	R	
6133	Torpedoes Mk 16 Mods 1 and 2 and Mk 17 Mods 1 and 2—Procedures and Requirements for Adjustment and Test of Depth Steering Line and Depth Setting Socket	22 Aug 45	R	
6134	Torpedoes Mk 16 Mods 1 and 2 and Mk 17 Mods 1 and 2—Procedures and Requirements for Adjustment and Test of Gyro Steering Line and Angle Setting Sockets	22 Aug 45	R	
6135	Torpedoes Mk 13, 14, 15, 16, 17 and 23 Types—Static Balancing of Propellers	4 Sep 45	D	
6136	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Functional and Leakage Tests for Stop and Charging Valve Assemblies G-8816 and G-8858	24 Sep 45	R	
6137	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"F" and "C" Air Check Valve Assembly Stock Group G-8810—Functional and Leakage Tests	27 Sep 45	C	
6138	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Hydrostatic Pressure Test for "F" and "C" Air Check Valve Body Assembly—Stock Group G-8811	27 Sep 45	C	
6139	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"F" and "C" Check and Strainer Body Assembly, Stock Group G-8854, Hydrostatic Pressure Test	27 Sep 45	C	
6140	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"N" Air Check and Relief Valve Body Assembly, Stock Group G-8815, Hydrostatic Pressure Test	27 Sep 45	C	
6141	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"F" and "C" Check and Strainer Assembly, Stock Group G-8853, Functional and Leakage Tests	27 Sep 45	C	
6142	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"N" Air Check and Relief Valve Assembly, Stock Group G-8814, Functional and Leakage Tests	27 Sep 45	C	
6143	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Functional and Leakage Tests for "N" Check Valve Assembly, Stock Group G-8812	1 Oct 45	C	
6144	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Hydrostatic Test "N" Check Valve Body Assembly, Stock Group G-8813	1 Oct 45	C	
6145	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—"N" Air Check Valve Complete Assembly, Stock Group G-8888 Functional and Leakage Test	1 Oct 45	C	
6146	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—"C" Delivery and Selector Valves Assembly Stock Group G-8892 Functional and Leakage Tests	1 Oct 45	C	
6147	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—"N" and "F" Delivery Valve Assembly, Stock Group G-8891, Functional and Leakage Tests	1 Oct 45	C	
6149	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Hydrostatic Test for "N" Air Check Body Assembly G-8889	1 Oct 45	C	
6150	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Functional and Leakage Tests for "C" and "F" Air Check Valve Complete Assembly, Stock Group G-8885	2 Oct 45	C	
6152	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Hydrostatic Test, Dump Valve Body, Stock Part 27628	11 Oct 45	C	
6153	Torpedoes Mk 14, 15, 16, 17 and 23 Types—Afterbody Pressure Tests	12 Oct 45	C	
*6154	Torpedoes Mk 16 and 17 Types—Procedure and Requirements for Adjustment and Running-in of "H" Type Main Engines		D	

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OD No.	Title	Date	Class	Remarks
6169	Torpedoes Mk 16 Mods 1 and 2, Mk 17 Mods 1 and 2—Test and Acceptance Requirements for "N" Tank Assembly S.G. 9876 and 9877	20 Nov 45	C	
6220	Torpedoes Mk 15 Mod 3—Proving Service Trials.....	26 Dec 45	R	
6223	Torpedoes Mks 13, 14, 15, 16, 17, 18 and 23 Types—War Heads, War Head Extensions, Exercise Heads, Exercise Head Extensions	15 Oct 45	D	Rev A
6224	Torpedoes Mk 13 Type—Water Trip Valve.....	Undated	D	
6225	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—Standard Leakage Stand for New Manufacture Testing	10 Oct 45	D	Rev A
6226	Torpedoes Mk 13 Type—Starting and Reducing Valve.....	Undated	D	
6227	Torpedoes Mks 13, 14, 15, 16, 17, 18 and 23 Types—Vertical Steering Engines	Undated	D	
6228	Torpedoes Mks 13, 14, 15, 16, 17, 18 and 23 Types—Horizontal Steering Engines	Undated	D	
6229	Torpedoes Mks 13, 14, 15 and 23 Types—Stop and Charging Valve	Undated	D	
*6230	Torpedoes Mk 14 Type—Starting and Reducing Valve.....	.....	D	
6231	Torpedoes Mks 13, 14, 15 and 23 Types—Oil Pumps.....	Undated	D	
6232	Torpedoes Mks 13, 14, 15 and 23 Types—Air Check Valves and Delivery Check Valves	Undated	D	
6233	Torpedoes Mk 13 Type—Spinning and Unlocking Mechanism, S.G. 3916	2 Nov 45	D	Rev A
6234	Torpedoes Mks 14, 15, 16, 17, 18 and 23 Types—Spinning and Unlocking Mechanism, S.G. 3363	5 Nov 45	D	Rev A
6235	Torpedoes Mks 13, 14, 15, 16, 17, 18 and 23 Types—Gyro Air Reducing Valve S.G. 3690 and S.G. 9925	Undated	D	
*6236	Torpedoes Mks 13, 14, 15 and 23 Types, Starting Gear.....	.....	D	
6237	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—Blow Valve S.G. 3349	Undated	D	
*6240	Torpedoes Mks 13, 14, 15 and 23 Types—Oil Tanks.....	.....	D	
*6241	Torpedoes Mks 13, 14, 15 and 23 Types—Turbine Bulkheads.....	.....	D	
*6242	Torpedoes Mks 13, 14, 15 and 23 Types—Superheaters.....	.....	D	
*6243	Torpedoes Mks 13, 14, 15 and 23 Types—Fuel Flasks.....	.....	D	
*6244	Torpedoes Mks 16 and 17 Types—Turbine Bulkheads.....	.....	D	
*6245	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—After Bulkheads Bearings	.....	D	
6246	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—After Bulkheads..	9 Nov 45	D	Rev A
*6247	Torpedoes Mks 13, 14, 15, 16, 17, 18 and 23 Types—Mk 2 Mod 0 Depth and Roll Recorder	.....	D	
*6248	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—Air Strainer Bodies	.....	D	
*6249	Torpedo Igniters—Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types.	.....	D	
6251	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—Pressure Tests for Synthetic Rubber Gaskets—Stock Parts 7057, 11606, 12078, 17341, 18787 and Stock Group 4667	7 Nov 45	D	Rev A
*6252	Torpedo Work—Exploders Mk 8 Mods 6 and 7 Types.....	.....	D	
*6254	Exploder Mk 6 Mod 10 Type (Torpedo Work).....	.....	D	
6255	Exploder Mk 9 Type—Mechanical Unit.....	28 Nov 45	C	Rev B
*6256	Exploders Mk 6 Mods 5 and 6 (Torpedo Work).....	.....	D	
*6258	Starting and Reducing Valve—Torpedoes Mk 15 Type.....	.....	D	
6260	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—Pallet Mechanism	3 Oct 45	D	
*6266	Gyro Mechanism Driving Gear Assembly S.G. 7987—Torpedoes Mk 13 Type		D	

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OD No.	Title	Date	Class	Remarks
6267	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—Pressure Tests for Hand Hole Covers, Top Bearing Access Hole Covers and Access Hole Covers	1 Oct 45	D	
*6268	Governor, S.G. 6974—Torpedoes Mks 14, 15 and 23 Types.....		D	
6269	Torpedoes Mks 13, 14, 15 and 23 Types—Air Flasks.....	18 Oct 45	D	
*6270	Torpedo Work—Water Compartments.....		D	
*6271	Pressure Test for Exploder Base Plate Flange, SP 12077 (Torpedo Work)		D	
*6272	Pressure Test for Exploder Flange for War Exercise Heads SP 16388 (Torpedo Work)		D	
6273	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—Gyro Door Frame	3 Dec 45	D	
6275	Torpedoes Mk 13 Types—Afterbody Leakage Tests.....	3 Dec 45	D	Supersedes paragraphs 204 and 204.10 of OD 3815 Rev M
6276	Torpedoes Mks 13, 14, 15 and 23 Types—Gyro and Depth Mechanism Torque Test	3 Dec 45	D	Supersedes paragraphs 208 of OD 3815; 425.30 and 426.80 of OD 3827; 425.30 and 426.80 of OD 3828
6277	Torpedoes Mks 13, 14, 15, 16, 17 and 23 Types—Bulkhead for Forward Dome Assembly, S.G. 12544 (Welded Type)	30 Nov 45	D	
6322	Degaussing Note, Degaussing Characteristics of AMc(U) 1-11..	17 Aug 45	R	Available to Degaussing Activities only
*6429	Ordnance Equipment List for <i>Destroyer Tenders</i> —AD 15.....		D	

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ORDNANCE TECHNICAL INSTRUCTIONS (NAVORD OTIs)

OTI No.	Title	Date	Class	Remarks
A2-43	Drawing 330025, Torch, Indicator Float Mk 1 Mod 1 to Float Indicator Mk 1 Mod 1	23 Feb 43	R	
A3-43	Testing of Destructors for Radio Equipment.....	7 Apr 43	D	Issued with OP 995
AV7-43	AN-Mk 33 1000 lbs AP Bomb, Fit of Suspension Lugs....	15 May 43	R	
AV8-43	High Altitude Parachute Flare and Flare Mortar.....	22 May 43	R	
AV9-43	Anti-Personnel Bomb Fuze Attachment for Use with the AN-Mk 219 Fuze	31 May 43	R	
A10-43	Depth Charge Marker Night Mk 2.....	1 Jun 43	R	
AV11-43	Depth Charge Marker Day Mk 1 Mod 1.....	2 Jun 43	R	
AV1-44	Aircraft Parachute Flare 3 Minute, Electrically Operated....	7 Jan 44	R	
A2-44	Demolition Firing Device Mk 1.....	12 Jan 44	R	
A3-44	475 Rocket (WP Smoke) (Assembly No 4 5SMO13).....	16 May 44	R	Issued with OPs 1042, 1111
AV3-44	Fuze, Bomb Tail M123, M124, M125.....	24 Mar 44	R	Supersedes OTI AV13-43
AV1-45	Cluster, Fragmentation Bomb M29, Assembly & Flight Preparation of	8 Feb 45	R	
AV2-45	Hider, Flash T20 for 20-mm Automatic Gun T31 (M3)....	2 Mar 45	R	
AV3-45	Practice Bombs, 500-lb, 20-Gallon Capacity Mk 65 Mod 0 and 1000-lb, 45-Gallon Capacity Mk 66 Mod 0	10 Mar 45	R	
AV5-45	Bombs, Fragmentation, 260-lb M81 and 220-lb AN-M88....	23 May 45	R	
AV6-45	Fin Assemblies for Aircraft Bombs, Assembly of.....	3 Jul 45	R	Supersedes OTI AV4-45
F1-43	Computer Mk 1 and Mods, Disarrangement of Elevation Gear Trains	23 Mar 43	R	Issued with ODs 3133, 3137, 3139, 3180, 3181, 3183, 4174, 4203
FV2-43	Illuminated Sight Mk 9 & Mk 9 Mod 1.....	6 May 43	D	
F3-43	AA Range Indicator Mk 1, Method of Attaching Lanyard..	3 May 43	R	Issued with OD 4392
FV4-43	Illuminated Sight Mk 8, Boresighting at Short Ranges.....	27 May 43	R	Issued with OP 803
FV5-43	Measures to be taken in preventing breakage of the Lamp Housing of the Mk 8 Illuminated Sight	15 Jun 43	R	Issued with OP 803 and OTI FV12-43
F6-43	Stable Elements Mk 5 & Mk 6 Revised Instructions for.... (A) Collector Ring Replacement & Maintenance (B) Gyro Wheel Bearing Lubrication	24 Jul 43	R	Issued with OD 2599. Cancels page 63, 2nd paragraph of OD 2599
F7-43	Fire Control Radar Antenna Mounts, Lubrication of.....	29 Jul 43	R	
F9-43	Pilot Valve Assembling Tool-Oil Gear, Remote Control System M5	12 Aug 43	R	
FV10-43	Stand-by Optical Ring Sight for Use with Illuminated Sight Mk 9	14 Aug 43	R	
FV12-43	Sight, Illuminated Mk 8 & Mods and Torpedo Director Mk 30 & Mods Repair of Damaged Lamp Housing	11 Oct 43	R	Issued with OTI FV5-43 and OP 803
F13-43	Periodic Tests on Gun Sight Mk 14 Mods 2, 3, and 4.....	22 Dec 43	R	Issued with OD 4429
F1-44	Offset Wedge Attachment Mk 7 Mod 1, and Mk 8.....	7 Jan 44	R	
FV1-44	Illuminated Sight Mk 9 and Mods, Adjustable Reflector....	11 Feb 44	R	Issued with OCL V23-43
F2-44	Gun Train Indicator Mk 52 Mods 1 and 2, Target Designation Transmitter Mk 8 Mods 1 and 2 (A) Loosening of Dial and Gear Clamps (B) Increasing Clearance between Mk 52 Case and Anti-Vibration Mount	2 Feb 44	R	Issued with OP 972
FV2-44	Torpedo Director Mk 30 and Mods, Adjustable Reflector...	18 Feb 44	R	Issued with OCL V23-43, and OP 982
FV3-44	Boresight Fitting	22 Jun 44	R	Issued with OP 985
F5-44	Exposed Optical Instruments, Canvas Covers for Eyepieces.	12 Apr 44	R	Issued with OD 4486 Rev A
F6-44	Power Drives Mks 5 & 6 5T4 Rectifier Tubes in Amplifier Unit	6 Jun 44	R	

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OTI No.	Title	Date	Class	Remarks
F7-44	Relocation of Starshell Spot Transmitter Mk 1 and Searchlight Control Transmitter Mk 1 and Mods	10 Jun 44	R	Issued with Ordalts 1971 and 2003
F9-44	Gun Director Mk 51 Mod 3--Removal of Fuses.....	10 Jun 44	R	
F10-44	Eyeguards for Optical Instruments--Ventilation of to Prevent Eyepiece Fogging	30 Jun 44	R	
F14-44	Gun Sight Mk 15--Telescope Boresight Adjusting Wrench Modification	18 Jul 44	R	Issued with OP 1098 (Preliminary)
F15-44	Gunsight Mk 15, Modification of Tools in Ship's Spares.... (A) Adjusting Wrench for Telescope Filter Control Packing Gland (B) Adjusting Wrench for Telescope Spotting Control Gland	29 Jul 44	R	
F19-44	Gunsight Mk 14--Change in Characteristic Time Test Tolerances	16 Aug 44	R	Issued with OP 1040, ODs 4369 & 4429
F20-44	Gunsight Mk 15, External Rheostat Stop.....	26 Sep 44	R	Issued with OP 1098
F21-44	Gunsight Mk 14, Modification of Repair Shop Tools and Fixtures	25 Sep 44	R	Issued with OD 4369
F22-44	Optical Instruments, Reflection Reducing Film, Removal of..	27 Sep 44	R	Issued with OP 463. Supersedes OTI F8-44
F24-44	Gun Sight Mk 14 Mod 6 Modification of Repair Shop Tools and Fixtures (A) Pressing, Drilling and Pinning Fixture for Train Mirror Assembly (B) Range Spring Clamp Wrench	9 Oct 44	R	Issued with OD 4369
F25-44	Gun Sight Mk 14 Gyro Repair..... (A) Replacement of Racks and Tracks in Range Unit (B) Replacement of Range Unit	11 Oct 44	R	Issued with OD 4369
F26-44	Computer Mk 1 and Mods Serial Nos 1-475 Checking of Clearance between Cover No 4 and Limit Stop L21	24 Nov 44	R	
F27-44	Optical Instruments, Separation of Doublet Lenses Cemented by New Process	20 Nov 44	R	Supersedes OTI F11-44
F28-44	Radar Antenna Mount Mk 16 and Mods, Description of....	8 Dec 44	R	Supersedes OTI F16-44
F1-45	Optical Instruments, Reflection Reducing Film Decalcomanias for	7 Feb 45	R	
G3-43	90-mm Mounts, M1 and M1A1, Recoil Mechanism Adjustment of the Length of Recoil	9 Mar 43	D	
G6-43	40-mm AA Gun Mechanisms Mk 1 and Mk 2 and Mods, Rammer Rod Failure	19 Mar 43	D	Issued with OP 820
G8-43	1710 Machine Gun Mechanism Mk 1 and Mk 1 Mods 1 & 2 Modification of Retracting Tool	26 Mar 43	D	Issued with OP 806 1st rev
GV14-43	Instructions for Staking Pin To Secure Spring Guide of Hydraulic Charger for 20-mm AN-M2 Aircraft Gun	17 May 43	R	
GV15-43	Oil Buffer Tube Lock Modification of For .50 Cal BAM Guns	7 Jun 43	R	
G16-43	1710 Magazine Mk 2 and Mods Latch Bar Lock.....	9 Jun 43	R	Issued with OP 772
G17-43	5" Projectile Hoists Mk 2 and Mods, Mk 3 and Mods and Mk 4 and Mods, Adjustment of	17 Jun 43	R	Issued with OPs 735, 745, 748, 805
GV23-43	Sear Stop Assembly, Browning Aircraft Machine Gun Caliber .30, M2	23 Jul 43	R	Issued with SNL A-28
G25-43	Change in Bottom Azimuth Handcrank Bearing--40-mm AA Gun Carriage M2 and M3	12 Aug 43	R	Issued with TM9-1252
G26-43	Lubrication of Wheel Bearings 40-mm AA Gun Carriage M1 and M2	12 Aug 43	R	Issued with TM9-1252
G27-43	Lubricating Fitting for Right Trunnion Bearing--40-mm AA Gun Carriage M1 and M2	12 Aug 43	R	Issued with TM9-1252
GV30-43	Cleaning, Lubrication and Preservation of Aircraft Guns....	27 Aug 43	R	Issued with TM9-205. Supersedes OCL V3-43

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OTI No.	Title	Date	Class	Remarks
GV31-43	Re-Staking of Retaining Ring on Mk 1 Trunnion Bolt Assembly & Mk 1 Rear Mounting Post Assembly of Early Manufacture	27 Sep 43	R	
G32-43	Removal of Oil and Certain Parts from Oil Buffer on the Browning Cal .50 M2 Heavy Barrel Machine Gun	24 Sep 43	R	
G33-43	Train & Elevation Power Drives Mk 5 and Mods, Train Power Drive Mk 6 Mod 3, Attachment of Synchro Adjusting Specification Numbers	5 Oct 43	R	Issued with OD 4408
GV35-43	Maintenance of Maximum Belt Lifting Capacity in Browning Aircraft Machine Guns Cal .30 and .50 M2	18 Nov 43	R	
G1-44	5"/38 Cal Twin Mounts, Method and Devices for Cutting-out Firing of One Gun	10 Jan 44	R	
GV1-44	Flash Eliminator Mk 1 for Caliber .50 BAM Guns.....	14 Feb 44	R	
G2-44	Barrel Removing Wrench for 20-mm AA Gun.....	14 Feb 44	R	
GV2-44	20-mm Feed Mechanism AN-M1A1 for 20-mm Aircraft Automatic Gun AN-M2	8 May 44	R	Issued with OP 965 and TM 9-227
G3-44	3"/50 Cal Gun Mounts Solenoids Mk 5 and Mods, Sealing of	18 Mar 44	R	
GV3-44	20-mm Aircraft Automatic Guns, Breechblock Assembly Tool for	27 May 44	R	
G4-44	6" Training & Elevating Gear, Electric Hydraulic Equipment Used on BB's, CA's, and CL's For Main Battery Remote Control Installation	2 Mar 44	R	
GV4-44	Recent Changes in 20-mm Aircraft Gun AN-M2.....	8 Jun 44	R	
G5-44	1"10 Machine Gun Mechanism Mk 1 and Mk 1 Mods 1 & 2 Carrier Retracting Tool	17 Apr 44	R	Issued with OP 806 1st rev
GV5-44	Correct Loading Procedure for Browning Aircraft Machine Guns Caliber .30 AN-M2 and Caliber .50 AN-M2	11 Aug 44	R	
G6-44	Browning Automatic Rifles M1918A2 Method for Obtaining Single Round Semi-Automatic Firing	19 Apr 44	R	
GV6-44	Substitution of Roller for Ball Bearing in Cylinder End Assembly for Hydraulic Gun Charger AN-Mark 2	25 Aug 44	R	
G7-44	Electric Hydraulic Rammers for 5"/25 Caliber and 5"/38 Caliber Gun Mounts and Loading Machines, Precaution to Prevent Damage to Rammer Piston Rods	1 May 44	R	Issued with OPs 553, 700, 735, 740, 742, 743, 748, 775, 783, 805, 868, 895, 1013, 1105
GV7-44	Sear Holders and Sear Assemblies for Caliber .30 Browning Machine Gun M-2	12 Sep 44	R	Supersedes OTI GV18-43
GV8-44	Instructions for Use of Solvent, Nitro Powder, U.S. Army Spec RIXS 205 in Cleaning Aircraft Guns	19 Sep 44	R	Issued with TM9-205, TM 9-225, TM9-227
G9-44	Cartridge Case Extractor Tools for 3"/50, 5"/25, 5"/38 and 6"/47 Caliber Guns with Sliding Breech Blocks	3 Jun 44	R	
GV9-44	Caliber .50 BAM Gun M2, Aircraft Basic—Use of Correct Belt Feed Lever Cotter Pin	27 Sep 44	R	
G10-44	40-mm AAG Mounts Mks 1 & 2 and Mods—Addition of Corrosion Inhibitor to Coolant Water	19 Jun 44	R	
GV10-44	20-mm Automatic Aircraft Gun AN-M2 and Feed Mechanism AN-M1A1—Supplementary Maintenance Instructions	20 Nov 44	R	
GV11-44	Bendix Hydraulic Gun Charging Valve, Special Precautions in Use of	20 Dec 44	R	
G12-44	20-mm Machine Gun Mechanism Mk 4—Correct Assembling of the Parallelogram Linkage Assembly	3 Jul 44	R	Will be superseded by revised OP 911
G13-44	Firing Panel Mk 11 Mod 1 Installation and Test of Electrical Wiring	14 Jul 44	R	
G16-44	Removal of Flywheel from Train Drive Shaft of 40-mm Mounts Mk 2 Mods 14, 16, 18, 20	16 Aug 44	R	
G19-44	Train and Elevation Power Drives Mk 5 and 6, (For 40-mm Mounts Mks 1 & 2) Elimination of Selenium Rectifier Units from Handle Control	16 Oct 44	R	Supersedes OTI G15-44

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OTI No.	Title	Date	Class	Remarks
G1-45	Turret Firing Stop Mechanism Mk 3 Mods 0, 1, 2 and 3, Adjustment of Danger Zone and IPA Switch	10 Feb 45	R	
G2-45	40-mm Mounts Mk 1 and Mods and Mk 2 and Mods, Lubrication of Firing Mechanism Spring and Rod Assembly	16 May 45	R	
GV2-45	Mounting of Electric Gun Charger Mk 3 and Mods on BAM Guns Cal .50 AN-M2 Equipped with Adjustable Trigger Bar Stop, Special Retaining Screw for	16 May 45	R	
M1-43	Position of Bail when Married to Anchor of the Mk 16 Mine	10 Apr 43	R	Issued with OP 876
M12-43	Depth Charge Pistol and Booster Extender Mechanism Mk 6 and Mk 6 Mod 1	8 Dec 43	R	
M2-44	Depth Charge Pistol and Booster Extender Mechanism Mk 6 and Mk 6 Mod 1 Maintenance Procedure For	24 Mar 44	R	Issued with OP 747 1st rev
MV2-44	Calculated Air Trajectories of Aircraft Laid Mines Mk 12 Mod 1, Mk 25, AN-Mk 26 Mod 1, and Mk 13 Type	24 Apr 44	R	Issued with OP 1118. Supersedes OTI MVI-44. To be superseded by Changes to OPs 901, 905, 1394, and 1395
M3-44	Precautions to be Observed in the Winding of Clock Delay Mechanisms Used in Mines	21 Apr 44	R	Issued with OP 1118
M4-44	Sealing Openings in Mine Assemblies.....	19 Jun 44	R	Supersedes OTI M4-43. Issued with OPs 876, 1st Rev, 888, 900, 901, 902, 905 & 954
M7-44	Brake-Tension Setting for Mine Anchors Mk 6 and Mk 16	10 Jul 44	R	Supersedes OTI M10-43. Issued with OPs 876 & 888
M8-44	Mine Mark 12—Modernization of Case Details.....	12 Jul 44	R	
M9-44	Use of "Hydraulic Gear Fluid-flat viscosity" in Dashpots of Mine Anchors Mark 6 and Mark 16	25 Aug 44	R	
M10-44	Depth Charge Pistol and Booster Extender Mechanism Mk 6 Mod 2, Acceptance Test and Inspection	1 Sep 44	R	Issued with OP 747 1st rev
M11-44	Auxiliary Tests To be Run on Delay Arming Clocks Prior to Installation in Mines	26 Sep 44	R	Issued with OPs 901, 902, 905 & 954
T1-43	21" Submarine Torpedo Tubes Gyro Setting Mechanisms, Spindle Packing Rings	27 May 43	R	
T2-43	Instructions for Use of Rust Preventative Compound, Polar, Type Grade III, In Preservation of Torpedoes	31 May 43	R	
T3-43	Instructions for Use of Tool for Removing Booster From Torpedo War Heads	4 Jun 43	R	
T9-43	Torpedo Exercise Heads—Adjustment and Maintenance of Air Blow Mechanisms	5 Aug 43	R	
T10-43	Mark 6 Mod 1 Exploder Mechanism—Adjustment of Brush Holder Clearance	6 Aug 43	R	Issued with OP 663
T15-43	Submarine Torpedoes, Prevention of Sea-Water Leakage in	15 Oct 43	R	Issued with OTI T15a-43
T15a-43	Submarine Torpedoes, Prevention of Sea Water Leakage in	30 Nov 43	R	Issued with OTI T15-43
T17-43	Mk 4 Mod 1, Mk 4 Mod 2, Mk 5, Mk 5 Mod 1 Exploder Mechanisms, Instructions for Freeing Up Trigger Cap	26 Nov 43	R	Issued with OP 663 Supersedes OTI T8-43
T19-43	Torpedo Exercise Heads—Operational Test For.....	22 Dec 43	R	Issued with OD 750
T2-44	Exploder Mechanisms Mk 6 Mods 1, 1A, & 1B Mk 4 Mod 1—ACM Units	28 Mar 44	R	Supersedes OTIs T14-43 and T16-43. Issued with OP 663
T3-44	Torpedo Exercise Heads, Air Releasing Mechanism Mk 3...	4 Apr 44	R	
T4-44	2170 Submerged Torpedo Tubes SS170 ET SEQ Graduation of Depth Setting Mechanism, Index Dial	6 Apr 44	R	
T5-44	Gyro Mechanisms with Movable Top Plates, Adjustment of Clearances Between Pallet and Pallet Pawls	12 Apr 44	R	Issued with OPs 627A, 635, 642 and 946
T6-44	Torpedo Mk 10 Mod 3 Distance Gear Index Modifications	24 Apr 44	R	Issued with OP 608
T7-44	Torpedo Exercise Heads, Tool for Unseating Air Release Mechanism	26 Apr 44	R	

NUMERICAL LISTING—NAVORD OTIs

OTI No.	Title	Date	Class	Remarks
T9-44	Torpedo Exploder Mechanism Mk 6 Mods 5 & 6, Impact Switch Mounting	7 Sep 44	R	Supersedes OTI T8-44. Issued with Ordalt 1603
T11-44	Standard Torpedo Test Panel, Strainer Body.....	16 Dec 44	R	
T1-45	Torpedoes Marks 14, 15 and 23 Types—Ball Bearings.....	12 Jan 45	R	
T2-45	Depth Steering Line, Tool for Centering.....	29 Mar 45	R	
V4-43	Bombsight Blanket Mk 1, Electrically Heated.....	23 Mar 43	D	
V13-43	Electric Trigger Controls Mk 5 and Mk 5 Mod 1 for Cal .30 and cal .50 BAM Guns	15 Apr 43	D	
V17-43	Trunnion Bolt Mk 1 for Cal .30 and Cal .50 BAM Guns....	21 Apr 43	D	
V19-43	Bombsight Stabilizer Wiring Change for Mk 2 SBAE.....	19 May 43	R	Issued with OP 640
V20-43	Release, Bomb Shackle Type N-2.....	25 May 43	R	
V23-43	Distributor, Bomb Station Type SD-1.....	14 Jun 43	R	
V24-43	Rear Mounting Post Mk 1 for Cal .30 and .50 BAM Guns	15 Jun 43	R	
V28-43	Release, Bomb Shackle Type N-2, Correct Installation procedure	23 Jun 43	R	
V30-43	Lock Washer for the Rear Mounting Post Mk 1.....	30 Jun 43	R	
V31-43	Bomb Racks Mk 43 Mods 1 and 2—Procedure for Preventing Inadvertent Releases from After Compartments	9 Jul 43	R	
V32-43	Auxiliary Bomb Handling Equipment.....	22 Jul 43	R	
V36-43	Mk 42 Bomb Racks, Replacement of Defective Hook Latches & Bomb Hooks	19 Aug 43	R	Issued with OP 581
V37-43	Bomb Rack Mk 46 & Mk 46 Mod 1.....	26 Aug 43	R	
V38-43	General Arrangement of the Bomb Rack Adapter Mk 1....	10 Sep 43	R	
V41-43	Mk 15 Mods 4 to 7 Bombsight, Measurement of Bombsight Constant as Check of Computer Mechanism & Adjustment of Trial Arm	19 Oct 43	R	Issued with OPs 649 & 650
V43-43	Special Precautions Regarding Installation of the Rear Mechanism Assembly & Use of the Safety Switch of Gun Mount Adapter Type E-12	15 Nov 43	R	
V44-43	Bomb Rack & Shackle Latching Tools.....	24 Apr 44	R	
V45-43	20-mm Aircraft Automatic Gun AN-M2, Plastic Muzzle Cover for	21 Dec 43	R	Issued with TM9-227
V2-44	RS-2 Rack Selector, Sealing of.....	10 Jan 44	R	Issued with OP 1072
V5-44	Truck, Bomb & Torpedo Mk 5 Mod 2.....	16 Feb 44	R	Issued with OP 1073
V6-44	Bomb & Torpedo Trucks Mk 2 Mod 2, Adaptation of for use as an Aid in Bore-sighting Fixed Aircraft Machine Guns	18 Feb 44	R	Issued with OP 1073
V8-44	Bomb Shackle Mk 4 & Mods Operational & Maintenance Instructions	30 Mar 44	R	Issued with OP 976
V14-44	Aircraft Depth Bombs, Instructions for Installation of Arming Wires on Bomb Racks & Bomb Shackles	20 Jun 44	R	Issued with OPs 988 & 1084
V15-44	Interstate Bomb Shackles D-820, D-820 Mod 1 and D-820 Mod 2	9 Jun 44	R	
V16-44	Maintenance of Bomb Racks Mk 50 & 51 Types.....	19 Jun 44	R	Issued with OPs 925 & 936
V17-44	Bombsights, Stabilizers and SBAE Installed in Aircraft, Preservation and Maintenance of	22 Jun 44	R	Issued with OPs 650 & 659
V21-44	Stabilized Bombing Approach Equipment Mk 2 Mod 1—Interchangeability of Servo Motor Cable Drum	5 Aug 44	R	
V22-44	Skid, Bomb, & Torpedo Mk 7 Mod 0.....	8 Aug 44	R	
V23-44	Tester, Interval and Dwell Type WA-2300, Use of for Testing Intervalometers	18 Aug 44	R	Issued with OPs 1053 and 1099
V25-44	Wrench, Special for AN-E10 Gun Mount Adapter Mk 15, BAM Gun Cal .50, Instructions for Manufacture of	9 Sep 44	R	
V26-44	Modifications to Aircraft Bomb Suspension Lugs.....	12 Sep 44	R	
V1-45	Hoisting Sling (Set) Mk 25 Mod 0.....	13 Mar 45	D	

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ORDNANCE HANDLING INSTRUCTIONS (NAVORD OHIs)

OHI No.	Title	Date	Class	Remarks
A12-43	1000-lb AP Bomb AN Mk 33 List of Attachments Packed in Each Bomb Tail Crate	Undated	D	
AV16-43	Photoflash Bomb M46	17 Jul 43	D	
AV20-43	Assembling Instructions for Signal, Drift, Night, Rocket, Mk 15 and Mk 15 Mod 1 and Mk 16 and Mk 16 Mod 1	22 Sep 43	D	
AV22-43	Instructions for T2 and T3E1, 1000 lb Chemical Bombs CG-Loaded	9 Sep 43	R	
AV2-44	AN-M Destructors	24 Jan 44	D	
A3-44	Instructions for Installing, Demolition Outfit Mk 112 for PD Pack	4 Feb 44	D	
A4-44	Demolition Firing Device Mk 3	14 Mar 44	R	Supersedes OHI A1-44
AV4-44	375 Rocket Ammunition Assembly No. 10, Instructions for Assembly and Firing of	4 Apr 44	R	
A5-44	Installation of NF Mk 152 in 772 Demolition Rocket Body for Use Against Land Mines etc.	24 Mar 44	R	
A6-44	Assembly of Demolition Outfit Mk 112	26 Aug 44	R	
AV8-44	Aircraft Bomb Fin Assemblies, Interchangeability of	2 Nov 44	R	
A2-45	Instructions for Installation and Use of the 2725 Rocket Firing Indicator	9 Feb 45	D	
AV2-45	570 Aircraft Rockets Mk 4 Mod 0	12 Apr 45	R	
A3-45	Instructions for Assembly of Igniters, Incendiary, Gasoline Tank, M13, M14, M15, M16	15 Mar 45	D	
AV3-45	375 Aircraft Rocket Mk 1 Mods 0 and 1 and 570 Aircraft Rocket Mk 1 Mods 0, 1, 2, 3, and 4	24 Apr 45	R	
A4-45	Demolition Outfit Mk 127 Mod 0	18 Apr 45	D	
AV4-45	570 Aircraft Rocket Mk 1 Mod 5	16 May 45	R	
A5-45	570 Rocket (Surface High Capacity, SS) Mk 10 Mod 1 with VT Fuze	20 Jul 45	R	
AV5-45	11775 Aircraft Rocket Mk 3 Mod 0	24 May 45	R	
A6-45	570 Rocket (570 Motor) Spin Stabilized	2 Aug 45	R	
A8-45	Cavity Charge Container Mk 4 Mod 1	17 Aug 45	R	
A9-45	Bomb (Target Identification, Smoke) Mk 72 Mod 1	31 Oct 45	D	
C1-43	Smoke Generator Rack Mk 1	13 Sep 43	D	Component of Smoke Screen Generator Mk 3
F1-43	Illuminated Sight Mk 9 and Mk 9 Mod 1	6 Apr 43	D	
FV2-44	Gun Sight Mk 21	26 Apr 44	R	
FV3-44	Glide Bombing Attachment Mk 2 Mod 1	30 Jun 44	R	
FV5-44	Carbon Pile Voltage Regulator Mk 1	3 Aug 44	D	
FV7-44	Bracket, Mounting (Illuminated Sight) Mk 2 Mod 0	27 Dec 44	D	
F1-45	Gun Sight Mk 14 Mod 15, Connecting of to Power Unit	2 May 45	R	
F2-45	Anti-Fog Compound 1-Y, Request for Test and Report	16 May 45	R	
G1-44	20-mm Assembly Cover Mk 3 Mod 0, Instructions for Installing & Removing	28 Dec 44	R	
G1-45	40-mm Boresight Mk 2 Mod 0	11 May 45	R	
GV1-45	Cover Limit Stop For Use with Cal .50 BAM Gun AN-M2 and Cal .50 M3 Aircraft Machine Guns	21 Aug 45	D	
M1-44	Mines & Depth Charges Mk 10 Mod 3, Anchor, Coupling Adapter for	20 Jan 44	D	
M2-44	Installation of Depth Charge Pistol Mk 7 Mod 1 in Depth Charge Mk 8	12 May 44	D	
T1-44	3000-lb Spherical Floats Mk 1 Mod 2 Stowage, Handling & Repair of	14 Jul 44	R	

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NUMERICAL LISTING—NAVORD OHIs

OHI No.	Title	Date	Class	Remarks
V6-43	Installation Instructions for SBAE Mk 2 Mod 1 in SNB-1 Airplane	14 Aug 43	R	
V7-43	Gasoline Operated Motor-Generator Sets for Bombsight Shops	10 Aug 43	R	
V5-44	Aircraft Flare Container Mk 1 Mod 0.....	2 Jun 44	R	
V7-44	Station Distributor Mk 3 and Mk 3 Mod 1.....	10 Jul 44	R	Supersedes OHI V2-44
V1-45	Bomb Sld Adapter Mk 3 Mod 0.....	21 Mar 45	R	
V3-45	Bombsight Mk 23.....	24 Apr 45	R	
V4-45	Tow Target Container Mk 1 Mod 1 and Mk 1 Mod 2.....	16 May 45	D	

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AVIATION ORDNANCE MODIFICATION INSTRUCTIONS (NAVORD OMIs)

OMI No.	Title	Date	Class	Remarks
V1-43	Modifications of Caliber .50 Link Loading Machine Mk 1.....	18 Nov 43	R	
V2-43	Electric Trigger Control Mk 5 & Mk 5 Mod 1 of Early Manufacture, Removal of Adjusting Cap Stop	23 Nov 43	R	
V4-43	20-mm Aircraft Automatic Gun AN-M2 Installation of Firing Pin	17 Dec 43	R	
V5-43	Bombsight Mk 15 Mods 4, 5, 7 Change in Wiring.....	20 Dec 43	D	Issued with Ordalt 1780
V1-44	New Type Lamps for Illuminated Sights Mk 8 & Mods, Torpedo Director Mk 30 & Mods and Illuminated Sights Mk 9 and 24 Volt Mods	5 Jan 44	D	
V2-44	Bomb Shackle Mk 4 Type, Replacement of Lower Solenoid Retaining Bolts with Revised Bolts	7 Feb 44	D	Issued with OP 976
V3-44	Caliber .50 Browning Aircraft Machine Gun M-2, Modification of Cocking Lever Pin, Alternative Head Type	18 Mar 44	R	
V4-44	Gun Mount Adapter Mk 6 Mod 3 & Certain Gun Mount Adapters Mk 6 Mod 2, Relocation of Illuminated Sight Mk 9 Mounting Bracket	28 Mar 44	D	Issued with Ordalt 1746
V6-44	Bomb Shackles Mk 3 Type & Mk 4 Type, Modification of Pawl Latching Lever	17 Apr 44	D	Issued with OPs 978, 975
V7-44	Truck, Bomb & Torpedo Mk 5 Mod 1, Modification of to Include Torpedo Tilting Adapter	24 Apr 44	R	Issued with OP 1073
V8-44	Antiaircraft Target Reel C-5, Pinning of Drum Shaft & Hub....	28 Apr 44	R	
V9-44	Provisions for Locking Bomb Shackles Mk 5 & Mods.....	29 Apr 44	R	Issued with OP 977
V10-44	Modification of Continuous Feed Unit Ratchet Pawl on the Twin Caliber .30 Gun Mount Adapters Mk 11 Mods 3 & 4 & Mk 14	8 May 44	R	
V11-44	Truck, Bomb & Torpedo Mk 5 Mod 1. Installation of Steering Knuckle Pin Setscrews	9 May 44	D	Issued with OP 1073
V15-44	Electric Rewind Motor 24 Volt EE-800 Series (For Antiaircraft Target Reel Type C-5) Conversion of Control Box	22 Jun 44	D	
V16-44	Illuminated Sight Mk 9 & Mods, Buffer Pad for.....	22 Jun 44	R	
V17-44	Illuminated Sight Mk 8—New improved Lamp Housing, Spring Clip for	18 Jul 44	R	Issued with OP 803
V18-44	Valve, Carbon Dioxide Regulator for Smoke Tanks—Installation of Outlet Fitting Adapter	26 Jul 44	D	
V19-44	Bomb Shackles Mk 4 & Mk 4 Mods 1, 2, 3 Addition of Bomb Lug Displacing Bracket	27 Jul 44	D	Issued with OP 976
V20-44	Illuminated Sight Mk 8 Type, Buffer Pad & Inclinator Vial for Use with Stripped Version of	10 Aug 44	R	
V22-44	Bomb Rack Mk 47 & Mk 47 Mod 1, Prevention of Inadvertent Release	1 Sep 44	D	Issued with OP 1082
V24-44	Caliber .50 Browning Machine Gun M-2 Aircraft Basic—Installation of Barrel Locking Spring Stop Pin	27 Sep 44	R	
V27-44	Electric Gun Charger Mk 3 & Mk 3 Mod 1, Modification of Roller Chain	10 Nov 44	D	Issued with OP 1114
V28-44	Station Distributors Mk 3 Mod 0 & Mk 3 Mod 1 Replacement of Guard for "ON"—"OFF" Switch	20 Nov 44	D	
V29-44	Rear Mounting Post Mk 1 & Mods, Serrated Washer for Locking Horizontal Adjustment	21 Nov 44	D	
V30-44	Illuminated Sight Mk 8 & Mods Removal of Sun Filter From...	24 Nov 44	R	Issued with OPs 803 and 803A

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NUMERICAL LISTING—NAVORD OMI's

OMI No.	Title	Date	Class	Remarks
V32-44	Link Loading Machines Mk 1 & Mk 3—Conversion of Fly-wheel Drive	26 Dec 44	D	
V1-45	Modification of Retracting Slide Bracket C46029A BAM Gun Caliber .50, M-2 to prevent Interference with Sight Bracket Mounting Post of Mark 10 & Mods Gun Mount Adapter	12 Jan 45	D	Issued with OP 865
V3-45	Trunnion Band M5, Modification to.....	5 Feb 45	R	Supersedes OMI V31-44
V4-45	Modification of Retracting Slide Group Assembly for Browning Aircraft Machine Gun Caliber .50, M2 Stock Nos 1-S-9428, Drawing No D-73953	23 Feb 45	D	Issued with OP 865
V5-45	Bomb Shackles Mk 3 and Mk 3 Mods 1, 2, and 3, Addition of Bomb Lug Displacing Bracket	21 Mar 45	D	Issued with OP 978
V7-45	Conversion of Station Distributors Mk 3 Mod 0 and Mk 3 Mod 1 to Mk 3 Mod 2	7 Apr 45	D	Issued with OP 1106
V8-45	Modification of Continuous Feed Unit on the Twin Cal .30 Gun Mount Adapters Mk 11 Mods 3, 4, and 5, Mk 14 and Mk 14 Mod 1, to Prevent Jamming of Ammunition	14 Apr 45	D	
V9-45	Modification of Cable Fitting for Portable Bomb Hoist, AN-Mk 8 Mod 0, Stock Number 3C113-100	12 May 45	D	
V10-45	Bomb Carrier Mk 7 Mod 0, Addition of Sway Brace Assembly	16 May 45	D	
V11-45	AA Target Reels Type C-5 and Mk 9, Installation of Modified Level Winding Guide Roller Assembly	22 May 45	D	
V12-45	Modification of Retracting Slide Group Assembly for Browning Aircraft Machine Gun Cal .30 M2 Drawing No. C4098, Stock No. 1-S-9426	5 Jun 45	D	
V13-45	Smoke Screen Tank Mk 5 and Mods (Discharge Valve Release Lever Assembly)	11 Jul 45	R	
V15-45	Conversion of Gun Sight Mk 18 Mod 0 to Gun Sight Mk 18 Mod 4	23 Jul 45	R	
V16-45	Boresight Locking Plate for Mk 4 Type Rear Mounting Post	6 Aug 45	R	
V17-45	Station Distributor Mk 5 Mods 0 and 1, Replacement of Lead Wire No 50 and Clare Output Relay Mounting Screws	10 Sep 45	D	
V18-45	Conversion of Incendiary Mixer Mk 1 Mod 0 to Mk 1 Mod 1	13 Sep 45	D	
V19-45	Bomb Racks Mk 51 Mods 11 and 12, Modification of Hoisting Bracket	13 Sep 45	D	
V20-45	Mounting Bracket (Illuminated Sight) Mk 1 Mod 3 for Armor Glass Reflection Aircraft Sight Installation, Replacement of Adjusting Screw	29 Oct 45	D	Supersedes OMI V14-45
V21-45	Provisions for Locking Bomb Shackle Type AN-B-10	8 Nov 45	R	
V22-45	Reel Drive (Electric) Mk 3 Mods 0 and 1.....	14 Nov 45	D	
V23-45	Suspension Band Mk 10 Mod 0, Modification to.....	23 Nov 45	D	
V1-46	Mounting of Data Card Holder Bombsight and Stabilizer Mk 15, SBAE Mk 2, and GBA Mk 2	22 Jan 46	D	Supersedes OMI V25-44

OMI's

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NAVORD CHARTS

(Not Issued to Fleet Activities)

Chart No.	Title	Date	Class	Remarks
AV1-43	Instruction Chart 100 lb GP Bomb AN-M30.....		R	
AV3-43	Instruction Chart 1000 lb GP Bomb Mk 13 Mod 2.....		R	
AV4-43	Instruction Chart 500 lb GP Bomb Mk 12 Mod 2.....		R	
AV5-43	Instruction Chart 325 lb Depth Bomb AN-MK 41.....		R	
AV6-43	Instruction Chart 500 lb GP Bomb AN-M64-AN-M43.....		R	
AV7-43	Instruction Chart 1000 lb GP Bomb AN-M65-AN-M44.....		R	
AV8-43	Instruction Chart 1000 lb AP Bomb AN-Mk 33.....		R	
AV9-43	Instruction Chart 1000 lb SAP Bomb AN-M59.....		R	
AV10-43	Instruction Chart 250 lb GP Bomb AN-M57.....		R	
AV12-43	Instruction Chart 100 lb Chemical Bomb AN-M70.....		R	
AV13-43	Instruction Chart 4 lb Incendiary Bomb AN-M50A1, AN-M50A2		R	
AV14-43	Instruction Chart 4 lb Incendiary Bomb AN-M54.....		R	
AV15-43	Instruction Chart 6 lb Incendiary Bomb AN-M69.....		R	
AV18-43	Instruction Chart 23 lb Fragmentation Bomb, Parachute AN-M40		R	
AV20-43	Instruction Chart 3 lb Antiaircraft Bomb Mk 34.....		R	
AV21-43	Bomb Fuzes, Tail AN-M100A2, 101A2 and 102A2.....		R	
AV22-43	Bomb Fuze AN-M103 (Nose).....	30 Oct 43	R	
AV23-43	Bomb Fuze, Nose AN-M104.....		R	
AV24-43	Bomb Fuze (Nose) Mk 221.....	12 Nov 43	R	
AV26-43	Bomb Fuze (Nose) AN-M110, 110A1.....	30 Nov 43	R	
AV27-43	Flare Fuze AN-M111A1, AN-M111A2 (Mechanical Time)	12 Nov 43	R	
AV28-43	Bomb Fuze (Tail) M112, M113, M114 Quick Arming for "Masthead Bombing"	12 Nov 43	R	
AV29-43	Bomb Fuze, Nose AN-Mk 219.....	Undated	R	
AV30-43	Bomb Fuze AN-Mk 224.....	30 Oct 43	R	
AV31-43	Bomb Fuze (Tail) AN-Mk 228, Mk 223.....	12 Nov 43	R	
AV33-43	Bomb Fuzes Mk 227.....	Undated	R	
AV34-43	Bomb Fuze (Nose) M126, 126A1.....	30 Oct 43	R	
AV35-43	Bomb Fuzes M123, M124, M125 Long Delay Action.....	12 Nov 43	R	
AV36-43	Bomb Fuzes (Nose) AN-M120.....	30 Oct 43	R	
AV37-43	Bomb Fuzes (Tail) M115, 116, 117.....	30 Oct 43	R	
AV38-43	Bomb Fuze Mk 234 Hydrostatic (Aftwardship).....	30 Oct 43	R	
AV39-43	Instruction Chart Base Detonating Fuze Mk 3B & Mk 3 Mod 2	1 Sep 43	R	Reclassified Per OCL A111-43
A40-43	Simple Medium Caliber Ignition Fuze with Tracer (Base) Mk 10 Mod 4	1 Sep 43	R	Reclassified Per OCL A111-43
A41-43	Base Detonating Fuze Mk 13 Mods 6 & 7.....	1 Sep 43	R	Reclassified Per OCL A111-43
A43-43	Mechanical Time Fuzes—Clock (Nose) Mk 18, 22, 25.....	1 Sep 43	R	Reclassified Per OCL A111-43
A45-43	Nose Detonating Fuze—Mk 26 & Mk 26 Mods 1, 2.....	1 Sep 43	R	Reclassified Per OCL A111-43
A46-43	Point Detonating Fuze—Mk 27.....	1 Sep 43	R	Reclassified Per OCL A111-43
A47-43	Base Detonating Fuze—Mk 28.....	1 Sep 43	R	Reclassified Per OCL A111-43
A48-43	Point Detonating Fuze—Mk 29.....	1 Sep 43	R	Reclassified Per OCL A111-43
A49-43	20-mm Antiaircraft Cartridge & Details.....	18 Jul 44	R	
A50-43	1" 1/75 Cal Cartridge & Details.....	18 Jul 44	R	
A51-43	40-mm Cartridge & Details.....	18 Jul 44	R	
A52-43	3" 50 Cal Cartridge & Details.....	18 Jul 44	R	
A53-43	5" 38 Cal Complete Round & Details.....	18 Jul 44	R	
*A1-44	Nose Fuze Mk 140.....		R	

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NUMERICAL LISTING—NAVORD CHARTS

Chart No.	Title	Date	Class	Remarks
*AV1-44	100 lb Depth Bomb Mk 52.....		R	
A2-44	Nose Fuze Mk 131 & 136.....	Undated	R	
*AV2-44	2000 lb General Purpose Bomb AN-M66.....	.....	R	
A3-44	Nose Fuze Mk 135.....	Undated	R	
*AV3-44	Aircraft Depth Bomb Mk 53 & 54.....	.....	R	
A4-44	Nose Fuze Mk 137.....	Undated	R	
AV4-44	Bomb Fuze (Nose) Mk 243.....	Undated	R	
A5-44	Nose Fuze Mk 139.....	Undated	R	
A6-44	Nose Fuze Mk 145.....	Undated	R	
AV6-44	Bomb Fuze Mk 229 Mod 3 and AN-Mk 230 Mod 4, Hydrostatic Tail			Supersedes NAVORD CHART AV32-43
A8-44	Nose Fuze Mk 147, Mod 1.....	Undated	R	
A10-44	Nose Fuze Mk 149.....	Undated	R	
A11-44	375 Rocket Ammunition.....	.....	R	
A12-44	475 Rocket Ammunition.....	.....	R	
A13-44	772 Rocket Ammunition.....	.....	R	
A14-44	16"/50 Cal Complete Round and Details.....	2 Aug 44	R	
A15-44	Base Detonating Fuze Mk 31 & Mk 36.....	Undated	R	
A16-44	Point Detonating Fuze Mk 34 Mod 1.....	Undated	R	
A17-44	Auxiliary Detonating Fuze Mk 44.....	Undated	R	
A18-44	Base Detonating Fuze Mk M66A1.....	Undated	R	
A19-44	540 Rocket Ammunition (3725 Motor).....	.....	R	
A20-44	772 Projector Charge.....	.....	R	
FV1-43	Gun Sight Mk 18, Wiring Diagram.....	Undated	R	
FV2-43	Gun Sight Mk 18, Sighting Head.....	Undated	R	
FV3-43	Gun Sight Mk 18, Gyro Unit.....	Undated	R	
FV4-43	Gun Sight Mk 18, Schematic Diagram.....	Undated	R	
FV5-43	Carbon Pile Mk 1, Voltage Regulator.....	.....	R	
F1-44	Gun Sight Mk 14 Mods 6, 7, 8.....	Undated	R	Sperry Charts C6A, C7A, C8A, C9A
*F1-45	Physical Schematic of Gun Fire Control System Mk 57.....	.....		
*F2-45	Flow Schematic of Gun Fire Control System Mk 57.....	.....		
*F3-45	Schematic of Resolver, Velocity Damping Generator and Torque Motor	.....		
*F4-45	Lead Angle Pick-Off System.....	.....		
*F5-45	Director Elevation and Electronic Relay System.....	.....		
*F6-45	Schematic of Computer Mk 16.....	.....		
*F7-45	Gun Elevation Servo System.....	.....		
*F8-45	Director Train and Gun Train Transmission System.....	.....		
*F9-45	Booster Amplifier.....	.....		
*F10-45	Range Transmission System.....	.....		
*F11-45	Radar Range Unit Gearing.....	.....		
*F12-45	Range Rate Transmission System.....	.....		
*F13-45	Wind Transmission System.....	.....		
*F14-45	Cross Roll Transmission System.....	.....		
*F15-45	Amplifier Supply Units.....	.....		
*F16-45	Gyro Air Supply System.....	.....		
GV1-43	Instruction Chart 20-mm Gun Automatic Aircraft Gun AN-M2	Undated	R	
GV2-43	20-mm Feed Mechanism M1A1.....	Undated	R	
GV1-45	Cleaning, Lubrication and Preservation Guide for Aircraft Guns	.....		
*T1-45	Torpedo Mk 13 Type.....	.....		
*T2-45	Torpedo Mk 14 Type.....			
*T3-45	Torpedo Mk 15 Type.....			
*T4-45	Torpedoes Mk 16 and 17 Types.....			

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ORDNANCE PUBLICATIONS

OP 0

Chart No.	Title	Date	Class	Remarks
*T5-45	Torpedo Mk 13 Type.....		..	
*T6-45	Torpedo Mk 14 Type.....	.....	..	
*T7-45	Torpedo Mk 15 Type.....	.....	..	
*T8-45	Torpedoes Mks 16 and 17 Types.....	.....	..	
*T9-45	Torpedo Mk 18 Type (Parts 1, 2, 3, and 4).....	.....	..	
*T10-45	Torpedo Mk 18 Type (Small Chart).....	.....	..	
V1-43	Instruction Chart Bomb Shackle Mk 3 Mods 2, 3.....	16 Aug 43	D	
V2-43	Instruction Chart Bomb Shackle Mk 4 Mods 2 & 3.....	16 Aug 43	D	
V4-43	Instruction Chart Bomb Rack Mk 51 Mods 6 & 7.....	16 Aug 43	D	
V5-43	Instruction Chart Bomb Shackle Mk 5.....	16 Aug 43	D	

*Under preparation.

WAR DEPT. PUBLICATIONS (STOCKED AT NAVGUN)

The following War Department publications, stocked at the Naval Gun Factory, are applicable to ordnance equipment in use by Naval activities. Requests for any War Department publication *not* included in this list should contain an explanation of its projected special use.

Pub. No.	Title	Date	Class	Remarks
SB9-AMM 1	Ammunition General.....	1 Feb 46	D	
SB9-AMM 2	Unsafe Ammunition	17 Aug 44	..	Supersedes SB9-AMM 2 dated 19 Feb 44
SB9-AMM 4	Small-Arms Ammunition	1 Jan 45	..	Supersedes OFSB 3-5 dated 1 Jan 44
SB9-AMM 5	Ammunition Identification Code (A.I.C.)	5 Aug 44	D	
SB9-AMM 6	Ammunition, Supply within Continental United States.....	24 Oct 45	..	
SB9-AMM 7	Inspection of Propelling Charges and Bulk Powder.....	26 Sep 44	..	
SB9-50	Usage Factors for Small-Arms Weapons.....	27 Mar 45	..	
SB3-1	Logistical Data, Mortar Company, Chemical Mortar Battalion	21 Feb 45	D	
SB3-22	List of Standardized Chemical Warfare Major Items.....	14 Feb 45	D	Supersedes ASF Catalog CW 5 dated 9 Mar 44
Form 00-7224	Ordnance Safety Manual Regulations Governing the Manufacture, Storage, Loading & Handling of Military Explosives & Ammunition at Establishments of the Ordnance Dept, U.S.A.	3 May 45	..	Supersedes all previous editions
OFSB 3-14	Ammunition Identification Code (AIC)	1 Jan 43	..	Supersedes OFSB 3-14 dated 1 July 42
OSSC Group S	Ordnance Storage & Shipment Chart.....	1 Nov 42	..	
FM4-110	Antiaircraft Artillery: Gunnery.....	28 Sep 43	..	
FM5-25	Explosives and Demolitions.....	May 1945	D	
FM9-40	Unexploded Bombs, Organization & Operation for Disposal	20 Oct 43	..	
FM23-5	Basic Field Manual—U.S. Rifle Cal .30 M1.....	30 Jul 43	..	
FM23-7	U.S. Carbine Caliber .30 M1 & M1A1.....	23 Apr 44	..	
FM23-15	Browning Automatic Rifle Caliber .30, M1918A2.....	30 Jun 43	..	
FM23-25	Bayonet	7 Sep 43	..	
FM23-30	Hand & Rifle Grenades, Rocket, AT, HE, 2736.....	14 Feb 44	..	
FM23-35	Automatic Pistol Caliber .45 M1911 & M1911A1.....	30 Apr 40	..	
FM23-40	Thompson Submachine Gun, Caliber .45, M1928A1.....	31 Dec 41	..	
FM23-41	Submachine Gun Caliber .45, M3.....	30 Oct 43	..	
FM23-45	Browning Machine Gun, Caliber .30, HB, M1919A4, Ground	12 Apr 43	..	
FM23-65	Browning Machine Gun, Caliber .50 HB, M2.....	Nov 1944	..	Supersedes FM23-60
FM23-92	4.2 Chemical Mortar.....	1 Mar 45	..	
FT	Firing Table for 4.2 Inch Chemical Mortar.....	Undated	..	
FT 81-B-4	Firing Tables—Mortar, 81-mm, M1, Firing Shell, HE M43A1, Shell, Practice, M43A1 and M44 with Fuze, PD, M52B1, M52B2 (Abridged)	9 Jan 45	..	
SNL A-4	Rifle, Automatic, Cal .30, Browning, M1918A2.....	..	..	
SNL A-6	Gun, Machine, Cal .30, Browning, M1919A4, Fixed and Flexible; M1919A5, Fixed; & M1919A6, Flexible; & Ground Mounts	..	..	
SNL A-28	Gun, Machine, Cal .30, Browning, AN-M2, Aircraft, Fixed, Flexible, & Flexible with Fixed Back Plate	..	..	
SNL A-32	Gun, Submachine, Cal .45, Thompson, M1928A1, M1, & M1A1	..	..	
SNL A-35 (ORD 6)	Tools, Maintenance, for Repair of Group A Materiel.....	..	..	
SNL A-38	Gun, Machine, Cal .50, Browning, AN-M2, Aircraft, Basic.....	..	..	

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SNL A-39	Gun, Machine, Cal .50, Browning, M2, Heavy Barrel, Fixed & Flexible; & Ground Mounts			
SNL A-47	Gun, Automatic, 20-mm, M1 & AN-M2 (Aircraft)			
SNL A-50	Gun, Automatic, 40-mm, M1 Carriage, Gun, 40-mm, M2 & M2A1 (AA) Carriage, Gun, Twin 20-mm, M4 (AA) & Mount, Gun 40-mm, M5 (Airborne)			
SNL A-55	Mount, Bracket, M40			
Sec. 31				
SNL A-58	Gun, Submachine Cal .45, M3 and M3A1			
SNL B-6	Pistol, Automatic, Cal .45, M1911 & M1911A1			
SNL B-9	Shotguns			
SNL B-20	Tools, Maintenance, for Repair of Small & Hand Arms, & Pyrotechnic Projectors			
(ORD 6)				
SNL B-21	Rifle, U.S. Cal .30 M1			
SNL B-25	Rifle, Cal .22 (Commercial)			
(ORD 7)				
SNL B-28	Carbine, Cal .30, M1, M1A1, M1A3, and M2			
SNL B-29	Revolver, Colt, Cal .38, Special (Commando & Junior Commando); Revolver, Smith & Wesson, Military & Police, Cal .38, Regular (38/200) & Cal .38, Special			
SNL B-30	Pistol, Colt, Cal .22 Ace			
SNL B-32	Pistol, Automatic, Cal .22 (High Standard), Model B & Model HD			
SNL B-33	Pistol Pyrotechnic, AN-M8 with Mount, Pyrotechnic Pistol, M1			
SNL G-401	Mount, Machine Gun, Multiple Cal .50, M45 and M45C			
(ORD 7-8)				
SNL K-1	Cleaning, Preserving & Lubricating Materials; Recoil Fluids, Special Oils, & Miscellaneous Related Items			
(ORD 5)				
SNL P-1	Projectiles, separate loading, 6" to 240-mm inclusive, for harbor defense, heavy field & railway artillery, including complete round data			
(ORD 11)				
SNL P-2	Charges, Propelling, Separate Loading 6-inch, 155-mm, 8 inch, & 240-mm, for Harbor Defense, Heavy Field, & Railway Artillery			
(ORD 11)				
SNL P-5	Ammunition for antiaircraft artillery			
(ORD 11)				
SNL P-6	Ammunition, fixed, including sub-caliber ammunition, for harbor defense, heavy artillery & railway artillery			
(ORD 11)				
SNL P-7	Fuzes, primers, blank ammunition & miscellaneous items for anti-aircraft, harbor defense, heavy field & railway artillery			
(ORD 11)				
SNL P-8	Ammunition instruction material for antiaircraft, harbor defense, heavy field & railway artillery, including complete round data			
(ORD 11)				
SNL P-9	Ammunition obsolete & Nonstandard, for harbor defense, heavy field & railway artillery			
SNL P-11	Special Ammunition Surveillance, Testing, Inspection & Renovation Tools & Supplies			
(ORD 5)				
SNL R-1	Ammunition, Fixed & Semifixed, Including Sub-Caliber for Pack, Light & Medium Field, Aircraft, Tank, & Antitank Artillery, Including Complete Round Data			Supersedes Parts 1 & 2 dated 1 Sep 44
(ORD 11)				
SNL R-2	Projectiles & Propelling Charges, Separate Loading, for Medium Field Artillery, Including Complete Round Data			
(ORD 11)				
SNL R-3	Service Fuzes & Primers for Pack, Light & Medium Field, Aircraft, Tank & Antitank Artillery			
(ORD 11)				

NUMERICAL LISTING—WAR DEPT. PUBLICATIONS

Pub. No.	Title	Date	Class	Remarks
SNL R-4 (ORD 11)	Ammunition, Mortar, Including Fuzes, Propelling Charges, & Other Components			
SNL R-5 (ORD 11)	Ammunition, Blank, for Pack, light & medium field, tank, & antitank artillery			
SNL R-6 (ORD 11)	Ammunition instruction material for pack, light & medium field, aircraft tank, & antitank artillery			
SNL R-7 (ORD 11)	Land Mines & Fuzes, Demolition Material, & Ammunition for Simulated Artillery & Grenade Fire			
SNL R-8 (ORD 11)	Ammunition, obsolete & Nonstandard, For Pack, light, & medium field, aircraft, tank & antitank artillery			
SNL S-1 (ORD 11)	Bombs, Aircraft All Types			
SNL S-2 (ORD 11)	Part 1: Fuzes & Miscellaneous Explosive Components for Aircraft Bombs			
SNL S-3 (ORD 11)	Fin, assemblies & miscellaneous inert components for aircraft bombs			
SNL S-4 (ORD 11)	Grenades, Hand, and Rifle, & Fuzing Components			
SNL S-5 (ORD 11)	Pyrotechnics, Military, All Types			
SNL S-6 (ORD 11)	Ammunition Instruction Material for Grenades, Pyrotechnics, & Aircraft Bombs			
SNL S-9 (ORD 11)	Rockets, All Types & Components			
SNL S-10 (ORD 11)	Obsolete and Nonstandard Bombs, Grenades, Pyrotechnics and Rockets			
SNL T-1 (ORD 11)	Ammunition, Rifle, Carbine, & Automatic Gun			
SNL T-2 (ORD 11)	Ammunition, Revolver, Automatic Pistol & Submachine Gun			
SNL T-3 (ORD 11)	Shells, Shotgun			
SNL T-4 (ORD 11)	Miscellaneous Service Components of Small-Arms Ammunition for Field Service Account, Instruction Material, & Ammunition for Simulated Small Arms Fire			
SNL T-5 (ORD 11)	Packing Materials Used by Field Service for Small Arms Service Ammunition			
SNL T-6 (ORD 11)	Ammunition, Small-Arms, Obsolete & Nonstandard			
TB CW 4	Bomb, Incendiary, 500-lb., M76 (T2E1)	4 Apr 44	R	
TB CW 10	Assembly of Bursting and Igniter in M47A1 and AN-M47A2 Incendiary Bombs	15 Jul 44	R	
TB CW 15	Kit, Tool, Bomb Venting, E1	2 Sep 44		
TB CW 16	Bomb Clusters Using E6R2 Adapter	16 Sep 44	R	Supersedes TB CW 1 and TB CW 5
TB CW 22	Nonpersistent Gas Bombs; Handling, Shipping, and Storage	6 Apr 45	R	
TB CW 25	Tail Fin Assembly for 165-gallon Fire Bomb	7 Feb 45	R	
TB CW 26	Bomb, Smoke, 10-Pound (HC), M77	Feb 1945		
TB CW 29S13	Theatre of Operations Surveillance Procedure for 100-lb. Incendiary Bombs, M47 Type	Apr 1945	R	
TB CW 31	Venting H-Filled Bombs, M70	Jun 1945	R	
TB Ord 2	Use of Trigger Spring Removing Tool	22 Dec 43		
TB Ord 9	Sight, Adjustable, Rear, Assembly D73955 & D7160060	10 Jan 44		
TB Ord 248	Illuminating Shell T18 for 81-mm Mortar	1 Feb 45		
TB Ord 273	Precautions in Handling 2736 AT, HE Rocket M6A3C	26 Mar 45	R	
TB Ord 308	Identification and Serviceability of Cal .50 Aircraft Machine Gun Barrels	27 Jun 45	R	

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TB3-250-1S11	Theatre of Operations Surveillance Procedure for Lewisite in One-Ton Containers	19 Apr 45	R	Issued with TM3-250
TB3-255-3	Beam, Grab, M1.....	28 Oct 44	..	Issued with TM3-255
TB3-300-1	HC Smoke Pot M5.....	27 May 44	..	Issued with TM3-300
TB3-300-3	Grenade, Hand, Riot, (CN) M25.....	30 Aug 44	R	
TB3-300-5	Igniters for Fire Bombs (Explosive Type).....	10 Feb 45	R	Issued with TM3-300
TB3-300-9	Supplementary Firing Instructions for Pot, Smoke, HC, M5 M1, and Pot, Smoke, 30-lb., HC, M5	May 1945	R	Issued with TM3-300 and OP 1042
TB3-300-10	Pot, Smoke, Floating HC M4A2.....	Jun 1945	R	Issued with TM3-300
TB3-300-11S18	Theatre of Operations Surveillance Procedures for Incendiary Grenades AN-M14	21 Jun 45	R	
TB3-320-7S3	Theatre of Operations Quality Check of Shell, 4.2-Inch Chemical Mortar, M2	19 Nov 44	..	Issued with TM3-320
TB9X-106	Preliminary Instructions, VT Bomb Nose Fuzes.....	21 Feb 45	..	Issued with TM3-300
TB9X-111	Preliminary Instructions, Mechanical Time Fuze M111A2 Modified to Fuze T77 for Cluster M26.....	16 May 45	R	
TB9-225-17	Browning Machine Gun Cal .50, M2, Aircraft: Blank Firing Attachment & New Components to Improve Functioning	21 Sep 44	..	Issued with TM9-225
TB9-225-18	Cook-Offs in Caliber .50 M2 Aircraft Browning Machine Guns	28 Sep 44	..	Issued with TM9-225
TB9-390-1	Projector, Target Rocket, M1: Inspections & Precautions Prior to Firing	23 Aug 44	..	Issued with TM9-390
TB9-850-18	Degreasing of Small Arms.....	31 May 45	R	Issued with TM9-850. Supersedes TB9-850-17
TB9-1205-FE1	Browning Machine Gun Cal .30 M2 Aircraft, Alternate Feed Bolt Assembly (D28119)	20 Apr 45	R	Issued with TM9-1205
TB9-1211-FE1	Browning Automatic Rifle, Cal .30, M1918A2: Modification of Sear Spring B19662	22 Feb 45	..	Issued with TM9-1211
TB9-1211-FE2	Browning Automatic Rifle Cal .30 M1918A2, Correction of Thread Stripping in Screw Hole in Inner Butt Plate Assembly	16 Jul 45	R	Issued with TM9-1211
TB9-1225-24	Side Plate Clearance in Cal .50 Machine Guns (All Types)	Apr 1945	R	Issued with TM9-1225
TB9-1225-25	Browning Machine Gun Cal .50 M2 (All Types) Overhaul Standards for Fifth-Echelon Installations	27 Jun 45	R	Issued with TM9-1225
TB9-1227-FE1	Feed Mechanism, 20-mm, M1: Corrections to be Applied..	14 Sep 44	..	Issued with TM9-1227
TB9-1276-1	Carbines, Cal .30, M1 & M1A1. Misconception of certain Features	15 Jan 45	..	Issued with TM9-1276
TB9-1901-7	Fuze, CP, M78, and Booster M25.....	28 Dec 44	R	Issued with TM9-1901
TB9-1901-8	Artillery Shell for VT Fuzes.....	28 Feb 45	R	Issued with TM9-1901
TB9-1901-10	Modification of Fin on 81-mm Mortar Training Shell M68 and 60-mm Mortar Training Shell M69	21 Jun 45	R	Issued with TM9-1901
TB9-1904-1	Purpose and Limitations of TM9-1904, Ammunition Inspection Guide	12 Mar 45	R	Issued with TM9-1904
TB9-1980-29	Change in Design of 20 lb & 23 lb Bombs (Fragmentation & Practice) to permit Shipment Unfuzed	15 Jul 44	..	Issued with TM9-1980
TB9-1980-30	Fuze, Bomb, M139 (Nose), M140 (Nose)....	22 Jul 44	..	Issued with TM9-1980
TB9-1980-33	Adapter-Booster M117.....	22 Sep 44	..	Issued with TM9-1980
TB9-1980-34	Fuze, Bomb, M149 (Nose).....	2 Dec 44	..	Issued with TM9-1980
TB9-1980-36	Mechanical Time Bomb Fuzes.....	7 Feb 45	..	Issued with TM9-1980 Supersedes TB9-1980-21, TB9-1980-31, TB1980-32
TB9-1980-37	Fuze, Bomb (Nose), M148 & Bar, Suspension, M1.....	15 Feb 45	..	Issued with TM9-1980
TB9-1980-38	100 lb Fragmentation Bomb Cluster M28A1.....	19 Feb 45	R	Issued with TM9-1980
TB9-1980-39	Nose Bomb Fuzes, AN-M103A1, M139A1, & M140A1....	21 Feb 45	..	Issued with TM9-1980
TB9-1980-40	Spotting Charge M5 for 100 pound Practice Bomb M38A2	21 Feb 45	..	Issued with TM9-1980
TB9-1980-41	Antiricochet Devices M16 & M17.....	22 Feb 45	..	Issued with TM9-1980

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TB9-1980-45	Conversion Kit for Converting 20 lb Fragmentation Bombs AN-M41 to Parachute Type Bomb for Single Suspension or for Use in Cluster AN-M41A1	26 Mar 45	R	Issued with TM9-1980
TB9-1980-46	Cluster Adapter M22	29 Mar 45	R	Issued with TM9-1980
TB9-1980-47	Fragmentation Bomb Cluster M26 (T4E4, Modified)	5 Apr 45	R	Issued with TM9-1980
TB9-1980-48	Tail Bomb Fuzes M160, M161, and M162, and Nose Bomb Fuzes M163, M164, and M165	11 Apr 45	R	Issued with TM9-1980
TB9-1980-49	Primer-Detonator M14, 0.24-second Delay	24 Apr 45	R	Issued with TM9-1980
TB9-1980-50	100 lb Fragmentation Bomb Cluster M28A2 and 500 lb Fragmentation Bomb Cluster M29A1	7 May 45	R	Issued with TM9-1980
TB9-1980-51	10 lb Incendiary Bomb M74	17 May 45	R	Issued with TM9-1980
TB9-1980-53	100 lb Target Identification Bomb M84A1, and 250 lb Identification Bombs M89, M90, and M98	29 May 45	R	Issued with TM9-1980
TB9-1981-2	Flash and Sound Signal M74	22 Feb 45	R	Issued with TM9-1981
TB9-1981-3	Two-Star Red Distress Signal M75	17 Mar 45	R	Issued with TM9-1981
TB9-1981-4	High-Burst Ranging Ground Signal M27A1B1	19 Mar 45	R	Issued with TM9-1981
TB9-1981-5	Smoke Ground Signals T38E1 through T42E1	9 Jul 45	R	Issued with TM9-1981
TB9-1985-FE1	Grenade, Rifle, Practice, M11A2: Method of Increasing Serviceability	12 Oct 44	..	Issued with TM9-1985
TB9-1985-3	Grenade, Rifle, Smoke, Colored, Streamer, T12	17 Oct 44	..	Issued with TM9-1985
TB9-2835-9	Small Arms, General Instructions for Care, Preservation, and Lubrication	..	R	Listed as encl (A) of NAV-ORD OCL G17-45
TB23-41-3	Gun, submachine, cal .45, M1A1, M2, & M3: Firing Table Data	16 Jun 43	..	
TB23-85-7	Shell, Smoke, WP, 60-mm, T6	14 Oct 44	..	
TB23-90-2	Preventing Damage to Shock Absorber Spring of 81-mm Mortar During Firing of Seating Rounds	9 May 45	R	
TM1-510	Synchronizing	3 Mar 43	..	
TM3-215	Military Chemistry & Chemical Agents	21 Apr 42	..	
TM3-250	Storage & Shipment of Dangerous Chemicals	5 Dec 40	..	
TM3-255	Chemical Handling & Loading Equipment	30 Oct 43	..	Issued with TB3-255-3
TM3-300	Miscellaneous Chemical Munitions	1 Mar 44	R	Issued with TB3-300-1, TB3-300-5, TB3-300-9, TB3-300-10, and TB3-300-11S18
TM3-320	Mortar, Chemical 4.2	Jun 1945	R	Issued with TB3-320-7S3. Supersedes TB3-320-1,2,3, 4,5, and 6
TM3-321	Graphical Firing Table M37	27 Mar 45	R	A special type slide rule "... used in the preparation of fire commands and the conduct of fire for the 4.2 chemical mortar"
TM9-205	Browning Machine Gun, Caliber .30, M2, Aircraft, Fixed & Flexible	15 Oct 42	..	Issued with OCL GV27-43; OTIs GV30-43, GV8-44
TM9-215	Thompson Sub-Machine Gun, Cal .45, M1 (M1A1)	10 Oct 42	..	
TM9-219	Basic Aircraft Machine Guns, Cal .50, T36 and T25E3(M3)	5 Apr 45	R	
TM9-225	Browning Machine Gun, Caliber .50, M2, Aircraft Basic	15 Dec 43	..	Issued with OTI GV8-44, TB 9-225-17, TB 9-225-18
TM9-227	20-mm Automatic Gun M1, & 20-mm Aircraft Automatic Gun AN-M2	1 Jun 43	..	Issued with OTIs V45-43 GV2-44, GV8-44, OCL GV27-43
TM9-231	Cal .60 Machine Gun T17E3	28 Jun 44	..	
TM9-241	37-mm Automatic Gun, M9	22 Apr 44	..	
TM9-252	40-mm Automatic Gun M1 (AA) & 40-mm Antiaircraft Gun Carriages M2 & M2A1	17 Jan 44	..	Issued with TB9-252-9
TM9-285	Shotguns, All Types	21 Sep 42	..	
TM9-390	Target Rocket Projector M1	14 Nov 42	..	Issued with TB9-390-1

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TM9-762	Lift Truck M22.....	31 May 43	..	
TM9-850	Cleaning, Preserving, Sealing, Lubrication, and Related Materials Issued for Ordnance Material	24 Aug 44	..	Issued with TB9-850-18
TM9-855	Targets Target Material & Training Course Lay-Outs....	17 Aug 44	..	
TM9-1205	Browning Machine Gun, Cal .30, All Types and Ground Mounts	7 Aug 44	R	Issued with TB1205-6, TB9-1205-FE1
TM9-1211	Browning Automatic Rifle Cal .30, All Types.....	1 Mar 42	..	Issued with TB9-1211-FE1 and TB9-1211-FE2
TM9-1215	Thompson Submachine Gun Cal .45, M1928A1.....	1 Mar 42	..	
TM9-1225	Browning Machine Gun Cal .50, M2 All Types and Ground Mounts	23 Oct 44	R	Supersedes TB9-1225-21 TB9-1225-22, TB9-1225-23, TB9-1225-24 and TB9-1225-25
TM9-1227	20-mm Automatic Gun M1 and 20-mm Aircraft Automatic Gun AN-M2	10 Jun 43	..	Issued with TB9-1227-FE1. Supersedes TB 1227-1, TB 1227-2, TB 1227-3, Ordnance School Text (OS) No. 9-3 dated 15 Aug 41 and Ordnance School Text (OS) No. 9-45 dated Dec 42
TM9-1252	Gun and Top Carriage of 40-mm AA Gun Material M2..	24 Apr 42	..	Issued with OTIs G26-43, G27-43 and G25-43. Revision under preparation will supersede present TM9-1252 and TM9-1253
TM9-1275	Ordnance Maintenance U. S. Rifle Cal .30 M1.....	6 Nov 42	R	
TM9-1276	Carbines, Cal .30, M1 & M1A1.....	5 Jun 43	..	Issued with TB9-1276-1
TM9-1285	Shotguns, All Types.....	25 Nov 42	..	
TM9-1290	Pyrotechnic Projectors, All types.....	18 Mar 43	..	
TM9-1295	Pistols & Revolvers.....	9 Nov 42	..	
TM9-1900	Ammunition, General.....	18 Jun 45	R	
TM9-1901	Artillery Ammunition.....	29 Jun 44	R	Issued with TBs 9-1901-8, TB9-1901-7, and TB9-1901-10. Supersedes TB9-1901, TB9-1901-2, TB9-1901-3, TB ORD 7, and TB ORD 77
TM9-1904	Ammunition Inspection Guide.....	2 Mar 44	R	Issued with TB9-1904-1
TM9-1907	Ballistic Data, Performance of Ammunition.....	23 Sep 44	..	
TM9-1980	Bombs for Aircraft.....	15 Nov 44	R	Issued with TB ORD 124, OCL A8-43, and TBs9-1980-29, 30, 33, 34, 36, 37, 38, 39, 40, 41, 46, 47, 48, 49, 50, 51, 53, and 54
TM9-1981	Military Pyrotechnics.....	8 Dec 43	R	Issued with TB9-1981-2, TB9-1981-3, TB9-1981-4, TB9-1981-5. Supersedes TM9-981
TM9-1985	Grenades, Hand & Rifle.....	22 Oct 43	..	Issued with TB9-1985-FE1, TB9-1985-3
TM9-2200	Small Arms, Light Field Mortars and 20-mm Aircraft Guns	11 Oct 43	..	
TM9-2210	Instruction Guide—Small Arms Accidents, Malfunctions & Their Causes	11 Jul 42	..	
TM9-2900	Military Explosives.....	29 Aug 40	..	
TM55-310	Stevedoring	20 May 44	..	

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TO 11-1-21	20-mm Hydraulic Gun Charger Cylinder Assembly (No. 12 Feb 42 78003)	12 Feb 42	..	
TO 11-1-55	Description & Adjustment of Solenoid Type G-11.....	17 Nov 43	..	
TO 11-1-70	Handbook of Instructions with Parts Catalog. 37-mm Automatic Aircraft Gun M9	1 Aug 44	..	
TO AN11-1-74	Handbook of Instructions with Parts Catalog, .50 Cal Gun Container Mk 2	1 Jan 45	R	Supersedes and replaces Nav-Aer 11-1-508
TO 11-1-80	General Description, Inspection, and Adjustment of Solenoid Type G-19	27 Mar 45	..	
TO 11-5-10	Bomb Shackles Types D-4, D-6, D-7.....	7 May 42	..	
TO 11-5-26	Bomb Racks—Type C-3 Bomb Hoist Assembly.....	14 Jun 43	..	
TO 11-5-27	Bomb Shackles, Type B-7.....	10 Oct 42	..	
TO 11-5-29	Handbook of Instructions Bomb Release Interval Control Types A-4, B-2, B-2A and B-3	20 Dec 42	..	
TO 11-5-35	Bomb Shackles—Type B-9.....	31 Oct 42	..	
TO 11-5-51	Type A-2 Bomb Sling.....	23 Jun 43	..	
TO 11-5-51A	Bomb Racks—Type A-2 Bomb Sling.....	26 Jun 44	..	
TO 11-5-55	Bomb Rack Release Type A-4.....	6 Sep 43	..	
TO 11-5-66	Bomb Racks—Bomb Shackle B-10.....	15 Jan 44	..	
TO AN11-5-73	Handbook of Instructions with Parts Catalog for Bomb Shackles—Models 820, 820-2 (Interstate Aircraft & Eng. Corp.)	25 Nov 44	..	
TO 11-10-5	Preliminary Instructions Type E-10 Gun Mount Adapter..	20 Feb 42	..	
TO AN11-10-6	Handbook of Instructions with Parts Catalog—Gun Mount Adapter Assembly—Type E-5A	25 Aug 44	..	
TO 11-10-12	Handbook of Instructions with Parts Catalog Type E-12 Gun Mount Adapter	20 Dec 42	..	
TO 11-10-14	Handbook of Instructions with Parts Catalog—Type C-16 Single Gun Mount Adapter (Bell)	30 Dec 42	..	
TO 11-10-15	Adjustment of the Firing Mechanism of Type E-12 Adapters	1 Jan 43	..	
TO 11-10-24	Modification of Safety Slide—E-12 Adapters.....	14 Nov 44	..	
TO AN11-10-25	Handbook of Instructions with Parts Catalog for the Single Adapter for Cal .50 Machine Guns—Type E-11	30 Jun 44	..	Supersedes TO 11-10-7
TO 11-15-1	Type AN-M8 Pyrotechnic Pistol.....	21 Jan 43	..	
TO 11-35-12	Handbook of Instructions with Parts Catalog for Type N-6 Gunsight	25 Oct 42	..	
TO 11-35-13	Installation, Operation, Inspection & Maintenance Instructions—Types B-13 & A-11	26 Aug 42	..	
TO 11-35A-1	Handbook of Operation & Service Instructions Automatic Computing Sights K-3, K-4	5 Jun 44	..	
TO AN-11-35A-3	Parts Catalog—Type K-3 & K-4 Automatic Computing Sight (Sperry)	1 Mar 44	..	
TO 11-40-19	Handbook of Instructions with Parts Catalog, Tow Target Windlass Motor Types EE-700 and EE-800 Series	30 Mar 43	R	
TO AN11-60AA-1	Handbook of Operation & Service Instructions—Automatic Pilot-Type C-1	25 Jun 43	..	
TO AN11-60AA-3	Parts Catalog for Automatic Pilot—Type C-1.....	15 Jul 44	..	
TO 11-60AA-7	Special Care & Oiling of Type C-1 Autopilot Servo Motors	23 Nov 44	..	

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PART 2

SUBJECT INDEX BY TYPES OF EQUIPMENT

*Under preparation. Upon completion, publication will be distributed without request.

#Under revision. Upon completion, revision will be distributed without request.

New and revised publications, when available, are announced in the Navy Department Semi-monthly Bulletin.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
ACCESSORIES				
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
ACM UNITS, See UNITS				
ADAPTERS				
OP 878.....	General Data on Navy, AN-Standard, Army and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1
OP 1219 O....	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219 O in Part 1
OP 1219Q....	Ammunition Code Catalog Class Q, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OTI V6-44....	Bomb and Torpedo Trucks Mk 2 Mod 2, Adaptation of for use as an Aid in Boresighting Fixed Aircraft Machine Guns	18 Feb 44	R	Issued with OP 1073
TB CW 16....	Bomb Clusters Using E6R2 Adapter	16 Sep 44	R	War Dept. Publication. Supersedes TB CW 1 and TB CW 5
OP 1219A.....	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
TB CW 22....	Nonpersistent Gas Bombs; Handling, Shipping, and Storage	6 Apr 45	R	War Dept Publication
TB9-1980-33 ..	Adapter, Booster M117	22 Sep 44	R	War Dept Publication. Issued with TM9-1980
TM9-1980	Bombs for Aircraft	15 Nov 44	R	War Dept Publication. See remarks for TM9-1980 in Part 1
OP 1585.....	Bomb Cluster Adapter Mk 3 Mod 0	7 Jul 45	R	
TB9-1980-45 ..	Conversion Kit for Converting 20 lb Fragmentation Bombs AN-M41 to Parachute Type Bomb for Single Suspension or for Use in Cluster AN-M41A1	26 Mar 45	R	War Dept Publication. See remarks for TB9-1980-45 in Part 1
OP 1087.....	Release Lags for Incendiary Bomb Clusters	30 Nov 43	R	Issued with Change 1 dated 2 Mar 44 and OCL AV129-43
TB9-1980-46 ..	Cluster Adapter M22	29 Mar 45	R	War Dept Publication. See remarks for TB9-1980-46 in Part 1

To requisition Ordnance Publications, use NAVORD FORM 1 (Rev 8-45)

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
ADAPTERS				
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1219M.....	Ammunition Code Catalog Class M2 Projector Charge and Rocket Ammunition Components	25 Apr 45	R	1st rev. See remarks for OP 1219M in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog (Target Container, Proportional Bank, Bomb Rack, Bomb Skid Adapter)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1141.....	Aerial Targets and Associated Equipment, Description and Instructions for Use	20 Nov 44	R	See remarks for OP 1141 in Part 1
TB9-1980-41..	Anti-ricochet Devices M16 and M17	22 Feb 45	R	War Dept Publication. See remarks for TB9-1980-41 in Part 1
OP 1177.....	Surface Pyrotechnics and Projectors	19 Jan 45	R	See remarks for OP 1177 in Part 1
OP 1187.....	2725 Subcaliber Aircraft Rockets, Description and Instructions for Use	10 Feb 45	R	
OP 1118.....	Instructions for Installation of Mines in Aircraft	28 Jan 44	R	See remarks for OP 1118 in Part 1
OP 1137.....	60-mm Mortar for Shipboard	6 Jan 45	R	
OTI V38-43...	General Arrangement of the Bomb Rack Adapter Mk 1	10 Sep 43	R	
OP 1164.....	Ballistic Testing of Rocket Propellants	26 Aug 44	R	
OP 1439.....	20-mm AA Assemblies (Twin); 20-mm AA Gun Mounts Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods; 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter Equipment Mk 2 Mod 0; 20-mm Machine Gun Mechanism Mk 4 Mod 1 and 20-mm Magazine Mk 5 Mod 0	28 Apr 45	D	See remarks for OP 1439 in Part 1
OP 1073.....	Bomb and Torpedo Skids, Trucks and Trailers	29 Sep 43	R	See remarks for OP 1073 in Part 1
OHI V1-45....	Bomb Skid Adapter Mk 3 Mod 0	21 Mar 45	R	
OP 903.....	Mine Mk 23, Description and Instructions for Use	Aug 1943	R	With Change 1 dated 11 Feb 44 and Change 2 dated 19 Dec 44
Adapters, Gun Mount				
OP 865.....	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1070.....	Gun Mount Adapters, Navy Type	19 Jan 45	R	Supersedes OHIs V1-43, V4-43, V5-43, and OTI V18-43. Now issued by BuAer.
OP 1070A.....	Gun Mount Adapters, Navy Type; Parts List			Will be issued by BuAer.
OP 1289.....	40-mm Mount Mk 3 Mod 4; 40-mm Train and Elevation Power Drives Mk 10 Mods 0, 1, and 2 (Sight Adapter Mk 1 Mod 2)	28 Aug 45	R	
OMI V4-44...	Gun Mount Adapters Mk 6 Mod 3 and Certain Gun Mount Adapters Mk 6 Mod 2--Relocation of Illuminated Sight Mk 9, Mounting Bracket	28 Mar 44	D	Issued with Ordalt 1746

*Under preparation.

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Adapters, Gun Mount				
OMI V1-45...	Modification of Retracing Slide Bracket C46029A BAM Gun Cal .50 M-2, To Prevent Interference With Sight Bracket Mounting Post of Mk 10 and Mods Gun Mount Adapter	12 Jan '45	D	
OMI V10-44...	Modification of Continuous Feed Unit Ratchet Pawl on the Twin Cal .30 Gun Mount Adapters Mk 11 Mods 3 and 4, and Mk 14	8 May 44	R	
OMI V8-45...	Modification of Continuous Feed Unit on the Twin Cal .30 Gun Mount Adapters Mk 11 Mods 3, 4, and 5 and Mk 14 and Mk 14 Mod 1 to Prevent Jamming of Ammunition	14 Apr 45	D	
OP 1427.....	Shotgun Mount Assembly Mk 1 Mod 0 (Adapter Mk 12 Mod 2)	23 Feb 45	D	
OTI V25-44...	Wrench, Special for AN-E10 Gun Mount Adapter Mk 15, BAM Gun Cal .50—Instructions for Manufacture of	9 Sep 44	R	
TO 11-10-14...	Handbook of Instructions With Parts Catalog—Type C-16 Single Gun Mount Adapter (Bell)	30 Dec 42	D	War Dept Publication
TO AN11-10-6	Handbook of Instructions With Parts Catalog—Gun Mount Adapter Assembly—Type E-5A	25 Aug 44	R	Do
TO 11-10-5...	Preliminary Instructions—Type E-10 Gun Mount Adapter	20 Feb 42	D	Do
TO AN11-10-25	Handbook of Instructions With Parts Catalog for the Single Adapter for Cal .50 Machine Guns—Type E-11	30 Jun 44	R	War Dept Publication. Supersedes TO 11-10-7
OTI V43-43...	Special Precautions Regarding Installation of the Rear Mechanism Assembly and Use of the Safety Switch of Gun Mount Adapter Type E-12	15 Nov 43	R	
TO 11-10-12...	Handbook of Instructions with Parts Catalog—Type E-12 Gun Mount Adapter	20 Dec 42	R	War Dept Publication. Revised 20 Jul 43
TO 11-10-15...	Adjustment of the Firing Mechanism of Type E-12 Adapters	1 Jun 43	R	War Dept Publication
TO 11-10-24...	Modification of Safety Slide—E-12 Adapters	14 Nov 44	R	Do
ADJUSTERS				
OD 1011.....	Description of Parallax Range Adjuster Mk 3—USS NEW YORK and TEXAS—Main Firing—Fire Control System	11 Jan 27	R	
OD 1877.....	Parallax Range Adjuster Mk 4—USS ARIZONA and PENNSYLVANIA	1929	R	
OD 1799.....	Description of Parallax Range Adjuster Mk 5—Main Battery Fire Control System	15 Jun 33	R	2nd rev
OD 2458.....	Description of Parallax Range Adjuster Mk 6—Main Battery Fire Control System	22 Jan 34	R	2nd rev
OD 2497.....	Description of Parallax Range Adjuster Mk 6 Mod 1—Main Battery Fire Control System	18 Nov 36	R	2nd rev
OP 1031.....	Sight Setter's Indicator Mk 6 Mods 0 and 1 Including Parallax Range Adjuster Mk 7 Mods 0 and 1	18 Oct 45	R	
AIR FLASKS, TORPEDO, See FLASKS				
ALIDADES				
OD 2017.....	Periscopic Alidade Mk 1—Installation and Care	3 Apr 33	R	
OD 2090.....	Periscopic Alidade Mk 1 Mod 1—Installation and Care	5 Dec 33	R	
OD 2788.....	Periscopic Alidade Mk 1 Mod 2—Installation and Care	26 Aug 36	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
AMMUNITION				
See also	BOMBS AND BOMBING CARTRIDGES			
	CARTRIDGE CASES			
	CONTAINERS, AMMUNITION			
	EXPLOSIVES			
	FUZES			
	INTERVALOMETERS			
	MUNITIONS, CHEMICAL			
	POWDER			
	PRIMERS			
	PROJECTILES			
	PYROTECHNICS			
	ROCKETS			
OP 4.....	Ammunition, Instructions for the Naval Service Afloat	4 May 43	R	See remarks for OP 4 in Part 1
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1112.....	Gun Mount and Turret Catalog.....	7 Mar 45	R	2nd rev
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1172.....	Performance of Bombs and Projectiles Against Shore Installations	9 May 44	C	
OP 1428.....	Physical Inventory Manual for Ammunition (Preliminary)	22 Feb 45	D	
OP 1515.....	Restricted and Unserviceable Ammunition.....	11 Jun 45	R	See remarks for OP 1515 in Part 1
OP 1591.....	Clearing of Live Ammunition from Guns.....	28 Nov 45	D	Supersedes OCLs A72-43, A76-44, A35-45, A36-45, and G24-44
OP 1631.....	Ammunition Hazard Classification List.....	21 Sep 45	R	See remarks for OP 1631 in Part 1
*OP 1656.....	Identification of Ammunition.....		R	
OD 515.....	Index of Drawings of Ammunition Details with Latest Revisions	12 May 39	R	
OD 2790.....	Weights and Dimensions of Ammunition Components and Their Containers.....	Dec 1943	R	Revised
*OP 1675.....	Ammunition Stock Recording System, Manual of Instruction for all Shore Establishments Except Naval Ammunition Depots			
OD 5297.....	Ammunition Assemblies.....	14 Jul 44	R	Rev A. See remarks for OD 5297 in Part 1
OFSB 3-14...	Ammunition Identification Code (A. I. C.).....	1 Jan 43	D	War Dept Publication
SB9-AMM 1..	Ammunition, General.....	8 Mar 44	D	War Dept Publication. See remarks for SB9-AMM 1 in Part 1
SB9-AMM 2..	Unsafe Ammunition.....	17 Aug 44	D	Do I
SB9-AMM 4..	Small Arms Ammunition.....	1 Jan 45	D	Do I
SB9-AMM 5..	Ammunition Identification Code (A. I. C.).....	5 Aug 44	D	War Dept Publication. See remarks for SB9-AMM 5 in Part 1
SB9-AMM 6..	Ammunition, Supply within Continental United States..	24 Oct 45	R	War Dept Publication
SNL P-5	Ammunition for AA Artillery Parts 1 and 2.....			War Dept Publication
(ORD 11)				

*Under preparation. \$Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
AMMUNITION				
SNL P-6 (ORD 11)	Ammunition, Fixed, Including Subcaliber Ammunition for Harbor Defense, Heavy Field and Railway Artillery		R	War Dept Publication. See remarks for SNL P-6 (ORD 11) in Part 1
SNL P-8 (ORD 11)	Ammunition Instruction Material for AA, Harbor Defense, Heavy Field and Railway Artillery, Including Complete Round Data		R	War Dept Publication. See remarks for SNL P-8 (ORD 11) in Part 1
SNL P-9 (ORD 11)	Ammunition, Obsolete and Nonstandard, for Harbor Defense, Heavy Field and Railway Artillery		R	War Dept Publication. See remarks for SNL P-9 (ORD 11) in Part 1
SNL P-11 (ORD 5)	Special Ammunition Surveillance, Testing, Inspection and Renovation Tools and Supplies, Section 2		Do	
SNL R-1 (ORD 11)	Ammunition, Fixed and Semifixed, Including Subcaliber for Pack, Light and Medium Field, Aircraft, Tank and Antitank Artillery, Including Complete Round Data		Do	
SNL R-6 (ORD 11)	Ammunition, Instruction Material for Pack, Light and Medium Field, Aircraft, Tank and Antitank Artillery		R	War Dept Publication. See remarks for SNL R-6 (ORD 11) in Part 1
SNL R-7 (ORD 11)	Land Mines and Fuzes, Demolition Material and Ammunition for Simulated Artillery and Grenade Fire		Do	
SNL R-8 (ORD 11)	Ammunition, Obsolete and Nonstandard, for Pack, Light and Medium Field, Aircraft, Tank and Antitank Artillery		R	War Dept Publication. See remarks for SNL R-8 (ORD 11) in Part 1
SNL S-6 (ORD 11)	Ammunition Instruction Material for Grenades, Pyrotechnics and Aircraft Bombs		Do	
TB9-1904-1	Purpose and Limitations of TM9-1904, Ammunition Inspection Guide	12 Mar 45	R	War Dept Publication. See remarks for TB9-1904-1 in Part 1
TM9-1900	Ammunition, General	18 Jun 45	R	War Dept Publication. See remarks for TM9-1900 in Part 1
TM9-1901	Artillery Ammunition	29 Jun 44	R	War Dept Publication. See remarks for TM9-1901 in Part 1
TM9-1904	Ammunition Inspection Guide	2 Mar 44	R	War Dept Publication
TM9-1907	Ballistic Data, Performance of Ammunition	23 Sep 44	R	Do
TM9-2500	Military Explosives	29 Aug 40	D	Do
Ammunition, 12 Gage				
OP 1427	Shotgun Mount Assembly Mk 1 Mod 0	23 Feb 45	D	
Ammunition, 6-Pdr				
OP 93	6 Pdr Guns (Rapid-Fire, Case) Mks 1 and 2, Hotchkiss Mks 1 and 2, Driggs-Schroeder Mk 1 and 2, Army Mk 3 and Nordenfelt Mk 2 (Now Mks 1, 3, 6, 7, 8 and 10)	Dec 1902	D	
Ammunition, 20-mm				
OP 1219H	Ammunition Code Catalog Classes 1 and R, 20-mm and 40-mm Gun Ammunition	1 Oct 44	R	See remarks for OP 1219H in Part 1
OP 1317	20-mm Automatic Gun T31 (M3) Basic and 20-mm Feed Mechanism AN-M2 (T-14)	18 Jun 45	R	See remarks for OP 1317 in Part 1
OP 1515	Restricted and Unserviceable Ammunition	11 Jun 45	R	See remarks for OP 1515 in Part 1
NavOrd Chart A49-43	20-mm AA Cartridge and Details	18 Jul 44	R	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Ammunition, 37-mm				
OP 1219Q	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
Ammunition, 1710				
NavOrd Chart A50-43	1710/75 Cal Cartridge and Details	18 Jul 44	R	
Ammunition, 40-mm				
OP 1219H	Ammunition Code Catalog Classes 1 and R, 20-mm and 40-mm Gun Ammunition	1 Oct 44	R	See remarks for OP 1219H in Part 1
NavOrd Chart A51-43	40-mm Cartridge and Details	18 Jul 44	R	
Ammunition, 60-mm				
OP 1137	60-mm Mortar for Shipboard	6 Jan 45	R	
TB9-1901-10	Modification of Fin on 81-mm Mortar Training Shell M68 and 60-mm Mortar Training Shell M69	21 Jun 45	R	War Dept Publication. See remarks for TB9-1901-10 in Part 1
Ammunition, 75-mm				
OP 1219Q	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
Ammunition, 81-mm				
TB ORD 248	Illuminating Shell T18 for 81-mm Mortar	1 Feb 45	D	War Dept Publication. See remarks for TB ORD 248 in Part 1
TB9-1901-10	Modification of Fin on 81-mm Mortar Training Shell M68 and 60-mm Mortar Training Shell M69	21 Jun 45	R	War Dept Publication. See remarks for TB9-1901-10 in Part 1
Ammunition, 90-mm, 105-mm, 155-mm				
Ammunition, 3"				
OP 1219Q	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
NavOrd Chart A52-43	Cartridge and Details for 3"/50 Cal Guns	18 Jul 44	R	
Ammunition, 4"				
OD 2779	4"/50 Cal Ammunition—Withdrawing and Reloading Tool—Description and Method of Operation	25 May 36	R	
Ammunition, 5"				
OD 2778	5"/25 Cal AA Ammunition—Withdrawing, Reforming and Reloading Tool—General Description and Operation	26 Aug 36	R	
NavOrd Chart A53-43	5"/38 Cal Complete Round and Details	Undated	R	
Ammunition, 16"/50				
NavOrd Chart A14-44	16"/50 Cal Complete Round and Details	2 Aug 44	D	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Ammunition, Blank				
SNL P-7 (ORD 11)	Fuzes, Primers, Blank Ammunition and Miscellaneous Items for AA Harbor Defense, Heavy Field and Railway Artillery			War Dept Publication
SNL R-5 (ORD 11)	Ammunition, Blank, for Pack, Light and Medium Field, Tank and Antitank Artillery			Do
Ammunition, Care of				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
Form OO 7224	Ordnance Safety Manual, Regulations Governing the Manufacture, Storage, Loading and Handling of Military Explosives and Ammunition at Establishments of the Ordnance Dept., U.S.A.	3 May 45	D	War Dept Publication
Ammunition, Chemical				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1515.....	Restricted and Unserviceable Ammunition.....	11 Jun 45	R	See remarks for OP 1515 in Part 1
Ammunition, Dummy				
OP 1219K....	Ammunition Code Catalog Class K, Dummy Ammunition Assemblies	1 Oct 44	R	See remarks for OP 1219K in Part 1
Ammunition, Machine Gun				
See	AMMUNITION, by calibers			
Ammunition, Marking of				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1451.....	5"/38 Window Projectiles (Preliminary).....	23 Feb 45	C	Supersedes OCL A51-44
SB9-AMM 4..	Small Arms Ammunition.....	1 Jan 45	D	War Dept Publication
Ammunition, Mortar				
OP 1219Q....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OP 1440.....	4.2 Mortar Assembly Mk 1 Mod 0.....	25 Apr 45	R	
SNL R-4 (ORD 11)	Ammunition, Mortar, Including Fuzes, Propelling Charges and Other Components			Do
Ammunition, Projector				
OP 1219J....	Ammunition Code Catalog Class J, Projector Charge and Rocket Ammunition Assemblies	13 Jul 45	R	1st rev. See remarks for OP 1219J in Part 1
OP 1219M....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
Ammunition, Pyrotechnic				
OP 382B.....	Projectiles, Bombardment, Field, AA, Illuminating, Flat-Nose, Gas, Smoke and Marker—Specifications for Projectile Bodies	Mar 1937	D	1st rev. Reinstated
OP 1515.....	Restricted and Unserviceable Ammunition.....	11 Jun 45	R	See remarks for OP 1515 in Part 1
Ammunition, Rocket Type				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Ammunition, Rocket Type				
OP 1135.....	Rocket Launchers Mk 30 Mod 0 (T-Slot Launcher for Fin Stabilized Rockets) (Preliminary) Description and Instructions for Use	10 Nov 44	R	See remarks for OP 1135 in Part 1
OP 1157.....	Rocket Ammunition, 375 and 570 Aircraft Rockets (375 Motor) Description and Instructions for Use	23 Mar 45	R	1st rev. See remarks for OP 1157 in Part 1
OP 1158.....	Handling of Forward-Firing Rocket Equipment Aboard Kaiser Class Carriers	16 Mar 44	R	Issued with Change 1 dated 30 Jun 44, Change 2 dated 8 Sep 44
OP 1219J.....	Ammunition Code Catalog Class J, Projector Charge and Rocket Ammunition Assemblies	13 Jul 45	R	1st rev. See remarks for OP 1219J in Part 1
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1219N.....	Ammunition Code Catalog Class N, Fleet Return Projector Charge and Rocket Ammunition	13 Jul 45	R	1st rev. See remarks for OP 1219N in Part 1
OP 1260.....	Rocket Ammunition, 570 Rocket (570 Motor) Spin Stabilized (Preliminary)	6 Feb 45	R	See remarks for OP 1260 in Part 1
OP 1515.....	Restricted and Unserviceable Ammunition.....	11 Jun 45	R	See remarks for OP 1515 in Part 1
OP 1244.....	Rocket Launchers Mk 50 Mods 0 and 1, Description and Instructions for Use	26 Oct 45	R	2nd rev. See remarks for OP 1244 in Part 1
SNL S-9 (ORD II)	Rockets, All Types and Components.....		R	War Dept Publication
OP 1133.....	Rocket Launchers Mk 17 and Mk 17 Mod 1 (Formerly Designated Rocket Launchers Mk 1, Target and Mk 1 Mod 1, Target)—Description and Instructions for Use	30 Aug 44	R	Issued with Change 1 dated 16 Feb 45
OP 1415.....	Rocket Assemblies (Preliminary).....	7 Apr 45	C	Supersedes OD 5368
OHI AV4-44	375 Rocket Ammunition Assembly No. 10—Instructions for Assembly and Firing of	4 Apr 44	R	
OP 1469.....	375 Window Rockets and Rocket Launchers Mk 32 Mods 0 and 1	9 Apr 45	C	Supersedes OP 1165
NavOrd Chart A11-41	375 Rocket Ammunition			
OP 1111.....	475 Rocket Ammunition—Description and Instruction for Use	10 May 44	R	Issued with OTI A3-44. Supersedes OP 1003 in conjunction with OP 1003 1st
NavOrd Chart A12-44	475 Rocket Ammunition.....			
NavOrd Chart A19-44	570 Rocket Ammunition (375 Motor).....			
OP 1002.....	772 Rocket Launchers Mk 20, Mk 22 and Ammunition.....	30 Nov 43	C	1st rev. Supersedes OCLs A69-43, G4-42 and G13-43. Issued with Change 1 dated 12 Sep 44
NavOrd Chart A13-44	772 Rocket Ammunition.....			
OP 1227.....	1175 Rocket Ammunition, Description and Instructions for Use	13 Mar 45	C	1st rev. See remarks for OP 1227 in Part 1
Ammunition, Small Arms				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Ammunition, Small Arms				
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part I
OP 1219P.....	Ammunition Code Catalog Class 5, Small Arms, Machine Gun and Aircraft Gun Ammunition	25 Apr 45	R	1st rev. See remarks for OP 1219P in Part I
OP 1515.....	Restricted and Unserviceable Ammunition	11 Jun 45	R	See remarks for OP 1515 in Part I
SB9 AMM 4..	Small Arms Ammunition	1 Jan 45	D	War Dept Publication. Supersedes OFSB 3-5 dated 1 Jan 44
SNL T-1 (ORD 11)	Ammunition, Rifle, Carbine and Automatic Gun		R	War Dept Publication
SNL T-2 (ORD 11)	Ammunition, Revolver, Automatic Pistol and Sub-machine Gun		R	War Dept Publication
SNL T-3 (ORD 11)	Shells, Shotgun		D	Do not
TB23-85-7 ...	Shell, Smoke, WP, 60-mm, T6	14 Oct 44	R	War Dept Publication
SNL T-4 (ORD 11)	Miscellaneous Service Components of Small Arms Ammunition for Field Service Account, Instruction, Material and Ammunition for Simulated Small Arms Fire		R	War Dept Publication
SNL T-5 (ORD 11)	Packing Materials Used by Field Service for Small Arms Service Ammunition		D	War Dept Publication
SNL T-6 (ORD 11)	Ammunition, Small Arms, Obsolete and Nonstandard		D	War Dept Publication
TM9-2200	Small Arms, Light Field Mortars and 20-mm Aircraft Guns	11 Oct 43	R	War Dept Publication
TM9-2210	Instruction Guide, Small Arms Accidents, Malfunctions, and Their Causes	14 Jul 42	D	War Dept Publication
TB9-1901-8.....	Artillery Shell for VT Fuzes	28 Feb 45	R	War Dept Publication. Issued with TM9-1901
OP 1177.....	Surface Pyrotechnics and Projectors	19 Jan 45	R	See remarks for OP 1177 in Part I
Ammunition, Stowage of				
OP 5.....	Ammunition Ashore Vol 1	10 Jun 44	R	1st rev. See remarks for OP 5 in Part I
OP 1120.....	Care of Ammunition at Advanced Bases	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
TM9-1900	Ammunition, General	18 Jun 45	R	War Dept Publication. See remarks for TM9-1900 in Part I
Form OO 7224	Ordnance Safety Manual, Regulations Governing the Manufacture, Storage, Loading and Handling of Military Explosives and Ammunition at Establishments of the Ordnance Dept U.S.A.	3 May 45	D	War Dept Publication
AMMUNITION BOXES, See CONTAINERS, AMMUNITION				
AMPLIFIERS				
OP 986.....	Auto Pilot Amplifiers Test Set	Jun 1943	R	
*OP 1396.....	Instruction Book for Amplifier Mk 1 Mod 1 (Preliminary)		R	
OP 1323B.....	Gun Fire Control System Mk 57, Installation, Maintenance and Accuracy Tests (Preliminary)	31 Oct 45	R	See remarks for OP 1323B in Part I

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
AMPLIFIERS				
OP 1323A.....	Gun Fire Control System, Maintenance, (Less Radar Equipment)	25 Jul 45	R	See remarks for OP 1323A in Part 1
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 44	R	See remarks for OP 1233 in Part 1
OP 1550.....	Naval Gun Factory Amplifier for 40-mm Power Drives Mk 5 and Mk 6 (Preliminary)	31 May 45	R	
QD 3043.....	Description of Ford Hydraulic Amplifier as Used in Train Regulator Mk 2 and Elevation Receiver Regulator Mk 2	13 Apr 36	R	Rev A
OD 3044.....	Description of Ford Hydraulic Amplifier as Used in Train Receiver Regulator Mk 3 and Elevation Receiver Regulator Mk 3	9 Apr 36	R	
OD 4258.....	Instruction Book for Power Amplifier, Installed in Rangekeeper Mk 8 Mods 11, 15, 54, 55 (Preliminary)	31 May 44	R	
*NavOrd Chart F9-45	Booster Amplifier			
*NavOrd Chart F15-45	Amplifier Supply Units			
ANCHORS, MINE				
See also.....	MINES			
OP 903.....	Mine Mk 23—Description and Instructions for Use (Anchor Mk 3 Mod 5)	Aug 1943	R	Issued with Change 1 dated 11 Feb 44, Change 2 dated 19 Dec 44
OP 888.....	Mines Mk 6 and Mods, Description and Instructions for Assembling, Handling and Planting	13 Feb 45	R	1st rev. See remarks for OP 888 in Part 1
OTI M7-44.....	Brake Tension Setting for Mine Anchors Mk 6 and Mk 16	10 Jul 44	R	Supersedes OTI M10-43. Issued with OPs 876 and 888
OTI M9-44.....	Use of Hydraulic Gear Fluid—"Flat Viscosity" in Dashpots of Mine Anchors Mk 6 and Mk 16	25 Aug 44	R	
OHI MI-44.....	Mines and Depth Charges Mk 10, Mod 3 Anchor, Coupling Adapter For	20 Jan 44	D	
OTI M7-44.....	Brake Tension Setting for Mine Anchors Mk 6 and Mk 16	10 Jul 44	R	Supersedes OTI M10-43. Issued with OPs 876 and 888
ANGLE SOLVERS, See SOLVERS				
ANTENNA CONTROL, See CONTROLS, ANTENNA				
ARBORS, DEPTH CHARGE				
See also.....	CHARGES, DEPTH			
OP 831.....	Depth Charge Projector Mk 6 Mod 1 and Mod 2 (Arbors Mks 6, 7 and 7 Mod 1)	21 Jul 44	R	1st rev. Supersedes OCL M24-43
OP 662A.....	Depth Charge Mk 8, Description and Instructions for Use (Arbor Mk 7 Mod 1)	Oct 1943	R	Formerly Registered Confidential
OP 866.....	Depth Charge Mk 9 and Mods—Description and Instructions for Use (Arbors Mks 7 and 7 Mod 1)	12 Feb 44	R	1st rev. Issued with Change 1 dated 11 Aug 44 and OCL M5-43
ARMING WIRES, See BOMBS				

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
ASSEMBLIES				
See also	AMMUNITION GUNS MOUNTS TURRETS			
OD 5297.....	Ammunition Assemblies.....	14 Jul 44	R	Rev A. See remarks for OD 5297 in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Ammunition Box and Hood Assemblies</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 60.....	Index of Assemblies for U.S. Navy Mounts and Turrets—Includes Guns Cal 20-mm to 16"	29 Apr 44	R	5th rev.
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries, 38 Cal DP Single, Open, Base Ring Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49	11 Apr 44	R	See remarks for OP 1013 in Part 1
OTI QV6-44..	Substitution of Roller for Ball Bearing in Cylinder End Assembly of Hydraulic Gun Charger AN-MK 2	25 Aug 44	R	
OP 1415.....	Rocket Assemblies (<i>Preliminary</i>)	7 Apr 45	C	Supersedes OD 5368
ATTACHMENTS				
OP 481.....	Broadside Gun Mount Telescopes (<i>Preliminary</i>) (<i>Color Filter Attachment</i>)	19 Sep 44	R	1st rev. Supersedes OD 780 and OP 349
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Hoisting Attachment</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
Attachments, Bombing & Bombsight				
OHI A12-43..	1000-lb AP Bomb AN MK 33—List of Attachments Packed in Each Bomb Tail Crate	Undated	D	
OP 1116.....	Glide Bombing Attachment Mk 2 Mod 1.....	19 Jan 45	R	1st rev. Supersedes OP 1116A
OP 1219A.....	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 1116B.....	Inspection Procedure for Glide Bombing Attachment Mk 2 Mod 1	29 Jun 45	R	
OHI FV3-44..	Glide Bombing Attachment Mk 2 Mod 1.....	30 Jun 44	R	
OTI AV9-43..	Anti-Personnel Bomb Fuze Attachment for Use With the AN-MK 219 Fuze	31 May 43	R	
OD 3731.....	Mirror Tilting Device (<i>For BS</i>).....	6 Nov 41	C	
OMI V1-46....	Mounting of Data Card Holder Bombsight and Stabilizer Mk 15, SBAE Mk 2 and GBA Mk 2	22 Jan 45	D	Supersedes OMI V25-44
Attachments, Elevating				
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
*OD 2328.....	5" Elevation Gun Attachment Mk 2 Mod 2—Description, Installation and Adjustment			
*OD 2329.....	5" Elevation Gun Attachment Mk 6 Mod 1—Description, Installation and Adjustment			
OD 2335.....	5" Elevation Gun Attachment Mk 10 Mod 1—Description, Installation and Adjustment	17 Apr 41	R	
OD 480.....	Assemblies, Director Gear, 6" Elevating Gun Attachment Mks 1 and 2 and 6" Training Gun Attachment Mks 1 and 2	27 Jul 22	D	
OP 833.....	6"/47 Cal Triple Turrets, CL 55 Class.....	Jun 1942	R	See remarks for OP 833 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Attachments, Elevating				
OD 1709.....	8" Training Gear Mk 20, 8" Elevating Gear Mk 21, 8" Elevation Gun Attachment Mk 4—Manufacturing List of Parts With Instructions for Assembly and Installation on CA 32 and CA 36	Jun 1943	R	See remarks for OP 834 in Part 1
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class CAs 68-75, 122-138 (Preliminary)	Apr 1943	R	See remarks for OP 834 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM and HAWAII (Preliminary)	25 Oct 44	R	See remarks for OP 835 in Part 1
OD 1817.....	USS OKLAHOMA and NEVADA—Director Gear—14" Elevation Gun Attachment Mk 5 and Mk 6—Instructions for Installing and Adjusting	2 Mar 29	D	
Attachments, Offset Wedge				
OTI F1-44....	Offset Wedge Attachments Mk 7 Mod 1 and Mk 8....	7 Jan 44	R	
Attachments, Ray Filter				
OD 546.....	Ray Filter Attachment Mk 1 (For Telescopes).....	9 Jun 43	D	
Attachments, Track Laying				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
Attachments, Training				
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OD 2327.....	5" Training Gun Attachment Mk 2 Mod 2—Description, Installation and Adjustment	12 Apr 40	D	
*OD 2332.....	5" Training Gun Attachment Mk 10—Description, Installation and Adjustment			
OD 2333.....	5" Training Gun Attachment Mk 10 Mod 1—Adjustment, Installation and Description	22 Nov 40	R	
OD 480.....	Assemblies, Director Gear, 6" Elevating Gun Attachment Mks 1 and 2 and 6" Training Gun Attachment Mks 1 and 2	27 Jul 22	D	
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class, CAs 68-75, 122-138 (Preliminary)	Apr 1943	R	See remarks for OP 834 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary)	25 Oct 44	R	See remarks for OP 835 in Part 1
OP 966.....	14" Elevating Gear, 14" Training Gear and Receiver Regulator Controls USS TENNESSEE and CALIFORNIA (Training Gun Attachment Mk 5 Mod 1)	May 1943	R	Supersedes OP 310
OD 690.....	Rangefinder Training Attachment Mk 3—Description, Installation and Adjustment	3 Jan 34	D	Rev A
Attachments, Warhead				
See also TORPEDOES				
TORPEDO WARHEADS				
#OP 663.....	Description, Adjustment, Care, Operation and Shop Tests of Torpedo Warhead Attachments	Nov 1942	R	Issued with OP 663A, OTIs T10-43, T17-43 and T2-44
OP 663A.....	Supplement to OP 663.....	1 Mar 43	R	Issued with OP 663
ATTACK TEACHER				
OP 480.....	Submarine Attack Teacher Mk 1 Mod 1—Care and Operation	May 1922	R	Supersedes OD 488

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks and Numbers
ATTACK TEACHER				
OD 471.....	Submarine Attack Teacher Mk 1 Mod 1--Instructions for Installation of the Submarine Teacher Mk 1 Mod 1	27 Jun 41	R	See also
*OP 1195.....	Submarine Attack Teacher Mk 2 and Mods.....			
*OP 1418.....	Attack Teacher Mk 3.....			
*OP 1405.....	Torpedo Attack Teacher Mk 4.....			
AVIATION ORDNANCE				
See also	ADAPTERS			
	AMMUNITION			
	ATTACHMENTS, BOMBING			
	BANDS			
	BLANKETS			
	BOMBS AND BOMBING			
	BORESIGHTING KITS			
	CAMERAS, GUN			
	CARRIERS			
	CATAPULT EQUIPMENT			
	CHARGES			
	CONTAINERS			
	DISTRIBUTORS, STATION			
	FUZES			
	GENERATORS			
	GUNS			
	HANDLES			
	HOISTS			
	INTERVALOMETERS			
	LINKS			
	MECHANISMS			
	MINES			
	MOTORS			
	PILOTS			
	PYROTECHNICS			
	RACKS			
	RELEASES			
	SHACKLES			
	SIGHTS			
	SMOKE SCREEN EQUIPMENT			
	STABILIZED BOMBING APPROACH EQUIPMENT			
	TABLES, BOMBING			
	TARGETS			
	TORPEDOES			
	TRAILERS			
	TRAINERS			
	TRUCKS			
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1505.....	Aviation Ordnance Stock List.....	20 Apr 45	D	Supersedes Aviation Ordnance Stock Lists (Classes 1, 2, and 3) dated Jul 1944
OP 1610.....	Aviation Ordnance Equipment, Salvage, and Overhaul Guide	14 Aug 45	R	See remarks for OP 1610 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
AZIMUTH				
OD 1702.....	5" AA Sights, Azimuth Shaft.....	Undated	D	
BAGS, See CONTAINERS, AMMUNITION				
BALLISTICS				
See also.....	COMPUTATIONS TABLES, RANGE			
OP 348.....	Ballistics (Projectile) Underwater Trajectories and Behavior on Impact With Water	Jul 1912	D	
OP 411.....	Practical Interior Ballistics.....	Dec 1916	D	Used primarily for Gun Designers
OP 1004.....	Index of Ballistics Information for Projectiles, Rockets and Bombs	7 Mar 45	C	2nd rev. See remarks for OP 1004 in Part 1
OP 1112.....	Gun Mount and Turret Catalog.....	7 Mar 45	R	2nd rev.
OP 1172.....	Performance of Bombs and Projectiles Against Shore Installations	9 May 44	C	
TM9-1907.....	Ballistic Data, Performance of Ammunition.....	23 Sep 44	R	War Dept Publication
Ballistics, 40-mm				
OP 820.....	40-mm AA Gun; 40-mm Machine Gun Mechanism Mk 1, Mk 2, Mk 1 Mod 1, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sight Mk 3 and 4, Description and Operation (Preliminary)	Oct 1943	D	See remarks for OP 820 in Part 1
Ballistics, 1710				
OP 717.....	1710 Range Table and Ballistic Data 2,600 fsiv to 7400 yds AA (75 Cal)	Nov 1939	R	1st rev. Issued with Change 1 dated 2 Sep 44
Ballistics, 3"				
OP 984.....	3" Gun Mounts 50 Cal DP Pedestal Type Mk 24 and Mk 24 Mod 1	27 Jan 44	R	See remarks for OP 984 in Part 1
Ballistics, 4"				
OD 1988.....	4"/50 Cal 2,900 fsiv Ballistic Computation Diagrams....	20 Apr 31	R	
OD 3334.....	4"/50 Cal Ballistic Computation Diagrams.....	23 Jun 37	R	
Ballistics, 5"				
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries, 38 Cal DP Single, Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49	11 Apr 44	R	See remarks for OP 1013 in Part 1
Ballistics, 6"				
OD 4263.....	Range Keepers Mk 10 Mods 5, 11, 27, 34, 43, 64. Table of Corrections for Control of 6"/47 Cal Gun Firing 105-lb HC Projectiles	5 Aug 43	R	Issued with OTI F17-44
OD 5249.....	AA Ballistic Data for 6"/47 Cal Gun 2,590 fsiv.....	Jul 1943	D	
OD 1590.....	6"/53 Cal 3,000 fsiv Ballistic Computation Diagram....	3 Oct 28	R	
Ballistics, 8"				
OD 5252.....	AA Ballistic Data for 8"/55 Cal Gun 2,600 fsiv 260-lb HC Projectile Mk 24, 45-sec Mechanical Time Fuze Mk 18	24 Jul 43	R	
OD 5296.....	AA Ballistic Data for 8"/55 Cal Gun 2,700 fsiv 260-lb HC Projectile Mk 24, 45-sec Mechanical Time Fuze Mk 18	18 Nov 43	R	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Ballistics, 12"				
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary)	25 Oct 44	R	See remarks for OP-835 in Part 1.
Ballistics, 14"				
OD 1618.....	Range Correction for Air Density—14"/45 Ballistic Computation Diagram	13 Jul 31	R	Rev A
OD 1619.....	14"/45 Cal 2,600 fsiv Ballistic Computation Diagrams..	13 Jul 31	R	Rev B
OD 1620.....	14"/45 Cal 2,000 fsiv Ballistic Computation Diagrams..	20 Mar 31	R	
OD 1908.....	14"/45 Cal 2,600 fsiv Ballistic Computation Diagrams USS TEXAS	11 Jun 35	R	Rev A
OD 5365.....	AA Ballistic Data for 14"/45 Cal Gun 2,660 fsiv 1275-lb HC Projectile 45-sec Mechanical Time Fuze	25 Apr 44	R	
OD 1904.....	14"/50 Cal 2,600 fsiv Ballistic Computation Diagrams..	3 May 30	R	
OD 2097.....	14"/50 Cal Ballistic Computation Diagrams USS MISSISSIPPI	1934	R	
OD 2098.....	14"/50 Cal Ballistic Computation Diagrams USS NEW MEXICO and IDAHO	14 Apr 34	R	
OD 2685.....	14"/50 Cal 2,000 fsiv Ballistic Computation Diagrams..	11 Jun 34	R	
OD 5363.....	AA Ballistic Data for 14"/50 Cal Gun 2,750 fsiv 1275-lb HC Projectile 45-sec Mechanical Time Fuze	28 Apr 44	R	
Ballistics, 16"				
OD 2680.....	16"/45 Cal 2,000 fsiv Ballistic Computation Diagrams..	11 Jan 34	R	
OD 5305.....	AA Ballistic Data for 16"/45 Cal Gun 2,560 fsiv 1900-lb HC Projectile Mk 13, 45-sec Mechanical Time Fuze Mk 42	27 Dec 43	R	Issued with Change 1 dated March 1944
OD 5345.....	AA Ballistic Data for 16"/45 Cal Gun 2,450 fsiv 1900-lb HC Projectile 45-sec Mechanical Time Fuze	15 Apr 44	R	
OD 5285.....	AA Ballistic Data for 16"/50 Cal Gun 2,615 fsiv 1900-lb HC Projectile Mk 13, 45-sec Mechanical Time Fuze Mk 42	18 Nov 43	R	Issued with Change 1 dated 4 Apr 44
Ballistics, Bomb				
See also	TABLES, BOMBING			
OP 878.....	Bombs, General Data on—Navy, AN-Standard, Army, and British Bombs	Aug 1943	R	1st rev. See remarks for OP 878 in Part 1
OP 1004.....	Index of Ballistic Information for Projectiles, Rockets, and Bombs	7 Mar 45	C	2nd rev. See remarks for OP 1004 in Part 1
OP 1160.....	Bomb Ballistic Data for Horizontal, Dive and Glide Bombing	24 May 44	R	Issued with Change 1 dated 7 Aug 44, Change 2 dated 21 Oct 44. Supersedes OD 3612
OP 1394.....	Bombing Table for 2,000-lb. Aircraft-Laid Mines Mk 25 Mod 0	1 Feb 45	R	
OP 1395.....	Bombing Table for 1,000-lb. Aircraft-Laid Mines AN-Mk 26 Mod 1, Mk 36 Mods 0 and 1	12 Feb 45	R	With Change 1 dated 28 Sep 45
OP 1459.....	Bombing Table for 2,000-lb. Aircraft-Laid Mines Mk 25 Mods 1, 2, and 3	22 Mar 45	R	With Change 1 dated 28 Sep 45
Ballistics, Rocket				
OP 1004.....	Index of Ballistic Information for Projectiles, Rockets and Bombs	7 Mar 45	C	2nd rev. See remarks for OP 1004 in Part 1
OP 1164.....	Ballistic Testing of Rocket Propellants.....	26 Aug 44	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Ballistics, Rocket				
OP 1227	1175 Rocket Ammunition, Description and Instructions for Use	13 Mar 45	C	1st rev. With Change 1 dated 17 May 45 and Change 2 dated 5 Jun 45. Now issued by Bu Aer, NAVAER No. 11-756-501.
BALLISTITE				
OP 1219M	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1.
BANDS				
OP 865	Aviation Ordnance Equipment Catalog (<i>Hoisting Bands</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1.
OP 878	General Data on Navy, AN-Standard, Army, and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1.
OP 1219A	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1.
OP 1343	Hoisting, Suspension, and Trunnion Bands	23 Apr 45	R	Supersedes OTI A1-45. Now issued by Bu Aer, NAVAER No. 11-5-525.
OP 1219M	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1.
OP 1531	Complete Rounds for Aircraft Bombs	18 May 45	D	See remarks for OP 1531 in Part 1.
OHI AV23-43	Trunnion Band for 325-350-lb. Aircraft Depth Bombs Mk 17-1, AN-Mk 17-2, 41, 44 and 47	16 Sep 43	D	
OMI V3-45	Trunnion Band M5, Modification to	5 Feb 45	R	Supersedes OMI V31-44.
BARRELS				
See also GUNS				
OP 820	40-mm AA Gun; 40-mm Machine Gun Mechanism Mk 1, Mk 2, Mk 1 Mod 1, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sight Mks 3 and 4; Description and Operation (<i>Preliminary</i>)	Oct 1943	D	See remarks for OP 820 in Part 1.
*OP 820C	Parts List for 40-mm AA Gun; 40-mm Machine Gun Mechanism Mk 1 Mod 2, Mk 1 Mod 1, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sights Mks 3 and 4; Description and Operation (<i>Preliminary</i>)			
OD 2776	Notes on the Method of Manufacture and Inspection of Radially Expanded 5"/38 Gun Barrels Mk 12 Mod 1	7 Feb 36	R	
BARS				
TB9-1980-37	Fuze, Bomb (Nose) M148 and Bar, Suspension M1	15 Feb 45	R	War Dept Publication. Issued with TM9-1980.
BATTERIES, CELL				
OP 865	Aviation Ordnance Equipment Catalog (<i>Electric and Target Light Batteries</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1.
OP 888	Mines Mk 6 and Mods, Description and Instructions for Assembling, Handling and Planting	13 Feb 45	R	See remarks for OP 888 in Part 1.
OP 1219D	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1.
OP 1516	Torpedo Propulsion Batteries (Exide 101 Lead Acid Type) Instructions for Care and Maintenance	29 Jul 45	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
BATTERIES, CELL				STANDARD
OP 946.....	Torpedo Mk 18 and Mk 18 Mod 1 (Battery, Cell Mk 1 Mod 1 and Mk 2)	29 Jul 44	R 1st rev.	Issued with Change 1 dated 14 Nov 44 and OTI 1487
OD 1626.....	Firing and Lighting Circuits—Source of Current for Local Firing. Comparative Tests Made With 6, 10 and 12 Volt Storage Batteries	31 Jan 28	D	Supersedes OD 3830
OD 1923.....	Specifications for Knocked-Down 6" Dry Cells for Mine Batteries	24 Apr 33	D Rev A	
Batteries, Gun				
OP 762.....	Alignment of Ordnance Installation on Board Ship. General Instructions	Sep 1942	R 1st rev.	See remarks for OP 762 in Part 1
OD 2355.....	Tests and Procedure for Fitting Out 5"/38 Cal Battery	1 Sep 44	R Rev A	
BATTLE ORDER SYSTEMS, See SYSTEMS				
BAYONETS				
FM23-25.....	Bayonet	7 Sep 43	D	War Dept Publication
BEACONS				
OP 1193.....	Radar Beacon Mk 1 Mod 1.....	3 Jun 44	R	With Change 1 dated 9 Jun 44
OP 1336.....	Radar Beacon Mk 2 Mod 0 and Mod 1.....	7 Mar 45	R	
BEAMS				
TB3-255-3 ...	Beam, Grab M1.....	28 Oct 44	R	War Dept Publication, Issued with TM3-255
OP 950.....	Torpedo Mk 13 Type (Suspension Beam Mk 1 Mod 0, Mk 2 Mod 0)	30 Nov 44	R 1st rev.	See remarks for OP 950 in Part 1
BEARING SOLVERS, See SOLVERS				
BEARINGS				
OTI T1-45....	Torpedoes Mk 14, 15 and 23 Types—Ball Bearings....	12 Jan 45	R	
OTI GV6-44..	Substitution of Roller for Ball Bearing in Cylinder End Assembly of Hydraulic Gun Charger AN-Mk 2	25 Aug 44	R	
OTI G25-43...	Change in Bottom Azimuth Handcrank Bearing—40-mm AA Gun Carriage M2 and M3	12 Aug 43	R	Issued with TM9-1252
*OP 1533.....	Instructions for the Installation, Adjustment, and Maintenance of Oscillating Bearing Assemblies for all Turrets Having Automatic Control			
OP 865.....	Aviation Ordnance Equipment Catalog (Recoil Bearing)	4 May 44	R 2nd rev.	See remarks for OP 865 in Part 1
OTI G27-43...	Lubricating Fitting For Right Trunnion Bearing—40-mm AA Gun Carriage M1 and M2	12 Aug 43	R	Issued with TM9-1252
BELT LINKS, See LINKS				
BELTS				
OP 1219B....	Ammunition Code Catalog Class B, Pyrotechnics (Signal Cartridge Belt)	13 Jun 45	R 1st rev.	See remarks for OP 1219B in Part 1
BINOCULARS				
OP 435.....	Binoculars Mk 1 to 7 and Mods.....	Jun 1925	R	
OP 241.....	Binoculars Mk 11 and Mk 11 Mod 1—Description and Care	Apr 1928	R	Supersedes OD 899

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
BLANKETS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Bombsight</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OTI V4-43.....	Bombsight Blanket Mk 1, Electrically Heated.....	23 Mar 43	D	
BLOCKS				
OP 12190.....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 12190 in Part 1
OD 2811.....	Instructions for Manually Operating the Breech Block and Cartridge Case Extractor for 6"/47 Cal Triple Mount—Slide Mk 19 and Housings Mk 1 and Mk 1 Mod 1 Where Mounts are Not Equipped With Hydraulic Units	30 Sep 37	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	29 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1164.....	Ballistic Testing of Rocket Propellants (<i>Firing Blocks</i>)	26 Aug 44	R	
BOARDS				
OP 1219P.....	Ammunition Code Catalog Class 5, Small Arms, Machine Gun and Aircraft Gun Ammunition	25 Apr 45	R	1st rev. See remarks for OP 1219P in Part 1
OD 2889.....	Spotting Boards Mk 7 and Mk 7 Mod 1—Description..	30 Oct 40	R	Rev A
OD 4789.....	Report of High Impact Shock Test of Bureau of Ordnance Terminal Boards Drawing No. 8-Z-1141-1, Molded Glass Filled Melamine, Navy Type GMG, Phenolic Type CF120	20 Apr 45	R	
BOLTS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Trunnion Bolts</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OTI GV31-43.....	Re-Staking of Retaining Ring on Mk 1 Trunnion Bolt Assembly and Mk 1 Rear Mounting Post Assembly of Early Manufacture	27 Sep 43	R	
OTI V17-43.....	Trunnion Bolt Mk 1 for Cal 30 and 50 BAM Guns...	21 Apr 43	D	
BOMBS and BOMBING				
See also				
ADAPTERS				
ALLOWANCES				
BALLISTICS				
CONTAINERS, BOMB				
FILLING EQUIPMENT, BOMB				
FUZES, BOMB				
HANDLES, BOMB RELEASE				
HOISTS, BOMB				
RACKS, BOMB				
RELEASES, BOMB SHACKLE				
SHACKLES, BOMB				
SIGHTS, BOMB				
STABILIZED BOMBING APPROACH EQUIPMENT				
TABLES, BOMBING				
TRAINERS				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	13t rev. See remarks for OP 5 in Part 1
OP 878.....	General Data on Navy, AN-Standard, Army, and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
BOMBS AND BOMBING				
OP 998.....	Aircraft Pyrotechnics (<i>Arming Wires, Bomb</i>).....	14 Jul 43	R	Supersedes OP 562. See remarks for OP 998 in Part 1
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1160.....	Bomb Ballistic Data for Horizontal, Dive, and Glide Bombing.....	24 May 44	R	Issued with Change 1 dated 7 Aug 44 and Change 2 dated 21 Oct 44. Supersedes OD 3612
OP 1172.....	Performance of Bombs and Projectiles Against Shore Installations.....	9 May 44	C	See remarks for OP 1172 in Part 1
OP 1219A....	Ammunition Code Catalog Class A, Bombs and Accessories.....	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 1280.....	Aircraft Bombs.....	17 Feb 45	R	See remarks for OP 1280 in Part 1
OP 1291.....	Computer Mk 14 Mod 0 (AN/APA-30).....	23 Jan 45	C	See remarks for OP 1291 in Part 1
OP 1515.....	Restricted and Unserviceable Ammunition.....	11 Jun 45	R	See remarks for OP 1515 in Part 1
OP 1531.....	Complete Rounds for Aircraft Bombs.....	18 May 45	D	See remarks for OP 1531 in Part 1
OD 2026.....	Detonator Sand Test Bomb Firing Hammer—Instructions for Use of.....	23 Aug 35	C	Rev A
OTI AV6-45..	Fin Assemblies for Aircraft Bombs, Assembly of.....	3 Jul 45	R	Supersedes OTI AV4-45
OTI V26-44...	Modifications to Aircraft Bomb Suspension Lugs.....	12 Sep 44	R	
OHI AV8-44...	Aircraft Bomb Fin Assemblies, Interchangeability.....	2 Nov 44	R	
TM9-1900	Ammunition, General.....	18 Jun 45	R	War Dept Publication. See remarks for TM9-1900 in Part 1
SNL S-1 (ORD 11)	Bombs, Aircraft, All Types.....			War Dept Publication
SNL S-2 (ORD 11)	Fuzes and Miscellaneous Explosive Components for Aircraft Bombs.....			Do
SNL S-3 (ORD 11)	Fin, Assemblies and Miscellaneous Inert Components for Aircraft Bombs.....			War Dept Publication
SNL S-6 (ORD 11)	Ammunition Instruction Material for Grenades, Pyrotechnics and Aircraft Bombs.....			Do
SNL S-10 (ORD 11)	Obsolete and Nonstandard Bombs, Grenades, Pyrotechnics and Rockets.....			War Dept Publication
TM9-1980	Bombs for Aircraft.....	15 Nov 44	R	War Dept Publication. See remarks for TM9-1980 in Part 1
TB CW 31....	Venting H-Filled Bombs, M70.....	Jun 1945	R	War Dept Publication. See remarks for TB CW 31 in Part 1
TB9-1980-53 ..	100-lb Target Identification Bomb M84A1 and 250-lb Identification Bombs M89, M90, and M98.....	29 May 45	R	War Dept Publication. See remarks for TB9-1980-53 in Part 1
AA Bombs				
NavOrd Chart AV20-43	3-lb AA Bomb Mk 34—Instruction Chart.....	Undated	R	
AP Bombs				
OP 1280.....	Aircraft Bombs.....	17 Feb 45	R	See remarks for OP 1280 in Part 1

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
AP Bombs				
BTF L.A.B. & H/B-2	Bombing Tables (Fluorescent)		R	War Dept Publication. See remarks for BTF L.A.B. & H/B-2 in Part 1
OTI AV7-43	AN-Mk 33 1000-lb AP Bomb, Fit of Suspension Lug	15 May 43	R	
OHI A12-43	1000-lb AP Bomb AN-Mk 33—List of Attachments Packed in Each Bomb Tail Crate	Undated	C	
NavOrd Chart AV8-43	1000-lb AP Bomb AN-Mk 33—Instruction Chart	Undated	R	
OP 1220	1250-lb AP Rocket Bomb Mk 50 and Fuzes Mk 150 and Mk 151	27 Aug 44	C	
Chemical Bombs				
#OP 1030	Nonpersistent Gas Munitions	22 Dec 43	R	With Change 1 dated 10 Jul 44
BTF L.A.B. & H/B-2	Bombing Tables (Fluorescent)		R	War Dept Publication. See remarks for BTF L.A.B. & H/B-2 in Part 1
OHI AV22-43	Instructions for T2 and T3E1, 1000-lb Chemical Bombs CG-Loaded	9 Sep 43	R	
NavOrd Chart AV12-43	100-lb Chemical Bomb AN-M70—Instruction Chart	Undated	R	
TM9-1980	Bombs for Aircraft	15 Nov 44	R	War Dept Publication. See remarks for TM9-1980 in Part 1
Cluster Bombs				
OP 1087	Release Lags for Incendiary Bomb Clusters	30 Nov 43	R	With Change 1 dated 2 Mar 44 and OCL AV129-43
OP 1280	Aircraft Bombs (Cluster Bombs, M1, M1A1, AN-M1A1, AN-M4)	17 Feb 45	R	See remarks for OP 1280 in Part 1
OTI AV1-45	Cluster Fragmentation Bomb M29—Assembly and Flight Preparation of	8 Feb 45	R	
TB CW 16	Bomb Clusters Using E6R2 Adapter	16 Sep 44	R	War Dept Publication. Supersedes TB CW 1 and TB CW 5
Depth Bombs				
OP 1330	Mine Disposal Handbook	1 Nov 44	C	Accountable. Issued only to Mine Disposal Personnel
OTI V14-44	Aircraft Depth Bombs Instructions for Installation of Arming Wires on Bomb Racks and Bomb Shackles	20 Jun 44	R	Issued with OPs 988 and 1084
OP 1280	Aircraft Bombs (Depth Bombs, Mk 17 Mod 1, AN-Mk 17 Mod 2, Mk 29, Mk 37, Mk 38, AN-Mk 41, AN-Mk 44, AN-Mk 47, Mk 49, Mk 52, Mk 53, Mk 54)	17 Feb 45	R	See remarks for OP 1280 in Part 1
NavOrd Chart AV5-43	325 lb Depth Bomb AN-Mk 41—Instruction Chart	Undated	R	
*NavOrd Chart AV1-44	100 lb Depth Bomb Mk 52			
*NavOrd Chart AV3-44	Aircraft Depth Bomb Mk 53 and 54			
Bombs, Disposal of				
FM9-40	Unexploded Bombs, Organization and Operation for Disposal	20 Oct 43		War Dept Publication

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Bombs, Fire				
TB3-300-5 ...	Igniters for Fire Bombs (<i>Explosive Type</i>).....	10 Feb 45	R	War Dept Publication. Issued with TM3-300
TB CW 25....	Tail Fin Assembly for 165-Gallon Fire Bomb.....	7 Feb 45	R	War Dept Publication. See remarks for TB CW 25 in Part 1
Fragmentation Bombs				
OP 1458.....	Fragmentation Data on Bombs and Projectiles.....	2 Apr 45	R	See remarks for OP 1458 in Part 1
TB9-1980-29 ...	Change in Design of 20 lb and 23 lb Bombs (Fragmentation and Practice) to permit Shipment unfuzed	15 Jul 44	R	War Dept Publication. Issued with TM9-1980
TB9-1980-38 ..	100 lb Fragmentation Bomb Cluster M28A1.....	19 Feb 45	R	War Dept Publication. Issued with TM9-1980
NavOrd Chart AV18-43	23 lb Fragmentation Bomb Parachute AN-M40—Instruction Chart	Undated	R	
TB9-1980-45 ..	Conversion Kit for Converting 20 lb Fragmentation Bombs AN-M41 to Parachute Type Bomb for Single Suspension or for Use in Cluster AN-M41A1	26 Mar 45	R	War Dept Publication. See remarks for TB9-1980-45 in Part 1
OP 1280.....	Aircraft Bombs (<i>Fragmentation Bombs AN-M81, M41 or AN-M41, AN-M40</i>)	17 Feb 45	R	See remarks for OP 1280 in Part 1
OTI AV5-45..	Bombs, Fragmentation, 260 lb M81 and 220 lb AN-M88	23 May 45	R	
BTF L.A.B. & H/B-2	Bombing Tables (Fluorescent).....		R	War Dept Publication. See remarks for BTF L.A.B. & H/B-2 in Part 1
GP Bombs				
OP 1280.....	Aircraft Bombs (<i>GP Bombs, Mk 4 Mod 4, Mk 12 Mod 2, Mk 13 Mod 2, AN-M30, AN-M34, Mk 36, AN-M43, AN-M44, AN-M56A1, AN-M57, AN-M64, AN-M65, and AN-M66</i>)	17 Feb 45	R	See remarks for OP 1280 in Part 1
NavOrd Chart AV4-43	500 lb GP Bomb Mk 12 Mod 2 Instruction Chart.....	Undated	R	
NavOrd Chart AV3-43	Instruction Chart 1000 lb GP Bomb Mk 13 Mod 2....	Undated	R	
TB9-1980-41 ..	Antiricochet Devices M16 and M17.....	22 Feb 45	R	War Dept Publication. Issued with TM9-1980
NavOrd Chart AV1-43	Instruction Chart 100 lb GP Bomb AN-M30.....	Undated	R	
BTF L.A.B. & H/B-2	Bombing Tables (Fluorescent).....		R	War Dept Publication. See remarks for BTF L.A.B. & H/B-2 in Part 1
NavOrd Chart AV6-43	500 lb GP Bomb AN-M64—AN-M43 Instruction Chart	Undated	R	
NavOrd Chart AV7-43	1,000 lb GP Bomb AN-M65, AN-M44 Instruction Chart	Undated	R	
NavOrd Chart AV10-43	250 lb General Purpose Bomb AN-M57 Instruction Chart	Undated	R	
*NavOrd Chart AV2-44	2000 lb General Purpose Bomb AN-M66.....			
Incendiary Bombs				
TB CW 29S13	Theatre of Operations Surveillance Procedure for 100 lb Incendiary Bombs, M47 Type	Apr 1945	R	War Dept Publication. See remarks for TB CW 29S13 in Part 1

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Subjects and Publication Numbers	Equipment	Issued Date	Class	Remarks
Incendiary Bombs				
OP 1123	Bombing Table 100 lb Incendiary Bombs M47A1 and M47A2 Bombsight Mk 15 Mods 4 to 7	5 Jun 44	R	See remarks for OP 1123
OP 1234	One-Hundred Pound Incendiary Bomb AN-M47A2 (All purpose) (Preliminary)	29 Jul 44	R	See remarks for OP 1234
BTF L.A.B. & H/B-2	Bombing Tables (Fluorescent)		R	War Dept Publication. See remarks for BTF L.A.B. & H/B-2 in Part 1.
TB CW 10	Assembly of Burster and Igniter in M47A1 and AN-M47A2 Incendiary Bombs	15 Jul 44	R	War Dept Publication. See remarks for TB CW 10 in Part 1.
NavOrd Chart AV13-43	4 lb Incendiary Bomb—AN-M50A1, AN-M50A2—Instruction chart	Undated	R	See remarks for NavOrd Chart AV13-43
NavOrd Chart AV14-43	4 lb Incendiary Bomb AN-M54 Instruction Chart	Undated	R	See remarks for NavOrd Chart AV14-43
NavOrd Chart AV15-43	6 lb Incendiary Bomb—AN-M69 Instruction Chart	Undated	R	See remarks for NavOrd Chart AV15-43
TB9-1980-51	10 lb Incendiary Bomb M74	17 May 45	R	War Dept Publication. Issued with TM9-1980
TB CW 4	Bomb, Incendiary, 500 lb M76 (T2E1)	4 Apr 44	R	War Dept Publication. See remarks for TB CW 4 in Part 1.
Bombs, Marker				
OP 635	Torpedoes Mk 14 and 23 Types	24 Apr 45	R	1st rev. Supersedes OP 635A, ODs 3834 and 3842
OD 3832	Description of and Instructions for the Use of Mk 30 Mod 2 Exercise Head	31 Jan 44	R	Rev A
Napalm Bombs				
OP 1361	Napalm Bombs (Aircraft Jettisonable Fuel Tanks used as Incendiary Bombs) (Preliminary)	21 Apr 45	R	See remarks for OP 1361 in Part 1.
Photoflash Bombs				
OP 1219B	Ammunition Code Catalog Class B, Pyrotechnics	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1.
OP 998	Aircraft Pyrotechnics	14 Jul 43	R	Supersedes OP 562. See remarks for OP 998 in Part 1.
OP 1511	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	
OHI AV16-43	Photoflash Bomb M46	17 Jul 43	D	See remarks for OHI AV16-43
Practice Bombs				
TB9-1980-29	Change in Design of 20 lb and 23 lb Bombs (Fragmentation and Practice) to permit Shipment Unfuzed	15 Jul 44	R	Issued with TM9-1980. War Dept Publication
OP 1280	Aircraft Bombs (Practice Bombs, AN-Mk 5 Mod 1, Mk 15 Mod 2, Mk 19 Mod 1, Mk 21, Mk 22, AN-Mk 23, AN-Mk 43)	17 Feb 45	R	See remarks for OP 1280 in Part 1.
*OP 1621	100 lb Practice Bomb Mk 15 Mod 3		R	
OP 1332	Bombing Table for 13 lb Practice Bomb Mk 19 Mod 1 Bombsight Mk 15 Mods 4 to 8	18 Nov 44	R	With Change 1 dated 12 Jan 45

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Practice Bombs				
BTF L.A.B. & H/B-2	Bombing Tables (Fluorescent)		R	War Dept Publication. See remarks for BTF L.A.B. & H/B-2 in Part 1.
TB9-1980-40	Spotting Charge M5 for 100 lb Practice Bomb M38A2	21 Feb 45	R	War Dept Publication. Issued with TM9-1980.
OTT AV3-45	Practice Bombs 500 lb 20-Gallon Capacity Mk 65 Mods 0 and 1,000 lb 45-Gallon Capacity Mk 66 Mod 0	10 Mar 45	R	
Semi AP Bombs				
OP 1280	Aircraft Bombs	17 Feb 45	R	See remarks for OP 1280 in Part 1.
NavOrd Chart AV9-43	1,000 lb SAP Bomb AN-M59 Instruction Chart	Undated	R	
BTF L.A.B. & H/B-2	Bombing Tables (Fluorescent)		R	War Dept Publication. See remarks for BTF L.A.B. & H/B-2 in Part 1.
Smoke Bombs				
OP 1050	Aircraft Smoke Bombs	13 Oct 44	R	1st rev. Issued with OCL AV3-44.
OP 1219B	Ammunition Code Catalog Class B, Pyrotechnics	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1.
OP 1219Q	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1.
OHI A9-45	Bomb (Target Identification, Smoke) Mk 72 Mod 1	31 Oct 45	D	
BTF L.A.B. & H/B-2	Bombing Tables (Fluorescent)		R	War Dept Publication. See remarks for BTF L.A.B. & H/B-2 in Part 1.
TB CW 26	Bomb, Smoke 10 Pound (HC) M77	Feb 1945	R	War Dept Publication.
Vesicant Bombs				
#OP 975	Aircraft Vesicant Munitions	19 Mar 43	R	Now issued by BuAer. NAVAER No. 24-10-501-8.
BOMB HANDLING EQUIPMENT				
OTT V32-43	Auxiliary Bomb Handling Equipment	22 Jul 43	R	
BOMB HOISTS, See HOISTS BOMB				
BOMB RACKS, See RACKS BOMB				
BOMB SHACKLES, See SHACKLES, BOMB				
BOMBING ATTACHMENTS, See ATTACHMENTS, BOMBING				
BOMBSIGHT BLANKET, See BLANKETS				
BOMBSIGHTS, See SIGHTS, BOMB				
BOOMS, See NETS AND BOOMS				
BOOSTERS				
OP 5	Ammunition Ashore Vol 1	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1.
OP 1120	Care of Ammunition at Advanced Bases	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43.
OP 878	General Data on Navy, AN-Standard, Army, and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1.
OP 1219A	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1.
OP 1219D	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1.

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
BOOSTERS				
OP 1219E	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1219O	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
OP 1219Q	Ammunition Code Catalog, Class Q, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OP 1531	Complete Rounds for Aircraft Bombs	18 May 45	D	See remarks for OP 1531 in Part 1
TB9-1901-7 ...	Fuze, CP, M78 and Booster M25	28 Dec 44	R	War Dept Publication. Issued with TM9-1901
OP 747	Depth Charges Mk 6, Mk 6 Mod 1, Mk 7, Mk 7 Mod 1, Operating and Maintenance Instructions	22 Dec 43	R	1st rev. See remarks for OP 747 in Part 1
OP 908	Mk 10 Depth Charge Description and Instructions for Use (Depth Charge Booster Mk 8)	Aug 1943	R	
OP 888	Mines Mk 6 and Mods, Description and Instructions for Assembling, Handling, and Planting	13 Feb 45	R	1st rev. See remarks for OP 888 in Part 1
OP 901	Mine Mk 12 and Mods, Description and Instructions for Assembly, Handling and Planting (Booster Mk 6 Mod 1)	Nov 1943	R	See remarks for OP 901 in Part 1
OP 902	Mine Mk 18, Description and Instructions for Assembly, Handling, and Planting (Boosters Mk 6 Mods 1 and 3)	25 Jan 44	R	See remarks for OP 902 in Part 1
OP 954	Mine AN Mk 26 Mod 1, Description and Instructions for Assembling, Handling, and Planting (Aircraft) (Booster Mk 6 Mods 1 and 3)	11 Dec 43	R	See remarks for OP 954 in Part 1
OP 1001	Projectors Mk 10, Mk 10, Mod 1 and Mk 11 and Ammunition Description and Instructions for Use	25 Jul 44	R	1st rev. With Change 1 dated 24 Oct 44. Supersedes OCLs A113-43, G12-44
OP 1219M	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1415	Rocket Assemblies (Preliminary)	7 Apr 45	C	Supersedes OD 5368
Boosters, Torpedo				
OP 663	Description, Adjustment, Care, Operation and Shop Tests of Torpedo Warhead Attachments	Nov 1942	R	Issued with OP 663A, OTIs T10-43, T17-43, T2-44
OP 1219F	Ammunition Code Catalog Class F, Torpedo Warheads and Accessories	5 Nov 45	R	1st rev. See remarks for OP 1219F in Part 1
OD 733	Description and Instructions for the Manufacture and Installation of Tetryl Boosters for Torpedo Warheads	29 May 30	R	
OTI T3-43	Instructions for Use of Tool For Removing Booster from Torpedo Warheads	4 Jun 43	R	
BORESIGHTING				
OP 1210	Aircraft Machine Gun Boresighting Kit Mk 2 Mod 0	9 Apr 45	R	
OP 1233	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 44	R	See remarks for OP 1233 in Part 1
OP 1238	Radar Equipment Mk 28 Mod 2	28 Dec 44	R	See remarks for OP 1238 in Part 1
OTI FV4-43 ..	Illuminated Sight Mk 8 Boresighting at Short Ranges	27 May 43	R	
OP 1296	Boresighting and Effective Angle of Attack Data for Aircraft	29 Dec 44	R	See remarks for OP 1296 in Part 1
OP 1353	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers, Aircraft FM-3	22 Dec 44	R	See remarks for OP 1353 in Part 1

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
BORESIGHTING				
OP 1355.....	Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"75 and 5"0 Aircraft Rockets (with 3"75 Motors) and 5"0 High-Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers, Aircraft F6F-3 and F6F-5	22 Dec 44	R	See remarks for OP 1355 in Part 1
OP 1356.....	Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"75 and 5"0 Aircraft Rockets (with 3"75 Motors) and 5"0 High-Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers, Aircraft TBM-1 and TBF-1	9 Apr 45	R	See remarks for OP 1356 in Part 1
OP 1357.....	Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"75 and 5"0 Aircraft Rockets (with 3"75 Motors) and 5"0 High-Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers, Aircraft TBM-1C and TBF-1C	16 Mar 45	R	See remarks for OP 1357 in Part 1
OP 1358.....	Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"75 and 5"0 Aircraft Rockets (with 3"75 Motors) and 5"0 High-Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers, Aircraft SB2C-1, SB2C-1C, SB2C-3, SB2C-4, and SB2C-5	29 Dec 44	R	See remarks for OP 1358 in Part 1
OP 1371.....	Range Table for 11"75 Aircraft Rockets Fired from F4U and F6F Type Aircraft Using Drop Launchers (Preliminary)	2 Mar 45	R	
OP 1421.....	Sighting Data for Fixed-Gun Strafing, Cal .50 and 20-mm Fixed Machine Guns	28 Apr 45	R	1st rev
OP 1524.....	Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"75 and 5"0 Aircraft Rockets (with 3"75 Motors) and 5"0 High-Velocity Aircraft Rockets used with Post-Type (Zero Length) Launchers, Aircraft PV-1	4 Jul 45	R	
BOXES				
See also	CONTAINERS			
OP 865.....	Aviation Ordnance Equipment Catalog (Assembly, Ammunition, Switch, and Bomb Fuzing Control)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
#OP 1178.....	Demolition Material	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OD 4834.....	Report of Test and Inspection Synchro Capacitor Boxes Mk 1 Mod 0, Mk 2 Mod 0, Mk 2 Mod 1, Mk 3 Mod 0, and Mk 4 Mod 0	10 Aug 45	R	
OD 4675.....	Report of 2000 Ft lb Shock Test of 64 Wire Connection Box and Fuze Box Mk 3 with Deep Drawn Steel Cases Submitted by Clark Controller Co.	9 Dec 43	D	
OP 1478.....	Rocket Sight (Aircraft) Mk 1 Mod 0 (Control Box)	10 Jul 45	C	
OMI V15-44...	Electric Rewind Motor 24 Volt EE-800 Series (For Antiaircraft Target Reel Type C-5) Conversion of Control Box	22 Jun 44	D	
OP 1122.....	Gun Director Mk 55 Mod 0 (Gear Box)	30 Jul 45	R	
#OP 1173.....	Demolition Material (Reel Boxes)	8 Dec 44	R	
*OP 1274.....	Reel Box Mk 2			
*OP 920.....	Selective Fuzing Control Box AN-A1-24 V, AN-B1-12 Volts			

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BOXES				
OP 1077.....	Boxes, Auxiliary Switch, Type NX-2, NX-2A and Mk 1	10 Sep 43	D	Now issued by BuAer. NAVAER No. 11-5-513.
OD 3765.....	Auxiliary Switch Box Types NX-2A and NX2 Operation and Service Instructions	10 Aug 43	R	1st rev.
OD 4765.....	Report of Tests and Inspection of Synchro Capacitor Box Mk 2 Mod 1 Ordinance Drawing No. 427013 Submitted for Type Approval by the General Electric Co.	13 Feb 45	R	
BRACKETS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Sight Brackets</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1219A....	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 1494.....	Mounting Bracket (Illuminated Sight) Mk 1 Mod 3, Service Manual	25 Apr 45	R	
OHI FV7-44..	Bracket, Mounting (Illuminated Sight) Mk 2 Mod 0....	27 Dec 44	D	
OMI V1-45...	Modification of Retracting Slide Bracket C46029A BAM Gun Caliber .50 M-2 to Prevent Interference with Sight Bracket Mounting Post of Mk 10 and Mods Gun Mount Adapter	12 Jan 45	D	Issued with OP 865
OMI V20-45..	Mounting Bracket (Illuminated Sight) Mk 1 Mod 3 for Armor Glass Reflection Aircraft Sight Installation, Replacement of Adjusting Screw	20 Oct 45	D	Supersedes OMI V14-45.
BRAKES				
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operation and Maintenance	1 Aug 44	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1
OD 2368.....	Instructions to Adjust the Clark Solenoid Brake of the 16" Projectile Hoists Mk 8 Mods 1 and 2	May 1944	D	
OD 2499.....	Description of Magnetic Brake for Train Power Motor—Main Battery—DDs 364 to 379 incl	5 May 36	D	6th rev
OD 2506.....	Description of Magnetic Brake for Elevation Power Motor—Main Battery DDs 364-379	5 Mar 36	D	5th rev
OD 2520.....	Description of Magnetic Brake for Train Power Motor, AA—CLs 40-43 and CA 44	5 Mar 36	D	1st rev
OD 2521.....	Description of Magnetic Brake for Elevation Power Motor—Anti-Aircraft Battery—CLs 40 to 43 and CA 44	5 May 36	D	1st rev
OD 3209.....	Description of Magnetic Brake for Power Motor Automatic Director Training Control (CA 45)	Undated	D	2nd rev
OD 3407.....	Report of Test and Dynamic Braking on a 5"/38 Cal Mount Mk 21 Mod 19	9 Mar 39	D	
OD 3876.....	Description of Magnetic Brake for Elevating Gear Electric Motor 5" Mount Mk 19 Mod 13 for CVs 2 and 3	9 Jan 41	D	1st rev
OD 3882.....	Description of Magnetic Brake for Training Gear Electric Motor 5" Mount Mk 19 Mod 13 CVs 2 and 3	9 Jun 41	D	2nd rev
BREECH BLOCKS, See BLOCKS				
BREECH ENDS				
OD 2894.....	Instruction for Modification of 3"/50 Cal Gun Mk 6 Breech End to 3" Gun Mk 20 or Mk 20 Mod 1 and 3" Breech Mechanism Mk 5 Mod 1 to 3" Breech Mechanism Mk 5 Mod 11	3 Aug 40	D	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
BREECH ENDS				
OD 2895.....	Instructions for Modification of 3"/50 Cal Gun Mk 6 Breech End to 3" Gun Mk 20 or Mk 20 Mod 1 and 3" Breech Mechanism Mk 5 Mod 6 to 3" Breech Mechanism Mk 5 Mod 11	3 Aug 40	D	See remarks for OP 2895 in Part 1
BREECH MECHANISMS, See MECHANISMS, BREECH				
BUFFERS				
OD 2947.....	5" Shield Mk 31 Mod 1 Barbette Water Seals and External Type Training Stop Buffers for 5" Mount Mk 32 Mods 3 and 4—Installation Instructions	16 Oct 44	D	Rev. B. Adds Mods 8, 11 and 12
BURSTERS				
OP 1219A.....	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
TB CW 10....	Assembly of Burster and Igniter in M47A1 and AN-M47A2, Incendiary Bombs	15 Jul 44	R	War Dept Publication. See remarks for TB CW 10 in Part 1
TB CW 22....	Nonpersistent Gas Bombs; Handling, Shipping and Storage	6 Apr 45	R	War Dept Publication. See remarks for TB CW 22 in Part 1
CABLES				
See also	ELECTRICAL EQUIPMENT SHEATHS			
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1219D.....	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1443.....	Grapnel Rocket Mk 1 Mod 0 used with Rocket Launcher Mk 26 Mod 0 (Preliminary)	17 Jul 45	C	
OD 1861.....	Gun Firing Circuits—Instructions for Installing Firing Cables and Cable Terminals on Guns	13 Sep 29	D	
OD 3594.....	Modernization of Electric Cables in Bureau of Ordnance Installations	8 Jan 42	D	
#OP 1178.....	Demolition Material.....	8 Dec 44	R	
OP 903.....	Mine Mk 23 Description and Instructions for Use (Mine Mooring Cables)	Aug. 1943	D	With Change 1 dated 11 Feb 44. Change 2 dated 19 Dec 44
OP 1141.....	Aerial Targets and Associated Equipment Description and Instructions for Use	20 Nov 44	R	See remarks for OP 1141 in Part 1
CALIBRATION				
OP 1116B.....	Inspection Procedure for Glide Bombing Attachment Mk 2 Mod 1	29 Jun 45	R	
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 44	R	See remarks for OP 1233 in Part 1
OP 1238.....	Radar Equipment Mk 28 Mod 2.....	28 Dec 44	R	See remarks for OP 1238 in Part 1
OP 1291.....	Computer Mk 14 Mod 0 (AN/APA-30).....	23 Jan 45	C	
OP 1478.....	Rocket Sight (Aircraft) Mk 1 Mod 0.....	10 Jul 45	C	

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CAMERAS				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1542.....	Underwater Photographic Assembly No. 2.....	3 Mar 45	R	Issued only on Bureau approval
OP 1179.....	Radium Camera Mk 2.....	19 Dec 44	C	Issued only on Bureau approval
CAMS				
See also MECHANISMS, FIRING STOP PLATES, CAM				
OD 4676.....	Manufacture and Installation of the Depression Stop Cam for 20-mm Machine Gun Mounts Mk 10 and Mk 10 Mod 1 and Mk 14	29 Jan 44	D	
CANDLES				
OP 1219C.....	Ammunition Code Catalog Class C, Chemicals (Gas Irritant Candles)	1 Oct 44	R	See remarks for OP 1219C in Part 1
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	
OP 1042.....	Ships Chemical Munitions, Description and Instructions for Use (Navy HC Training Candles)	25 Sep 43	R	See remarks for OP 1042 in Part 1
CANISTERS				
OP 1219Q.....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
CANS				
See also BOOSTERS				
OP 1219D.....	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories (Booster Cans)	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1
OP 1219B.....	Ammunition Code Catalog Class B, Pyrotechnics (False Target Cans)	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1464.....	False Target Shell Mk 1 Mod 0 and False Target Can Mk 2 Mod 0	24 Mar 45	C	See remarks for OP 1464 in Part 1
CAPACITORS				
OD 4748.....	Report of Amperage Tests to Determine the Location of Synchro Capacitors in Simulated Change of Range Circuits to the Change of Range Receiver in the Range-finder of Gun Director Mk 37 Equipped with Radar Equipment Mk 12 and in Simulated Change of Elevation and Bearing Circuits using Slewing Sight Mk 2	4 Nov 44	R	
OP 1303.....	United States Navy Synchros, Description and Operation	15 Dec 44	D	
OD 4388.....	Report of Tests and Inspection—Synchro Capacitors Mk 1 Type 3C Mk 3 Type 9C	26 Mar 42	R	
OD 4759.....	Report of Test and Inspection Synchro Capacitor Type 3C Mk 1 Mod 2—Submitted for Type Approval by the General Electric Company	17 Jan 45	R	
OD 4758.....	Report of Test and Inspection Synchro Capacitor Type 9C Mk 3 Mod 2—Submitted for Type Approval by the General Electric Company	17 Jan 45	R	
OD 3744.....	Synchro Capacitor Mk 3 Mod 3 Type 9C—Report of Tests and Inspection	3 Jan 43	R	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CAPACITORS				
OD 4813.....	Report of Test and Inspection, Synchro Capacitor Type 15C, Mk 4 Mod 2	15 Nov. 45	R Rev A	
OD 4757.....	Report of Test and Inspection Synchro Capacitor Type 15C, Mk 12 Mod 2—Submitted for type approval by the General Electric Company	17 Jan. 45	R	
OD 4756.....	Report of Test and Inspection Synchro Capacitor Type 2C, Mk 13 Mod 2—Submitted for Type Approval by the General Electric Company	17 Jan 45	R	
OD 4722.....	Report of Test and Inspection Synchro Capacitor Mk 14 Mod 2	11 Jan 45	R Rev A	
OD 4840.....	Report of Test and Inspection, Synchro Capacitor Type 7C, Mk 15 Mod 2	22 Oct 45	R	
CAPS				
OP 12190.....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items (<i>Blasting Caps</i>)	9 Jul 45	R 1st rev.	See remarks for OP 12190 in Part 1
OP 1411.....	Blasting Caps and Related Demolition material (<i>Preliminary</i>)	28 Dec 44	D	
#OP 1178.....	Demolition Material (<i>Blasting Caps</i>)	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R 1st rev.	See remarks for OP 1219E in Part 1
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R 2nd rev.	See remarks for OP 1219M in Part 1
CAPSULES				
OP 1219C.....	Ammunition Code Catalog Class C, Chemicals (<i>Capsules</i>)	1 Oct 44	R	See remarks for OP 1219C in Part 1
CARBINES				
FM23-7.....	U. S. Carbine Caliber .30 M1 and M1A1.....	23 Apr. 44	D	War Dept Publication
TB ORD 2.....	Use of Trigger Spring Removing Tool.....	22 Dec 43	R	Do
TB ORD 9.....	Sight, Adjustable, Rear, Assembly D73955 and D7160060	10 Jan 44	..	Do
TB9-1276-1 ..	Carbines Cal. 30 M1 and M1A1 Misconception of certain features	15 Jan 45	D	War Dept Publication. Issued with TM9-1276.
TM9-1276	Carbines Cal. 30 M1 and M1A1.....	5 Jun 43	D	War Dept Publication. Issued with TB9-1276-1
SNL B-28.....	Carbine Cal. 30 M1, M1A1, M1A3, and M2.....			War Dept Publication
CARRIAGES				
See also	GUNS			
	MOUNTS			
OP 893.....	.50 Cal Machine Gun Mount Mk 17 Description (<i>Carriage Mk 9</i>)	Oct 1942	R	
OP 1439.....	20-mm AA Assemblies (Twin); 20-mm AA Gun Mounts Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods; 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter, Equipment Mk 2 Mod 0; 20-mm Machine Gun Mechanism Mk 4 Mod 1 and 20-mm Magazine Mk 5 Mod 0 (<i>Carriage Mk 16 Mod 0 and 18 Mod 0</i>)	28 Apr 45	D	See remarks for OP 1439 in Part 1
OTI G26-43...	Lubrication of Wheel Bearings, 40-mm AA Gun Carriage M1 and M2	12 Aug 43	R	Issued with TM9-1252

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CARRIAGES				
OTI G27-43...	Lubricating Fitting for Right Trunnion Bearing, 40-mm AA Gun Carriage M1 and M2	12 Aug 43	R	Issued with TM9-1252
TM9-252	40-mm Automatic Gun M1 (AA) and 40-mm Antiaircraft Gun Carriages M2 and M2A1	17 Jan 44	R	War Dept Publication. Issued with TB9-252-9
TM9-1252	Gun and Top Carriage of 40-mm Antiaircraft Gun Material M2	24 Apr 42	R	War Dept publication. Issued with OTIs G25-43, G26-43, G27-43, TB9-1252-2 and
OTI G25-43...	Change in Bottom Azimuth Hand-crank Bearing, 40-mm AA Gun Carriage M2 and M3	12 Aug 43	R	Issued with TM9-1252
OP 1289.....	40-mm Mount Mk 3 Mod 4; 40-mm Train and Elevation Power Drives Mk 10 Mods 0, 1 and 2 (Carriage Mk 5 Mod 4)	28 Aug 45	R	
OP 811.....	3" Gun Mount Mk 20 and Mods, Mk 21 and Mods and Mk 22 and Mods (Carriage Mk 11 Mods 5, 6, 8, 9, 12, 13, 14, 19)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OP 984.....	3" Gun Mounts, 50 Cal DP Pedestal Type Mk 24 and Mk 24 Mod 1 (Carriage Mks 20 and 20 Mod 1)	27 Jan 44	R	See remarks for OP 984 in Part 1
OP 735.....	5"/38 Cal Gun Mounts, AA Bass Ring Type Mk 30 and Mk 30 and Mods (Except Merchantmen Types)	May 1943	R	1st rev. See remarks for OP 735 in Part 1
OD 1990.....	Instructions for Installing Training Circle Covers on 5" Mount Mk 15—With 5" Carriage Mk 13 Mod 4	22 Apr 32	D	Rev A
OP 700.....	5" Mounts (38 Cal AA Pedestal Type) Mk 24 Mods 1, 3, 6, 9, 10, 11, Assemblies, Description and Instructions (Carriage Mks 20 and 20 Mods 3, 4, 7, 8)	Sep 1942	R	See remarks for OP 700 in Part 1
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries. 38 Cal DP, Single, Open, Base Ring Type, Mk 30 Mods 20, 38, 39, 40, 45, 46, 48 and 49 (Carriage Mk 25 Mods 16, 27 to 31, 33, 34)	11 Apr 44	R	See remarks for OP 1013 in Part 1
OP 868.....	5"/38 Cal Single Mount Mk 37 (Carriage Mk 30).....	Feb 1943	R	See remarks for OP 868 in Part 1
CARRIERS				
See also	CONVEYER			
OP 865.....	Aviation Ordnance Equipment Catalog (Bomb, Flare, and Smoke Screen Tank Carriers)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OMI V10-45..	Bomb Carrier Mk 7 Mod 0, Addition of Sway Brace Assembly	16 May 45	D	
CARTRIDGE CASES				
#OP 4.....	Ammunition, Instructions for the Naval Service Afloat..	4 May 43	R	Revised. See remarks for OP 4 in Part 1
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1219M....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1219O....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
OD 515.....	Index of Drawings of Ammunition Details with Latest Revisions	12 May 39	R	
OD 2820.....	Regulations Covering Reforming and Inspection of Used Brass Cartridge Cases	6 Apr 44	D	Rev C

2Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CARTRIDGE CASES				
*OD 3720.....	Cartridge Case and Primer Weights.....			
OD 2825.....	U. S. Naval Gun Factory Method of Manufacturing 1.1"/75 Cal Cartridge Cases Mk 1	26 Feb 41	D Rev A	
OTI G9-44.....	Cartridge Case Extractor Tools for 3"/50, 5"/25, 5"/38 and 6"/47 Cal Guns with Sliding Breech Blocks	3 Jun 44	R	
OD 2826.....	U. S. Naval Gun Factory Method of Manufacture and Inspection of 5"/25 Cal Cartridge Cases Mk 4	8 Feb 39	D	
OTI G9-44.....	Cartridge Case Extractor Tools for 3"/50, 5"/25, 5"/38 and 6"/47 Cal Guns with Sliding Breech Blocks	3 Jun 44	R	
OD 2815.....	U. S. Naval Gun Factory Method of Manufacturing and Inspection of 5"/38 Cal Cartridge Cases Mk 5	17 Sep 41	D Rev B	
OD 2860.....	U. S. Naval Gun Factory Method of Manufacturing and Inspection of 5"/51 Cal Cartridge Cases Mk 3	20 Jun 39	D	
OD 2819.....	U. S. Naval Gun Factory Method of Manufacturing and Inspection of 6"/47 Cal Cartridge Cases Mk 4	22 Oct 41	D Rev B	
OD 3661.....	Test of 6" Cork Plug Assembled in Cartridge Case.....	2 Sep 41	D	
CARTRIDGES				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1219B.....	Ammunition Code Catalog Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1219I.....	Ammunition Code Catalog Classes 4, 7, 8, Unserviceable Gun Ammunition	8 Aug 45	R	1st rev.
OP 1219P.....	Ammunition Code Catalog Class 5, Small Arms, Machine Gun and Aircraft Gun Ammunition	25 Apr 45	R	1st rev. See remarks for OP 1219P in Part 1
OP 1219Q.....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OP 1440.....	4"2 Mortar Assembly Mk 1 Mod 0.....	25 Apr 45	R	
SNL T-6.....	Ammunition, Small Arms, Obsolete and Nonstandard.....			War Dept Publication
(ORD 11)				
NavOrd Chart A49-43	20-mm Antiaircraft Cartridge and Details.....	18 Jul 44	R	
OP 1219K.....	Ammunition Code Catalog Class K, Dummy Ammunition Assemblies	1 Oct 44	R	See remarks for OP 1219K in Part 1
NavOrd Chart A50-43	1"/75 Cal Cartridge and Details.....	18 Jul 44	R	
NavOrd Chart A51-43	40-mm Cartridge and Details.....	18 Jul 44	R	
NavOrd Chart A52-43	3"/50 Cal Cartridge and Details.....	18 Jul 44	R	
NavOrd Chart A53-43	5"/38 Cal Complete Round Details.....	18 Jul 44	R	
OD 2844.....	6"/47 Cal Dummy Cartridge Mk 2—Instruction for Modification	12 Dec 38	D	
OP 998.....	Aircraft Pyrotechnics (Engine Starter, Very Signal Mk 2)	14 Jul 43	R	Supersedes OP 562. See remarks for OP 998 in Part 1
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	
OP 831.....	Depth Charge Projector Mk 7 Mods 1 and 2 (Impulse Cartridges)	21 Jul 44	R	1st rev. Supersedes OCL M24-43

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CARTRIDGES				
*OP 1431.....	Preparation of Impulse Cartridges for Catapults.....			
OD 5318.....	Preparation of Impulse Cartridges for Single Depth Charge Projector Mk 6	14 Jun 44	R	With Change 1, dated 29 Mar 45. Supersedes OCLs A36-42 and A36a-42. (1)
OD 5317.....	Preparation and Use of Impulse Cartridges for 21" AWT Torpedo Tubes	30 Jun 45	DD	Supersedes OD 2701 (1)
OP 1219F.....	Ammunition Code Catalog Class F, Torpedo Warheads and Accessories	5 Nov 45	R	1st rev. See remarks for OP 1219F in Part 1 (1)
OP 1177.....	Surface Pyrotechnics and Projectors (Signal Cartridges)	19 Jan 45	R	See remarks for OP 1177 in Part 1 (1)
CASES				
See also	CARTRIDGE CASES			
OP 865.....	Aviation Ordnance Equipment Catalog (Bombsight Carrying Case)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1 (1)
OP 1210.....	Aircraft Machine Gun Boresighting Kit Mk 2 Mod 0	9 Apr 45	R	(1)
OP 1542.....	Underwater Photographic Assembly No. 2 (Underwater Camera Case)	3 Mar 45	R	(1)
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material (Demolition Charge Cases)	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1 (1)
OP 1219D.....	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories (Depth Charge Cases)	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1 (1)
OD 4443.....	Depth Charge Case Mk 6 Mod 3 Instructions for Loading	23 Jul 42	R	(1)
OP 866.....	Depth Charge Mk 9 and Mods Description and Instructions for Use	12 Feb 44	R	1st rev. Issued with Change 1 dated 11 Aug 44 and OCL M5-43 (1)
OD 4485.....	Report of 2000 Ft lb Shock Test of Exciter Case Mk 19 Made of Malleable Iron	1 Oct 42	D	(1)
CASTINGS				
OD 3618.....	Instructions for the Treatment of Porous Castings (Phosphor Bronze) that Fail to Pass the Hydrostatic Pressure Test Specified on Drawings	29 Mar 45	D	Rev. C (1)
CATALOGUES				
OP 639.....	Aviation Ordnance SBAE Parts Catalogue.....	Oct 1940	R	Issued with Change 1 dated 26 Jan 44 and OMI V25-44 (1)
OP 640.....	Aviation Ordnance—Bombsight Mk 15 Mods 4 and 5—Parts Catalog	Jan 1941	R	See remarks for OP 640 in Part 1 (1)
OP 803A.....	Illuminated Sight Mk 8 and Mods Parts Catalogue.....	1 Jul 44	R	Issued with OP 803 (1)
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1 (1)
OP 1043A.....	Illustrated Parts Catalogue for Gun Sight Mk 18 and Mods	Sep 1943	R	Includes OP 1043 D, Voltage Regulator Mk 1 Illustrated Parts Catalogue (1)
OP 1112.....	Gun Mount and Turret Catalog.....	7 Mar 45	R	2nd rev (1)
OP 1219.....	Ammunition Code Catalogue.....	15 Sep 44	R	(1)
TO 11-1-70...	Handbook of Instructions with Parts Catalog 37-mm Automatic Aircraft Gun M9	1 Aug 44		War Dept Publication (1)
TO AN11-5-73	Handbook of Instructions with Parts Catalog for Bomb Shackles Models 820, 820-2 (Interstate Aircraft Eng Corp)	25 Nov 44		Do (1)

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CATALOGUES				
TO AN11-10-6	Handbook of Instructions with Parts Catalog Gun Mount Adapter Assembly Type E-5A	25 Aug 44	R	Do
TO 11-10-12	Handbook of Instructions with Parts Catalog—Type E-12 Gun Mount Adapter	20 Jul 43	R	Do
TO 11-10-14	Handbook of Instructions with Parts Catalog Type C-16 Single Gun Mount Adapter (Bell)	30 Dec 42	R	Do
TO AN11-10-25	Handbook of Instructions with Parts Catalog for the Single Adapter for Cal .50 Machine Guns—Types E-11 and E-13	5 Feb 45	R	War Dept Publication. Supersedes TO 11-10-7
TO AN11-35A-3	Parts Catalog Types K-3 and K-4 Automatic Computing Sight (Sperry)	1 Mar 44	R	War Dept Publication
TO 11-40-19	Handbook of Instructions with Parts Catalog—Tow Target Windlass Motor Types EE-700 and EE-800 Series	30 Mar 43	R	Do
CATAPULT EQUIPMENT				
*OP 1660	Catapults Type P, Mk 6 Mod 2 and Type P Mk 6 Mod 3 with Catapult Gun Mk 10 Mod 0			Joint BuOrd, BuAer publication. When completed will be distributed by BuAer
CHAINS				
OD 4681	16" Rammer Mk 5—Report of Test of 16" Rammer Chains	6 Jan 44	R	
CHARGERS				
OP 865	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1143	Cal .50 Hydraulic Gun Charger AN-Mk 2 and AN-Mk 2 Mod 1; Hydraulic Control Valve AN-Mk 1 and AN-Mk 1 and Mod 1 and Hydraulic Control Valve Part No. 79720	9 Oct 44	D	Supersedes OPs 827 and 828. Now issued by BuAer, NAVAER No. 11-10b-502
OTI GV2-45	Mounting of Electric Gun Charger Mk 3 and Mods on BAM Guns Cal .50 AN-M2 Equipped with Adjustable Trigger Bar Stop, Special Retaining Screw for	16 May 45	R	
OP 1114	Electric Gun Chargers, Mk 3 and Mk 3 Mod 1 with Control Box for Browning Machine Gun Cal .50 M2 (Aircraft)—Description and Instructions for Use	5 Feb 44	R	Now issued by BuAer, NAVAER No. 11-10b-501
*OP 1483	Electric Gun Charges, Mk 3 and Mk 3 Mod 1, with Manual Control		R	Will supersede OP 1114. Will be issued by BuAer
OMI V27-44	Electric Gun Charger Mk 3 and Mk 3 Mod 1—Modification of Roller Chain	10 Nov 44	D	Issued with OP 1114
OTI GV6-44	Substitution of Roller for Ball Bearing in Cylinder End Assembly of Hydraulic Gun Charger AN-Mk 2	25 Aug 44	R	
OTI GV11-44	Bendix Hydraulic Gun Charging Valve—Special Precautions in Use of	20 Dec 44	R	
OTI GV14-43	Instructions for Staking Pin to Secure Spring Guide of Hydraulic Charger for 20-mm AN-M2 Aircraft Gun	17 May 43	R	
TO 11-1-21	20-mm Hydraulic Gun Charger Cylinder Assembly (No. 78003)	12 Feb 42	D	War Dept Publication
CHARGES				
See also	AMMUNITION, MARKING OF ARBORS, DEPTH CHARGE CATAPULT EQUIPMENT			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CHARGES				
See also	FUZES MARKERS MECHANISMS, EXTENDER PISTOLS, DEPTH CHARGE PROJECTORS, DEPTH CHARGE PYROTECHNICS TRACKS			
OP 4.....	Ammunition—Instructions for the Naval Service Afloat	4 May 43	R	Revised. See remarks for OP 4 in Part 1
OP 5.....	Ammunition Ashore—Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1219A....	Ammunition Code Catalog Class A—Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 1219L....	Ammunition Code Catalog Class L—Miscellaneous Charges	1 Oct 44	R	See remarks for OP 1219L in Part 1
OP 1219O....	Ammunition Code Catalog Class O—Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219-O in Part 1
OP 1219Q.....	Ammunition Code Catalog Class 6—Marine Corps and Landing Force Ammunition	15 Jan 46	R	See remarks for OP 1219Q in Part 1
*OP 1647.....	The Cavity Charge and its Application to Demolishing or Entering Explosive Ordnance		C	War Dept Publication
OP 1219K....	Ammunition Code Catalog Class K—Dummy Ammunition Assemblies	1 Oct 44	R	See remarks for OP 1219K in Part 1
SNL P-2 (ORD 11)	Charges, Propelling, Separate Loading 6", 155-mm, 8" and 240-mm for Harbor Defense, Heavy Field, and Railway Artillery			War Dept Publication
OP 1567.....	Firecracker Mk 2 Mod 0 (Preliminary)	22 Jun 45	D	War Dept Publication
SNL R-2 (ORD 11)	Projectiles and Propelling Charges, Separate Loading, for Medium Field Artillery, Including Complete Round Data			War Dept Publication
SNL R-7 (ORD 11)	Land Mines and Fuzes, Demolition Material, and Ammunition for Simulated Artillery and Grenade Fire (Charges 10 lb M2, 14 lb M2A3, 40 lb M3(T3))			DoM
OP 1219L....	Ammunition Code Catalog Class L—Miscellaneous Charges	1 Oct 44	R	See remarks for OP 1219L in Part 1
OP 1137.....	60-mm Mortar for shipboard (Charges, Propellant).....	6 Jan 45	R	
OP 1440.....	4"2 Mortar Assembly Mk 1 Mod 0.....	25 Apr 45	R	
SB9-AMM 7..	Inspection of Propelling Charges and Bulk Powder.....	26 Sep 44	D	War Dept Publication. See remarks for SB 9-AMM 7 in Part 1
SNL R-4 (ORD 11)	Ammunition, Mortar, Including Fuzes, Propelling Charges and other Components			War Dept Publication
TB9-1980-40..	Spotting Charges M5 for 100-pound Practice Bomb M38A2	21 Feb 45	R	Issued with TM9-1980 War Dept Publication
Charges, Bag				
OP 1219I....	Ammunition Code Catalog, Classes 4, 7, 8—Unserviceable Gun Ammunition	8 Aug 45	R	1st rev. See remarks for OP 1219I in Part 1
Charges, Catapult				
OP 1219L....	Ammunition Code Catalog Class L—Miscellaneous Charges	1 Oct 44	R	See remarks for OP 1219L in Part 1
OP 1587.....	Emergency Shipboard Preparation of Catapult Launching Charges	5 Jul 45	R	Supersedes OCL A90-44

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Charges, Cavity				
OP 1203.....	U. S. Navy Cavity Charges.....	26 Jun 44	R	
Charges, Demolition				
See also DEMOLITION				
#OP 1178.....	Demolition Material.....	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E—Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1608.....	Carrying Frame (Demolition Charge) Mk 1 Mod 0....	14 Nov 45	R	
*OP 1471.....	Demolition Charge Mk 2 Mod 2.....		R	
OP 1147.....	Demolition Outfit Mk 119—Description and Instructions for Assembly (Army Designation Reddy Fox or Aqueous Snake)	1 Mar 44	R	With Change 1 dated 11 Apr 44 and Change 2 dated 14 Mar 45
OP 1433.....	Demolition Outfit Mk 127 Mod 0 (Preliminary).....	23 Mar 45	C	
OP 1583.....	Demolition Outfit (UDT) Mk 135 Mod 0.....	31 Jul 45	R	
OP 1582.....	Demolition Outfit (UDT) Mk 133 Mod 0 (Preliminary)	31 Jul 45	R	
Charges, Depth				
OP 35.....	Depth Charge Release Gear Mk 1, Description and Operation		R	2nd rev. Issued with OCLs M15-42 and M5-43
OP 721.....	Depth Charge Release Gear Mk 3—Description and Operation	Feb 1938	R	Issued with OCL M25-43, OTI M11-43
OP 878.....	General Data on Navy, AN-Standard, Army, and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1219D.....	Ammunition Code Catalog, Classes D and U—Depth Charges and Accessories	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1
OP 1330.....	Mine Disposal Handbook (Depth Charges U.S. and Japanese)	1 Nov 44	C	Accountable. Distribution limited to Mine Disposal Personnel
OP 1507.....	Japanese Underwater Ordnance.....	20 Apr 45	R	
OP 1631.....	Ammunition Hazard Classification List.....	21 Sep 45	R	See remarks for OP 1631 in Part 1
OD 4434.....	Depth Charge Equipment for Submarine Chasers (PTCs 1 to 12)	18 Aug 42	R	
OP 747.....	Depth Charges Mk 6, Mk 6 Mod 1, Mk 7, Mk 7 Mod 1, Operating and Maintenance Instructions	22 Dec 43	R	1st rev. See remarks for OP 747 in Part 1
OP 662A.....	Depth Charge Mk 8, Description and Instructions for Use	Oct 1943	R	Formerly Registered Confidential
OP 1425.....	Use of Depth Charge Test Sets Mk 34 Mods 0 and 1 with Depth Charge Mk 8	12 Feb 45	R	Supersedes OCL M40-43
OHI M2-44...	Installation of Depth Charge Pistol Mk 7 Mod 1 in Depth Charge Mk 8	12 May 44	D	
OP 866.....	Depth Charge Mk 9 and Mods—Description and Operation	12 Feb 44	R	1st rev. With Change 1 dated 11 Aug 44 and OCL M5-43
OP 908.....	Mk 10 Depth Charge Description and Instructions for Use	Aug 1943	R	Covers: Contents, Parts, Pistols Mk 8, 9, 10 Installing Pistols and Stowage Boxes
OHI M1-44...	Mines and Depth Charge Mk 10 Mod 3 Anchor, Coupling Adapter for	20 Jan 44	D	
*OP 1577.....	Depth Charge Mk 14 Mod 0 and Depth Charge Test Set Mk 45, Instructions (Tentative)		R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Charges, Projector				
OP 1219J.....	Ammunition Code Catalog Class J—Projector Charge and Rocket Ammunition Assemblies	13 Jul 45	R	1st rev. See remarks for OP 1219J in Part 1
OP 1219L.....	Ammunition Code Catalog Class L—Miscellaneous Charges	1 Oct 45	R	See remarks for OP 1219L in Part 1
OP 1219N.....	Ammunition Code Catalog Class N—Fleet Return Projector Charge and Rocket Ammunition	13 Jul 45	R	1st rev. See remarks for OP 1219N in Part 1
OP 1001.....	Projectors Mk 10, Mk 10 Mod 1 and Mk 11 and Ammunition. Description, and Instructions for use (Charges, Projector 772)	25 Jul 44	R	1st rev. With Change 1 dated 24 Oct 44. Supersedes OCLs A113-43, G12-44
NavOrd Chart A20-44	772 Projector Charge			
Charges, Torpedo Impulse				
OP 1219L.....	Ammunition Code Catalog Class L—Miscellaneous Charges	1 Oct 44	R	See remarks for OP 1219L in Part 1
OD 2705.....	Results in Development of Torpedo Impulse Charges, Project G—180 Using 21" AW Torpedo Tube Mk 11 with Sodium Nitrate Powder Furnished by Accepted Bidders for Firing Tests	20 Nov 34	R	
Charges, Y Gun				
OP 1219L.....	Ammunition Code Catalog Class L—Miscellaneous Charges	1 Oct 44	R	See remarks for OP 1219L in Part 1
CHARTS				
See also EQUIPMENT BY SUBJECT				
Publications				
OP 4.....	Ammunition—Instructions for the Naval Service Afloat (Color Charts 20-mm and 40-mm Projectiles)	4 May 43	R	Revised. See remarks for OP 4 in Part 1
OP 1330.....	Mine Disposal Handbook	1 Nov 44	C	Accountable. Distribution limited to Mine Disposal Personnel
OSSC Group S	Ordnance Storage and Shipment Chart	1 Nov 42	D	War Dept Publication
CHEMICALS				
OP 5.....	Ammunition Ashore Vol I	10 Jun 44	R	1st rev. See remarks in Part 1 for OP 5
OP 1219C.....	Ammunition Code Catalog Class C—Chemicals	1 Oct 44	R	See remarks for OP 1219C in Part 1
OP 1219O.....	Ammunition Code Catalog Class O—Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
TM9-1900.....	Ammunition General	18 Jun 45	R	War Dept Publication. See remarks for TM9-1900 in Part 1
TB3-250-1S117	Theatre of Operations Surveillance Procedure for Lewis Gun in One-ton Containers	19 Apr 45	R	War Dept Publication. See remarks for TB3-250-1S11 in Part 1
TM3-250.....	Storage and Shipment of Dangerous Chemicals	5 Dec 40	D	War Dept Publication
TM3-255.....	Chemical Handling and Loading Equipment	30 Oct 43	R	Do Issued with TB3-255-3

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CHEMICAL WARFARE				
See also	GAS			
	MUNITIONS, CHEMICAL			
	PYROTECHNICS			
OP 1042	Ships Chemical Munitions, Description and Instructions for Use	25 Sep 43	R	See remarks for OP 1042 in Part 1
OP 1125	Aviation Ordnance-Chemical Spraying Equipment	29 Sep 44	R	See remarks for OP 1125 in Part 1
FM23-30	Hand and Rifle Grenades, Rocket, AT, HE, 2.36-inch	14 Feb 44	R	War Dept Publication
SB3-1	Logistical Data, Mortar Company, Chemical Mortar Battalion	21 Feb 45	D	War Dept Publication
SB3-22	List of Standardized Chemical Warfare Major Items	14 Feb 45	D	War Dept Publication, Supersedes ASF Catalog CW 5 dated 9 Mar 44
TB3-300-1	HC Smoke Pot M5	27 May 44	R	Do. Issued with TM3-300
TM3-215	Military Chemistry and Chemical Agents	21 Apr 42		War Dept Publication
CIRCUITS				
OD 1861	Gun Firing Circuits—Instructions for Installing Firing Cables and Cable Terminals on Guns	13 Sep 29	D	
OD 4582	Check list for Inspection and Testing of Fire Control Circuits and Associated Equipment on DD 453 Class Destroyers	9 Jul 43	R	
OP 1289	40-mm Mount Mk 3 Mod 4; 40-mm Train and Elevation Power Drives Mk 10 Mods 0, 1, and 2 (Firing Circuit Mk 5 Mods 0, 1, and 2)	28 Aug 45	R	
OD 4537	Report of 2000 Ft-lb Shock Test of Firing Solenoid Mk 25—For use in Firing Circuit Mk 11 on 3" Gun Mounts Mk 24	18 Feb 43	R	
OD 1626	Firing and Lighting Circuits Source of Current for Local Firing, Comparative Tests Made with 6, 10 and 12 Volt Storage Batteries	31 Jan 28	D	
OP 811	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (Firing and Lighting Circuit Mk 5 Mods 5 to 7, 11 to 13, 16 to 27 and Mk 10)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OP 834	8" Triple Gun Turrets, USS BALTIMORE Class, CAs 68-75, 122-138 (Preliminary) (Firing and Lighting Circuit Mk 7)	Apr 1943	R	See remarks for OP 834 in Part 1
OP 833	6"/47 Cal Triple Turrets—CL 55 Class (Firing and Lighting Circuit Mk 7 Mod 1)	Jun 1942	R	See remarks for OP 833 in Part 1
OP 984	3" Gun Mounts, .50 Cal DP Pedestal Type, Mk 24 and Mk 24 Mod 1 (Firing and Lighting Circuit Mks 11 and 11 Mod 1)	27 Jan 44	R	See remarks for OP 984 in Part 1
OP 1013	5" Gun Mounts for Merchantmen and Auxiliaries—38 Cal DP, Single, Open Base Ring Type Mk 30 and Mods 20, 38, 39, 40, 45, 46, 48, and 49 (Firing and Lighting Circuit Mk 24 Mods 4, 5, 8, and 9)	11 Apr 44	R	See remarks for OP 1013 in Part 1
OP 835	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary) (Firing and Lighting Circuit Mk 2)	25 Oct 44	R	
CLAMPS				
OD 4446	General Instructions Relating to the Assembly and Testing of Four-way Clamps	24 Jul 42	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CLIPS				
OP 12190	Ammunition Code Catalog Class O Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R 1st rev.	See remarks for OP 12190 in Part 1
OP 1219P	Ammunition Code Catalog Class 5—Small Arms, Machine Gun and Aircraft Gun Ammunition	25 Apr 45	R 1st rev.	See remarks for OP 1219P in Part 1
OP 1219A	Ammunition Code Catalog Class A—Bombs and Accessories	9 Jul 45	R 1st rev.	See remarks for OP 1219A in Part 1
OP 1219M	Ammunition Code Catalog Class M—Projector Charge and Rocket Ammunition Components	6 Dec 45	R 2nd rev.	See remarks for OP 1219M in Part 1
CLOCKS				
OTI M11-44 ..	Auxiliary, Test to be Run on Delay Arming Clocks Prior to Installation in Mines	26 Sep 44	R	Issued with OPs 901, 902, 905, and 954
OD 672	Time of Flight Clock Mk 1 Mod 2—Description	Undated	D	
OD 3156	Instruction Book for Time of Flight Clock Mk 2	1 Dec 43	R	
*OP 1644	Time of Flight Clock Mk 2—Instruction Book		R	Will supersede OD 3156
CLUSTERS, BOMB				
OP 1219A	Ammunition Code Catalog Class A—Bombs and Accessories	9 Jul 45	R 1st rev.	See remarks for OP 1219A in Part 1
OP 1531	Complete Rounds for Aircraft Bombs	18 May 45	D	See remarks for OP 1531 in Part 1
TB9-1980-45 ..	Conversion Kit for Converting 20 lb Fragmentation Bombs AN-M41 to Parachute Type Bomb for Single Suspension or for Use in Cluster AN-M41A1	26 Mar 45	R	War Dept Publication. See remarks for TB9-1980-45 in Part 1
TB9-1980-47 ..	Fragmentation Bomb Cluster, M26 (T4E4, Modified) ..	5 Apr 45	R	War Dept Publication. See remarks for TB9-1980-47 in Part 1
BTF L.A.B. & H-B-2	Bombing Tables (Fluorescent)		R	War Dept Publication. See remarks for BTF L.A.B. & H-B-2 in Part 1
TB9-1980-50 ..	100 lb Fragmentation Bomb Cluster M28A2 and 500 lb Fragmentation Bomb Cluster M29A1	7 May 45	R	War Dept Publication. See remarks for TB9-1980-50 in Part 1
TB9-1980-38 ..	100 lb Fragmentation Bomb Cluster M28A1	19 Feb 45	R	War Dept Publication. Issued with TM9-1980
CLUTCHES				
OD 2359	Sight Setters Clutch Interlock System for 16" Sight Mk 4 Mods 2 and 3—for BBs 61-66 Inclusive—Installation Instructions	12 Nov 42	R Rev A	
COATING				
OP 1485	Instructions for Applications of Strippable Coating (Spray Type) (OS 3602)	2 Apr 45	D	With Change 1 dated 28 Jan 46
COILS				
See also	DEGAUSSING			
OP 1219D	Ammunition Code Catalog Classes D and U—Depth Charge and Accessories	26 Jun 45	R 1st rev.	See remarks for OP 1219D in Part 1
COLLIMATORS				
*OP 1417	Collimators (For Optical Instruments)		R	
OD 2953	Collimators (For Optical Instruments)—Description and Operation	5 May 43	D	

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COLLIMATORS				
OP 3411.....	Gun Director Collimator Mk 4 (Shop Use)—For Gun	9 Mar 39	R	
OP 131.....	Director Mk 37 and Modifications—Direction and Operation			
OD 762.....	Telescope Collimator Mk 2 and Mk 2 Mods 1 and 2—	25 Mar 27	D	Rev. A
OP 582.....	Antiaircraft Gun Mount Telescopes	13 Oct 44	R	1st rev. Supersedes ODs 4610 and 4611
COMPENSATORS				
*OP 1657.....	Compensator Mk 2 Mod 0, Information for Installation of 5"/54 Single Mounts		R	
COMPOUNDS				
OHI F2-45...	Anti-Fog Compound 1-Y, Request for Test and Report	16 May 45	R	
#OP 1178.....	Demolition Material (Cap Sealing Compound)	8 Dec 44	R	
COMPUTATIONS				
See also	RANGES			
	SCALES			
	TABLES			
OP 1235.....	Manual for the Computation of Effective Rocket Temperatures in Rockets Using 3"25 Motors	14 Aug 44	R	
COMPUTERS				
OP 1248.....	Instruction Book for Target Course Indicator Mk 1....	19 Sep 44	R	
OD 3133.....	Instruction Book for Computer Mk 1 and Change of Range Receiver Mk 1 (DDs 409-428)	12 Jan 40	R	Rev. A. Issued with OTI F1-43. Chapter 3 is superseded by OD 4185
*OP 1064.....	Computer Mk 1 and Mods.....			
*OP 1064A.....	Computer Mk 1 and Mods.....			
*OP 1064B.....	Computer Mk 1 and Mods, Disassembly, Repairs, Reassembly, Installation and Lubrication.....		R	
OD 4233.....	Instructions for Changing Target Angle Follow-up Differential Shaft on Computer Mk 1 and Mods (Serial Nos 1-100)	22 Oct 42	R	
OD 4239.....	Instructions for Installing Parts to Convert Target Angle Follow-up to Target Course Follow-up on Computer Mk 1 and Mods	19 Feb 43	R	With Addendum 1 and OCL F9-43
OD 5106.....	Computer Mk 1 and Modifications—Instructions for Altering Limits from 2,600 and 2,450 fs to 2,600 and 2,350 fs (Preliminary)	Undated	R	
OD 5157.....	Computer Mk 1 and Mods Adjustment Procedure.....	8 Aug 44	R	Used with OD 4174
OTI F1-43.....	Computer Mk 1 and Mods Disarrangement of Elevation Gear Trains	23 Mar 43	R	
OTI F26-44...	Computer Mk 1 and Mods Serial Nos 1-475 Checking of Clearance Between Cover No 4 and Limit Stop L21	24 Nov 44	R	
OD 4185.....	Description of Rate Control System—Computer Mk 1 Mods 0, 1, 2, 3, 4, 5, 6, 9 and 10	14 Oct 42	R	Rev B. Supersedes Chap III of OD 3133, 3137, 3139, 3180, 3182, 3183
OD 5117.....	Computer Mk 1 Mods 0, 1, 2 and 9, Alteration to provide for Mounting of and Operating with Target Angle Control Switch (Preliminary)	16 Dec 43	R	
OD 2344.....	Theory and Lectures for Computer Mk 1 Mod 1.....	8 Jun 42	R	Rev. A

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
COMPUTERS				
OD 3137.....	Instruction Book for Computer Mk 1 Mod 1 and Change of Range Receiver Mk 1 (BBs 55-57, CLs 51-54)	22 Apr 40	R	Chapter 3 superseded by OD 4185. Issued with OTI FI-43
OD 3140.....	Nomenclature for Computer Mk 1 Mods 1 and 2	10 Jul 39	R	Rev B
OD 4178.....	Computer Mk 1 Mods 1 to 6—Instructions for Installation of Modified Ship Course Receiver Unit and Bearing Filter	14 Nov 41	R	For serial numbers less than 100
OD 2347.....	Theory and Lectures for Computer Mk 1 Mod 2	10 Mar 43	R	Rev B
OD 3139.....	Instruction Book for Computer Mk 1 Mod 2 and Change of Range Receiver Mk 1	9 Oct 40	R	Chapter 3 superseded by OD 4185. Issued with OTI FI-43
OD 4203.....	Instruction Book for Computer Mk 1 Mod 2 (Serial Numbers Higher than 100)—Change of Range Receiver Mk 1 (Preliminary)	6 Dec 43	R	Rev A. Issued with OTI FI-43
OD 4186.....	Description of Operation, Rate Control System—Computers Mk 1 Mods 2, 3, 4 and 6 (Serial Nos 101 and Later)	7 Feb 42	R	
OD 5116.....	Computer Mk 1 Mods 3 and 10, Alteration to Provide for Mounting of and Operating with Target Course Indicator Mk 1 (Preliminary)	2 May 44	R	Rev A
OD 4188.....	Computer Mk 1 Mods 3, 4 or 7—Table of Corrections for 6"/47 Cal Guns Firing 105 lb HC Projectile	15 Dec 42	R	
OD 5102.....	Computer Mk 1 Mods 3, 4, 7 or 11—Table of Corrections for Control of 6"/47 Cal Guns Firing 105 lb HC Projectiles (Preliminary)	6 Aug 43	R	
OD 5119.....	Computer Mk 1 Mods 3, 4, 7 or 11 Tables of Corrections for Control of 16"/50 Cal Guns Firing 1900 lb HC Projectiles Using Service Charges for 2700 lb AP Projectiles	6 Jan 44	R	
OD 4209.....	Computer Mk 1 Mods 3, 4, 7, 8, 11 or 12, Use for Main Battery Control. Includes Operating Instructions and Directions for Computing Tables of Corrections	9 Sep 43	R	Rev A. Issued with OTI FI-44, Change 1 dated 11 Nov 43
OD 5103.....	Computer Mk 1 Mods 3, 4, 7, 8, 11 or 12—Tables of Corrections for Control of 8"/55 Cal Guns Firing 260 lb HC Projectiles (Preliminary)	28 Sep 44	R	Rev A
OD 3180.....	Instruction Book for Computer Mk 1 Mods 3 and 10 Change of Range Receiver Mk 1 (For BBs 58-60, CV 3)	6 Feb 43	R	Rev A. Chapter 3 superseded by OD 4185. For ships receiving Computers Mk 1 Mod 7, Chapters 1-6 of OD 4174. Supersede Chapters 1-3 of OD 3180. Issued with OTI FI-43
OD 3181.....	Instruction Book for Computer Mk 1 Mod 4 (Serial Numbers Lower than 101) Star Shell Computer Mk 1 Change of Range Receiver Mk 1	10 Mar 42	R	Chapter 3 superseded by OD 4185. Applies to CLs 55 and 56 only. Issued with OTI FI-43
OD 3184.....	Instruction Book for Computer Mk 1 Mod 4 (Serial Numbers Higher than 100) Star Shell Computer Mk 1 Change of Range Receiver Mk 1	10 Jan 45	R	Rev A
OD 5146.....	Computer Mk 1 Mods 4, 5, 6, 7 (Instrument Serial Numbers below 519) Instructions for the Removal of Solution Indicator, Generators and Connecting Material (Preliminary)	18 Aug 44	R	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
COMPUTERS				
OD 5108.....	Computers Mk 1 Mods 4, 6, and 7, Serial Numbers under 420 Alteration to Provide for Mounting and Operating with Target Course Indicator Mk 1	30 Oct 43	R	
OD 5105.....	Computer Mk 1 Mod 7 Alteration of Gearing to Provide for Receiving Ship Speed at 25 Knots per Revolution	9 Sep 43	D	
OD 3183.....	Instruction Book for Computer Mk 1 Mod 6 (Serial Numbers Lower than 101) Star Shell Computer Mk 1 Change of Range Receiver Mk 1	10 Mar 42	R	Chapter 3 superseded by OD 4185. Issued with OTI FI-43
OD 3185.....	Instruction Book for Computer Mk 1 Mod 6 (Serial Numbers Higher than 100) Star Shell Computer Mk 1 Change of Range Receiver Mk 1 (Preliminary)	3 Sep 43	R	
OD 4705.....	Test of Computer Mk 1 Mod 7 with Star Shell Computer Mk 1 Under High Ambient Temperature	26 Apr 44	R	
OD 5158.....	Computer Mk 1 Mod 7 Instructions for Converting to Mod 13 (Preliminary)	21 Jun 44	R	Distributed with Ordnance Sketch No 104476
OD 4174.....	Instruction Book for Computer Mk 1 Mods 7-13, Star Shell Computer Mk 1, Change of Range Receiver Mk 1 (Preliminary)	20 Sep 44	R	Rev C. See remarks for OD 4174 in Part 1
*OP 1064D...	Computers Mk 1 Mods 8 and 12.....			
*OP 1064E...	Computers Mk 1 Mods 14 and 16.....			
*OP 1064F...	Computers Mk 1 Mod 15.....			
OD 5116.....	Computer Mk 1 Mods 3 and 10, Alteration to Provide for Mounting of and Operating with Target Course Indicator Mk 1 (Preliminary)	2 May 44	R	Rev A
*OD 5129.....	Computer Mk 1B Mods 0, 1, Star Shell Computer Mk 2 Change of Range Receiver Mk 1			
OD 2345.....	Theory and Lectures for Computers Mk 3 Mods 0 and 1 and Trunnion Tilt Corrector Mk 5	18 Feb 42	R	
OD 4246.....	Computers Mk 3 Mods 0, 1, 2, 3 and 4—Alteration of Dial Mask to Permit Removal of Clock	9 Jan 43	D	
OP 812.....	Gun Director Mk 40 BBs 55-66 (Preliminary) Description (Computer Mk 3 and 3 Mod 1)	Apr 1943	R	1st rev
OD 3141.....	Main Battery BBs 55 to 62 Inclusive—Rangekeeper Mk 8 Mod 9 Computer Mk 3 and Mk 3 Mod 1 Trunnion Tilt Corrector Mk 5	Undated	R	
OD 3175.....	Instruction Book for Computer Mk 3 Mod 0 and Trunnion Tilt Corrector Mk 5 and Computer Mk 3 and Mod 1	12 Mar 42	R	Rev A
OD 4182.....	Computer Mk 3 Mod 2—Instruction Book.....	24 Sep 43	R	Rev A
OD 4183.....	Instruction Book for Computer Mk 3 Mod 3 and Computer Mk 3 Mod 4	4 Nov 42	R	Rev A. With Change 1 dated 11 Oct 44
OD 4257.....	Instruction Book for Computer Mk 3 Mod 5.....	24 Mar 44	R	
OD 5120.....	Computer Mk 3 Mod 6—Instructions for Converting from Computer Mk 3 Mod 3 for Use with 6" 105 lb Projectile (Preliminary)	12 May 44	R	Rev A
OP 1290.....	Instruction Book for Computer Mk 3 Mod 6.....	9 Oct 44	R	
OD 5121.....	Computer Mk 3 Mod 7 Instructions for Converting from Computer Mk 3 Mod 4 for Use with 8" 260 lb HC Projectile (Preliminary)	12 May 44	R	Rev A
*OP 1290A...	Instruction Book for Computer Mk 3 Mod 8 and Trunnion Tilt Corrector Mk 5 Mod 1 (Preliminary)		R	
*OP 1290C...	Computer Mk 3 Mod 9.....		R	
*OP 1290B...	Computer Mk 3 Mod 10.....			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
COMPUTERS				
*OP 1059.....	Computer Mk 6 and Mods.....			
OD 4194.....	Instructions for Installing Sight Angle Converter Tapes for Computer Mk 6 and Mods (<i>Preliminary</i>)	13 Jul 43	R Rev A	
OD 4195.....	Instructions for Changing Initial Velocity for Computer Mk 6 and Mods	1 May 42	R	
OD 5126.....	Computer Mk 6 Mod 0—Instructions for Adapting for Use with 8" 260 lb HC Projectile (<i>Preliminary</i>)	29 Feb 44	R	
OD 4179.....	Design Specification for Computer Mk 6 Mods 0, 1, 4, 5, 6, 8, 9, 10, 14	18 Jul 42	R	
OD 4210.....	Instruction Book for Computer Mk 6 Mods 0, 1, 4, 5, 6, 8, 9, 10, 14 (<i>Preliminary</i>)	25 Feb 43	R	
OD 5130.....	Computer Mk 6 Mod 1, Instructions for Adapting for Use with 6" 105 lb HC Projectile (<i>Preliminary</i>)	19 Feb 44	R	
OD 4181.....	Design Specification for Computer Mk 6 Mods 2, 7, 11-13	18 Jul 42	R	
OD 4211.....	Instruction Book for Computer Mk 6 Mods 2, 7, 11, 12, 13	10 Apr 44	R Rev A	
OD 4180.....	Design Specification for Computer Mk 6 Mod 3.....	18 Jul 42	R	
OD 5109.....	Instruction Book for Computer Mk 6 Mod 3 (<i>Preliminary</i>)	12 May 44	R	
*OD 4508.....	<i>Preliminary</i> Instruction Book for Operation and Maintenance of Barrage AA Computer Mk 6 Mod 5 for 5"/25 Cal Guns			
OD 5139.....	Instruction Book for Computer Mk 6 Mods 16 and 17 (<i>Preliminary</i>)	29 Apr 44	R	
*OP 1489.....	Instruction Book for Computer Mk 6 Mod 19.....			
*OD 3660.....	Mechanical AA Computer. This OD is Preceded by ODs 4507, 4508, 4509A			
OD 4413.....	Computer Mk 7 and Mods—Description and Operation..	6 Jun 42	R	
OD 4509.....	<i>Preliminary</i> Instructions for Operation and Maintenance of Anti-Aircraft Barrage Computer Mk 7 Mods 6, 7 and 8 for 5"/38 Cal Guns	1943	R	
OP 1081.....	Computers Mk 12 Mod 1 Operators Manual.....	30 Sep 43	R	With Change 1 dated 8 Apr 44, Change 2 dated 25 Oct 44
OP 1097.....	Gun Director Mk 52 Mods 2 and 3—Description, Operation and Maintenance (<i>Computer Mk 13 Mods 2 and 3</i>)	Oct 1944	R	1st rev. See remarks for OP 1097 in Part 1
OP 1291.....	Computer Mk 14 Mod 0 (AN/APA-30).....	23 Jan 45	C	
OP 1323B....	Gun Fire Control System Mk 57—Installation, Maintenance and Accuracy Tests (<i>Preliminary</i>) (<i>Computer Mk 16</i>)	31 Oct 45	R	See remarks for OP 1323B in Part 1
OP 1323C....	Gun Fire Control System Mk 47—Schematic Diagrams (<i>Preliminary</i>) (<i>Computer Mk 16</i>)	31 Aug 45	R	
*NavOrd Chart F6-45	Schematic of Computer Mk 16.....			
OP 1323A....	Gun Fire Control System Mk 57—Maintenance (Less Radar Equipment) (<i>Computer Mk 16 Mods 0 and 1</i>)	25 Jul 45	R	See remarks for OP 1323A in Part 1
*OP 1397.....	Instruction Book for Computer Mk 16 Mod 1 (<i>Preliminary</i>)			
*OP 1546.....	Overhaul Manual for Computer Mk 17 and Mods.....		R	Will supersede OP 1650
*OP 1328A...	Computer Mk 22 Mod 0.....			
*OP 1435.....	Computer Mk 23 Mod 0.....			

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COMPUTERS				
OP 1478.....	Rocket Sight (Aircraft) Mk 1 Mod 0 (Computer Mk 25 Mods 0 and 1)	10 Jul 45	C	
*OP 1557.....	Computer Mk 34 Mod 0.....			
OD 4786.....	Gun Director Mk 33 Mod 5 with Shield Mk 10—Test of Deck Tilt Computer	30 Apr 45	R	
Computers, Star Shell				
OD 3181.....	Instruction Book for Computer Mk 1 Mod 4 (Serial Numbers lower than 101) Star Shell Computer Mk 1 Change of Range Receiver Mk 1	10 Mar 42	R	Chapter 3 superseded by OD 4185. Issued with OTI F1-43
OD 3183.....	Instruction Book for Computer Mk 1 Mod 6 (Serial Numbers Lower Than 101) Star Shell Computer Mk 1 Change of Range Receiver Mk 1	10 Oct 42	R	Chapter 3 superseded by OD 4185. Issued with OTI F1-43
OD 3184.....	Instruction Book for Computer Mk 1 Mod 4 (Serial Numbers Higher Than 100)—Star Shell Computer Mk 1—Change of Range Receiver Mk 1	10 Jan 45	R	Rev A
OD 3185.....	Instruction Book for Computer Mk 1 Mod 6 (Serial Numbers Higher Than 100) Star Shell Computer Mk 1 Change of Range Receiver Mk 1 (Preliminary)	3 Sep 43	R	
OD 4174.....	Instruction Book for Computer Mk 1 Mods 7-13, Star Shell Computer Mk 1, Change of Range Receiver Mk 1 (Preliminary)	20 Sep 44	R	Rev C. See remarks for OD 4174 in Part 1
OD 4705.....	Test for Computer Mk 1 Mod 7 with Star Shell Computer Mk 1 Under High Ambient Temperature	28 Apr 44	R	
*OP 1064C...	Starshell Computers Mk 1 Mods 0, 1, 2, and 3.....			Will supersede OP 1590
*OD 5129.....	Computer Mk 1B Mods 0, 1, Star Shell Computer Mk 2, Change of Range Receiver Mk 1			
Computers, Torpedo Data				
OD 3090.....	Torpedo Data Computer Mk 1 and Mk 1 Mod 1 Part 1	8 Jan 40	R	1st rev.
OD 2657.....	Torpedo Data Computer Mk 1 and Mk 1 Mods 1 to 5 (Part II)	14 Mar 40	R	Rev B, Part 1, see OD 3082
#OD 2604.....	Torpedo Data Computer Mk 1 Mods 2 and 3 Part I....	14 Nov 38	R	
OD 3082.....	Torpedo Data Computer Mk 1 Mods 4 and 5 (Part I) (For SSs 182-197)	1 Mar 39	R	For Part II see OD 2657
OD 3146.....	Instruction Book for Torpedo Data Computer Mk 2....	30 Jun 41	R	
OP 1056.....	Torpedo Data Computer Mk 3 Mods 5 to 12.....	Jun 1944	R	Issued with OCL F10-44. Supersedes OD 2561
*OP 1442.....	Torpedo Data Computer Mk 4 Mods 1-12.....			
*OP 1676.....	Torpedo Data Computer—Remote Indicating Equipment (Preliminary)		R	
Computer, Torpedo Speed				
OP 865.....	Aviation Ordnance Equipment Catalog (Computer Mk 1)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
CONNECTORS				
OP 1219M....	Ammunition Code Catalog Class M—Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
CONTAINERS				
OP 865.....	Aviation Ordnance Equipment Catalog (Case, Link, Bomb, Gun, Target and Signal Cartridge Containers)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1

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Containers, Ammunition				
OP 1219O	Ammunition Code Catalog Class 0, Gun Ammunition Components and Miscellaneous Items	19 Jul 44	R	1st rev. See remarks for OP 1219O in Part 1
OP 1219Q	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OD 515	Index of Drawings of Ammunition Details with Latest Revisions	12 May 39	R	
#OP 4	Ammunition—Instructions for the Naval Service Afloat	4 May 43	R	Revised. See remarks for OP 4 in Part 1
OP 150	Ammunition Ashore Vol 1	10 Jun 44	R	1st rev. See remarks for OP 150 in Part 1
#OP 975	Aircraft Vesicant Munitions	Mar 1943	R	Now issued by BuAer, NAVAER No. 24-10-501
OP 1137	60-mm Mortar for Shipboard	6 Jan 45	R	
#OD 2790	Weights and Dimensions of Ammunition Components and Their Containers	Dec 1943	R	Revised
Containers, Bomb				
OP 1219A	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OD 5254	Bomb Container—Mark 3 and Mod 1	8 Sep 43	R	
*OP 1588	Bomb Container Mk 4 Mod 0		R	
Containers, Charges				
OP 1219E	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1203	U. S. Navy Cavity Charges	26 Jun 44	R	
OHI A8-45	Cavity Charge Container Mk 4 Mod 1	17 Aug 45	R	
OP 908	Mk 10 Depth Charge—Description and Instructions for Use	Aug 1943	R	
OP 1219D	Ammunition Code Catalog Classes D and U—Depth Charges and Accessories	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1
Containers, Demolition				
#OP 1178	Demolition Material	8 Dec 44	R	
OP 1219E	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1583	Demolition Outfit (UDT) Mk 135 Mod 0	31 Jul 45	R	
Containers, D C Pistol				
OP 866	Depth Charge Mk 9 and Modification Description and Instructions for Use	12 Feb 44	R	1st rev. Issued with OCL M5-43, Change 1 dated 11 Aug 44
Containers, Gun				
AN 11-1-74	Handbook of Instructions with Parts Catalog—50 Cal Gun Container Mk 2	1 Jan 45	R	War Dept Publication. See remarks for AN 11-1-74 in Part 1
Containers, Pyrotechnic				
OP 1219B	Ammunition Code Catalog Class B, Pyrotechnics	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OHI V5-44	Aircraft Flare Container Mk 1 Mod 0	2 Jun 44	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Containers, Rocket and Projector				
OP 1157.....	Rocket Ammunition, 3"5 and 5"0 Aircraft Rockets (3"25 Motor)—Description and Instructions for Use	23 Mar 45	R	1st rev. See remarks for OP 1157 in Part 1
OP 1158.....	Handling of Forward-Firing Rocket Equipment Aboard <i>Kaiser Class Carriers (Containers, Rocket)</i>	16 Mar 44	R	With Change 1 dated 30 Jun 44, Change 2 dated 8 Sep 44
OP 1219M....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1187.....	3"25 Subcaliber Aircraft Rockets, Description and Instructions for Use	10 Feb 45	R	
OP 1260.....	Rocket Ammunition—5"0 Rocket (5"0 Motor) Spin Stabilized (<i>Preliminary</i>)	6 Feb 45	R	See remarks for OP 1260 in Part 1
OP 1443.....	Grapnel Rocket Mk 1 Mod 0 Used with Rocket Launcher Mk 26 Mod 0 (<i>Preliminary</i>)	17 Jul 45	C	
Containers, Target				
OP 1141.....	Aerial Targets and Associated Equipment Description and Instruction for Use	20 Nov 44	R	See remarks in Part 1 for OP 1141
OHI V4-45...	Tow Target Container Mk 1 Mod 1 and Mk 1 Mod 2..	16 May 45	D	
CONTROL PANELS, See PANELS				
CONTROLS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Bomb Arming, Electric Trigger, and Unit Rudder Controls</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OD 4390.....	Theory of an Electronic—Hydraulic Regulator for Ordnance Equipment—Mathematical Discussion	17 Apr 42	R	
*OD 4763.....	Type Approval Tests of 40-mm Single Mounts Mk 3 Mod 3 with Power Drives and Control Furnished by WL Maxson Corp, Contractor Both with Heavy and Light Power Drive Control			
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operation and Maintenance	1 Aug 44	R	See remarks for OP 1062 in Part 1. Supersedes OD 3901
OD 2346.....	Instructions for Adjustment and Testing Amplidyne Train Control System for Gun Director Mk 38	8 May 42	R	
OD 2568.....	Antenna Control Equipment (Elevation Control) Radar Antenna Mount Mk 7 and Associated Control Units	25 Jun 42	R	
OD 2851.....	Report of Tests and Inspection of Gun Director Mk 38 Automatic Control Equipment	7 Jun 39	R	
OD 3219.....	Description of Power Motor, Director Shield Mk 5—Automatic Train Control, CLs 40 to 43 and 46 to 48	21 Aug 41	D	2nd rev.
OD 3571.....	Report of Tests of Automatic Control 5"/38 Caliber Twin Mount Mk 28	18 Oct 43	R	Rev B
OD 2775.....	Instructions for Assembling and Using Testing Equipment—Tests of Automatic Control Apparatus—6"/47 Cal Triple Mounts and 5"/38 Cal Twin Mounts. CLs 40-43, 46-48; DDs 356-363, 381 and 383	10 Feb 37	R	
OD 3317.....	6"/47 Cal Triple Gun Mounts—Automatic Control Equipment for Training Gear—(<i>Preliminary</i>) Report of Tests	1 Dec 36	C	
*OP 1194.....	Electric Control of Hydraulic Equipment for 8" Training Gear Mk 19 and Mk 19 Mod 1, Mk 20 and Mk 20 Mod 1, Mk 21, Mk 23 and Mk 23 Mod 1 and 8" Elevating Gear Mk 20, Mk 21, Mk 22 and Mk 24			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CONTROLS				
#OD 2562.....	Automatic Controls for Electric Hydraulic Equipment for 14" Training Gear Mk 1 and 14" Elevating Gear Mk 7 and Mk 7 Mods 1 and 2, 16" Training Gear Mk 3 and 16" Elevating Gear Mk 6 and Mk 6 Mod 1 (Train and Elevation Receiver Regulators)	6 Aug 43	R	
OD 3210.....	Description of Power Motor Automatic Director Training Control (CA45)	6 Jan 41	R	5th rev.
OP 966.....	14" Elevating Gear 14" Training Gear and Receiver-Regulator Controls USS TENNESSEE and CALIFORNIA	May 1943	R	Supersedes OP 310
OD 4599.....	Type AN-A-1 and AN-B-1 Control, Bomb Arming (Selective Fuzing Box)—Operation and Service Instructions	23 Apr 43	R	
OP 1084.....	Controls, Bomb Arming, Type A-1, B-1, AN-A-2, and AN-B-2	30 Sep 43	D	Now issued by BuAer.
TO 11-5-29...	Handbook of Instructions Bomb Release Interval Control—Types A-4, B-2, B-2A, and B-3	20 Dec 42	R	NAVAER No. 11-5-517 War Dept Publication
*OP 1624.....	Contour Control for 5"/38 Cal Mount Mk 24 Mod 11 with Training and Elevating Gear Mk 12 Mods 1 and 2, 5"/38 Cal Mount Mk 30 All Mods with Training and Elevating Gear Mk 6 and Mods. Description, Operation, and Maintenance Instructions			
OP 1438.....	20-mm Cyclic Rate Control Mk 1 Mod 0, Description and Instructions for Use, Including Parts Catalog	25 May 45	D	
OP 1211.....	Cyclic Rate Control Mk 2 Mod 1 for use on 20-mm AA Gun, Instruction Book (Preliminary)	15 Nov 44	D	
OD 2666.....	Director Train Control (Power Drive Equipment) for Gun Director Mk 34 Mods 6 and 7	19 Jul 39	R	Rev A
OP 1400.....	Electric Trigger Controls (Caliber .30 and Caliber .50) Special Precautions Regarding Adjustment (Preliminary)	27 Dec 44	R	
OTI V13-43...	Electric Trigger Controls Mk 5 and Mk 5 Mod 1 for Cal .30 and .50 BAA Guns	15 Apr 43	D	
OMI V2-43...	Electric Trigger Control Mk 5 and Mk 5 Mod 1 of Early Manufacture, Removal of Adjusting Cap Stop	23 Nov 43	R	
OD 4451.....	Report of Tests of Automatic Control of Cold Temperature and Accelerated Life on 6"/47 Cal Elevating Controls	21 Dec 42	R	
OD 4699.....	Test of Automatic Elevating Control with a 16"/45 Gun and Associated Elevating Equipment, Duplicating Shipboard Installations with Waterbury Transmission	27 Mar 45	C	
OD 4709.....	Test of Automatic Elevating Control with a 16"/45 Gun and Associated Elevating Equipment, Duplicating Shipboard Installation with Northern Transmission	29 Aug 44	R	
OD 4784.....	Special Accelerated Life Test of 16" Elevating Gear Drive and Control (Waterbury-General Electric) in a Shop Setup Simulating Sustained Battle Firing Conditions	24 May 45	R	
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 44	R	See remarks for OP 1233 in Part 1
OP 1238.....	Radar Equipment Mk 28 Mod 2.....	28 Dec 44	C	
OP 966.....	14" Elevating Gear 14" Training Gear and Receiver Regulator Controls USS TENNESSEE and CALIFORNIA	May 1943	R	Supersedes OP 310

*Under preparation. \$Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CONTROLS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Rudder Controls</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OD 2466.....	Description of Thyatron Automatic Control for 5"/25 Cal Guns (Anti-Aircraft Battery)	20 Feb 36	R	9th rev. 0045 GO
OD 2469.....	Description of Thyatron Automatic Control for 5"/25 Cal Guns—Anti-Aircraft Battery— <i>USS PORTLAND</i> (CA 33) and <i>USS INDIANAPOLIS</i> (CA 35)	19 Dec 40	R	6th rev. 0155 GO
OD 2470.....	Thyatron Automatic Control for 5"/25 Cal Anti-Aircraft Guns for Naval Gun Factory	8 Dec 33	R	1st rev. 0335 GO
OD 2500.....	Description of Thyatron Automatic Control for 5"/38 Cal Guns— <i>Destroyers</i> 348 to 355	7 Feb 38	R	4th rev. 0305 GO
OD 2554.....	Description of Thyatron Automatic Control for 5"/38 Cal Guns— <i>Destroyers</i> 364 to 379	27 Oct 41	R	6th rev. 0035 GO
OD 3205.....	Description of Thyatron Automatic Control for 5"/25 Cal Guns (CLs 40 to 43 Incl and CA 44)	5 Dec 44	C	6th rev. 0135 GO
OP 835.....	12" Triple Gun Turrets, Main Armament for <i>USS ALASKA</i> , <i>GUAM</i> and <i>HAWAII</i> (<i>Preliminary</i>)	25 Oct 44	R	2d rev. 0035 GO
CONVERTERS				
OD 642.....	Range Converter Mk 1 Mod 4—Description and Operation	20 Sep 27	D	1st rev. Gives directions for modifying Mk 1 Mod 1 to Mk 1 Mod 4
OD 2648.....	Description and Operation of Sperry Relay Converter and Transmitter for <i>USS CALIFORNIA</i> and <i>TENNESSEE</i>	16 Aug 33	D	1st rev. 0035 GO
OD 1808.....	Description of Speed Converter Mk 1—Main Battery Fire Control System	17 Feb 38	D	1st rev. 0035 GO
OD 1809.....	Description of Speed Converter Mk 1 Mod 1—Main Battery Fire Control System	17 Feb 33	D	1st rev. 0035 GO
CONVEYORS, See CARRIERS				
CARTS				
CASES				
CONTAINERS				
CRANES				
HOISTS				
SKIDS				
TRAILERS				
TRUCKS				
CORDS				
#OP 1178.....	Demolition Material (<i>Detonating Cord</i>)	8 Dec 44	R	0035 GO
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1 0035 GO
OP 1219O.....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1 0035 GO
OP 1390.....	Demolition Firing Device Mk 13 Mod 0 (<i>Preliminary</i>)	5 Jul 45	R	0035 GO
OP 1411.....	Blasting Caps and Related Demolition Material (<i>Preliminary</i>) (<i>Cord, Detonating</i>)	28 Dec 44	D	0035 GO
CORRECTORS				
Correctors, Gun Order				
*OP 1635.....	Train Parallax Corrector Mk 5—Amplifier Mk 10 and Gun Order Corrector Mk 3		R	0035 GO
OP 1222.....	Gun Order Corrector Mk 2 Mods 0 and 1.....	17 Jul 44	R	Supersedes OD 4466

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Correctors, Illumination				
OP 853.....	Fire Control Equipment, Illumination Corrector Mk 1	Oct 1942	R	
	Description (Preliminary)			
OD 4460.....	Illumination Corrector Mk 1	17 Sep 42	R	
Correctors, Searchlight				
OD 3218.....	Description of Searchlight Corrector Mk 3 (DDs 409 to 420)	1 Apr 40	R	9th rev
OD 2602.....	Searchlight Corrector Mk 4	17 Aug 40	R	
OD 3172.....	Instruction Book for Searchlight Corrector Mk 5	12 May 41	R	
OD 2592.....	Searchlight Corrector Mk 6 and Mk 6 Mod 1	10 Oct 40	R	
Corrector, Searchlight Elevation Order				
OD 2530.....	Description of Searchlight Elevation Order Corrector Mk 1—Main Battery Fire Control System	13 Dec 37	R	1st rev
OD 2531.....	Description of Searchlight Elevation Order Corrector Mk 2 Main Battery Fire Control System CAs 37 and 38	13 Dec 37	R	1st rev
OD 2533.....	Description of Searchlight Elevation Order Corrector Mk 3—Main Battery Fire Control System	22 Dec 37	R	1st rev
OD 2338.....	Searchlight Train Order Corrector Mk 4 Mod 1, Searchlight Elevation Order Corrector Mk 4 Mod 1, Searchlight Elevation Order Corrector Mk 4 Mod 2, Searchlight Train Order Corrector Mk 4 Mod 2, Elevation Designator Mk 2 and Mk 2 Mods 1, 2 and 3, Train Designator Mk 2 and Mods 1, 2 and 3, Target Designator Transmitter Mk 3 and Mk 3 Mod 1	18 Apr 41	R	
Correctors, Searchlight Train Order				
OD 1781.....	Description of Searchlight Train Order Corrector Mk 1—Main Battery Fire Control System	18 Oct 32	R	6th rev
OD 2162.....	Searchlight Train Order Corrector Mk 2 CAs 33 and 35	22 Jun 31	C	2nd rev
OD 2532.....	Description of Searchlight Train Order Corrector Mk 3—Main Battery Fire Control System CAs 32, 34, 36-39	13 Dec 37	R	1st rev
OD 2338.....	Searchlight Train Order Corrector Mk 4 Mod 1, Searchlight Elevation Order Corrector Mk 4 Mod 1, Searchlight Elevation Order Corrector Mk 4 Mod 2, Searchlight Train Order Corrector Mk 4 Mod 2, Elevation Designator Mk 2 and Mk 2 Mods 1, 2 and 3, Train Designator Mk 2 and Mods 1, 2 and 3, Target Designator Transmitter Mk 3 and Mk 3 Mod 1	18 Apr 41	R	
Correctors, Parallax				
OP 1122.....	Gun Director Mk 55 Mod O (Parallax Range Corrector)	30 Jul 45	R	
OP 1221.....	Train Parallax Corrector Mk 2 Mods 1 and 2 (Preliminary)	20 Jul 44	R	
*OP 1655.....	Train Parallax Corrector Mk 5—Amplifier Mk 10 and Gun Order Corrector Mk 3			
Correctors, Trunnion Tilt				
OD 2463.....	Fire Control Equipment—Trunnion Tilt Corrector Mk 1	27 Nov 35	R	
OD 2536.....	Description of Trunnion Tilt Corrector Mk 1 Mod 2 Main Battery Fire Control System CLs 40 to 43, 46 to 48	7 Apr 38	R	4th rev
OP 812.....	Gun Director Mk 40 BBs 55-66 (Preliminary) Description (Trunnion Tilt Corrector Mk 5)	Apr 1943	R	1st rev

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Correctors, Trunnion Tilt				
OD 2345.....	Theory and Lectures for Computers Mk 3 Mods 0 and 1 and Trunnion Tilt Corrector Mk 5	18 Feb 42	R	
OD 3141.....	Main Battery BBs 55 to 62 Incl Rangekeeper Mk 8 Mod 9, Computer Mk 3 and Mk 3 Mod 1, Trunnion Tilt Corrector Mk 5	Undated	R	
OD 3175.....	Instruction Book for Computer Mk 3 Mod 0 and Trunnion Tilt Corrector Mk 5 and Computer Mk 3 Mod 1	12 Mar 42	R Rev A	
*OP 1290A....	Instruction Book for Computer Mk 3 Mod 8 and Trunnion Tilt Corrector Mk 5 Mod 1 (Preliminary)		R	
OD 3190.....	Instruction Book for Searchlight Trunnion Tilt Corrector Mk 1	1 Jan 42	R	
OD 5160.....	Sonar Trunnion Tilt Corrector Mark 1 (Preliminary) Instruction Book	30 Jun 44	R	
COUNTERBORING MACHINES, See MACHINES, COUNTERBORING				
COUNTERRECOIL SYSTEMS, See SYSTEMS, COUNTERRECOIL				
COURSE FINDERS, See FINDERS				
COVERS				
OP 1219O.....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
OP 1219Q....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OTI F5-44....	Exposed Optical Instruments, Canvas Covers for Eye-pieces	12 Apr 44	R	Issued with OD 4486 Rev A
OHI G1-44....	20-mm Assembly Cover Mk 3 Mod 0, Instructions for Installing and Removing	28 Dec 44	R	
OTI V45-43...	20-mm Aircraft Automatic Gun AN-M2 Plastic Muzzle Cover for	21 Dec 43	R	Issued with TM9-227
OP 1219M.....	Ammunition Code-Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OD 3224.....	5"/38 Twin Mounts, Roof Hatch Cover, Instructions for Filling Roof Hatch Cover	Undated	D	
CRADLES				
See also GUNS				
MOUNTS				
OP 893.....	50 Cal Machine Gun Mount Mk 17 Description (Cradle Mk 9)	Oct 1942	R	
OP 1439.....	20-mm AA Assemblies (Twin); 20-mm AA Gun Mounts Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods; 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter Equipment Mk 2 Mod 0; 20-mm Machine Gun Mechanism Mk 4 Mod 1; 20-mm Magazine Mk 5 Mod 0	28 Apr 45	D	See remarks for OP 1439 in Part 1
CRANE ATTACHMENTS, See ATTACHMENTS, CRANE				
CRANES				
OP 865.....	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
CRIMPERS				
#OP 1178.....	Demolition Material (<i>Cap Crimpers</i>).....	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
CURVES, See PHOTOS				
CUTTERS				
#OP 1178.....	Demolition Material (<i>Chain and Cable Cutters</i>).....	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1571.....	Cable and Chain Cutter Mk 1 Mod 1.....	5 Dec 45	R	
OP 1492.....	Stowage and Safety Instructions for Minesweeping Cutter Mk 13	6 Aug 45	C	
CYLINDERS				
OD 1960.....	5" Mount Mk 19 and Mods Anti-Aircraft Maintenance, Overhauling, Examination and Replacement of Parts of the Counter Recoil and Differential Cylinder	22 Nov 30	D	
OD 2913.....	5"/38 cal Anti-Aircraft Double Purpose Single and Twin Gun Mounts. Instruction for Filling the Recoil and Differential Cylinders and Charging the Counter Recoil Air Cylinder	14 Jul 44	D	Rev A
TO 11-1-21....	20-mm Hydraulic Gun Charger Cylinder Assembly (No. 78003)	12 Feb 42		War Dept Publication
DAMPENERS				
OD 3470.....	Installation and Maintenance Instructions for .50 Cal Gun Recoil Dampers	2 Feb 40	R	
DASHPOTS				
OTI M9-44....	Use of "Hydraulic Gear Fluid-flat Viscosity" in Dashpots of Mine Anchors Mark 6 and Mark 16	25 Aug 44	R	
DATA, BALLISTIC, See BALLISTICS				
Data, Angle of Attack				
OP 1296.....	Boresighting and Effective Angle of Attack Data for Aircraft	29 Dec 44	R	See remarks for OP 1296 in Part 1
OP 1354.....	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft F4U-1, F4U-1D and FG-1	22 Dec 44	R	See remarks for OP 1354 in Part 1
OP 1357.....	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft TBM-1C and TBF-1C	16 Mar 45	R	See remarks for OP 1357 in Part 1
OP 1421.....	Sighting Data for Fixed-gun Strafing, Cal 50 and 20-mm Fixed Machine Guns	28 Apr 45	R	1st rev
OP 1466.....	Sight Settings for Masthead Bombing at Altitudes 50-500 Feet	14 Aug 45	R	1st rev
OP 1524.....	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft PV-1	4 Jul 45	R	

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To requisition Ordnance Publications, use NAVORD FORM 1 (Rev 8-45).

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Data, Erosion				
See also	Photos			
OP 1004.....	Index of Ballistic Information for Projectiles, Rockets, and Bombs	7 Mar 45	C	2nd rev. See remarks for OP 1004 in Part 1
OP 1285.....	Range Table for 5"/38 Cal Gun, 1200 fsiv, AA Common Projectile Mk 35	26 Sep 45	R	1st rev
OP 1366.....	Range Table for 6"/47 Cal Gun—2225 fsiv—105 lb HC Projectile	28 Jul 45	R	
OP 1429.....	Erosion Data, Construction, Use and Accuracy.....	12 Feb 45	R	
OP 1467.....	Range Table for 14"/50 Cal Gun, 1,860 fsiv, 1500 lb Target Projectile	11 Aug 45	R	1st rev. Supersedes OP 754
OP 1544.....	Range Table for 14"/45 and 14"/50 Cal Guns—2,065 fsiv—1275 lb HC Projectile	21 Jun 45	R	
OP 1556.....	Range Table for 14"/45 Cal Gun, 1,935 fsiv—1500 lb Target Projectile Mk 21, USS NEW YORK and TEXAS	31 Jul 45	R	
OD 2336.....	Erosion Data for Computing Range Scales for Mk 1 and Mods—Elevation Receivers—4" Gun—2,500 fsiv	26 Apr 40	R	
OP 1554.....	Range Table for 14"/45 Cal Gun, 1,860 fsiv—1500 lb Target Projectile Mk 17	6 Aug 45	R	Supersedes OP 754
OP 1468.....	Range Table for 14"/50 Cal Gun, 2,625 fsiv—1500 lb AP Projectile	20 Aug 45	R	1st rev. Supersedes OP 752
OP 1543.....	Range Table for 16"/45 and 16"/50 Cal Guns, 2,075 fsiv—1900 lb HC Projectile	21 Jun 45	R	
OD 2340.....	Erosion Data for Computing Range Scales for Mk 1 and Mods Elevation Receivers 6" Gun 2,800 fsiv Range Table Ordnance Pamphlet No 200—5 fs Increment	1 Dec 41	R	Rev B
Data, Fragmentation				
OP 1458.....	Fragmentation Data on Bombs and Projectiles.....	2 Apr 45	R	See remarks for OP 1458 in Part 1
Data, Parallax				
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operating and Maintenance	1 Aug 44	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1
OD 2306.....	Director Gear—U. S. Coast Guard Academy—Parallax Data	17 Aug 33	D	
OD 2951.....	Location of 5" Guns, Directors and 36" Searchlight Parallax Data (Preliminary)	5 Feb 43	D	
OD 5272.....	AG 17—USS WYOMING—Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	12 Apr 45	D	Rev A
OD 5279.....	AGPs 6 to 9—Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	Dec 1943	D	
OD 5280.....	APs 106 and 107 (Formerly CMs 6 and 7)—Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	Dec 1943	D	
*OD 5636.....	Location of 16" and 5" Guns, Director and 36" Searchlight BBs 35 and 36 Parallax Data			
OD 5498.....	Location of 14" and 5" Guns, Directors and 36" Searchlights (Parallax Data)—BB 38	26 Mar 45	D	Rev A
OD 5250.....	Location of 14" and 5" Guns, Directors and 36" Searchlights, Parallax Data BB 40			
*OD 5304.....	Parallax Data BBs 40, 41, 42—Location of 14" Guns and Directors			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Data, Parallax				
OD 4583.....	BBs 43, 44 and 48—Location of Guns, Directors and 36" Searchlight—14"/50 (BBs 43-44) 16"/45 (BB48) 5"38 (BBs 43, 44, 48)—Parallax Data	16 Mar 43	D	Supersedes Sk 87200, 96881 and OD 2940
OD 5329.....	CAs 33 and 35 Location of 8" and 5" Guns, Directors and 36" Searchlights (Parallax Data)	7 Dec 44	D	Rev A
OD 4621.....	Location of 8" & 5" Guns, Directors and 36" Searchlights (Parallax Data) CAs 37 and 38	11 Oct 43	R	
OD 5246.....	CA 45—Location of 8" and 5" Guns, Directors and 36" Searchlights (Parallax Data)	24 Jul 43	D	Supersedes Sk No 81429
OD 2945.....	Location of 8" and 5" Guns, Directors and 36" Searchlights (Parallax Data) CAs 122 to 129 incl 137, 138	26 May 44	D	Rev C
OD 5334.....	Location of 8" and 5" Guns, Directors and 36" Searchlights (Parallax Data) CAs 134, 139 to 143, 148, 149	30 Mar 45	D	
OD 5259.....	CGs 65-68, 70 and 71 Location of 5" Guns, Directors (Parallax Data)	Apr 1944	D	
OD 5322.....	CLs 4-13 Location of 6" and 3" Guns, Directors and Searchlights (Parallax Data)	31 Jan 44	D	
OD 5333.....	CL 42 Location of 6" and 5" Guns, Directors and 36" Searchlights Parallax Data	20 Mar 44	D	
OD 5306.....	CL 49 Location of 6" and 5" Guns, Directors and 36" Searchlights (Parallax Data)	8 Jan 44	D	
OD 2949.....	Location of 6" & 5" Guns, Directors and 36" Searchlights (Parallax Data) CLs 106 to 111, 116 to 118	12 Jan 45	D	Rev B
OD 5247.....	CLs 119 to 121—Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	30 Dec 43	D	
OD 5643.....	CLs 144-147 Location of 6" Guns, Directors and 36" Searchlights (Parallax Data)	12 Dec 44	D	
OD 2948.....	Location of 5" Guns, Directors and 36" Searchlights (Parallax Data) CV4 USS RANGER	1 Feb 43	D	
OD 2950.....	CVBs 41 to 55 Incl Location of 5" Guns, Directors and 36" Searchlights (Parallax Data)	22 Jul 43	D	Rev A
OD 5266.....	DDs 357 to 363, 381, 383, and 394 to 396 Incl—Location of 5" Guns, Director and 36" Searchlight (Parallax Data)	11 Oct 43	D	
OD 4578.....	Location of 5" Guns, Directors and 36" Searchlights (Parallax Data) DDs 692-734, 741-748, 752-770, 774-791, 805-890	22 Nov 44	D	Rev A

Data, Powder Proof

OD 1586..... Powder Proof Data..... Not available for distribution

Data, Sighting

OP 1296..... Boresighting and Effective Angle of Attack Data for Aircraft 29 Dec 44 R See remarks for OP 1296 in Part I

OP 1353..... Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft FM-2 22 Dec 44 R See remarks for OP 1353 in Part I

OP 1355..... Range Table for 2"25 Aircraft Rockets (Subcaliber), 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft F6F-3 and F6F-5 22 Dec 44 R See remarks for OP 1355 in Part I

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Data, Sighting				
OP 1356.....	Range Table for 2"25 Aircraft Rockets (Subcaliber), 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft TBM-1 and TBF-1	9 Apr 45	R	See remarks for OP 1356 in Part 1
OP 1357.....	Range Table for 2"25 Aircraft Rockets (Subcaliber), 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft TBM-1C and TBF-1C	16 Mar 45	R	See remarks for OP 1357 in Part 1
OP 1358.....	Range Table for 2"25 Aircraft Rockets (Subcaliber), 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft SB2C-1, SB2C-1C, SB2C-3, SB2C-4, and SB2C-5	29 Dec 44	R	See remarks for OP 1358 in Part 1
OP 1371.....	Range Table for 11"75 Aircraft Rockets Fired from F4U and F6F Type Aircraft Using Drop Launchers (<i>Preliminary</i>)	2 Mar 45	R	
OP 1421.....	Sighting Data for Fixed-gun Strafing, Cal .50 and 20-mm Fixed Machine Guns	28 Apr 45	R	1st rev
OP 1524.....	Range Table for 2"25 Aircraft Rockets (Subcaliber), 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft PV-1	4 Jul 45	R	
Data, Torpedo Launching				
OP 1207.....	U. S. Navy Aircraft Torpedoes, General Information..	27 Jun 44	R	With Change 1 dated 16 Oct 44. Supersedes OD 3816
Data, Torpedo Tactical				
OD 4444.....	Tactical Data for Torpedoes Mk 8 Mods 3C, 3D, 4, 5 and 8 Destroyer Firing	17 May 44	R	
OD 3698.....	Tactical Data for Torpedo Mk 10 Mod 3.....	5 Feb 42	R	
OD 3699.....	Tactical Data for Torpedos Mk 14 and Mk 14 Mod 1 (High Power, Low Power)	4 Dec 41	R	Issued with OCL T17-44 and Change 1 dated 9 Jul 45
OD 3700.....	Tactical Data for Torpedo Mk 15—High Power, Intermediate Power and Low Power for <i>Submarine</i> Firing	18 Mar 42	R	OCL F4-42 gives this OD as applicable for Mk 15 and Mk 15 Mods 1 and 2.
OD 4496.....	Tactical Data for Torpedo Mk 15 Mod 3 for <i>Destroyer</i> Firing	22 Sep 44	R	
Data, Vibration				
OD 4672.....	Vibration Data for Design of Elastic Supports for Rangefinders <i>USS BALTIMORE</i> CA 68	Undated	D	
OD 4680.....	Vibration Data for Design of Elastic Supports for Rangefinders <i>USS NEW JERSEY</i> BB 62	Undated	D	
*OD 4700.....	Vibration Data for Design of Elastic Supports for Turret No. 3, Director No. 2 <i>USS BILOXI</i> CL 80			
*OD 4730.....	Vibration Data for Design of Elastic Supports for Rangefinders— <i>USS HOUSTON</i> (CL 81) Main Battery Directors and Turrets Nos 2 and 3			
*OD 4799.....	Vibration Data for Design of Elastic Supports for Main Battery Director Rangefinders <i>USS WICHITA</i> and <i>HELENA</i>		C	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Data, Vibration				
*OD 4800.....	Vibration Measurements Made on <i>USS MAHAN</i>.....	.....	C	
*OD 4801.....	Report of Vibration Tests on <i>USS BROOKLYN</i>.....	.....	C	
*OD 4802.....	Studies of Vibration of Fire Control Instruments and Supporting Structures Aboard <i>USS MAHAN</i>	.....	C	
*OD 4803.....	Studies of Vibration of Fire Control Instruments and Supporting Structures Aboard <i>USS PHILADELPHIA</i>	.....	C	
*OD 4804.....	Vibration Records of Rangefinders in No. 3 Turrets of <i>USS NORTHAMPTON CA 26</i> , and <i>USS PENSACOLA CA 24</i> , with and without Rubber Sandwich Suspensions	.....	C	
*OD 4805.....	Report of Measurement of Vibration of Fire Control Instruments and Supporting Structures Aboard <i>USS INDIANAPOLIS</i>	.....	C	
DEFLECTORS				
OP 1131.....	4"5 Rocket Launcher Mk 7 (Experimental)—Description and Instructions for Use	17 Jul 44	R	See remarks for OP 1131 in Part I
DEGAUSSING				
OP 1502.....	Degaussing Station Instructions, Restrictions and Precautions for the Protection of Ships, Their Gear and Cargo, During Deperming and Flashing (Formerly DGSi No. 2)	26 Aug 44	D	Available to Degaussing Activities only. Used with OP 1536 (1st rev)
OP 1503.....	Degaussing Station Instructions, Permissible Loading and Deperming Cables (Formerly DGSi No. 3)	15 Jun 44	R	Available to Degaussing Activities only. Used with OP 1536 (1st rev)
OP 1504.....	Degaussing Station Instructions, Construction of <i>Mine-sweeper</i> Loop Ranges (Formerly DGSi No. 4)	25 Mar 43	D	Available to Degaussing Activities only
OP 1509.....	Degaussing Station Instructions, Degaussing of Acoustic Booms on Wooden <i>Minesweepers</i> (Formerly DGSi No. 9)	11 Feb 43	C	Do
OP 1520.....	Degaussing Station Instructions, Control Panels for Advance-Base Magnetic Ranges (Formerly DGSi No. 20)	24 Aug 43	D	Do
OP 1521.....	Degaussing Station Instructions, Degaussing of <i>FLETCHER</i> (DD 445) Class of <i>Destroyers</i> Having Abnormal Magnetic Fields near the Stern (Formerly DGSi No. 21)	27 Aug 43	R	Available to Degaussing Activities only. Will be combined with OP 1532 (1st rev)
OP 1523.....	Degaussing Station Instructions, Forms, Records, and Reporting Procedures	21 Jul 45	D	1st rev. With Change 1 dated 26 Jul 45. Used with OP 1536 (1st rev) Supersedes OP 1540. Available to Degaussing Activities only
OP 1526.....	Degaussing Station Instructions, Degaussing Action and Recommendations for Action	30 Jan 46	C	1st rev. Used with OP 1536 (1st rev). Available to Degaussing Activities only
OP 1529.....	Degaussing Station Instructions, Magnetic Treatment of <i>Landing Craft</i> (Formerly DGSi No. 29)	26 Dec 44	C	Issued with Change 1 dated 13 Jun 45. Available to Degaussing Activities only

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
DEGAUSSING				
#OP 1532.....	Degaussing Station Instructions, Use of Auxiliary M-Coil Loops to Compensate the Stern Anomaly of the USS BRYANT (DD 665) and other ships of the BLETCHER Class (Formerly DGSI No 32)	1 May 44	R	Available to Degaussing Activities only. Will combine OP 1521.
OP 1534.....	Degaussing Station Instructions, Design of Ships' Degaussing Coils (Formerly DGSI No 34)	15 May 44	R	Available to Degaussing Activities only
OP 1535.....	Degaussing Station Instructions, Deperming Procedures for Stations Equipped with Fixed Magnetometers (Formerly DGSI No 35)	15 Jun 44	C	Available to Degaussing Activities only. Used with OP 1536 (1st rev)
OP 1536.....	Degaussing Station Instructions, Degaussing of Submarines	5 Nov 45	C	1st rev. Used with OPs 1502, 1503, 1523 (1st rev), 1526, 1535, 1537, 1538. Supersedes OP 1522. Available to Degaussing Activities only
OP 1537.....	Degaussing Station Instructions, Procedures for Use of Portable and Advanced Base Equipment (Formerly DGSI No 37)	20 Oct 44	R	Used with OP 1536 (1st rev). Available to Degaussing Activities only
OP 1538.....	Degaussing Station Instructions, Magnetic Ranging and Calibration Procedures (Formerly DGSI No 38)	10 Oct 44	R	With Change 1 dated 25 Aug 45. Used with OP 1536 (1st rev). Available to Degaussing Activities only
OP 1539.....	Degaussing Station Instructions, Deperming Station Batteries (Formerly DGSI No 39)	21 Sep 45	D	1st rev. Available to Degaussing Activities only
*OP 1541.....	Degaussing Station Instructions, Installation, Operation, and Maintenance of Degaussing Range Equipment			Available to Degaussing Activities only
OD 5802.....	Degaussing Note, Acoustic Boom Degaussing Coils (Formerly DGN No 2)	16 Jan 43	R	Available to Degaussing Activities only
OD 5803.....	Degaussing Note, Current Carrying Capacity of Rubber Insulated Cables (Formerly DGN No 3)	31 Aug 43	R	Do
OD 5805.....	Degaussing Note, Detailed Study of M-Coil Constants and the Suitability of the Straight Line Prediction Formula (Formerly DGN No 5)	5 Jul 43	R	Available to Degaussing Activities only
OD 5810.....	Degaussing Note, List of Direct Current Electric Drive Ships (Formerly DGN No 10)	15 Mar 43	R	Do
OD 5812.....	Degaussing Note, Use of Deperming Solenoid for Calibration and Measurement of Induced Longitudinal Magnetization (ILM) (Formerly DGN No 12)	23 Mar 43	R	Do
OD 5815.....	Degaussing Note, Equilibrium and Induced Vertical Magnetization and Signatures of Magnetic Ship Models (Formerly DGN No 15)	9 Jun 43	R	Do
OD 5816.....	Degaussing Note, Floating Magnetic Range (Formerly DGN No 16)	9 Jun 43	R	Do
OD 5817.....	Degaussing Note, Wiping, Flashing and Flash (Formerly DGN No 17)	18 Jun 43	C	Do
OD 5819.....	Degaussing Note, Application of Deperm "CH" in Great Britain (Formerly DGN No 19)	7 Jul 43	C	Do
OD 5820.....	Degaussing Note, Empirical Calibration of Channel Loop Ranges (Formerly DGN No 20)	1 Jul 43	R	Do
OD 5821.....	Degaussing Note, Coil Effects of the 220-ft. Class of Minesweepers (AMs 57-65, 100-131, 314-324, and BAMs 8-15, 17-21, 25-32) (Formerly DGN No 21)	10 Jul 43	R	Do
OD 5822.....	Degaussing Note, Magnetic Field Target Areas (Formerly DGN No 22)	16 Jul 43	R	Do

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
DEGAUSSING				
OD 5824.....	The Magnetic Fields of Ships Loaded with Magnetic Cargo (Formerly DGN No 24)	23 Jul 43	R	Do
OD 5827.....	Degaussing Note, Introduction of Permanent Athwartship Magnetization (PAM) during Deperming by Reversals	25 Aug 43	C	Available to Degaussing Activities only
OD 5829.....	Degaussing Note, Undegaussed Signatures and Coil Effects of the FLETCHER (DD 445) Class of Destroyers (Formerly DGN No 29)	27 Aug 43	R	Do
OD 5831.....	Degaussing Note, Coil Effects, Equilibrium Vertical Magnetization and Induced Longitudinal Magnetization for the DE 99 Class (Formerly DGN No 31)	9 Sep 43	R	Do
OD 5832.....	Degaussing Note, Coil Effect, Equilibrium Vertical Magnetization and Induced Longitudinal Magnetization for the DE 51 Class (Formerly DGN No 32)	13 Oct 43	R	Do
OD 5834.....	Degaussing Note, Undegaussed Signatures, Induced Longitudinal Magnetization and Coil Effects of the DE 256, BDE 1 Classes (Formerly DGN No 34)	15 Oct 43	R	Available to Degaussing Activities only. Supersedes OD 5823 (DGN No 23)
OD 5835.....	Degaussing Note, Undegaussed Signatures, Induced Longitudinal Magnetization and Coil Effects of the T-2 (M.C. T2-SE-A1) Class of Tankers (Formerly DGN No 35)	18 Oct 43	R	Available to Degaussing Activities only
OD 5836.....	Degaussing Note, Magnetic Proving Ground Equipment (Formerly DGN No 36)	22 Dec 43	D	Do
OD 5837.....	Degaussing Note, Magnetic Stability of Iron Specimens (Formerly DGN No 37)	23 Dec 43	R	Do
OD 5838.....	Degaussing Note, Degaussing Characteristics of the 180 ft. Minesweepers AM 136 Class (Formerly DGN No 38)	28 Dec 43	R	Available to Degaussing Activities only
OD 5839.....	Degaussing Note, Degaussing Characteristics of the Gleaves (Bristol) Class of Destroyers (Formerly DGN No 39)	7 Jan 44	R	Do
OD 5840.....	Degaussing Note, Degaussing Characteristics of the BB 55, BB 57, and BB 61 Classes of Battleships (Formerly DGN No 40)	22 Jan 44	R	Do
OD 5841.....	Degaussing Note, Degaussing Characteristics of the CVE 26 Class of Auxiliary Aircraft Carriers (Formerly DGN No 41)	24 Jan 44	R	Do
OD 5842.....	Degaussing Note, Degaussing Characteristics of the CVL 22 Class of Light Aircraft Carriers (Formerly DGN No 42)	9 Feb 44	R	Do
OD 5843.....	Degaussing Note, Degaussing Characteristics of the CL 55 and CL 95 Classes of Cruisers (Formerly DGN No 43)	15 Feb 44	R	Do
OD 5844.....	Degaussing Note, Degaussing Characteristics of the PF 3 Class Frigates (Formerly DGN No 44)	16 Feb 44	R	Do
OD 5846.....	Degaussing Note, Degaussing Classification of U.S. Vessels (Formerly DGN No 46)	16 Feb 44	R	Do
OD 5847.....	Degaussing Note, Degaussing Characteristics of Ships of the DE 51 and DE 99 Classes Having Simplified Coil Installations (Formerly DGN No 47)	28 Feb 44	R	Do
OD 5849.....	Degaussing Note, Degaussing Characteristics of the CVE 55 Class of Escort Aircraft Carriers (Formerly DGN No 49)	1 Apr 44	R	Do

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
DEGAUSSING				
OD 5850.....	Degaussing Note, M-Coil Current Setting on T-2 Tankers (Formerly DGN No 50)	11 May 44	R	Do
OD 5851.....	Degaussing Note, Degaussing Characteristics of the APA 33 and APA 92 Classes of Attack Transports and Certain Non-Naval Vessels Having Type C3-S-A2 Maritime Commission Hulls (Formerly DGN No 51)	15 Jun 44	R	Available to Degaussing Activities only
OD 5852.....	Degaussing Note, Degaussing Characteristics of Victory Ships (Maritime Commission Hull Types VC2-S-AP2, VC2-S-AP3, and VC2-S-AP5) (Formerly DGN No 52)	15 Jun 44	R	Do
OD 5854.....	Degaussing Note, Degaussing Characteristics of the AO 51 Class of Oilers (Formerly DGN No 54)	1 Aug 44	R	Do
OD 5855.....	Degaussing Note, Use of the Portable Magnetometer Control Box Mk 5 Mod 5 with Portable Detector Mk 5 Mod 4 (Formerly DGN No 55)	10 Aug 44	D	Do
OD 5856.....	Degaussing Note, M-Coil Capacities of Merchant and Naval T-2 (M.C. T2-SE-A1) Class of Tankers (Formerly DGN No 56)	15 Sep 44	R	Do
OD 5857.....	Degaussing Note, Information Concerning the Use of Minesweeper Special Service Generators for Deperming (Formerly DGN No 57)	1 Oct 44	C	Do
OD 5858.....	Degaussing Note, Degaussing Characteristics of the CV 9 Class of Aircraft Carriers (Formerly DGN No 58)	1 Oct 44	R	Do
OD 5859.....	Degaussing Note, Degaussing Characteristics of the Short Hulled ALLEN M. SUMNER (DD 692) Class Destroyers (Formerly DGN No 59)	8 Nov 44	R	Do
OD 5860.....	Degaussing Note, Degaussing Characteristics of the LST 1-541 and LST 542-1130 Classes (Formerly DGN No 60)	16 Oct 44	R	Available to Degaussing Activities only
OD 5862.....	Degaussing Note, Index of Degaussing Summaries Issued before 1 January 1945 (Formerly DGN No 62)	22 Jan 45	R	Do
OD 5863.....	Degaussing Note, Degaussing Characteristics of APDs 37-39, 47-52, 54-57, 59-63, 69-74, 78-79, 87-136 (Formerly DGN No 63)	22 Jan 45	R	Do
OD 5864.....	Degaussing Note, Degaussing Characteristics of the High Speed Minesweepers DMSs 19-42 (Formerly DGN No 64)	20 Feb 45	R	Do
OD 5865.....	Degaussing Note, Degaussing Characteristics of the Motor Minesweepers YMSs 1-481 (Formerly DGN No 65)	1 Mar 45	R	Do
OD 5866.....	Degaussing of Small Wooden-hulled Craft for Minesweeping Operations	1 Mar 45	R	With Change 1 dated 8 Aug 45. Available to Degaussing Activities only
*OD 5867.....	Degaussing Note, Degaussing Characteristics of Maritime Commission C1 Hull Types (Formerly DGN No 67)		C	Do
*OD 5868.....	Degaussing Note, Degaussing Characteristics of Maritime Commission C2 Hull Types (Formerly DGN No 68)		C	Do
OD 6322.....	Degaussing Note, Degaussing Characteristics of AMc (U) 1-11	17 Aug 45	R	Available to Degaussing Activities only

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DELAY COILS See COILS				
DELINKING MACHINES See MACHINES, DELINKING				
DEMOLITION				
See also	ADAPTERS			
	BOXES			
	CHARGES, DEMOLITION			
	DESTRUCTORS			
	DEVICES			
	IGNITERS			
	MACHINES			
	REELS			
	TIMERS			
OP 5.....	Ammunition Ashore Vol. 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
#OP 1178.....	Demolition Material.....	8 Dec 44	R	See remarks for OP 1178 in Part 1
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material.....	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1389.....	Demolition Firing Device Mk 12 Mod 0 (Preliminary)...	14 Jul 45	R	
OP 1411.....	Blasting Caps and Related Demolition Material (Preliminary)	28 Dec 44	D	
OP 1484.....	Demolition Firing Device Mk 10 Mods 0, 1, 2, and 3—Description and Instructions for Use	25 Jun 45	R	1st rev.
OP 1631.....	Ammunition Hazard Classification List.....	21-Sep 45	R	See remarks for OP 1631 in Part 1
TM9-1900	Ammunition—General	18 Jun 45	R	War Dept Publication. See remarks for TM9-1900 in Part 1
FM5-25	Explosives and Demolitions.....	May 1945	D	War Dept Publication. See remarks for FM5-25 in Part 1
SNL R-7 (ORD 11)	Land Mines and Fuzes, Demolition Material, and Ammunition for Simulated Artillery and Grenade Fire			War Dept Publication
OTI A3-43.....	Testing of Destructors for Radio Equipment.....	7 Apr 43	D	
OP 1362.....	Demolition Firing Device Mk 1 Mod 1 (Preliminary)...	Nov 1944	R	Supersedes OTI A5-44
OP 952.....	Demolition Outfit Mk 7 Mines, Description.....	Mar 1943	R	
OP 1012.....	Demolition Outfit Mk 108—for Submarines—Description and Installation and Operation	Jun 1943	R	With Change 1 dated 16 Mar 45
OHI A3-44.....	Instructions for Installing, Demolition Outfit Mk 112 for PD Pack	4 Feb 44	D	
OHI A6-44.....	Assembly of Demolition Outfit Mk 112.....	26 Aug 44	R	
OP 1147.....	Demolition Outfit Mk 119—Description and Instructions for Assembly (Army Designation Reddy Fox and Aqueous Snake)	1 Mar 44	R	With Change 1 dated 11 Apr 44, Change 2 dated 14 Mar 45
OP 1433.....	Demolition Outfit Mk 127 Mod 0 (Preliminary).....	23 Mar 45	C	
OHI A4-45.....	Demolition Outfit Mk 127 Mod 0.....	18 Apr 45	D	
OP 1582.....	Demolition Outfit (UDT) Mk 133 Mod 0 (Preliminary)	31 Jul 45	R	
OP 1583.....	Demolition Outfit (UDT) Mk 135 Mod 0.....	31 Jul 45	R	
OP 1579.....	Demolition Outfit Mk 136 Mods 0 and 1 (Preliminary)...	28 Jul 45	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
DEPTH CHARGES See CHARGES, DEPTH				
DESIGNATORS				
OD 2338.....	Searchlight Train Order Corrector Mk 4 Mod 1, Searchlight Elevation Order Corrector Mk 4 Mod 2, Searchlight Train Order Corrector Mk 4 Mod 2, Elevation Designator Mk 2 and Mk 2 Mods 1, 2 and 3, Train Designator Mk 2 and Mods 1, 2 and 3, Target Designator Transmitter Mk 3 and Mk 3 Mod 1	18 Apr 41	R	
OP 1122.....	Gun Director Mk 55 Mod 0.....	30 Jul 45	R	
OD 1046.....	Description of Target Designator Mk 4—Main Battery Fire Control System	1929	R 2nd rev	
OD 1047.....	Description of Target Designator Mk 4 Mod 1—USS <i>PENSACOLA</i> and <i>SALT LAKE CITY</i> —Main Battery Fire Control System	1928	R	
OD 2495.....	Description of Target Designator Mk 4 Mod 4 Main Battery Fire Control System	Undated	R 3rd rev	
OD 1796.....	Description of Target Designator Mk 8 Mod 1—Main Battery Fire Control System	15 Jun 33	R 2nd rev	
OD 1797.....	Description of Target Designator Mk 8 Mod 2—Main Battery Fire Control System	14 Jun 33	R 2nd rev	
OD 2341.....	Train Designator Mk 2 Mod 3 Description.....	30 Nov 41	R	
DESSICANTS				
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components (<i>Silica Gel Bag</i>)	6 Dec 45	R 2nd rev	See remarks for OP 1219M in Part 1
DESTRUCTORS				
See also DEMOLITION				
#OP 1178.....	Demolition Material.....	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R 1st rev	See remarks for OP 1219E in Part 1
OP 1579.....	Demolition Outfit Mk 136 Mods 0 and 1 (<i>Preliminary</i>)..	28 Jul 45	R	
OHI AV2-44..	AN-M Destructors	24 Jan 44	D	
SNL R-7.....	Land Mines and Fuzes, Demolition Material, and Ammunition for Simulated Artillery and Grenade Fire (ORD 11)			War Dept Publication
OTI A3-43....	Testing of Destructors for Radio Equipment.....	7 Apr 43	D	
DETECTORS				
OP 1627.....	Detector Set AN/PRS/5.....	26 Oct 45	R	
DETONATORS				
See also AMMUNITION BOMBS TORPEDOES				
#OP 4.....	Ammunition—Instructions for the Naval Service Afloat.	4 May 43	R Revised	See remarks for OP 4 in Part 1
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R 1st rev	See remarks for OP 5 in Part 1
OP 878.....	General Data on Navy, AN—Standard, Army, and British Bombs	21 Sep 44	R 2nd rev	See remarks for OP 878 in Part 1
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
#OP 1178.....	Demolition Material	8 Dec 44	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
DETONATORS				
OP 1219A	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R 1st rev.	See remarks for OP 1219A in Part 1.
OD 2026	Detonator Sand Test Bomb and Firing Hammer—Instructions for Use of	23 Aug 35	C Rev. A	
OP 1219E ...	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R 1st rev.	See remarks for OP 1219E in Part 1
OP 1219D	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories	25 Jun 45	R 1st rev.	See remarks for OP 1219D in Part 1.
OP 1219O	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R 1st rev.	See remarks for OP 1219O in Part 1
OP 1531	Complete Rounds for Aircraft Bombs	18 May 45	D	See remarks for OP 1531 in Part 1
OP 888	Mines Mk 6 and Mods, Description and Instructions for Assembling, Handling and Planting	13 Feb 45	R 1st rev.	See remarks for OP 888 in Part 1.
OP 901	Mine Mk 12 and Mods—Description and Instructions for Assembly, Handling and Planting	Nov 1943	R	See remarks for OP 901 in Part 1.
OP 902	Mine Mk 18 Description and Instructions for Assembling, Handling and Planting	25 Jan 44	R	Issued with OTI M4-44, M11-44, OCL M29-44. Supersedes NOL Report No 772.
OP 954	Mine AN-Mk 26 Mod 1 Description and Instructions for Assembling, Handling and Planting (Aircraft)	11 Dec 43	R	Issued with OTIs M4-44, M11-44, OCL M29-44. Supersedes NOL Report No 783.
TB9-1980-49 ..	Primer-Detonator M14, 0.24-sec Delay	24 Apr 45	R	War Dept Publication. See remarks for TB9-1980-49 in Part 1.
OP 1001	Projectors Mk 10, Mk 10 Mod 1 and Mk 11 and Ammunition Description and Instructions for Use	25 Jul 44	R 1st rev.	With Change 1 dated 24 Oct 44. Supersedes OCLs A113-43, G12-44.
OP 663	Description, Adjustment, Care, Operation and Shop Tests of Torpedo Warhead Attachments	Nov 1942	R	See remarks for OP 663 in Part 1.
OP 1219F	Ammunition Code Catalog Class F, Torpedo Warheads and Accessories	5 Nov 45	R 1st rev.	See remarks for OP 1219F in Part 1.
DEVICES				
OP 5	Ammunition Ashore Vol 1	10 Jun 44	R 1st rev.	See remarks for OP 5 in Part 1.
TB9-1980-41 ..	Antiricochet Devices M16 and M17	22 Feb 45	R	War Dept Publication. Issued with TM9-1980.
OP 1219C	Ammunition Code Catalog Class C, Chemicals (Charging Device for CN Spray Gun)	1 Oct 44	R	See remarks for OP 1219C in Part 1.
OP 1389	Demolition Firing Device Mk 12 Mod 0	4 Jul 45	R	
#OP 1178	Demolition Material (Firing Device)	8 Dec 44	R	
OTI A2-44	Demolition Firing Device Mk 1	12 Jan 44	R	Issued with TM9-1940 and FM5-30.
OP 1362	Demolition Firing Device Mk 1 Mod 1 (Preliminary)	Nov 1944	R	Supersedes OTI A5-44.
OHI A4-44	Demolition Firing Device Mk 3	14 Mar 44	R	Supersedes OHI A1-44.
OP 1484	Demolition Firing Device Mk 10 Mods 0, 1, 2, and 3—Description and Instructions for Use	25 Jun 45	R 1st rev.	
OP 1390	Demolition Firing Device Mk 13 Mod 0 (Preliminary)	5 Jul 45	R	
OP 1219E	Ammunition Code Catalog Class E, Demolition Material (Arming and Firing Device)	20 Jul 45	R 1st rev.	See remarks for OP 1219E in Part 1.

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DEVICES				
OP 1330.....	Mine Disposal Handbook.....	1 Nov 44	C	Accountable. Distribution limited to Mine Disposal Personnel
OP 1601.....	Demolition Firing Device Mk 15 Mod 0 (<i>Preliminary</i>)..	21 Aug 45	R	
OP 888.....	Mines Mk 6 and Mods, Description and Instructions for Assembling, Handling and Planting	13 Feb 45	R	1st rev. See remarks for OP 888 in Part 1
OD 1922.....	Electric Test of K-2 Mod 1 Mine Firing Device.....	23 Apr 33	R	
OD 3731.....	Mirror Tilting Device (<i>for B.S.</i>).....	6 Nov 41	R	With Change 1 dated 9 Jul 45
OP 1177.....	Surface Pyrotechnics and Projectors (<i>Firing Devices</i>)..	19 Jan 45	R	See remarks for OP 1177 in Part 1
DIAGRAMS				
OD 2077.....	3"/50 Anti-Aircraft Deflection Diagram.....	7 Sep 33	R	
DIRECTORS				
See also	FIRE CONTROL			
	SELSYNS			
Directors, Attack				
*OP 1646.....	Attack Director Mk 4 and Mods.....		R	
Directors, Bomb				
OP 1306.....	Bomb Director Mk 1 Mod 0 (AN/ASG-10(XN))— Description and Instructions for Use	6 Apr 45	C	
Directors, Dummy				
OD 3105.....	Instruction Book for Dummy Director and Error Recorder	23 Jun 38	R	
OD 3143.....	Instruction Book for Dummy Director Mk 1 Mod 1 and Error Recorder Mk 1 Mod 1 Dummy Director Mk 1 Mod 2 and Error Recorder Mk 1 Mod 2	17 Feb 41	R	Rev E
OD 4166.....	Instruction Book for Dummy Director Mk 1 Mod 3 and Error Recorder Mk 1 Mod 3	15 Mar 44	R	Rev A
OD 4600.....	Dummy Director Mk 2 Instruction Pamphlet Operation and Maintenance	4 May 43	D	
OD 4708.....	Principle of Operation and Instruction Book for Electro-Mechanical Director Dummy Director Mk 3	14 Apr 44	D	
OD 4704.....	Principle of Operation and Instruction Book for Electronic Dummy Director Mk 4	13 Apr 44	D	
*OD 5488.....	Instruction Book for Dummy Director Mk 4 Mod 1.....		R	
Directors, Gun				
OD 3147.....	Defense Against Dive Bombers Using Gun Directors Mk 19, Mk 28, Mk 33 and Mk 37	14 Sep 39	R	Rev A
*OP 1552.....	Gun Director Catalog.....		R	
Directors, Gun Mk 1-4				
OP 393.....	Director Firing Installations U.S. Navy Type Includes Directorscopes Mk 1 to 4	Aug 1918	R	
Directors, Gun Mk 7-8				
OP 392.....	Director Firing Installation Vickers Type Directorscopes Mk 7 and Mk 8	May 1923	R	

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Directors, Gun Mk 18				
OP 110.....	Gun Director Mk 18 and 18 Mod 1 for 8" Twin Mounts (Director Firing Installation, Arma Type) for CVs 2 and 3	Oct 1927	R	Supersedes ODs 895, 896, and 897
Directors, Gun Mk 20				
OD 888.....	Gun Director Mk 20 and Mk 20 Mod 1 General Description and Instructions for Installation (<i>Preliminary</i>)	14 Oct 26	D	
OD 660.....	Gun Director Mk 20 Mod 2 Description, Installation and Adjustment	20 Jan 30	D	Rev A
OD 662.....	Gun Director Mk 20 Mod 4 Description, Installation and Adjustment	22 Aug 30	D	Rev A
Directors, Gun Mk 21				
OD 664.....	Gun Director Mk 21 Mod 1 Description, Installation and Operation	5 Mar 31	D	
OD 665.....	Gun Director Mk 21 Mod 2 Description, Installation and Operation	26 Mar 31	D	
OD 696.....	Gun Director Mk 21 Mod 3 Description, Installation and Operation	6 Aug 34	D	
OD 1785.....	Description of Target Bearing Transmitter Element for Gun Director Mk 21 Mod 3 Main Battery Fire Control System	15 Jun 33	D	2nd rev
OD 1791.....	Description of Gun Director Mk 21 Mod 3 (Director Correction Transmitter Element) Main Battery Fire Control System	15 Jun 33	D	3rd rev
Directors, Gun Mk 23				
OD 666.....	Gun Director Mk 23 Description, Installation and Adjustment	25 Mar 31	D	Rev A
OD 667.....	Gun Director Mk 23 Mod 1 Description, Installation and Adjustment	16 Apr 31	D	
Directors, Gun Mk 24				
OD 1759.....	Description of Gun Director Mk 24 Main Battery Fire Control System	12 Sep 31	R	3rd rev
OD 1760.....	Description of Gun Director Mk 24 Mod 1 Main Battery Fire Control System	12 Sep 31	R	3rd rev
OD 3892.....	Instructions for Conversion of Gun Directors Mk 24 Mods 0 and 1 to Mk 24 Mods 2 and 3 (CAs 26-31)	13 Apr 42	R	2nd rev
OD 3885.....	Description of Gun Directors Mk 24 Mods 2 and 3 (CAs 26-31) Gun Director Mk 24 Mods 4 and 5 (<i>Ordnance Ship No 1</i>)	4 Dec 41	R	3rd rev
Directors, Gun Mk 29				
OD 2180.....	Fire Control Equipment Gun Directors Mk 29 Mod 1 and Mk 30 (Stable Vertical)	11 Aug 33	R	
Directors, Gun Mk 30				
OD 2296.....	Gun Director Mk 30 (Stable Vertical)	28 Jun 35	R	
OD 2649.....	Gun Director Mk 30 Mod 1 (Stable Vertical)	24 May 34	R	
OD 2661.....	Fire Control Equipment Gun Director Mk 30 Mods 2 and 3	21 Feb 40	R	Rev B
OD 2461.....	Description of Gun Directors Mk 30 Mod 8 and Mk 31 Mod 9—Main Battery Fire Control System	7 Apr 45	R	2nd rev

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Directors, Gun Mk 31				
OD 1816.....	Description of Gun Director Mk 31 and Mk 31 Mod 1 Main Battery Fire Control System	30 Jun 33	R 7th rev	
OD 2456.....	Description of Gun Directors Mk 31 Mod 2 and Mk 31 Mod 7 (Main Battery Fire Control System)	30 Jun 34	R 9th rev	
OD 2457.....	Description of Gun Directors Mk 31 Mods 3, 4, 5 and 6 (Secondary Battery Fire Control System)	30 Jun 33	R 3rd rev	
OD 2461.....	Description of Gun Directors Mk 30 Mod 8 and Mk 31 Mod 9—Main Battery Fire Control System	7 Apr 45	R 2nd rev	
OD 2501.....	Description of Gun Directors Mk 31 Mod 10 and Mk 31 Mod 11 Main Battery Fire Control System	24 Jan 35	R	
OP 1399.....	Gun Director Mk 31 Use and Operation of Pointer's Level Indicator (Preliminary)	22 Dec 44	R	
Directors, Gun Mk 32				
OD 2557.....	Gun Directors Mk 32 and Mk 32 Mods 1, 2, 3, 4.....	16 Nov 44	R 4th rev. With Change 1 dated 9 Jul 45	
Directors, Gun Mk 33				
OD 2821.....	Gun Directors Mk 33 Procedure for Reassembling Adjusting and Checking Collimation of Gun Directors After Modification of Rangekeepers Mk 10 Mod 8 for Improvement on Dynamic Accuracy (DDs 380, 382, 384-393)	5 May 38	R	
OD 3161.....	Design Specification for Director Control Mechanism for Mk 33 Directors	23 Dec 42	R	
OD 3169.....	Instruction Book for Director Hydraulic Control Mechanism Mk 1 for Gun Director Mk 33 and Rangekeeper Mk 10	7 Jul 43	R Rev B	
OD 4175.....	Instructions for Installation of Metering Valve Block for Gun Director Mk 33 Training and Elevating Hydraulic Control Mechanism	20 Sep 41	R	
OD 2682.....	Optical Alignment, Adjustment and Testing of Gun Directors Mk 33 and Mods	3 Feb 36	R	
OD 4644.....	Gun Director Mk 33 and Mods Installation Instructions..	9 Oct 43	R	
OP 573.....	Director Firing Installations—AA Battery—(Synchro Type)—Gun Director Mk 33 and Mods 1 to 8—Detail Description	Undated	R 1st rev. Supersedes OD 2091	
OD 4727.....	Operational Tests of Gun Director Mk 33 Mod 5 Serial No 20 with Shield Mk 10, Mounted on Tilting Platform Mk 1 Mod 1 Installed on <i>Navy Barge</i> YC301 at Navy Yard Washington, D C	28 Jul 44	R	
OD 4786.....	Gun Director Mk 33 Mod 5 with Shield Mk 10—Test of Deck Tilt Computer	30 Apr 45	R	
OD 3330.....	Gun Directors Mk 33 Mods 5 to 10 incl (DDs 364-379, 380, 382, 384-393, 397-408, CVs 5-7, CLs 40-43, 46-50, CAs 44-45) Acceptance Tests of Electric Hydraulic Drive Type A Mod 2 After Installation Aboard Ship	24 May 37	R	
OD 2907.....	Gun Director Mk 33 Mod 8 Instructions for Connecting Gun Director Mk 33 Mod 8 and Rangekeeper Mk 10 Mod 20 to Stable Element Control Panel Mk 3 Mod 1 and Sperry Step-by-Step from the Gyro Compass	Undated	R	
OD 3552.....	Gun Directors Mk 33 Mods 11 and 12 Training Gear Electric Hydraulic Drive (Type A-3) Instructions for Installation, Adjustment, Operation and Repair for Electric Hydraulic Equipment for Gun Directors Mk 33 Mods 11 and 12	5 May 41	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Directors, Gun Mk 33				
OD 3674.....	Report of Tests Gun Director Mk 33 Mods 11 and 12 with Ford Automatic Elevating and Training Hydraulic Control Mechanism	6 Aug 41	R*	
OD 5267.....	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for Gun Director Mk 33 Mods 14 to 33 incl Training Gear Electric Hydraulic Drive	9 Oct 44	R, Rev A	With Addendum dated 29 Jun 44
Directors, Gun Mk 34				
OP 658.....	Fire Control Radar Mk 8 Type FH Operation	Jan 1943	C	
*OD 4658.....	USS MONTPELIER (CL 57) Main Battery and AA Directors and 6"/47 cal Turrets Report of Vibration Tests Gun Directors Mk 34 and 37 and 6"/47 cal Turrets			
*OP 1057.....	Gun Directors Mk 34 and Mods			
OD 3933.....	Description of Follow-the-pointer Cross Level Indicator Unit to be added to Existing Mk 34 Gun Directors Mods 0 and up, CAs, CLs, BBs	3 Feb 45	D	
OD 3932.....	Instructions for the Addition of a Level Designation Transmitter to Gun Director Mk 34 Mods 0 and 1, CLs 40, 41, 42, 43, 46, 47, 48	15 May 45	D 1st rev	
OD 2539.....	Description of Gun Directors Mk 34 and Mk 34 Mod 1 Description with Shield Mk 5	19 Dec 39	R 15th rev	
OD 3868.....	Description of Rangefinder Stabilizer Mk 3 Mod 5 for Gun Directors Mk 34 and Mk 34 Mod 1 (Shield Mk 5) for CLs 40-43, 46-48	15 Mar 42	R 5th rev	
OD 2547.....	Description of Gun Directors Mk 34 Mod 2 and Mk 34 Mod 3 CA 44	15 Nov 37	R 7th rev	
OD 3215.....	Description of Gun Directors Mk 34 Mods 4 and 5 Including Shield Mk 1 (CA 45)	Undated	R 3rd rev	
OD 3905.....	Description of Rangefinder Stabilizer Mk 3 Mod 6 and Elastic Supports for Gun Directors Mk 34 Mods 4, 5, 6 and 7 (Shield Mk 1) for CA 45, CLs 49 and 50 and for Gun Directors Mk 34 Mods 8-11, 14-18 (Shield Mk 7) for CLs 55-58 incl 60, 62-67 incl 80-83 incl 86, 87, 89-94 incl 103-111 incl CAs 68-75 incl BBs 43, 44 and 48	22 Nov 43	R 5th rev	
OD 2666.....	Director Train Control (Power Drive Equipment) for Gun Director Mk 34 Mods 6 and 7	19 Jul 39	R Rev A	
OD 3220.....	Description of Gun Directors Mk 34 Mods 6 and 7, Including Shield Mk 1 (CLs 49 and 50)	18 Jan 40	R 3rd rev	
OD 3909.....	Description of Modifications of Gun Directors Mk 34 Mods 8 and up	15 Mar 45	R 1st rev	
OD 3930.....	Gun Director Mk 34 Mods 8 and up Instructions for care in Storage	24 Jul 44	D	Supplements OD 3900
OD 3900.....	Description of Gun Directors Mk 34 Mods 8-11, 16-19	27 Sep 44	R 5th rev	Supplemented by OD 3930
Directors, Gun Mk 35 and Mk 36				
OD 3366.....	Description of Circuits and Units with Instructions for Adjustment, Operation and Repair for Gun Director Mk 35 Electric Hydraulic Equipment	20 Jul 38	R Rev A	
OP 857.....	Gun Director Mk 35 and Mk 36 with Associated Fire Control Equipment, Description (Preliminary)	Jan 1942	R	Supersedes OD 3319

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Directors, Gun Mk 37				
OP 756A.....	Gun Director Mk 37—Alignment and Adjustment Procedure Aboard Ship	14 Jul 43	R	See remarks for OP 756A in Part I
OP 1061.....	Director Control Mechanisms for Gun Director Mk 37 (Arma Contact Type)	Mar 1945	R	Supersedes ODs 2576, 2584, and OTI F4-44, 2002, GO
OD 3415.....	Report of Tests Change of Range Receiver Mk 1 Gun Director Mk 37	12 May 39	R	
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type)—Description, Operation, and Maintenance	1 Aug 44	R	See remarks for OP 1062 in Part I
OD 3912.....	Director Control Mechanism for Gun Director Mk 37 Instructions for Care in Storage	Undated	D	Supplements OD 3901
OD 4691.....	Tests of Gas Seal for Gun Director Mk 37.....	21 Feb 44	R	
OD 4693.....	Installation, Adjustment and Maintenance of Power Control Head Collector Rings and Contacts for Director Control Mechanism for Gun Director Mk 37 Train Receiver Regulator Mk 7 and Mods Elevation Receiver Regulator Mk 6 and Mods Cross Level Receiver Regulator Mk 3	20 Apr 44	R	
OTI F1-43....	Computer Mk 1 and Mods Disarrangement of Elevation Gear Train	23 Mar 43	R	
OP 756.....	Gun Director Mk 37 and Mods for Ships Having 5"/38 DP Guns	Apr 1941	R	Issued with OP 756A. Will be superseded by OP 1060
*OP 1060.....	Gun Director Mk 37 and Mods.....			
OD 3411.....	Gun Director Collimator Mk 4 (Shop Use) For Gun Director Mk 37 and Modifications Direction and Operation	9 Mar 39	R	
OD 4421.....	Gun Directors Mk 37 and Mods Part 2 Installation Instructions	8 Feb 44	R	
OD 4775.....	Gun Director Mk 37 Mods, Report of Test on 1/4" and 3/4" Dia Flexible Shafts between the Change of Range Receiver and Rangefinder	30 Mar 45	R	
OD 3370.....	Director Control Mechanisms for Gun Directors Mk 37 and Mk 37 Mod 1 for DDs 409 to 428	1 Aug 41	R	Rev C
OD 2584.....	Gun Directors Mk 37 Mods 2 to 15; 18, 19, 22, 24, 25, 26 and 32 Director Control Mechanism	24 Aug 42	R	Rev B. Issued with OTI F4-44
OD 3537.....	Report of Tests and Inspection Gun Director, Mk 37 Mod 4 Director Control Mechanism	22 Jul 40	R	
OD 4776.....	Gun Director Mk 37 Mod 53 with Radar Antenna Mount Mk 12 Mods 4, 6, and 9 and Radar Equipment Mk 12 and Mk 22, Vibration and Error Tests	13 Mar 45	R	
OD 4634.....	Report of Tests and Inspection Gun Director Mk 37 Mod 57 Director Control Mechanism with Amplidyne Drive	6 Jun 44	R	Rev A
Directors, Gun Mk 38				
OP 658.....	Fire Control Radar Mk 8 Type FH Operation.....	Jan 1943	C	
OP 810.....	Fire Control Equipment Gun Director Mk 38 and Mk 38 Mods 1 and 5 With Associated Fire Control Equipment Description BBs 55-60 (Preliminary)	Oct 1942	R	1st rev
OD 2346.....	Instructions for Adjustment and Testing Amplidyne Train Control System for Gun Director Mk 38	8 May 42	R	
OD 2851.....	Report of Tests and Inspection of Gun Director Mk 38 Automatic Control Equipment	7 Jun 39	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Directors, Gun Mk 38				
*OD 4724.....	Vibration Data of Elastic Supports for After Main Battery Gun Director Rangefinder <i>USS WASHINGTON</i> (BB 56) Gun Director Mk 38			
OD 3908.....	Description of Rangefinder Stabilizer Mk 3 Mod 8 for Gun Director Mk 38 (any Mod) Shield Mk for BBs 55 to 66 incl and CBs 1 and 2	25 Sep 43	R 2nd rev	
*OD 4654.....	<i>USS NORTH CAROLINA</i> (BB 55) Main Battery Directors and 16" Turrets Report of Vibration Tests Gun Directors Mk 38 Mods and 16"/45 cal Turrets			
*OD 4655.....	<i>USS WASHINGTON</i> (BB 56) Main Battery Directors and 16" Turrets Report of Vibration Tests Gun Directors Mk 38 Mods and 16"/45 cal Turrets			
OD 2339.....	Gun Director Mk 38 and Mk 38 Mod 1 for BBs 55 to 60 Installation Instructions	5 Mar 41	R	
OD 3867.....	Description of Director Control Mechanism for Gun Directors Mk 38 and Mk 38 Mods 1 to 5	7 Nov 42	R 5th rev	
Directors, Gun Mk 39				
OD 2653.....	Anti-Aircraft Fire Control Instruments for <i>USS VIN-CENNES</i> CA 44 Gun Director Mk 39	22 Aug 38	R	
Directors, Gun Mk 40				
OP 812.....	Gun Director Mk 40 BBs 55-66 (Preliminary) Description	Apr 1943	R 1st rev	
OD 2343.....	Gun Director Mk 40 for BBs 55 to 60 Installation Instructions	15 Jan 42	R	
Directors, Gun Mk 41				
OP 810.....	Fire Control Equipment Gun Director Mk 38 and Mk 38 Mods 1 and 5 With Associated Fire Control Equipment Description BBs 55-60 (Preliminary)	Oct 1942	R 1st rev	
*OP 1170.....	Gun Director Mk 41 (Stable Vertical)			
OD 2600.....	Gun Director Mk 41 (Stable Vertical)	16 Sep 42	R Rev B	
Directors, Gun Mk 43				
OD 3869.....	Description of Gun Director Mk 43 (Stable Vertical and Stable Vertical Control Panel Mk 9) BBs 57-60	11 Mar 43	D 3rd rev	
*OP 1653.....	Description of Gun Director Mk 43 (Stable Vertical and Stable Vertical Control Panel Mk 9) BBs 57-60		R	
Directors, Gun Mk 50				
OP 1067.....	Gun Director Mk 50 and Mods—Vol 1—Theory (Preliminary)	Mar 1945	R Issued only on Bureau approval. Supersedes OD 2560	
OP 1067.....	Gun Director Mk 50 and Mods—Vol 2—Operation, Tests, and Maintenance (Preliminary)	May 1945	R	
Directors, Gun Mk 51				
OD 4424.....	Gun Director Mk 51 Mod 2—Operator's Manual	Mar 1944	R With Change 1 dated 19 Feb 45, Change 2 dated 4 Jun 45	
OP 1119.....	Gun Director Mk 51 Mod 3—Operator's Manual	22 Jul 45	R With Change 1 dated 24 Aug 45	
OTI F9-44....	Gun Director Mk 51 Mod 3 Removal of Fuses	10 Jun 44	R	
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 45	R See remarks for OP 1233 in Part 1	

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Directors, Gun Mk 52				
OP 1097.....	Gun Director Mk 52 Mods 2 and 3, Description, Operation, and Maintenance (<i>Preliminary</i>)	Oct 1944	R	1st rev. See remarks for OP 1097 in Part 1
*OD 4371.....	Overhaul Manual for Gun Director Mk 52.....			
Directors, Gun Mk 54, Mk 55 and Mk 57				
*OP 1352.....	Gun Director Mk 54.....			
OP 1122.....	Gun Director Mk 55 Mod 0.....	30 Jul 45	R	
*OP 1323.....	Gun Fire Control System Mk 57 Mod 1 Gun Directors Mk 57 (<i>Preliminary</i>)			
OP 1323A....	Gun Fire Control System Mk 57—Maintenance—(Less Radar Equipment)	25 Jul 45	R	See remarks for OP 1323A in Part 1
Directors, Torpedo				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OD 3718.....	Torpedo Sight and Director.....	Undated	R	
OD 2878.....	List of Telescopes Sights and Mounts for 3-Pdr, 6 Pdr, 3"/23, 3"/50, 4"/50, 5"/50, 5"/38, 5"/51, 6"/50 and 6"/53 Guns Telescopes for Torpedo Tube Sights Mk 1, Mk 1 Mod 1, Mk 2 and Torpedo Directors Mk 25, 25 Mod 1 and Mk 27 and Mods	27 Feb 42	R	Rev A
OD 2165.....	Torpedo Tube Train Order Transmitter and Torpedo Target Bearing Transmitter for Torpedo Director Mk 26 CAs 33 and 35	Nov 1930	C	
*OP 1586.....	Torpedo Director Mk 27 and Mods.....		R	
OP 585.....	Torpedo Director Firing Installation (Synchro Type)—Description—Mk 27 and Mk 27 Mods 1 to 5	Jun 1941	R	2nd rev. Issued with OCL F4-43
OD 4410.....	Data for Use with Torpedo Directors Mk 28 and Mk 28 Mod 2 in the Launching of Torpedoes Mk 13, 13 Mod 1 and 13 Mod 2	4 Jun 42	R	Amended by OCL FV6-43
OP 982.....	Aircraft Torpedo Director Mk 30.....	May 1943	R	Supersedes OD 3792 Issued with OTI FV2-44
OTI FV12-43.	Sight Illuminated Mk 8 and Mods and Torpedo Director Mk 30 and Mods Repair of Damaged Lamp Housing	11 Oct 43	R	Issued with OP 803
OTI FV2-44...	Torpedo Director Mk 30 and Mods Adjustable Reflector	18 Feb 44	R	Issued with OCL V23-43 and OP 982
OMI V1-44....	New Type Lamps for Illuminated Sights Mk 8 and Mods Torpedo Director Mk 30 and Mods and Illuminated Sights Mk 9 and 24 Volts Mods	5 Jan 44	D	
OP 983.....	Torpedo Director Mk 31 Description and Instructions for Use	May 1943	R	Supersedes OD 4456
*OP 1432.....	Torpedo Director Mk 33 (<i>Preliminary</i>)			
DISCHARGERS See PYROTECHNICS				
DISTRIBUTORS, STATION				
OP 1157.....	Rocket Ammunition, 375 and 570 Aircraft Rockets (375 Motor)—Description and Instructions for Use	23 Mar 45	R	1st rev. See remarks for OP 1157 in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Type SD-1</i>)...	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OD 4547.....	SD-1 Station Distributor—Operation and Service Instructions	1 Aug 43	R	
OTI V23-43...	Distributor, Bomb Station Type SD-1.....	14 Jun 43	R	

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DISTRIBUTORS, STATION				
OMI V28-44...	Station Distributors Mk 3 Mods 0 and 1—Replacement of Guard for "ON"—"OFF" Switch	20 Nov 44	D	
OHI V7-44...	Station Distributor Mk 3 and Mk 3 Mod 1	10 Jul 44	R	Supersedes OHI V2-44
OP 1106.....	Station Distributor Mk 3 Mods 0, 1, and 2	13 Oct 44	R	Issued with Change 1 dated 5 Apr 45. Now issued by BuAer, NAVAER No 11-10-501
OMI V7-45...	Conversion of Station Distributors Mk 3 Mod 0 and Mk 3 Mod 1 to Mk 3 Mod 2	7 Apr 45	D	
OMI V17-45...	Station Distributor Mk 5 Mods 0 and 1—Replacement of Lead Wire No 50 and-Clare Output Relay Mounting Screws	10 Sep 45	D	
OP 1474.....	Station Distributor Mk 5 Mods 0 and 1	23 May 45	R	Supersedes OHI V2-45. Now issued by BuAer, NAVAER No 11-10-503
DOTTERS				
OP 440.....	5" Dotter Mk 10 Description	Feb 1914	D	
DRAWINGS				
#OP 599.....	Ordnance Drafting Room Regulations	Aug 1939	D	1st rev. Issued with OCL X5-43
DRIFT TABLES See TABLES DRIFT				
DRILLS				
OD 2813.....	6"/47 cal Triple Gun Mount Instructions for Loading Drill (Tentative)	22 Apr 37	R	
DRIVES				
See also	HYDRAULIC POWER EQUIPMENT			
OP 1122.....	Gun Director Mk 55 Mod 0 (Train and Level Drive)...	30 Jul 45	R	
OD 2902.....	The Alden Type Dynamometer Applied to Testing of Power Drives for Ordnance Equipment	20 May 43	D	Rev A
OD 3363.....	Train, Elevation and Cross Level Power Drive Equipment for Gun Director Mounts Mk 1 and Mk 1 Mod 1	31 Jul 40	R	Rev A
OD 5267.....	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for Gun Director Mk 33 Mods 14 to 22 incl Training Gear Electric Hydraulic Drive	9 Oct 44	R	Rev A. With Addendum dated 29 Jun 44
OD 5269.....	Navy Single 40-mm Gun Mount—Maxson Electric Drive	Undated	C	
OD 5487.....	Description of Maxson Electric Drive for Navy 40-mm Mount Mk 1	Undated	C	
OD 4806.....	Report of Test and Inspection of Power Drive Mk 4 Using Synchro Control Transformers Type ICT Mod 2, Type ICT Mk 5 Mod 3A, and Type ICT Mk 5 Mod 4	10 May 45	R	
OD 4783.....	Report of Test and Inspection Rocket Launcher Assembly Mk 102 Mod 0 Equipped with Power Drives Mk 4 Mod 3, Manufactured by General Electric Co; and Rocket Hoist Mk 1 Mod 0 Manufactured by Vickers Inc	19 May 45	R	
OD 1712.....	Preliminary Description and Operation of Antenna Train Drive Mk 1 and Mk 1 Mod 1	29 Apr 43	R	Rev A. With Change 1 dated 9 Jul 45

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DRIVES				
OD 4264.....	Antenna Pedestal and Associated Apparatus for Navy Model FC Radar Equipment	21 Apr 41	R	
OP 989.....	Antenna Train Drive Mk 3	21 Sep 44	R	
OD 3923.....	Description of Antenna Train Drive Mk 5 (Preliminary)	1944	R	
*OP 1551.....	Antenna Train Drive Mk 7 Mods 2 and 3 for Use with Radar Equipment Mk 8 Mods 2 or 3 or Radar Equipment Mk 13		R	
OP 865.....	Aviation Ordnance Equipment Catalog (Electric Turret and Hydraulic Drives)	4 May 44	R 2nd rev	See remarks for OP 865 in Part 1
OMI V22-45..	Reel Drive (Electric) Mk 3 Mods 0 and 1	14 Nov 45	D	
OD 4236.....	Instructions for Installation and Operation of Selector Drive Mk 1	5 Jan 43	D	
OD 4243.....	Instructions for Installation and Operation of Selector Drive Unit for Range Keeper Mk 10 Mods	13 Jun 44	R	
OD 2109.....	Test Report Summary, Train Power Drive Mk 31 Mods 0 and 1, Elevation Power Drive Mk 31 Mods 0 and 1—Parts 1 and 2 and 3	9 Nov 45	R	
OD 4196.....	Summary of Routine Tests—Power Drive Equipment Mk 1 Mods 0, 1, 2 for 171 Mount Mk 2 Mod 3	18 Aug 42	R Rev A	
OD 5118.....	Installation of Synchro Test Unit for use with Train Traverse and Elevation Power Drives Mk 1 Mods 0, 1, 2 Train and Elevation Power Drives Mk 1 Mods 0, 1, 2 (Preliminary)	27 Nov 43	R	
*OD 4237.....	Train and Elevation Power Drives Mk 2 Mods 0, 1, 2 Installation Instructions for 1710 Mounts Mk 2 Mod 4			
*OD 4471.....	Report of Non-Firing Tests of Automatic Control 40-mm Mount Mk 1 Mod 2 (Twin Equipped with Ford Inst Power Drive)			
*OD 4763.....	Type Approval Tests of 40-mm Single Mounts Mk 3 Mod 3 with Power Drives and Control furnished by W L Maxson Corp Both with Heavy and Light Power Drives Control			
OD 4208.....	Installation Instructions for Power Drives Mk 2 Mods 0, 1, 2 on 40-mm Mount Mk 1 Mod 1	23 Jun 42	R	
OP 821A.....	Train Power Drive Mk 4—Elevation Power Drive Mk 4—40-mm Mount Mk 1 Mod 2 and 171 Mount Mk 2 Mod 6	18 Oct 45	R	Supersedes OD 3906
*OP 821B.....	Train Power Drive Mk 4, Elevation Power Drive Mk 4, 40-mm Mount Mk 1 Mod 2, and 171 Mount Mk 2 Mod 6			
OD 4472.....	Preliminary Test Report of Non-Firing Type Approval Tests at Normal Temperatures on 40-mm Mount Mk 1 Mod 2 (Twin) Equipped with General Electric Power Drive Mk 4	28 Apr 43	R	
OD 4690.....	Power Drive Mk 5 Manufactured by York Safe and Lock Co Trouble Shooting 40-mm	22 Jan 44	R	With Change 1 dated 16 Dec 44
*OD 4706.....	Report of Temperature Rise Tests on 5-B Synchro in Power Drive Mk 5 Mod 0 on Mount No 378			
OTI G33-43...	Train and Elevation Power Drives Mk 5 and Mods Train Power Drive Mk 6 Mod 3 Attachment of Synchro Adjusting Specification Numbers	5 Oct 43	R	Issued with OD 4408

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
DRIVES				
OD 4489.....	Summary of Routine Navy Tests Under Non-Firing Conditions on Power Drives Mk 5 Mod 0 and 6, for 40-mm Quad Mounts together with Summary of Test Data Supplied by Vickers Covering Routine Tests of Hydraulic Equipment Listing Maximum and Minimum Values Found in each Test	23 Jul 45	R Rev F	
OD 4408.....	Pamphlet for 40-mm Power Drive System Mk 5 Mods 0 to 8	15 Mar 43	R Rev B	Issued with Change 1 dated 28 Jun 45 and OTI G33-43
*OD 4473.....	Report of Non-Firing Tests of Automatic Control 40-mm Mount Mk 1 Mod 6 (Twin) Equipped with York Safe and Lock Power Drive Mk 5 Mod 3			
OD 4538.....	Summary of Routine Navy Tests Under Non-Firing Conditions on Power Drives Mk 5 Mod 3 for 40-mm Twin Mounts together with Summary of Test Data Supplied by Vickers Covering Routine Tests of Hydraulic Equipment Listing Maximum and Minimum Values Found in Each Test	Apr 1945	R Rev D	Including Amendments 1-4 Incl
OD 5364.....	Type Test Report Train and Elevation Power Drive Mk 5 Mods 3, 4 and 5 for Twin Mounts and Elevation Power Drive Mk 5 Mods 0, 1 and 2 for Quad Mounts	25 May 44	R	
OP 1550.....	Naval Gun Factory Amplifier for 40-mm Power Drives Mk 5 and 6 (Preliminary)	31 May 45	R	
OTI F6-44....	Power Drives Mk 5 and 6 5T4 Rectifier Tubes in Amplifier Unit	6 Jun 44	R	
OTI G19-44...	Train and Elevation Power Drive Mk 5 and 6 (For 40-mm Mounts Mk 1 and 2) Elimination of Selenium Rectifier Units from Handle Control	16 Oct 44	R	Supersedes OTI G15-44
*OD 4475.....	Report of Non-Firing Test of Automatic Control 40-mm Mount Mk 2 Mod 2 (Quad) Equipped with York Safe and Lock Power Drives Train Power Drive Mk 6 Heavy Train Power Drive			
*OP 1329.....	40-mm Quad Mount Mk 4 and Power Drive Mk 9.....			
OP 1289.....	40-mm Mount Mk 3 Mod 4; 40-mm Train and Elevation Power Drives Mk 10 Mods 0, 1, and 2	28 Aug 45	R	
*OD 4772.....	Test of 40-mm Gun Mounts Mk 3 Mod 4 Serial No 4389 and 40-mm Mount M2 (Army) Serial No 21110 with MIT Controls			
*OD 4780.....	Report of Tests and Inspection of Synchro Coercion Data (Army 5D) for 40-mm Power Drive Mk 10 Mods 0, 1, and 2			
OD 4635.....	Instruction Book Data for Electric-Hydraulic Equipment for 100-mm Training and Elevating Gear Power Drive	22 Jun 43	D	
*OD 4833.....	Type Approved Tests of 3"/50 cal Mount Mk 26 Fitted with Arma Power Drive Mk 31 Mod 0		R	
OP 1199.....	Train Power Drive Mk 31 Mods 0, 1, and 2 and Elevation Power Drive Mk 31 Mods 0, 1, and 2 (Preliminary) (3"/50)	3 Jul 45	R	
#OP 805.....	5"/38 cal Twin Gun Mounts, AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2; Description and Instructions (Power Drives)	Feb 1942	R	See remarks for OP 805 in Part 1
OP 1066.....	Electric Hydraulic Drives and Indicator Regulators for 5"/38 cal Single Mount Elevating and Training Gears	19 Jun 45	R	Supersedes ODs 3897 and 3902

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
DRIVES				
OP 1103.....	Electric Hydraulic Gun Drives for 5"/38 cal Dual Purpose Mount	Jan 1945	R	Supersedes OD 4187
*OD 3346.....	Elevating and Training Gear Drives Mk 2 for 5"/38 Caliber Mount Mk 22			
OD 3361.....	Description of Circuits and Units with Instruction for Adjustment, Operation, and Repair for 5" Projectile Hoist Mk 1 and Mk 1 Mods 1 to 7 Incl; 5" Powder Hoist Mk 1 and Mk 1 Mods 1 to 7 Incl; 38 cal Twin Mount—Electric Hydraulic Drive	1 Jun 38	R	
OP 1027A.....	5" Train Power Drive Mk 14 Mod 0 and 5" Elevation Power Drive Mk 14 Mod 0 (Preliminary) (5"/54)	Jul 1945	R	Used with OP 1027
OD 4058.....	Electric Hydraulic Equipment for 5"/38 cal Twin Rammer Drives	22 Jun 44	R	
*OD 4551.....	5"/38 cal Twin Mount Rammer Drives.....			
OD 4677.....	Test of Wormwheel Drives for Elevating Gear 5"/38 Twin Mount Straight Worm VS Cone Worm	21 Mar 44	R	
OD 4694.....	Test of Training Gear Pinion Drive for 5"/38 Single Mount	6 Mar 44	R	
OD 5319.....	Routine Test Data for Power Drives for 5" Projectile Hoist Mk 4 Mods 6, 7, 10, 11, 5" Powder Hoist Mk 4 Mods 6, 7, 10, 11 (38 cal Twin Mount Mk 28 and Mk 32) Electric Hydraulic Equipment	15 Dec 43	R	
OD 5337.....	Routine Test Data Power Drives for 5" Projectile Hoist Mk 2 Mod 1 for 5"/38 cal Mount Mk 30 Electric Hydraulic Equipment	14 Jan 44	R	
OD 5350.....	Routine Test Data Power Drives for 5" Projectile Hoist Mk 4 Mods 10 and 11 5" Powder Hoist Mk 4 Mods 10 and 11, 5"/38 cal Twin Mount Mk 32	24 Feb 44	R	
OP 1027A.....	5" Train Power Drive Mk 14 Mod 0 and 5" Elevation Power Drive Mk 14 Mod 0 (Preliminary) (5"/54)	Jul 1945	R	Used with OP 1027
OD 4762.....	Report of Test of 5"/54 cal Pilot Powder Hoist Mk 6 and Projectile Hoist Mk 6 and Vickers Inc Electric Hydraulic Power Drive Equipment	27 Dec 44	R	
OD 5330.....	Routine Test Data Power Drives for 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11, 6"/47 cal Triple Turret	6 Jan 44	R	
OD 5762.....	Test Data Summary 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2; 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 cal Triple Turrets) Electric Hydraulic Drives	1 Jan 45	R	
OD 4714.....	Routine Test Data—Power Drives for 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3—Electric Hydraulic Equipment	21 Feb 44	R	
*OD 3306.....	Electric Hydraulic Drive for 8" Powder Hoist.....			
OD 3463.....	Control Tests with 8" Training Gear Drive Conducted at Naval Gun Factory.	26 Mar 42	D	
OD 5320.....	Routine Test Data Power Drives for 8" Lower Powder Hoist Mk 33 Electric Hydraulic Equipment	15 Dec 43	R	
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM and HAWAII (Preliminary)	25 Oct 44	R	
OP 769.....	16" Triple Gun Turrets—Main Armament for USS IOWA Class (BBs 61-66)—16"/50 cal (Preliminary)	Jun 1943	R	See remarks for OP 769 in Part I
*OD 4557.....	16"/50 cal Elevating Gear Drives			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
DRIVES				
OD 4784.....	Special Accelerated Life Test of 16" Elevating Gear Drive and Control (Waterbury-General Electric) in a Shop Setup Simulating Sustained Battle Firing Conditions	24 May 45	R	See remarks for OP 4784 in Part 1
OP 1424.....	Rocket Launcher Assembly Mk 102 Mod 0, Description and Instructions for Use (<i>Train and Elevation Power Drives Mk 4 Mod 3</i>)	20 Sep 45	R	1st rev. See remarks for OP 1424 in Part 1
DRYERS				
OP 888.....	Mines Mk 6 and Mods—Description and Instructions for Assembling, Handling and Planting (<i>Air Dryers</i>)	13 Feb 45	R	1st rev. See remarks for OP 888 in Part 1
OP 1219D....	Ammunition Code Catalog Classes D and U—Depth Charges and Accessories (<i>Air Dryers</i>)	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1
DYNAMITE, See AMMUNITION				
EXPLOSIVES				
DYNAMOMETERS				
OD 2902.....	The Alden Type Dynamometer Applied to Testing of Power Drives for Ordnance Equipment	20 May 43	D	Rev A
EJECTORS				
OP 833.....	6"/47 Cal Triple Turrets CL 55 Class (<i>Case Ejector Mk 1 Mods 2 and 3, Gas Ejector Mk 5 Mod 1</i>)	Jun 1942	R	See remarks for OP 833 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM and HAWAII (<i>Preliminary</i>) (<i>Case Ejector Mk 10 and 10 Mod 1, Gas Ejector Mk 10</i>)	25 Oct 44	R	See remarks for OP 835 in Part 1
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class, CAs 68-75, 122-138 (<i>Preliminary</i>) (<i>Gas Ejector Mk 15 Mod 1</i>)	Apr 1943	R	See remarks for OP 834 in Part 1
OD 2879.....	Gas Ejector Tests for 16"/45 Turrets for BBs 55-60....	21 Jun 41	R	See remarks for OP 2879 in Part 1
*OD 3398.....	Capacities of Gas Ejector Systems.....		R	See remarks for OP 3398 in Part 1
OP 1177.....	Surface Pyrotechnics and Projectors (<i>Signal Ejectors</i>)	19 Jan 45	R	See remarks for OP 1177 in Part 1
ELECTRICAL EQUIPMENT				
See also	CABLES			
	CIRCUITS			
	FIRE CONTROL			
	GUNS			
	INSTALLATION, FIRE CONTROL			
	MOUNTS			
	SELSYNS			
	SYSTEMS			
	TURRETS			
	WIRES			
OD 4675.....	Report of 2000 Ft Lb Shock Test of 64 Wire Connection Box and Fuze Box Mk 3 with Deep Drawn Steel Cases Submitted by Clark Controller Co	9 Dec 43	D	Under preparation.

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
ELECTRIC HYDRAULIC EQUIPMENT, See HYDRAULIC POWER EQUIPMENT				
ELECTRONICS				
OD 4390.....	Theory of an Electronic Hydraulic Regulator for Ordnance Equipment—Mathematical Discussion	17 Apr 42	R	See remarks for OP 865 in Part 1
ELEVATION GUN ATTACHMENTS, See ATTACHMENTS, ELEVATION GUN				
ELEVATION RECEIVERS, See RECEIVERS, ELEVATION				
ELIMINATORS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Flash Eliminator Mk 1</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OTI GV1-44..	Flash Eliminator Mk 1 for Caliber .50 BAM Guns.....	14 Feb 44	R	See remarks for OP 865 in Part 1
OD 481.....	Description of Searchlight Deflection Eliminator Mk 2..	7 Jul 22	D	See remarks for OP 865 in Part 1
EQUIPMENT, TORPEDO WORKSHOP				
*OP 1217.....	Torpedo Workshop Equipment.....			
OD 749.....	Specification of Materials Purchased Commercially for Workshop Equipment of <i>Torpedo Tenders</i> in the U.S. Navy	22 Jan 42	R	Rev E
OD 750.....	Description and Instructions for Use of Torpedo Workshop Testing Equipment and Tools	May 1942	R	1st rev. See remarks for OD 750 in Part 1
*OD 5500.....	Torpedo Workshop Equipment and Tool Catalog.....			
EQUIPMENT, TRACK LAYING				
OP 1073.....	Bomb and Torpedo Skids, Trucks and Trailers.....	29 Sep 43	R	See remarks for OP 1073 in Part 1
EQUIPMENT LISTS, ORDNANCE				
See also WEIGHTS				
OD 5647.....	Ordnance Equipment List for <i>Auxiliary Mine Layers</i> , ACM 1 Class	25 Jun 45	R	See remarks for OP 865 in Part 1
OD 5360.....	Ordnance Equipment List for <i>Auxiliary Mine Layer</i> ACM 10	1 Aug 45	R	1st rev
*OD 6429.....	Ordnance Equipment List— <i>Destroyer Tender</i> AD 15....			
OD 5236.....	Ordnance Equipment List for <i>Destroyer Tenders</i> AD 17 Class	19 Jun 45	R	1st rev. Supersedes OD 3680
OD 4482.....	Ordnance Equipment List for <i>Destroyer Tenders</i> AD 22 Class	24 Apr 45	R	1st rev
OD 5340.....	Ordnance Equipment List for <i>Destroyer Tenders</i> AD 26 Class	19 Apr 45	R	1st rev
OD 5610.....	Ordnance Equipment List for <i>Destroyer Tender</i> , AD 32	10 Apr 45	R	See remarks for OP 865 in Part 1
*OD 5648.....	Ordnance Equipment List for <i>Destroyer Tender</i> AD 34			
OD 5288.....	Ordnance Equipment List for <i>Ammunition Ships</i> AE 3 Class	19 Jun 45	R	1st rev
OD 5293.....	Ordnance Equipment List for <i>Store Ships</i> AF 28 Class..	3 Feb 44	R	See remarks for OP 865 in Part 1
OD 5765.....	Ordnance Equipment List for <i>Provision Storeship</i> , AF 30 Class	18 Jun 45	R	See remarks for OP 865 in Part 1
OD 5604.....	Ordnance Equipment List for Miscellaneous Auxiliaries, AGs 88-89	8 Aug 45	R	See remarks for OP 865 in Part 1
OD 5308.....	Ordnance Equipment List for <i>Amphibious Force Flagship</i> —AGC 1 Class	29 Nov 44	R	Rev A. With Change 1 dated 17 Feb 45, Change 2 dated 13 Nov 45
OD 4589.....	Ordnance Equipment List for <i>Motor Torpedo Boat Tenders</i> AGP 4 Class	16 Mar 44	R	Rev A

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
EQUIPMENT LISTS, ORDNANCE				
OD 4544.....	Ordinance Equipment List for <i>Motor Torpedo Boat Tenders</i> (APGs 6-9)	17 Jan 45	R Rev A	
OD 5282.....	Ordinance Equipment List for <i>Motor Torpedo Boat Tenders</i> AGP 12 Class	13 Dec 43	R	
OD 5287.....	Ordinance Equipment List for <i>Cargo Ships</i> AK 70 Class	3 Mar 44	R	
OD 5338.....	Ordinance Equipment List for <i>Cargo Ships</i> AK 73 Class	25 May 44	R	
OD 5496.....	Ordinance Equipment List for <i>Cargo Ships</i> —AKs 156, 158 and 160	4 Jul 44	R	
OD 5352.....	Ordinance Equipment List for <i>Cargo Ships</i> —AK 157 Class	4 Jul 44	R	
OD 5635.....	Ordinance Equipment List for <i>Cargo Ships</i> , AK 227 Class	16 Mar 45	R	
OD 5273.....	Ordinance Equipment List for <i>Auxiliary Cargo Attack</i> AKA 21 Class	28 Sep 44	R Rev A	
OD 5312.....	Ordinance Equipment List for <i>Cargo Ship, Attack</i> AKA 53 Class	22 Oct 45	R 2nd rev	
OD 5271.....	Ordinance Equipment List for <i>Net Cargo Ships</i> AKN 1 Class	14 Dec 43	R	
OD 5310.....	Ordinance Equipment List for <i>General Stores, Issue Ships</i> AKS 5 Class and 7 Class	15 Mar 45	R 1st rev	
OD 5359.....	Ordinance Equipment List for <i>Cargo Ship and Aircraft Ferry</i> AKV 1 Class	15 May 44	R	
OD 5231.....	Ordinance Equipment List for <i>Minesweepers</i> —AM 57 Class	18 Oct 45	R 2nd rev	
OD 5234.....	Ordinance Equipment List for <i>Minesweepers</i> —AM 136 Class (180 ft)	16 Aug 44	R Rev A. With Change 1 dated 25 May 45. Supersedes OD 3691	
OD 5356.....	Ordinance Equipment List for <i>Net Laying Ships</i> —AN 151 ft Class	31 May 44	R	
OD 5357.....	Ordinance Equipment List for <i>Net Laying Ships</i> —AN 194 ft Class	31 May 44	R Supersedes OD 4401	
OD 5294.....	Ordinance Equipment List for <i>Oilers</i> AO 25 Class.....	16 Jan 45	R Rev A. Supersedes ODs 4449 and 4477	
OD 5354.....	Ordinance Equipment List for <i>Gasoline Tankers</i> AOG 1 Class	13 May 44	R Supersedes OD 3644	
OD 5355.....	Ordinance Equipment List for <i>Gasoline Tankers</i> —AOGs 17 Class and 14-16, 47	7 Nov 44	R Rev A	
OD 5286.....	Ordinance Equipment List for <i>Transports</i> AP 110 Class..	2 Mar 45	R 1st rev. Supersedes OD 3788 and 4394	
OD 5274.....	Ordinance Equipment List for <i>Transports, Attack</i> , APAs 33-43, 45-56, 91-116	5 Sep 45	R 1st rev. With Change 1 dated 29 Nov 45	
OD 5482.....	Ordinance Equipment List for <i>Auxiliary Transport Attack</i> APA 57 Class	20 Jul 44	R	
OD 5339.....	Ordinance Equipment List for <i>Auxiliary Transport Attack</i> APA 106 Class	13 May 44	R	
OD 5313.....	Ordinance Equipment List for <i>Auxiliary Transport Attack</i> APA 117 Class	1 Mar 44	R	
OD 5494.....	Ordinance Equipment List for <i>High Speed Transports</i> APD 37 Class (DE Type)	10 Aug 44	R	
OD 5358.....	Ordinance Equipment List for <i>Evacuation Transports</i> APH 1 Class	6 May 44	R	
*OD 5283.....	Ordinance Equipment List APV 4.....		R	
OD 5290.....	Ordinance Equipment List for <i>Repair Ships</i> AR 13 Class	11 May 44	R	

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EQUIPMENT LISTS, ORDNANCE				
OD 5281.....	Ordnance Equipment List for Internal Combustion Engine Repair Ship ARG 1 and ARG 2 Class	22 Dec 43	R	Supersedes OD 3694
OD 5326.....	Ordnance Equipment List for Heavy Hull Repair Ships ARH 1	29 Apr 44	R	Supersedes OD 3694
OD 5311.....	Ordnance Equipment List for Repair Ships Landing Craft ARL 1 Class	6 Jan 45	R	Rev A
OD 5327.....	Ordnance Equipment List for Salvage Vessels ARS 213 Foot Class	18 Sep 44	R	Supersedes OD 3648
OD 5324.....	Ordnance Equipment List for Aircraft Engine Overhaul and Structural Repair Ships ARV 1 Class	3 Mar 44	R	Rev A
OD 5611.....	Ordnance Equipment List for Aircraft Repair Ships (Engine) ARV(E) 3, 4—(Aircraft) ARV(A) 5, 6	24 May 45	R	Rev A
OD 4543.....	Ordnance Equipment List for Submarine Tender AS 22 Class	26 May 44	R	Rev A
OD 5325.....	Ordnance Equipment List for Submarine Rescue Vessels ASRs	18 Aug 45	R	1st rev.
OD 5295.....	Ordnance Equipment List for Ocean Going Tugs AT 67 Class	12 Jun 44	R	Rev A. Supersedes OD 3692
OD 5289.....	Ordnance Equipment List for Rescue Tugs ATR 1 Class	Dec 1943	R	Supersedes OD 3775
OD 5649.....	Ordnance Equipment List for Seaplane Tenders—AV 4 Class	5 Nov 45	R	
OD 5232.....	Ordnance Equipment List for Seaplane Tenders, Large AV 7 Class	26 Mar 45	R	1st rev. Supersedes OD 3519
OD 4483.....	Ordnance Equipment List for Seaplane Tenders Large—AV 14 Class	14 Dec 44	R	Rev A
OD 5233.....	Ordnance Equipment List for Seaplane Tenders Small—AVP 10 Class	29 Nov 44	R	Rev A. Supersedes OD 3520
OD 4629.....	Ordnance Equipment List for Battleship BB 44.....	23 Sep 44	R	Rev A
OD 5243.....	Ordnance Equipment List for Battleships BBs 57 to 60	19 Apr 45	R	Supersedes OD 4439
OD 4630.....	Ordnance Equipment List for BBs 61-66.....	14 Jun 43	R	Supersedes OD 3573
Equipment Lists, Ordnance, BDEs, See DEs and BDEs				
OD 5239.....	Ordnance Equipment List for Heavy Cruisers—CA 68 Class	1 Jun 44	R	Supersedes OD 3501. Will be superseded by OD 5634
OD 5634.....	Ordnance Equipment List for Heavy Cruisers CA 68 Class, CA 72 Class and CA 122 Class	3 May 45	R	With Change 1 undated. Supersedes ODs 4529 and 5239
OD 5276.....	Ordnance Equipment List for Heavy Cruisers CA 139 Class	29 May 44	R	Rev A
OD 4546.....	Ordnance Equipment List for Large Cruisers CB 1 Class	21 Mar 45	R	1st rev. Supersedes OD 3599
OD 5344.....	Ordnance Equipment List for 83 ft Coast Guard Cutters—(CGC)	19 Apr 44	R	Rev A
OD 5600.....	Ordnance Equipment List for Light Cruisers—CL 4 Class	29 Jan 45	R	Rev A
OD 5353.....	Ordnance Equipment List for Light Cruisers—CL 55 Class	18 Dec 45	R	1st rev. Supersedes OD 3586
OD 4530.....	Ordnance Equipment List for Light Cruisers—CL 64 Class and CL 106 Class	10 Apr 45	R	1st rev. Supersedes parts of OD 3586
OD 5238.....	Ordnance Equipment List for Light Cruisers CL 95 Class	21 Jul 44	R	Supersedes OD 3602
OD 4545.....	Ordnance Equipment List for Light Cruisers—CLs 119-121	12 Jan 45	R	Rev A. See remarks for OD 4545 in Part I
OD 5484.....	Ordnance Equipment List for Light Cruisers—CL 144 Class	3 Aug 44	R	
OD 5642.....	Ordnance Equipment List for Mine Layer CM 5.....	21 Sep 45	R	Supersedes OD 3420
OD 5361.....	Ordnance Equipment List for Mine Layers—CM 11 Class	12 Jun 44	R	

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EQUIPMENT LISTS, ORDNANCE				
OD 5229.....	Ordnance Equipment List for <i>Aircraft Carriers</i> —CV 6..	8 Oct 43	R	Supersedes OD 2042
OD 4602.....	Ordnance Equipment List for <i>Aircraft Carriers</i> , CV 9	29 Oct 45	R	2nd rev
OD 4407.....	Ordnance Equipment List for <i>Aircraft Carriers</i> , Large, CVB 41 Class	5 Nov 45	R	2nd rev
OD 4626.....	Ordnance Equipment List for <i>Aircraft Carriers Escort</i> CVE 6 Class (U.S.)	30 Aug 43	R	Supersedes ODs 3756, and 3798 as to ACV 3162
OD 5230.....	Ordnance Equipment List for <i>Aircraft Carriers Escort</i> — CVE 55 Class	20 Dec 44	R	Rev A7 Supersedes OD 3796
OD 4528.....	Ordnance Equipment List for <i>Aircraft Carrier, Escort</i> , CVE 105 Class	28 Aug 45	R	2nd rev. With Change 1 dated 23 Jan 46
OD 5228.....	Ordnance Equipment List for <i>Aircraft Carriers</i> , Small, CVL 22 Class	14 Sep 45	R	(2nd rev)
OD 5284.....	Ordnance Equipment List for <i>Aircraft Carriers</i> , Small, CVL 48 Class	12 Sep 45	R	2nd rev
*OD 5486.....	Ordnance Equipment List for <i>Destroyers Class "A"</i> (Brazil)		R	
OD 4605.....	Ordnance Equipment List for <i>Destroyers</i> —DD 445 Class	18 Dec 45	R	1st rev. With Change 1 dated 13 Feb 46. Supersedes OD 3502
OD 4606.....	Ordnance Equipment List for <i>Destroyers</i> (DD 453—31 Class—1,630 Ton)	31 Jul 43	R	Supersedes OD 3722
OD 4615.....	Ordnance Equipment List for <i>Destroyers</i> (DDs 479— 481—2,100 Ton)	31 Jul 43	R	Supersedes OD 3598 as to DDs 479-481
OD 4607.....	Ordnance Equipment List for <i>Destroyers</i> —DD 692 Class	19 Oct 45	R	2nd rev
*OD 5495.....	Ordnance Equipment List for DE's (Bombardment)....		R	
OD 4532.....	Ordnance Equipment List for <i>Destroyer Escort Vessels</i> DEs (3")	23 Jul 45	R	2nd rev. Rev "A" superseded OD 3673 and part of OD 3785
OD 4531.....	Ordnance Equipment List for <i>Destroyer Escort Vessels</i> DEs (5")	11 May 45	R	2nd rev
OD 5277.....	Ordnance Equipment List for <i>District Craft Mounting</i> 20-mm Guns	10 Aug 43	R	
OD 5300.....	Ordnance Equipment List for <i>Light Mine Layers</i> DM 15 Class	18 May 45	R	1st rev
OD 5602.....	Ordnance Equipment List for <i>Light Mine Layers</i> —DM 23 Class	16 Feb 45	R	
OD 5299.....	Ordnance Equipment List for DMS 1 Class.....	17 Mar 44	R	
OD 5644.....	Ordnance Equipment List for <i>Mine Sweepers</i> , High Speed DMS 19 Class	17 Aug 45	R	
OD 5331.....	Ordnance Equipment List for <i>Floating Dry Docks</i>	28 Feb 45	R	
OD 5257.....	Ordnance Equipment List for <i>Landing Craft Infantry</i> (Large) LCI (L) 351 Class	24 Sep 43	R	
OD 5367.....	Ordnance Equipment List for <i>Landing Craft Support</i> (Large) Mk 3—LCS(L) 1 Class	24 Aug 44	R	
OD 4595.....	Ordnance Equipment List for <i>Landing Craft Tank</i> (LCT (5) 1-88, 119-621)	5 Mar 43	R	
OD 4627.....	Ordnance Equipment List for <i>Landing Ship, Dock</i> , LSD 1 Class	19 Jun 45	R	1st rev
OD 5291.....	Ordnance Equipment List for <i>Landing Ship, Medium</i> LSM Class	19 Jun 45	R	1st rev

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EQUIPMENT LISTS, ORDNANCE				
OD 5646.....	Ordnance Equipment List for <i>Landing Ship, Medium</i> (Rocket) LSM (R)	10 Apr 45	R	With Change 1 dated 21 Jul 45
OD 5235.....	Ordnance Equipment List for <i>Landing Ships, Tank LSTs</i> (Excepting LST 1153 Class)	4 Jul 45	R	1st rev
OD 5763.....	Ordnance Equipment List for <i>Landing Ships, Tank, LST</i> 1153 Class	25 Jun 45	R	1st rev
OD 5776.....	Ordnance Equipment List for <i>Landing Ship, Vehicle, LSV</i>	11 Jul 45	R	1st rev
OD 5241.....	Ordnance Equipment List for PC 452 Class 173 ft <i>Submarine Chasers</i>	9 Nov 43	R	1st rev
OD 5237.....	Ordnance Equipment List for PC 676 Class—110 Foot <i>Submarine Chasers</i> (SC)	24 Sep 43	R	Supersedes OD 3794
OD 5227.....	Ordnance Equipment List for PC 1376-1465—136 Foot <i>Submarine Chasers</i> (PCS)	14 Sep 43	R	Supersedes OD 4453
OD 5240.....	Ordnance Equipment List for PCE 842 Class—180 Foot <i>Patrol Craft Escort</i>	16 Nov 43	R	Supersedes OD 3769
OD 5265.....	Ordnance Equipment List for PCE (R) 848 Class 180 Foot <i>Patrol Craft Escort (Rescue)</i>	Dec 1943	R	Supersedes OD 3769
OD 4527.....	Ordnance Equipment List for <i>Frigate</i> PF 3 Class.....	10 Apr 44	R	Rev A. Formerly PGs 111-179
OD 5343.....	Ordnance Equipment List for 255 foot <i>Coast Guard Cutters</i> (PG)	9 May 44	R	1st rev
OD 5314.....	Ordnance Equipment List for <i>Motor Gunboats</i> PGM 1 Class	8 Mar 44	R	1st rev
OD 5601.....	Ordnance Equipment List for <i>Motor Gunboats</i> PGM 9 Class	29 Nov 44	R	1st rev
OD 5226.....	Ordnance Equipment List for <i>Motor Torpedo Boats</i> PT 71 Class	21 Oct 44	R	Rev A. Supersedes OD 4418
OD 5242.....	Ordnance Equipment List for SCs 1467, 1468, 1472, 1473 112 Foot	3 Mar 44	R	Supersedes OD 4490
OD 4608.....	Ordnance Equipment List for <i>Submarines</i>	15 Oct 45	R	2nd Rev
OD 5292.....	Ordnance Equipment List for <i>Motor Minesweepers</i> YMS 1 Class	Dec 1943	R	Supersedes OD 3600
OD 5328.....	Ordnance Equipment List for <i>Torpedo Repair Barges</i> YRs 49-50	3 Feb 44	R	1st rev
EROSION DATA, See DATA, EROSION				
ERROR RECORDERS, See RECORDERS, ERROR				
EXCITERS				
OD 1044.....	Description of Exciter Mk 3 Main Battery Fire Control System	1928	R	2nd rev
OD 1783.....	Description of Exciter Mk 4—Main Battery Fire Control System	30 Jun 37	R	6th Rev
OD 2529.....	Description of Exciter Mk 4 Mod 1—Main Battery Fire Control System	30 Jun 37	R	1st rev
OD 1787.....	Description of Exciter Mk 4 Mod 3—Anti-Aircraft Fire Control System	29 Aug 32	R	3rd Rev
OD 1790.....	Description of Exciter Mk 4 Mod 4 Main Battery Fire Control System	29 Aug 32	R	2nd Rev
OD 2467.....	Description of Exciter Mk 4 Mod 9 Main Battery Fire Control System	24 Jan 36	R	1st Rev
OD 2468.....	Description of Exciter Mk 4 Mod 10 Main Battery Fire Control System	24 Jan 36	R	2nd Rev

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EXCITERS				
OD 3034.....	Description of Synchro Exciters Mk 5, 7, 8 and 10....	14 Apr 37	R	Rev A
OD 2527.....	Description of Synchro Exciter Assembly Mk 9—Anti-Aircraft Battery Fire Control System DDs 364-379 CA 44, CLs 40 to 43	10 Nov 36	R	3rd Rev.
OD 3200.....	Description of Synchro Exciter Assembly Mk 12—Torpedo Battery SS 182 to 187 and 188 to 193	2 Feb 38	R	6th Rev.
OD 3886.....	Description of Searchlight Control Transmitter Mk 1 and 1 Mod 1 and Synchro Exciter Assembly Mk 14 and 27—Fire Control System	3 Aug 45	R	13th rev.
EXERCISE HEADS, See TORPEDO EXERCISE HEADS				
EXPLODERS				
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
*OD 6271.....	Pressure Test for Exploder Base Plate Flange, SP 12077 (Torpedo Work)			
OP 1219A....	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 663.....	Description, Adjustment, Care, Operation and Shop Tests of Torpedo Warhead Attachments	Nov 1942	R	Issued with OP 663A, OTIs, T10-43, T17-43, T2-44
OP 663A.....	Supplement to OP 663.....	Feb 1943	R	Issued with OP 663
OP 1219F....	Ammunition Code Catalog Class F, Torpedo Warheads and Accessories	5 Nov 45	R	1st rev. See remarks for OP 1219F in Part 1
*OD 6252.....	Torpedo Work—Exploders Mk 8 Mod 6 and Mk 8 Mod 7 Types			
*OD 6272.....	Pressure Test for Exploder Flange for War Exercise Heads SP 16388 (Torpedo Work)			
OP 946.....	Torpedo Mk 18 and Mk 18 Mod 1 (Exploder Mechanism Mk 4 and Mk 8 Mod 7)	29 Jul 44	R	1st rev. With Change 1 dated 14 Nov 44 and OTI T5-44. Supersedes OD 3830
OTI T17-43...	Mk 4 Mods 1 and 2 and Mk 5 and Mk 5 Mod 1 Exploder Mechanisms, Instructions for freeing up Trigger Cap	26 Nov 43	R	Issued with OP 663. Supersedes OTI T8-43
OTI T10-43...	Mk 6 Mod 1 Exploder Mechanism—Adjustment of Brush Holder Clearance	6 Aug 43	R	Issued with OP 663
OTI T2-44....	Exploder Mechanisms Mk 6 Mods 1, 1A and 1B, Mk 4 Mod 1—ACM Units	28 Mar 44	R	Issued with OP 663. Supersedes OTIs T14-43 and T16-43
OP 1345.....	Torpedoes Mk 16 and Mk 17 Types (Preliminary) (Exploder Mechanism Mk 6 Mods 5 and 6)	16 Jan 45	C	See remarks for OP 1345 in Part 1
OD 3832.....	Description of and Instruction for the Use of Mk 30 Mod 2 Exercise Head	31 Jan 44	R	Rev A
*OD 6256.....	Exploders Mk 6 Mod 5 and Mk 6 Mod 6 (Torpedo Work)			
OTI T9-44....	Torpedo Exploder Mechanism Mk 6 Mods 5 and 6 Impact Switch Mounting	7 Sep 44	R	Supersedes OTI T8-44. Issued with Ordalt 1603
*OD 6254.....	Exploder Mk 6 Mod 10 Type (Torpedo Work)			
OD 6255.....	Exploder Mk 9 Type—Mechanical Unit	28 Nov 45	C	Rev B
OP 1365.....	Torpedo Exploder Mechanism Mk 9 Mod 0	13 Mar 45	C	
OP 1369.....	Torpedo Exploder Mechanism Mk 10 Mod 3	13 Mar 45	C	With Change 1 dated 9 Jul 45
*OP 1369A...	Torpedo Exploder Mechanism Mk 10 Mod 3, Inspection Standards for			

*Under preparation.

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EXPLOSIVES				
See also	AMMUNITION CHARGES			
	DEMOLITION DYNAMITE			
	POWDER			
	TORPEX			
#OP 4.....	Ammunition—Instruction for the Naval Service Afloat	4 May 43	R	Revised. See remarks for OP 4 in Part 1
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 12190	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 12190 in Part 1
TM9-1900	Ammunition—General	18 Jun 45	R	War Dept Publication. See remarks for TM9-1900 in Part 1
Form 00 7224..	Ordnance Safety Manual—Regulations Governing the Manufacture, Storage, Loading and Handling of Military Explosives and Ammunition at Establishments of the Ordnance Dept., U.S.A.	3 May 45	D	War Dept Publication
FM5-25	Explosives and Demolitions.....	May 1945	D	War Dept Publication. See remarks for FM5-25 in Part 1
FM9-40	Unexploded Bombs, Organization and Operation for Disposal	20 Oct 43	D	Do
SNL S-2 (ORD 11)	Fuzes and Miscellaneous Explosive Components for Aircraft Bombs			War Dept Publication
TM9-2900	Military Explosives.....	29 Aug 40		Do
EXTENDERS See MECHANISMS, DEPTH CHARGE				
	MECHANISMS, EXTENDER			
	MECHANISMS, MINE			
EYEGUARDS				
OP 481.....	Broadside Gun Mount Telescopes (<i>Preliminary</i>).....	19 Sep 44	R	1st rev. Supersedes OD 780 and OP 349
OTI F10-44...	Eyeguards for Optical Instruments, Ventilation of to Prevent Eyepiece Fogging	30 Jun 44	R	
FILLING EQUIPMENT				
#OP 975.....	Aircraft Vesicant Munitions.....	Mar 1943	R	Now issued by BuAer, NAVAER No 24-10-501
OP 1125.....	Aviation Ordnance—Chemical Spraying Equipment.....	29 Sep 44	R	See remarks for OP 1125 in Part 1
OP 1361.....	Napalm Bombs (Aircraft Jettisonable Fuel Tanks Used as Incendiary Bombs) (<i>Preliminary</i>) (<i>Fire Bomb Filler</i>)	21 Apr 45	R	See remarks for OP 1361 in Part 1
FILM				
See also	CAMERAS, GUN			
	MAGAZINES			
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Gun Camera Film</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1

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FILM				
OP 481.....	Broadside Gun Mount Telescopes (<i>Preliminary</i>) (<i>Optical Film</i>)	19 Sep 44	R	1st rev. Supersedes OD 780 and OP 349
OP 582.....	Antiaircraft Gun Mount Telescopes (<i>Optical Film</i>)	13 Oct 44	R	1st rev. Supersedes ODs 4610 and 4611
FILTERS				
See also	OPTICAL EQUIPMENT			
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Gun Filters</i>)...	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
FINDERS				
See also	RANGEFINDERS			
OD 453.....	Description of Submarine Attack Course Finder Mk 1 Mod 3	3 May 22	D	Rev F
*OP 1501.....	Coursefinder Mk 3 Mods 0 and 1.....		R	
OP 931.....	Position Angle Finder Mk 1 and Mk 1 Mod 1 Description, Operation and Maintenance	31 Dec 43	R	1st rev
FINS				
See also	BOMBS ROCKETS			
OP 1219A....	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 1219M....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1219Q....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OTI AV6-45..	Fin Assemblies for Aircraft Bombs, Assembly of.....	3 Jul 45	R	Supersedes OTI AV4-45
FIRE CONTROL				
See also	BALLISTICS CIRCUITS CONTROLS CORRECTORS DIRECTORS ELIMINATORS EXCITERS FINDERS GUNS INDICATORS INSTALLATION, FIRE CONTROL MOUNTS MULTIPLIERS OPTICAL INSTRUMENTS PREDICTORS RADAR RANGEFINDERS RANGEKEEPERS RECEIVERS RECORDERS REGULATORS RELAYS SIGHTS			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
FIRE CONTROL				
See also	SOLVERS STABILIZERS STABLE ELEMENTS SYSTEMS TORPEDOES TRANSFORMERS TRANSMITTERS TURRETS			
OP 703.....	Theory and Description of Arma Vacuum Tube, Triple Follow-Up Circuits	Aug 1937	R	
OP 834.....	8" Triple Gun Turrets, <i>USS BALTIMORE</i> Class, CAs 68-75, 122-138 (Preliminary)	Apr 1943	R	See remarks for OP 834 in Part I
OP 1140.....	Basic Fire Control Mechanisms.....	Sep 1944	R	Supersedes OD 1661
*OP 1642.....	The Antiaircraft Fire Control Problem and its Solution by Gyroscopic Computing Mechanisms.....		R	
OD 1026.....	Description of Procedure to Control Main Battery in various Groupings-- <i>USS NEW YORK & TEXAS</i>	3 Mar 37	R	1st rev
OD 2363.....	Changes Required in Fire Control Instruments Manufactured at Navy Yard, NY. To Improve Red Illumination	4 Feb 44	D	
OD 2513.....	General Description of Main Battery and Auxiliary Main Battery Fire Control System <i>USS NEW ORLEANS</i> (CA 33) <i>ASTORIA</i> (CA 34) and <i>MINNEAPOLIS</i> (CA 36)	14 Apr 36	R	2nd rev
OD 2771.....	Fire Control Instruments--Data Sheets.....	1 Oct 45	R	1st rev. Available only on Bureau approval
OD 2771A....	Fire Control Instruments--Data Sheets.....	1 Oct 45	C	1st rev. Available only on Bureau approval
OD 3002.....	<i>USS TUSCALOOSA</i> --Main and Anti-Aircraft Fire Control Equipment (CA 37)--Checking and Adjustments Instructions	25 Jul 34	R	
OD 3108.....	Fire Control Equipment (Ford) Lubrication of.....	12 Jun 44	D	Rev C
OD 3176.....	Ford Instrument Company Fire Control Equipment Exercising When in Storage (Preliminary)	Undated	R	Rev A
OD 3447.....	Standard Fire Control and Torpedo Control Symbols (For use in the Study and Preparation of Ordnance Data and Ordnance Pamphlets)	30 Aug 39	R	
OD 3448.....	Fire Control Equipment (Except Optical Material)--Instructions for Furnishing of Spare Parts	13 Oct 44	R	Rev B
OD 3487.....	Routine Upkeep of Fire Control Instruments in Store...	15 Jan 43	D	
OD 3682.....	Report of Shock Tests on Fire Control Equipment....	13 Aug 41	R	
OD 3924.....	Illumination of Fire Control Instruments for Dark Adaptation of Personnel--Modification of Instruments Furnished by the General Electric Co to provide for	1944	R	
OD 4582.....	Check List for Inspection and Testing of Fire Control Circuits and Associated Equipment on DD 453 Class Destroyers	9 Jul 43	R	
OD 5127.....	Instructions for Providing Red Illumination on Instruments Manufactured by Ford Instrument Co Inc (Preliminary)	11 Sep 44	R	Rev A
OTI F17-44...	6"/47 Cal Fire Control by Computer Mk 1 (5"/38) and Rangekeeper Mk 10 (5"/38 or 5"/25)	8 Aug 44	R	Issued with ODs 4209, 5102, 4262, and 4263
FM4-110	Antiaircraft Artillery Gunnery.....	28 Sep 43	R	War Dept Publication

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
FIRECRACKER				
OP 1567.....	Firecracker Mk 2 Mod 0 (<i>Preliminary</i>).....	22 Jun 45	D	
FIRE FIGHTING				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
FIRING CIRCUITS, See CIRCUITS				
FIRING LOCKS, See LOCKS				
FIRING STOP MECHANISMS, See MECHANISMS, FIRING STOP				
FIRING TABLES, See TABLES, FIRING TABLES, RANGE				
FIXTURES				
OP 1392.....	Clearance Fixture (Aircraft Gun) Mk 1 Mod 0.....	4 May 45	R	
FLAME THROWERS				
OP 1139.....	Flame Throwers, Description and Instructions for Operation	14 Jun 44	C	
FLARES				
See also PYROTECHNICS				
OP 1219B....	Ammunition Code Catalog Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	
TM9-1980....	Bombs for Aircraft.....	15 Nov 44	R	War Dept Publication. See remarks for TM9-1980 in Part 1
OP 1177.....	Surface Pyrotechnics and Projectors.....	19 Jan 45	R	See remarks for OP 1177 in Part 1
OTI AV8-43..	High Altitude Parachute Flare and Flare Mortar.....	22 May 43	R	
OP 998.....	Aircraft Pyrotechnics (<i>Parachute Flares 1½ Minute Mk 1 Mod 1, Mk 4 and Mods, Mk 5 and Mods, Mk 6 and Mods, Mk 8 Mods 0, 1, 2, AN-M26, and Tow Target Flare Mk 1</i>)	14 Jul 43	R	Supersedes OP 592. See remarks for OP 998 in Part 1
OTI AV1-44..	Aircraft Parachute Flare 3 Minute Electrically Operated	7 Jan 44	R	
OP 1331.....	375 Rocket Flare.....	15 Nov 44	C	
OP 1576.....	375 Rocket (Aircraft Flare) Mk 6 Mod 0.....	8 Aug 45	R	
*OP 1178.....	Demolition Material (<i>Trip Flare</i>).....	8 Dec 44	R	
FLASKS				
OD 1852.....	Torpedo Air Flask Dilation Indicator (Alexandria TS Modification)—Description and Operation	24 Jun 29	D	
FLOATS				
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	
OTI A2-43....	Drawing 330025, Torch Indicator Float Mk 1 Mod 1 To Float Indicator Mk 1 Mod 1	23 Feb 43	R	
OP 947.....	Indicator Float Mk 1 and Mods and Indicator Float Mk 2, Description, Operation and Care	3 Dec 43	R	
OP 878.....	General Data on Navy, AN-Standard, Army, and British Bombs (<i>Smoke Float</i>)	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
FLOATS				
OP 1219C.....	Ammunition Code Catalog Class C, Chemicals.....	1 Oct 44	R	See remarks for OP 1219C in Part 1
#OP 1042.....	Ships Chemical Munitions, Description and Instructions for Use	25 Sep 43	R	See remarks for OP 1042 in Part 1
OHI T1-44...	3000 lb Spherical Floats Mark 1 Mod 2 Stowage, Handling and Repair of	14 Jul 44	R	
FLUXMETER				
*OP 1663.....	Renewal Parts List for Photoelectric Recording Fluxmeters (Preliminary)			
FORGINGS				
OP 9.....	Gun Forgings, Army and Navy, Specifications for.....	May 1936	D	5th rev
OD 3784.....	Weights of Gun Barrel Forgings (for New Construction)	7 Feb 45	R	Rev B
OD 5369.....	Forgings for Lining, or Relining of 3" to 16" Guns....	28 Aug 45	R	Rev A
*OD 5483.....	Weights of Breech Mechanism Forgings for 3" to 16" Guns		R	
FORKS				
See also	ADAPTERS CHARGES, DEPTH RACKS, BOMB			
OP 865.....	Aviation Ordnance Equipment Catalog (Enlarged Steadying Forks)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
FORMS				
See also	ORDNANCE EQUIPMENT, REPORTS ON REPORT FORMS			
OP 1523.....	Degaussing Station Instructions, Forms, Records, and Reporting Procedures	21 Jul 45	D	1st rev. Issued with Change 1 dated 26 Jul 45. Used with OP 1536 (1st rev). Supersedes OP 1540. Available to Degaussing Activities only
FRAMES				
OP 1131.....	475 Rocket Launcher Mk 7 (Experimental) Description and Instructions for Use (Crutch and Deck Frames)	17 Jul 44	R	
OP 1608.....	Carrying Frame (Demolition Charge) Mk 1 Mod 0....	14 Nov 45	R	
FUZE COVERS, See COVERS				
FUZE SETTERS				
*OP 1146.....	Fuze Setters and Related Equipment.....		D	Will supersede OP 808
OD 4641.....	French 100-mm Gun Fuze Setter (Modified for American Fuze Mk 22)—Description and Operation.....	10 Aug 43	R	
OD 2366.....	Fuze Setter (152-mm Projectiles) Description, Installation and Adjustment	12 Jun 44	D	Supersedes OD 644
OP 735.....	5"/38 Cal Gun Mounts, AA Base Ring Type Mk 30 and Mk 30 Mods Except Merchantmen Types	May 1943	R	1st rev. See remarks for OP 735 in Part 1
OP 700.....	5" Mounts (38 Cal AA Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, 11, Assemblies Description and Instructions (Fuze Setters Mks 7 and 7 Mod 1).	Sep 1942	R	See remarks for OP 700 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
FUZE SETTERS				
OD 3645.....	Fuze Setters Mk 10—Description and Operation.....	30 Jun 41	R	
OD 3714.....	Fuze Setter Mk 10 Mod 1, Description and Operation..	2 Mar 43	R	Rev B
OP 811.....	3" Gun Mount Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (Fuze Setters Mks 10, 11 Mods 1 and 2, Mk 12)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OP 808.....	Fuze Setter Mk 11 and Mk 11 Mods 1 and 2 Description and Instructions	Dec 1941	R	
OP 1046.....	Fuze Setter Mk 12 Description and Operation.....	30 Oct 43	D	
OD 4454.....	Fuze Setter Mk 12 Mod 1—Description and Operation..	23 Sep 43	R	Rev A
OD 4577.....	Fuze Setter Mk 13 Portable for Time Fuzes Mks 15, 16, and 18 Description and Operation	27 Feb 43	R	
OP 1185.....	Fuze Setter Mk 16, Description and Instructions for Use—Parts List	Nov 1944	R	
FUZES				
See also	AMMUNITION BOMBS COVERS DETONATORS FUZE SETTERS GAUGES GRENADES PRIMERS PROJECTILES ROCKETS			
#OP 4.....	Ammunition, Instructions for the Naval Service Afloat..	4 May 43	R	Revised. See remarks for OP 4 in Part 1
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1219B....	Ammunition Code Catalog Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1515.....	Restricted and Unserviceable Ammunition.....	11 Jun 45	R	See remarks for OP 1515 in Part 1
OD 743.....	Materials Used in Manufacture of Fuzes, Tracers, Igniters, Primers, etc.	20 Jul 43	R	Rev A
SNL P-7 (ORD 11)	Fuzes, Primers, Blank Ammunition and Miscellaneous Items for Anti-aircraft, Harbor Defense, Heavy Field and Railway Artillery			War Dept Publication
SNL R-3 (ORD 11)	Service Fuzes and Primers for Pack, Light and Medium Field, Aircraft, Tank, and Antitank Artillery			War Dept Publication
SNL R-7 (ORD 11)	Land Mines and Fuzes, Demolition Material and Ammunition for Simulated Artillery and Grenade Fire			Do
Fuzes, Bomb				
OP 736.....	Aircraft Bomb and Bomb Fuze Characteristics.....	Feb 1938	R	Issued with OCL A8-43. Supersedes OD 831. In case of conflict with OP 878 the latter governs
OP 878.....	General Data on Navy, AN-Standard, Army, and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Fuzes, Bomb				
OP 1172.....	Performance of Bombs and Projectiles Against Shore Installations	9 May 44	C	
OP 1219A	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1.
OP 1330.....	Mine Disposal Handbook.....	1 Nov 44	C	Accountable, distribution limited to Mine Disposal Personnel
OP 1531.....	Complete Rounds for Aircraft Bombs.....	18 May 45	D	See remarks for OP 1531 in Part 1
OP 1548.....	Bomb Fuze Data.....	5 Oct 45	R	
NavOrd Chart AV6-44	Bomb Fuzes Mk 229 Mod 3 and AN-Mk 230 Mod 4, Hydrostatic Tail	Undated		Supersedes NavOrd Chart AV32-43
SNL S-2 (ORD 11)	Fuzes and Miscellaneous Explosive Components for Aircraft Bombs			War Dept Publication
OP 1444.....	VT Fuzes for Bombs (T50E1, T50E4, T89, T90, T91)	31 Jul 45	C	1st rev. With Change 1 dated 12 Feb 46
SNL S-10 (ORD 11)	Obsolete and Nonstandard Bombs, Grenades, Pyrotechnics, and Rockets			War Dept Publication
TB9X-106	Preliminary Instructions VT Bomb Nose Fuzes.....	21 Feb 45	C	War Dept Publication
TB9-1980-36 ..	Mechanical Time Bomb Fuzes.....	7 Feb 45	R	War Dept Publication Issued with TM9-1980. Supersedes TB9-1980-21, TB9-1980-31 and TB9-1980-32
TM9-1980	Bombs for Aircraft.....	15 Nov 44	R	War Dept Publication. See remarks for TM9-1980 in Part 1
OP 1280.....	Aircraft Bombs (Fuzes AN-M100A2, AN-M101A2, AN-M102A2, AN-M103A1, AN-M104, M110, AN-M110A1, M115, M116, M117, AN-M120, AN-M120A1, M123, M124, M125, Mk 140, AN-Mk 219, Mk 221, Mk 223, AN-Mk 224, AN-Mk 228, Mk 229 Mod 3, AN-Mk 230 Mod 4, AN-Mk 234)	17 Feb 45	R	See remarks for OP 1280 in Part 1
NavOrd Chart AV21-43	Bomb Fuzes Tail, AN-M100A2, 101A2, and 102A2....	Undated	D	
TB CW 22....	Nonpersistent Gas Bombs: Handling, Shipping and Storage	6 Apr 45	R	War Dept Publication. See remarks for TB CW 22 in Part 1
NavOrd Chart AV22-43	Bomb Fuze AN-M103 (Nose).....	30 Oct 43	R	
TB9-1980-39 ..	Nose Bomb Fuzes, AN-M103A1, M139A1, and M140A1	21 Feb 45	R	War Dept Publication. Issued with TM9-1980
NavOrd Chart AV23-43	Bomb Fuze, Nose AN-M104.....	Undated	R	
NavOrd Chart AV26-43	Bomb Fuze, Nose AN-M110, 110A1.....	30 Oct 43	R	
NavOrd Chart AV28-43	Bomb Fuze, Tail M112, M113, M114 Quick Arming for "Masthead Bombing"	12 Nov 43	R	
NavOrd Chart AV37-43	Bomb Fuzes, Tail M115, 116, 117.....	30 Oct 43	R	
NavOrd Chart AV36-43	Bomb Fuzes (Nose) AN-M120.....	30 Oct 43	R	
TB9-1980-45 ..	Conversion Kit for Converting 20 lb Fragmentation Bombs AN-M41 to Parachute Type Bomb for Single Suspension or for Use in Cluster AN-M41A1	26 Mar 45	R	War Dept Publication. See remarks for TB9-1980-45 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Fuzes, Bomb				
OTI AV3-44..	Fuze Bomb, Tail M123, M124, M125.....	24 Mar 44	R	Supersedes OTI AV13-43
NavOrd Chart AV35-43	Bomb Fuzes—M123, M124, M125 Long Delay Action...	12 Nov 43	R	
NavOrd Chart AV34-43	Bomb Fuze (Nose) M126, 126A1.....	30 Oct 43	R	
OP 1234.....	One-Hundred Pound Incendiary Bomb, AN-M47A2, (All-Purpose) (Preliminary)	29 Jul 44	R	With Change 1 dated 1 Jun 45
TB9-1980-30 ..	Fuze, Bomb M139 (Nose).....	22 Jul 44	R	War Dept Publication. Issued with TM9-1980
TB9-1980-37 ..	Fuze, Bomb M140 (Nose).....	15 Feb 45	R	War Dept Publication. Issued with TM9-1980
TB9-1980-34 ..	Fuze, Bomb M148 and Bar, Suspension M1....	2 Dec 44	D	War Dept Publication. Issued with TM9-1980
OP 1220.....	1250 lb AP Rocket Bomb Mk 50 and Fuzes Mk 150 and Mk 151	29 Aug 44	C	Not for distribution without approval of Bureau
TB9-1980-41 ..	Anti-ricochet Devices M16 and M17.....	22 Feb 45	R	War Dept Publication. Issued with TM9-1980
TB3-300-5	Igniters for Fire Bombs (Explosive Type) (Fuzes M154, M157)	10 Feb 45	R	War Dept Publication
TB9-1980-48 ..	Tail Bomb Fuzes M160, M161, M162 and Nose Bomb Fuzes M163, M164, and M165	11 Apr 45	R	War Dept Publication. See remarks for TB9-1980-48 in Part 1
OP 988.....	Bomb Fuzes, Navy Mk 219, 221, 223, AN-Mk 224, 234, Mk 227, 228, 229, AN-Mk 230, Army AN-M100A2, 101A2, 103, 110A1, M112, 113, 114, 115, 116, 117 (Mk 243, Water Selective added by Change 6)	May 1943	R	Supersedes OPs 618, 622 and OCL V89B. See remarks for OP 988 in Part 1
OTI AV9-43..	Anti-Personal Bomb Fuze Attachment for Use with the AN-Mk 219 Fuze	31 May 43	R	
NavOrd Chart AV29-43	Bomb Fuze, Nose AN-Mk 219.....	Undated	D	
NavOrd Chart AV24-43	Bomb Fuze, Nose Mk 221.....	12 Nov 43	R	
NavOrd Chart AV31-43	Bomb Fuze (Tail) AN-Mk 228, Mk 223.....	12 Nov 43	R	
OD 3551.....	Instructions for Changing Depth Setting of Pistol of Bomb Fuze Mk 24 and Mods (Hydrostatic)	4 Sep 42	R	Rev G
NavOrd Chart AV30-43	Bomb Fuze AN Mk 224.....	30 Oct 43	R	
NavOrd Chart AV33-43	Bomb Fuze Mk 227.....	Undated	D	
NavOrd Chart AV31-43	Bomb Fuze (Tail) AN Mk 228, Mk 223.....	12 Nov 43	R	
OP 994.....	Special Bomb Fuzes Mk 232 Mod 1 and Mk 233, Description and Operation	May 1943	C	
NavOrd Chart AV38-43	Bomb Fuze Mk 234 Hydrostatic (Athwartship).....	30 Oct 43	R	
OP 690.....	Special Bomb Fuzes Mk 235 and 236, Description and Operation	Jul 1944	C	Formerly Registered
*NavOrd Chart AV1-45	Fuze, Aircraft Bomb Tail, Mk 237 Mod 0 and Mk 238 Mod 0			
NavOrd Chart AV4-44	Bomb Fuze (Nose) Mk 243.....	Undated	R	

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Fuzes, Demolition				
#OP 1178.....	Demolition Material.....	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
Fuzes, Dummy				
OP 1219K.....	Ammunition Code Catalog Class K, Dummy Ammunition	1 Oct 44	R	See remarks for OP 1219K in Part 1
Fuzes, Grenade				
OP 1219Q.....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
SNL S-4 (ORD 11)	Grenades, Hand and Rifle, and Fuzing Components....			War Dept Publication
Fuzes, Ignition				
NavOrd Chart A40-43	Simple Medium Caliber Ignition Fuze with Tracer (Base) Mk 10 Mod 4	1 Sep 43	R	
Fuzes, Mortar				
SNL R-4 (ORD 11)	Ammunition Mortar, Including Fuzes, Propelling Charges, and Other Components			War Dept Publication
OP 1137.....	60-mm Mortar for Shipboard.....	6 Jan 45	R	
OP 1440.....	472 Mortar Assembly Mk 1 Mod 0.....	25 Apr 45	R	
Fuzes, Projectile				
OP 1172.....	Performance of Bombs and Projectiles Against Shore Installations	9 May 44	C	
OP 1212.....	Projectile Fuzes.....	23 May 45	R	See remarks for OP 1212 in Part 1
OP 1219O.....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
OP 1219Q.....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
TB9-1901-7...	Fuze, CP, M78 and Booster M25.....	28 Dec 44	R	War Dept Publication. Issued with TM9-1901
OD 4641.....	French 100-mm Gun Fuze Setter (Modified for American Fuze Mk 22) Description and Operation	19 Mar 45	R	Rev A
#OP 1480.....	VT Fuzes for Projectiles, Characteristics and Operational Use (Preliminary)	6 Apr 45	C	With Change 1 dated 13 Aug 45
TB9-1901-8...	Artillery Shell for VT Fuzes.....	28 Feb 45	R	War Dept Publication. Issued with TM9-1901
Fuzes, Projectile Detonating				
NavOrd Chart A39-43	Base Detonating Fuze Mk 3B and Mk 3 Mod 2—Instructions Chart	1 Sep 43	R	
NavOrd Chart A41-43	Base Detonating Fuze—Mk 13 Mods 6 and 7.....	1 Sep 43	R	
NavOrd Chart A45-43	Nose Detonating Fuze Mk 26 and Mk 26 Mods 1 and 2..	1 Sep 43	R	
NavOrd Chart A46-43	Point Detonating Fuze Mk 27.....	1 Sep 43	R	
NavOrd Chart A47-43	Base Detonating Fuze Mk 28.....	1 Sep 43	R	
NavOrd Chart A48-43	Point Detonating Fuze Mk 29.....	1 Sep 43	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Fuses, Projectile Detonating				
NavOrd Chart A15-44	Base Detonating Fuze Mk 31 and Mk 36.....	Undated	R	
NavOrd Chart A16-44	Point Detonating Fuze Mk 34 Mod 1.....	Undated	R	
NavOrd Chart A17-44	Auxiliary Detonating Fuze Mk 44.....	Undated	R	
NavOrd Chart A18-44	Base Detonating Fuze Mk M66A1.....	Undated	R	
Fuzes, Rocket and Projector Charge				
OP 1017.....	Special Fuzes for Rockets, Projector Charges and Miscellaneous Munitions	13 Jun 44	R	1st rev. Issued with OTI A3-44. Supersedes OCL AV13-44. OP 1017 superseded OP 953
OP 1135.....	Rocket Launcher Mk 30 Mod 0 (T-Slot Launcher for Fin Stabilized Rockets) (Preliminary) Description and Instructions for Use	10 Nov 44	R	
OP 1157.....	Rocket Ammunition, 3"5 and 5"0 Aircraft Rockets (3"25 Motor) Description and Instruction for Use	23 Mar 45	R	1st rev. See remarks for OP 1157 in Part 1
OP 1158.....	Handling of Forward-Firing Rocket Equipment Aboard Kaiser Class Carriers	16 Mar 44	R	With Change 1 dated 30 June 44; Change 2 dated 8 Sep 44
OP 1219M....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1219N....	Ammunition Code Catalog Class N, Fleet Return Projector Charge and Rocket Ammunition	13 Jul 45	R	1st rev. See remarks for OP 1219N in Part 1
OP 1318.....	Rocket Launcher Mk 36 Mod 0 Description and Instructions for Use (Preliminary)	14 Nov 44	R	
OP 1330.....	Mine Disposal Handbook.....	1 Nov 44	C	Accountable, Distribution limited to Mine Disposal Personnel
OP 1415.....	Rocket Assemblies (Preliminary).....	7 Apr 45	C	Supersedes OD 5368
SNL S-9 (ORD 11)	Rockets All Types and Components.....	.....	..	War Dept Publication
OP 1260.....	Rocket Ammunition, 5"0 Rocket (5"0 Motor) Spin Stabilized (Preliminary) (Fuze Mk 30 Mod 3, Mk 31, Mk 100)	6 Feb 45	R	See remarks for OP 1260 in Part 1
OP 1002.....	7"2 Rocket Launchers Mk 20, Mk 22 and Ammunition (Fuze Mk 131 and Mods, Mk 135 and Mods)	30 Nov 43	C	1st rev. See remarks for OP 1002 in Part 1
OP 1017.....	Special Fuzes for Rockets, Projector Charges and Miscellaneous Munitions	13 Jun 44	R	1st rev. Issued with OTI A3-44. Supersedes OCL AV13-44. OP 1017 superseded OP 953
NavOrd Chart A2-44	Nose Fuze Mk 131 and 136 (Sensitive contact fuzes for use in 7"2 Rockets and Projector Charges)	Undated	R	
NavOrd Chart A3-44	Nose Fuze Mk 135.....	.....	R	
OP 1001.....	Projectors Mk 10, Mk 10 Mod 1 and Mk 11 and Ammunition. Description and Instructions for Use (Mk 136 Fuze)	25 Jul 44	R	1st rev. With Change 1 dated 24 Oct 44. Supersedes OCLs A113-43, G12-44
OP 1017.....	Special Fuzes for Rockets, Projector Charges and Miscellaneous Munitions	13 Jun 44	R	1st rev. See remarks for OP 1017 in Part 1
OP 1239.....	5"0 Rocket (5"0 Motor, Fin Stabilized) (Preliminary) (Fuze Mk 149, Mk 159)	8 Dec 44	R	See remarks for OP 1239 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Fuzes, Rocket and Projector Charge				
NavOrd Chart A4-44	Nose Fuze Mk 137.....		R	
OP 1111.....	475 Rocket Ammunition, Description and Instructions for Use	10 May 44	R	Issued with OTI A3-44. This OP in conjunction with OP 1003 (1st rev). Supersedes OP 1003 dated Dec 1942
NavOrd Chart A5-44	Nose Fuze Mk 139.....	Undated	R	
NavOrd Chart *A1-44	Nose Fuze Mk 140.....		D	
NavOrd Chart A6-44	Nose Fuze Mk 145.....		R	
NavOrd Chart A8-44	Nose Fuze Mk 147 Mod 1.....		R	
NavOrd Chart A10-44	Nose Fuze Mk 149.....	Undated	R	
OHI A5-44...	Installation of NF Mk 152 in 7"2 Demolition Rocket Body for Use Against Land Mines, Etc	24 Mar 44	R	
OP 1361.....	Napalm Bombs (Aircraft Jettisonable Fuel Tanks Used as Incendiary Bombs) (Preliminary) (M154 and M157)	21 Apr 45	R	See remarks for OP 1361 in Part 1
OP 1227.....	11775 Rocket Ammunition, Description and Instructions for Use (Fuze Mk 157 Mod 2)	13 Mar 45	C	1st rev. Issued with Change 1 dated 17 May 45, Change 2 dated 5 Jun 45. Now issued by BuAer. NAVAER No 11-75b-501
OP 1470.....	VT Rocket Fuzes (For Aircraft Rockets) (Preliminary)	6 Apr 45	C	
OHI AV4-45..	5"0 Aircraft Rocket Mk 1 Mod 5 (Fuze VT Mk 172)	16 May 45	R	
OP 1480A	VT Fuzes For Spin Stabilized Rockets, Characteristics and Operational Use (Preliminary) (Fuze VT Mk 173)	23 Jul 45	C	
Fuzes, Time				
OD 2932.....	Heat Treatment of Mechanical Time Fuze Parts.....	2 Sep 42	D	
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges (Flare Fuzes)	18 May 45	R	
OD 2096.....	3"/50 Anti-aircraft Tracking Sheet for Torpedo Plane Attacks 21 Second Fuze Mk 16 Mods 2 and 3	4 Jan 34	R	
OP 1451.....	5"/38 Window Projectiles (Preliminary).....	23 Feb 45	C	Supersedes OCL A51-44
NavOrd Chart A43-43	Mechanical Time Fuzes—Clock (Nose) Mk 18, 22 and 25	1 Sep 43	R	
OP 1451.....	5"/38 Window Projectiles (Preliminary).....	23 Feb 45	C	Supersedes OCL A51-44
OP 998.....	Aircraft Pyrotechnics.....	14 Jul 43	R	Supersedes OP 562. See remarks for OP 998 in Part 1
NavOrd Chart AV27-43	Flare Fuze AN-M111A1, AN-M111A2 (Mechanical Time)	12 Nov 43	R	
TB9X-111	Preliminary Instructions Mechanical Time Fuze M111A2 Modified to Fuze T77 for Cluster M26	16 May 45	R	War Dept Publication. See remarks for TB9X-111 in Part 1
OP 1411.....	Blasting Caps and Related Demolition Material (Preliminary)	28 Dec 44	D	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Fuzes, Torpedo				
OP 1219F.....	Ammunition Code Catalog Class F, Torpedo Warheads and Accessories (<i>Fuses, Torpedo Superheater</i>)	5 Nov 45	R	1st rev. See remarks for OP 1219F in Part 1
GAGES				
OP 1284.....	Instructions for the Overhaul, Inspection and Test of Gun, Browning Aircraft Machine cal .50 AN-M2	Dec 1944	R	For Shop use only, not issued to the Fleet
OP 1434.....	Inspection Gage Manual for Inspectors of Naval Ordnance Material	16 Feb 45	D	With Change 1 dated 24 May 45
OD 2398.....	Test Gauge Equipment for Checking Air and Liquid Gauges on Counter-Recoil Systems For Assemblies 1001 and 1002	18 Apr 40	D	
OD 2727.....	Test Gauge Equipment for Checking Air and Liquid Gauges in Counter Recoil Systems	28 Mar 35	D	
OD 2854.....	Gauges—(Cork Plugs Mk 2 for 5"/38 and 6"/47 cal Cartridge Cases)—General Description and Instructions for Use	22 Mar 39	D	
OD 2937.....	Submarine Torpedo Tube Barrel Centerline Gauge—Description and Instructions	Undated	D	
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Breech Bore, Firing Pin Hole, Slide Locating Gages</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
#OP 592.....	6"/47 cal Triple Gun Turrets for CLs 40-43 and 46-50 Description and Instructions (<i>Bore Erosion Gage Mk 1</i>)	May 1941	R	Issued with OCL G31-43 and Change 1 dated 27 Jan 45, Change 2 dated 7 Feb 45. Supersedes OD 3376
OP 833.....	6"/47 cal Triple Turrets CL 55 Class (<i>Bore Erosion Gage Mk 1</i>)	Jun 1942	R	Issued with Appendix 1, OCL G31-43 and Change 1 dated 27 Jan 45. Supplemented by OP 1069
OD 2709.....	Inspecting Instruments Primer Seat Gauges—General Description and Method for Using	15 Jan 35	D	
GALVANOMETER				
#OP 1178.....	Demolition Material (<i>Blasting</i>).....	8 Dec 44	R	
GANTRIES, See CRANES				
GAS				
#OP 975.....	Aircraft Vesicant Munitions.....	Mar 1943	R	Now issued by BuAer. NAVAER No. 24-10-501
OP 1447.....	Gas Identification Sets.....	14 Jun 45	D	Supersedes OCL X14-42
OP 1219C.....	Ammunition Code Catalog Class C, Chemicals.....	1 Oct 44	R	See remarks for OP 1219C in Part 1
GAS EJECTORS, See EJECTORS, GAS				
GASKETS				
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1219A.....	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 1219O.....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
*OD 2956.....	Lead Gaskets for Optical Instruments Manufacture and Assembly			

*Under preparation. ‡Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
GAUGES, See GAGES				
GEARS				
OP 1118.....	Instructions for Installation of Mines in Aircraft (<i>Flight Gear</i>)	28 Jan 44	R	See remarks for OP 1118 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for USS <i>ALASKA, GUAM</i> and <i>HAWAII</i> (<i>Preliminary</i>) (<i>Parbuckling Gear Mks 1 and 2</i>)	25 Oct 44	R	
Gears, Depth Charge Release				
See also TRACKS, DEPTH CHARGE				
*OP 904.....	Depth Charge Release Gears.....			Will supersede OPs 35 and 721
OP 35.....	Depth Charge Release Gear Mk 1 Description and Operation	Feb 1930	R	2nd rev. Issued with OCLs M15-42 and M5-43. Will be superseded by OP 904
OP 721.....	Depth Charge Release Gear Mk 3 Description and Operation	Feb 1938	R	Issued with OCL M25-43, OTI M11-43. Will be superseded by OP 904
Gears, Director				
OD 480.....	Assemblies Director Gear 6" Elevating Gun Attachment Mks 1 and 2 and 6" Training Gun Attachment Mks 1 and 2	27 Jul 22	D	
Gears, Elevating				
OP 735.....	5"/38 cal Gun Mounts, AA Base Ring Type Mk 30 and Mk 30 and Mods Except Merchantmen Type	May 1943	R	1st rev. See remarks for OP 735 in Part 1
OP 1066.....	Electric Hydraulic Drives and Indicator Regulators for 5"/38 cal Single Mount Elevating and Training Gear	19 Jun 45	R	Supersedes ODs 3897 and 3902
OD 3368.....	Non-firing Type Tests of Elevating and Training Gear Electric Hydraulic Drives and Control Ford-Waterbury 5"/38 cal Mounts Mk 25 and Mk 30 DD 380 Class	10 Aug 38	R	
OD 3477.....	Report of Non-firing Tests 5"/38 cal Mount Mk 30 Elevating and Training Gear Electric Hydraulic Drives	12 Feb 41	R	Rev A
*OD 3504.....	Description of Elevating and Training Gears for 5"/38 cal Mount Mk 21 Mods 3 and 4			
OD 3752.....	Tests at Naval Gun Factory of 5"/38 cal Elevating Gear Power Drive (For CLs 49 and 50)	16 Jan 42	R	
OD 4677.....	Test of Wormwheel Drives for Elevating Gear 5"/38 Twin Mount Straight Worm VS, Cone Worm	21 Mar 44	R	
OP 748.....	5"/38 cal Enclosed Single Mounts AA Mk 25 and Mk 25 Mods 1 and 2 (<i>Preliminary</i>) (<i>Elevating Gear Mk 2</i>)	Jan 1941	R	See remarks for OP 748 in Part 1
OD 4168.....	Instructions for Installation of Gun Elevation Receiver Regulator Mk 7 for 5" Elevating Gear Mk 3 Mod 1, 5"/38 cal Twin Mount Mk 29 Used on CLs 49 and 50	24 Sep 41	D	
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries, 38 cal DP, Single, Open, Base Ring Type, Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49 (<i>Elevating Gear Mk 4 Mods 5 and 8</i>)	11 Apr 44	R	See remarks for OP 1013 in Part 1
OP 805.....	5"/38 cal Twin Gun Mounts, AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2, Description and Instructions (<i>Elevating Gear Mks 5, 9, 10</i>)	Feb 1942	R	See remarks for OP 805 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks (for revision)
Gears, Elevating				
OD 4436.....	Instructions for Installation of Electric Hydraulic Drive Equipment for 5" Training Gear Mk 6 Mods 6, 7, 9, 10, 17-20, 5" Elevating Gear Mk 6 Mod 6, 7, 17, 18 and Telescopes Mk 61 and Mods 62 and Mods on 5"/38 cal Single AA Gun Mounts incl Instructions for Testing After Installation	29 Jan 43	R	
OD 4190.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Elevating Gear Mk 9 or Mk 10 on 5"/38 cal Twin Mounts	23 Dec 42	R	
*OD 4193.....	Summary of Routine Tests of Electric Hydraulic Equipment for 5" Training and Elevating Gear Mk 9 and 10 for 5"/38 Mount, Twin, Train Indicator Regulator Mk 46 Elevation Indicator Regulator Mk 42			
OD 4177.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Elevating Gear Mk 10 for 5"/38 cal Twin Mounts Mk 32	10 Mar 42	R Rev A	
OD 4400.....	Instructions for Installation of Electric Hydraulic Drive Equipment 5" Training Gears Mk 10 and Mk 10 Mod 1 and 5" Elevating Gear Mk 10 on 5"/38 cal Twin Gun Mounts Mk 32 and Mk 32 Mods 1 and 2	15 Sep 42	R Rev A	
OP 700.....	5" Mounts (38 cal AA Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, 11, Assemblies, Description and Instructions (<i>Elevating Gear Mk 12</i>)	Sep 1942	R	See remarks for OP 700 in Part 1
OP 868.....	5"/38 cal Single Mount Mk 37 (<i>Elevating Gear Mk 14</i>)..	Feb 1943	R	See remarks for OP 868 in Part 1
OP 895.....	5"/38 cal AA Mount Mk 30 Mod 50, Assemblies for Merchantmen, Description and Instructions (<i>Elevating Gear Mk 14</i>)	Dec 1942	R	See remarks for OP 895 in Part 1
*OD 4553.....	6" and 8" Elevating Gear Electric Hydraulic Equipment			
OTI G4-44....	6" Training and Elevating Gear Electric Hydraulic Equipment Used on BBs, CAs and CLs for Main Battery Remote Control Installation	2 Mar 44	R	
OP 592.....	6"/47 cal Triple Gun Turrets for CLs 40-43 and 46-50, Description and Instructions (<i>Elevating Gear Mk 2</i>)	May 1941	R	See remarks for OP 592 in Part 1
#OP 833.....	6"/47 cal Triple Turrets CL 55 Class (<i>Elevating Gear Mk 2 Mod 1</i>)	May 1942	R	With Change 1 dated 27 Jan 45 and Appendix 1
OD 4062.....	Hydraulic Power Equipment for Elevating Gear Mk 2 Mod 1 for 6"/47 cal Three-Gun Turrets	31 Dec 42	D	
OD 4451.....	Report of Tests of Automatic Control of Cold Temperature and Accelerated Life on 6"/47 cal Elevating Controls	21 Dec 42	R	
OD 1933.....	8" Elevating and Training Gears Speed Gear Control Screw Cut-out Switches Description and Instructions for Installation	10 Jun 30	D	
*OD 4553.....	6" and 8" Elevating Gear Electric Hydraulic Equipment			
OP 569.....	8" Triple Mounts for CAs 32, 34, and 36 Description (<i>Elevating Gear Mk 17</i>)	Dec 1934	R	Supersedes ODs 2091 and 2050
OP 704.....	8" Triple Gun Turrets for CA 45 (<i>Elevating Gears Mk 19 and 19 Mods 1 and 2</i>)	Oct 1941	R	Supersedes earlier blueprint copies
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class, CAs 68-75, 122-138 (<i>Preliminary</i>) (<i>Elevating Gear Mk 19 Mods 3, 4, 5, 6, 7, 8</i>)	Apr 1943	R	See remarks for OP 834 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Gears, Elevating				
OD 4202.....	Electric Hydraulic Control and Drive Gear Mk 18 Mod 1 and Elevating Gear Mk 19 Mods 3, 4 and 5 Instruction Book	Undated	R	
OD 4692.....	Type Approval Tests of Electric Hydraulic Equipment for 8" Elevating Gear CA 68 Class	20 Sep. 44	R	
*OP 1194.....	Electric Control of Hydraulic Equipment for 8" Training Gear Mk 19 and Mk 19 Mod 1, Mk 20 and Mk 20 Mod 1, Mk 21, Mk 23, and Mk 23 Mod 1, and 8" Elevating Gear Mk 20, Mk 21, Mk 22 and Mk 24			
OD 1709.....	8" Training Gear Mk 20 8" Elevating Gear Mk 21 8" Elevating Gun Attachment Mk 4—Manufacturing List of Parts with Instructions for Assembly and Installation on CA 32 and CA 36	Jun 1943	R	
OP 835.....	12" Triple Gun Turrets, Main Armament for USS <i>ALASKA</i> , <i>GUAM</i> and <i>HAWAII</i> (Preliminary) (Elevating Gear Mk 11)	25 Oct 44	R	
*OD 5123.....	Electric Hydraulic Equipment for 12" Training Gear Mk 1 and 12" Elevating Gear Mk 11 Mods 0, 1 and 2			
OD 863.....	Instructions 14" Elevating Gear Mk 1 Mod 4 for USS <i>NEW YORK</i> & USS <i>TEXAS</i> , <i>OKLAHOMA</i> & <i>NEVADA</i>	29 Jun 26	D	
OP 966.....	14" Elevating Gear 14" Training Gear and Receiver Regulator Controls USS <i>TENNESSEE</i> & <i>CALIFORNIA</i>	May 1943	R	Supersedes OP 310
OD 3550.....	16"/45 cal Three-Gun Turrets Training and Elevating Gear Hydraulic Power Equipment (BBs 57-60)	1 May 41	R	
OD 3759.....	Test of Waterbury Electric Hydraulic Drives for 16" Elevating Gear	21 Jan 42	R	
*OD 4555.....	Electric Hydraulic Equipment for 16"/45 cal Elevating Gear Drives			
OP 755.....	16" Triple Turret for BBs 55-60 (45 cal)—Description and Instructions (Elevating Gear Mk 4 and Mods)	Dec 1941	R	1st rev. See remarks for OP 755 in Part 1
OD 4784.....	Special Accelerated Life Test of 16" Elevating Gear Drive and Control (Waterbury-General Electric) in a Shop Setup Simulating Sustained Battle Firing Conditions	24 May 45	R	
OP 769.....	16" Triple Gun Turrets—Main Armament for USS <i>IOWA</i> Class (BBs 61-66)—16"/50 cal (Preliminary) (Elevating Gear Mk 5 and 5 Mods 1 and 2)	Jun 1943	R	See remarks for OP 769 in Part 1
*OP 967.....	16" Elevating Gear Mk 6 and Mk 6 Mod 1 16" Training Gear Mk 3 Including Receiver Regulator Control <i>WEST VIRGINIA</i> & <i>MARYLAND</i>			
Gears, Parallax Change				
OD 2911.....	Installation Instructions for Parallax Change Gears in Train Receiver Regulator Mk 7	8 Apr 41	R	
OD 4522.....	Installation Instructions for Compensating Parallax Change Gears for Train Receiver Regulator Mk 13 Mods 1 to 8 and 15 to 19 for 6" Training Gear Mk 2 Mod 1		R	
Gears, Speed				
*OD 3536.....	Train Test of 8" <i>WICHITA</i> Turret Arma Regulator and Waterbury Speed Gear			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Gears, Speed				
*OD 3541.....	Train Test on 8" WICHITA Turret General Electric Regulator Waterbury Speed Gear			
*OD 3563.....	Train Test of 8"/55 cal Three-Gun Turret with Ford Receiver Regulator and Waterbury Speed Gear			
OD 3780.....	Report of Accelerated Life Test on 5"/38 cal Elevation Indicator Regulator and Electric Hydraulic Drive BBs 55 and 56	4 Sep 43	R	
OD 3365.....	Test of Hydraulic Variable Speed Gear Size 10.....	14 Jan 38	R	
OD 2853.....	Dynamometer Tests of Hydraulic Variable Speed Gear Waterbury Size 10 Type C Elevating Gear for CLs 49 and 50	22 Mar 39	R	
OD 3390.....	Rammer Test of Hydraulic Variable Speed Gear Waterbury Tool Company Size 10-C	12 Oct 38	D	
OD 3396.....	Fly Wheel Tests of Hydraulic Variable Speed Gear Waterbury Tool Company Size 10-C Reg No 3976	21 Dec 38	D	
OD 3418.....	Rammer Test of Hydraulic Variable Speed Gear Size 10-K Spare Unit for CA 45 Elevating Gear	6 Jun 39	R	
OD 3388.....	Test of Hydraulic Variable Speed Gear Size 7030 "A" 7130 "B" (Constant Velocity Joints)	12 Sep 38	D	
OD 3389.....	Rammer Test of Hydraulic Variable Speed Gear (Northern Pump Company) Size 7030 "A" and 7130 "B"	12 Sep 38	R	
OD 3395.....	Fly Wheel Test Results of Hydraulic Variable Speed Gear Northern Pump Co Size 7030 "A" and 7130 "B"	29 Nov 38	D	
OD 3391.....	Rammer Test of Hydraulic Variable Speed Gear Vickers Inc N-142-b Serial No 2	22 Nov 38	D	
OD 3397.....	Fly Wheel Test of Hydraulic Variable Speed Gear Vickers Inc N-142-B Serial No 2	22 Mar 39	D	
Gears, Training				
OP 735.....	5"/38 cal Gun Mounts, AA Base Ring Type Mk 30 and Mk 30 and Mods, Except Merchantmen Types	May 1943	R	1st rev. See remarks for OP 735 in Part I
OP 1066.....	Electric Hydraulic Drives and Indicator Regulators for 5"/38 cal Single Mount Elevating and Training Gears	19 Jun 45	R	Supersedes ODs 3897 and 3902
OD 3477.....	Report of Non-firing Tests 5"/38 cal Mount Mk 30 Elevating and Training Gear Electric Hydraulic Drives	12 Feb 41	R	Rev A
OD 4665.....	Test of Worm and Worm Wheel Submitted by Prof Earle Buckingham (Wildhaber Type) for 5"/38 cal Mount Training Gear	24 Feb 44	R	
OP 748.....	5"/38 cal Enclosed Single Mounts AA Mk 25 and Mk 25 Mods 1 and 2 (Preliminary). (Training Gear Mk 2)	Jan 1941	R	See remarks for OP 748 in Part I
OD 4167.....	Instructions for Installation of Gun Train Receiver Regulator Mk 12 for Training Gear Mk 3 Mod 1, 5"/38 cal Twin Mount Mk 29 Used on CLs 49 and 50	24 Sep 41	D	
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries—38 cal DP, Single, Open, Base Ring Type Mk 30 and Mods 20, 38, 39, 40, 45, 46, 48 and 49	11 Apr 44	R	See remarks for OP 1013 in Part I
OP 805.....	5"/38 cal Twin Gun Mounts, AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2, Description and Instructions (Training Gear Mks 5, 9, 10)	Feb 1942	R	See remarks for OP 805 in Part I
OD 4436.....	Instructions for Installation of Electric Hydraulic Drive Equipment for 5" Training Gear Mk 6 Mods 6, 7, 17, 18 and Telescopes Mk 61 and Mods 62 and Mods on 5"/38 cal Single AA Gun Mount—Including Instructions for Testing After Installation	29 Jan 43	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Gears, Training				
OD 4189.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Training Gear Mk 9 or Mk 10 on 5"/38 cal Twin Mounts (<i>Training Gear Mk 9 and 10</i>)	May 1942	R	
#OD 4193.....	Summary of Routine Tests of Electric Hydraulic Equipment for 5" Training and Elevating Gears Mk 9 and 10 for 5"/38 Mount, Twin, Train Indicator Regulator Mk 46 Elevation Indicator Regulator Mk 42			
OD 4176.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Training Gear Mk 10 for 5"/38 cal Twin Mounts Mk 32	12 Mar 42	D Rev A	
OD 4400.....	Instruction for Installation of Electric Hydraulic Drive Equipment—5" Training Gear Mk 10 and Mk 10 Mod 1 and 5" Elevating Gear Mk 10 on 5"/38 cal Twin Gun Mounts Mk 32 and Mk 32 Mods 1 and 2	15 Sep 42	R Rev A	
OP 700.....	5" Mounts, (38 cal AA Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, 11, Assemblies, Description and Instructions (<i>Training Gear Mk 12</i>)	Sep 1942	R	See remarks for OP 700 in Part 1
OP 868.....	5"/38 cal Single Mount Mk 37 (<i>Training Gear Mk 14</i>)	Feb 1943	R	See remarks for OP 868 in Part 1
OP 895.....	5"/38 cal AA Mount Mk 30 Mod 50, Assemblies for Merchantmen, Description and Instructions (<i>Training Gear Mk 14 Mod 1</i>)	Dec 1942	R	See remarks for OP 895 in Part 1
*OD 4554.....	6" and 8" Training Gear Equipment Electric Hydraulic Equipment			
OTI G4-44....	6" Training and Elevating Gear Electric Hydraulic Equipment Used on BBs, CAs and CLs for Main Battery Remote Control Installation	2 Mar 44	R	
OP 592.....	6"/47 cal Triple Gun Turrets for CLs 40-43, 46-50, Description and Instructions (<i>Training Gear Mk 2</i>)	May 1941	R	See remarks for OP 592 in Part 1
#OP 833.....	6"/47 cal Triple Turrets CL 55 Class (<i>Training Gear Mk 2 Mod 1</i>)	Jun 1942	R	With Change 1 dated 27 Jan 45, Appendix 1 and OCL G31-43
OD 4061.....	Electric Hydraulic Power Equipment for Training Gear Mk 2 Mod 1 for 6"/47 cal Three Gun Turrets	31 Dec 42	D	
OD 4522.....	Installation Instructions for Compensating Parallax Change Gears for Train Receiver Regulator Mk 13 Mods 1 to 8 and 15 to 19 for 6" Training Gear Mk 2 Mod 1	Undated	R	
OD 1933.....	8" Elevating and Training Gears Speed Gear Control Screw Cut-out Switches Description and Instructions for Installation	10 Jun 30	D	
OD 3463.....	Control Tests with 8" Training Gear Drive—Conducted at Naval Gun Factory	26 Mar 42	D	
OD 3468.....	8" Experimental Training Gear Electric Hydraulic Equipment Description	15 Jan 40	R	
*OD 4554.....	6" and 8" Training Gear Equipment Electric Hydraulic Equipment			
OP 569.....	8" Triple Mounts for CAs 32, 34 and 36 Description (<i>Training Gear Mk 17 and 17 Mod 1</i>)	Dec 1934	R	Supersedes ODs 2091 and 2050
OP 704.....	8" Triple Gun Turrets for CA 45 (<i>Training Gear Mk 18</i>)	Oct 1941	R	Supersedes earlier blueprint copies
OD 3860.....	Description of Train Regulator Mk 8 for 8" Training Gear Mk 18	28 Mar 40	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Gears, Training				
OP 834.....	8" Triple Gun Turrets, <i>USS BALTIMORE</i> Class, CAs 68-75, 122-138 (<i>Preliminary</i>) (<i>Training Gear Mk 18 Mod 1</i>)	Apr 1943	R	See remarks for OP 834 in Part 1
OD 4202.....	Electric Hydraulic Control and Drive Gear for Training Gear Mk 18 Mod 1 and Elevating Gear Mk 19 Mods 3, 4, 5. Instruction Book	Undated	R	
*OP 1194.....	Electric Control of Hydraulic Equipment for 8" Training Gear Mk 19 and Mk 19 Mod 1, Mk 20 and Mk 20 Mod 1, Mk 21, Mk 23, and Mk 23 Mod 1 and 8" Elevating Gear Mk 20, Mk 21, Mk 22 and Mk 24			
OD 1709.....	8" Training Gear Mk 20, 8" Elevating Gear Mk 21 8" Elevating Gun Attachment Mk 4—Manufacturing List of Parts with Instructions for Assembly and Installation on CA 32 and CA 36	Jun 1943	R	
OP 835.....	12" Triple Gun Turrets, Main Armament for <i>USS ALASKA</i> , <i>GUAM</i> , and <i>HAWAII</i> (<i>Preliminary</i>) (<i>Training Gear Mk 1</i>)	25 Oct 44	R	
*OD 5123.....	Electric Hydraulic Equipment for 12" Training Gear Mk 1 and 12" Elevating Gear Mk 11 Mods 0, 1 and 2			
OP 966.....	14" Elevating Gear 14" Training Gear Receiver Regulator Controls <i>USS TENNESSEE & CALIFORNIA</i>	May 1943	R	Supersedes OP 310
OD 3550.....	16"/45 cal Three Gun Turrets Training and Elevating Gear Hydraulic Power Equipment (BBs 57-60)	1 May 41	R	
OD 3607.....	Test of Northern Electric Hydraulic Drive for 16" Training Gear BBs 55 and 56	18 Feb 42	R	Rev A
OD 3609.....	Test of Waterbury Electric Drive for 16" Training Gear BBs 57 to 60	13 May 41	R	
OP 755.....	16" Triple Turret for BBs 55-60 (45 cal)—Description and Instructions (<i>Training Gear Mks 1 and 1 Mod 1</i>)	Dec 1941	R	1st rev. See remarks for OP 755 in Part 1
OD 3433.....	Hydraulic Power Equipment for Training Gear for 16"/50 cal Three Gun Turrets (BBs 61-66)	5 Apr 44	R	
*OP 967.....	16" Elevating Gear Mk 6 and Mk 6 Mod 1, 16" Training Gear Mk 3 Including Receiver Regulator Control <i>WEST VIRGINIA & MARYLAND</i>			
OP 769.....	16" Triple Gun Turrets—Main Armament for <i>USS IOWA</i> Class, BBs 61-66—16"/50 (<i>Preliminary</i>) (<i>Training Gear Mks 5 and 5 Mods 1 and 2</i>)	Jun 1943	R	See remarks for OP 769 in Part 1
Gears, Torpedo Tube Training				
OP 577.....	21" AW Torpedo Tubes (Quad) Mks 11, 12, 13 and Mods—Description DDs 348-420 (<i>Training Gear Mks 1 and 1 Mods 1 and 2</i>)	Dec 1939	R	4th Rev. Issued with OCLs T4-43, T10-44
OD 2761.....	Descriptive Pamphlet for Hydraulic Equipment for 21" AW Torpedo Tubes Mks 14 and 15 Quintuple Tube for Destroyers Training Gear Mk 3 Mod 1	22 Jul 40	C	Rev D
OD 3627.....	Electric Hydraulic Equipment for 21" AW Torpedo Tube Training Gear Mk 6 and Mk 6 Mod 1 Instructions for Operation and Maintenance	31 Aug 42	R	
OD 3746.....	21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4, 5, 8 and 9, Mk 15 Mods 1, 2, 3, 4, 5, 8 and 9 Method of Testing the Equipment after Installation Aboard Ship (<i>For Electric Hydraulic Equipment Mk 6, Mk 6 Mod 1, Mk 7 and Mk 7 Mod 1</i>)	6 Dec 44	R	Rev C

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Gears, Torpedo Tube Training				
OD 4059.....	Electric Hydraulic Equipment for 21" AW Torpedo Training Gear Mk 7 Instructions for Installation, Operation and Maintenance	31 Aug 42	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1
GENERATING UNITS, See UNITS				
GENERATORS				
See also SELSYNS				
SMOKE SCREEN EQUIPMENT				
SYNCHROS				
OP 989.....	Antenna Train Drive Mk 3 (Generator, Motor Amplidyne)	21 Sep 44	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operation and Maintenance	1 Aug 44	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1
OD 4416.....	Diesel Engine Driven Generator Set Furnished by Schramm Inc Report of Acceptance Tests and Inspection	8 Jul 42	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1
OD 3214.....	Description of Special Differential Generator	Undated	R	1st rev.
OD 4639.....	The Determination of the Static Accuracies, Generator Capacities and Stiffness Factors of Synchro Systems Composed of Chains of Cascaded Differential Generators and Capacity of Generators in Terms of 5D Differential Motors	3 Apr 44	R	1st rev.
OP 865.....	Aviation Ordnance Equipment Catalog (Gun Synchronizer Impulse Type E-8 and Motor)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
*OP 1617.....	Interval Selector Mk 1 Mod 0, Interval Generator Mk 1 Mod 0	Undated	R	1st rev.
OHI V7-43...	Gasoline Operated Motor Generator Sets for Bomb-sight Shops	10 Aug 43	R	1st rev.
OP 1291.....	Computer Mk 14 Mod 0 (AN/APA-30)	23 Jan 45	C	1st rev.
OD 938.....	Fire Control Equipment, Instructions for Test of Selsyn Generators, Motors and Transformers	30 May 27	R	1st rev.
OD 1028.....	General Instructions for Testing Zero Setting and Phase Rotation of Selsyn Generators, Motors and Transformers USS PENSACOLA & SALT LAKE CITY	25 Apr 32	D	5th rev.
OD 1037.....	Description of Selsyn Generator Model 81E109—Frame 77 Flange Mounted	Undated	D	8th rev.
OD 1045.....	Selsyn Generators, Motors and Transformers, Instructions for Testing Zero and Phase Rotation of Selsyn Generators, Motors and Transformers—USS WEST VIRGINIA	13 May 29	R	3rd rev.
OD 1762.....	Description of Selsyn Generator Model 81E114 Frame 65 Flange Mounted	Apr 1934	R	1st rev.
OD 1763.....	Description of Selsyn Generator Model 81E118 Frame 05 Flange Mounted	6 Sep 32	R	3rd rev.
OD 1769.....	Description of Selsyn Generator Model 81E119 Frame 77 Flange Mounted	10 May 33	R	4th rev.
OD 1773.....	Description of Selsyn Generator Model 81E112 Frame 87 Flange Mounted	22 Nov 33	R	2nd rev.
OD 2706.....	Instructions for Setting Electrical Zero Selsyn Generators, Motors, Transformers and Receiver Regulators—General Electric	11 Jul 33	R	1st rev.

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GENERATORS				
OP 1042.....	Ships Chemical Munitions, Description and Instructions for Use (<i>Smoke Screen Generator</i>)	25 Sep 43	R	See remarks for OP 1042 in Part 1
OHI C1-43...	Smoke Generator Mk 1.....	13 Sep 43	D	
*NavOrd Chart F3-45	Schematic of Resolver, Velocity Damping Generator and Torque Motor	.....		
Generators, Synchro				
OP 1303.....	U. S. Navy Synchros, Description and Operation (<i>Synchro Generators</i>)	15 Dec 44	D	
OD 3743.....	Report of Tests and Inspection Synchro Generator 1-G Mk 5 Mod 2 Synchro Motor 1-F Mk 8 Mod 2	29 Dec 41	R	
OD 3877.....	Description of Synchro Generator 1G Mk 5 Mod 2.....	1 Nov 43	D	5th rev
OD 3754.....	Report of Tests and Inspection Synchro Generator Type 1G Mk 5 Mod 5	31 Mar 42	R	Rev A
OD 4815.....	Report of Test and Inspection, Synchro Generator Type 3HG Mk 10 Mod 2 Volts 115/90 AC Cycle	10 Aug 45	R	
OD 2890.....	Report of Tests on Operation of Type 5G Synchro Generator with Load of 4 Frame 05 Selsyns	18 Mar 40	R	
OD 4580.....	Report of Tests to Determine Loading Characteristics of a Type 5G Synchro Generator	25 Mar 43	R	
OD 4711.....	Report of Test and Inspection of Synchro Generators Type 5G Mk 1 Mod Volts 115/90 AC Serial Nos 5364-1A and 5364-2A, Submitted for Type Approval by Diehl Manufacturing Co	12 Apr 44	R	
OD 3026.....	Description of Synchro Generator 5G Mk 1 Mod 1....	14 Apr 37	R	Rev A
OD 2481.....	Description of Synchro Generator 5G Mk 1 Mod 2....	24 May 39	D	5th rev
OD 3750.....	Report of Tests and Inspection—Synchro Generators Type 5G Mk 1 Mod 4	1 Jul 42	R	
OD 4663.....	Report of Test and Inspection of Synchro Generator Type 5G Mk 1 Mod 4 and Synchro Motor Type 5F Mk 4 Mod 4 High Speed Synchro	20 Jun 44	R	
OD 4838.....	Report of Test and Inspection of Synchro Generator Type 5G Mk 1 Mod 5—Volts 115/90 AC Cycle	8 Nov 45	R	
OD 2912.....	Synchro Units Type 5G Mk 1 Mod 5 Type 5F Mk 4 Mod 5 Type 5B Mk 5 Mod 5 Type 5N Mk 6 Mod 5 Type 5D Mk 7 Mod 5 Type 6G Mk 2 Mod 5	23 Sep 42	R	
*OD 4824.....	Report of Test and Inspection of Synchro Generator Type 5HG Mk 6 Mod 1	.....		
*OD 4820.....	Report of Test and Inspection, Synchro Generators Type 5HG400 Mk 12 Mod 2	.....		
*OD 4822.....	Report of Test and Inspection, Synchro Generator Type 5HDG400 Mk 14 Mod 3	.....		
OD 3735.....	Report of Test to Determine Whether a Size 6G Synchro Generator can Operate a 6DG Synchro Differential Generator without a Synchro Capacitor	21 Oct 42	R	Rev A
#OD 4524.....	The Determination of the Accuracy and Stiffness Factor of a Synchro System Composed of a Type 6G Synchro Generator Transmitting to Various Loads of Type 5F Synchro Motors	20 Jan 43	R	
*OD 4841.....	Report of Test and Inspection, Synchro Generator Type 6G, Synchro Differential Generator Type 6DG Mk 2 Mod 5, Mk 5 Mod 5	.....		

*Under preparation. #Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Generators, Synchro				
OD 3033.....	Description of Synchro Generator 6G Mk 2 Mod 1.....	14 Apr 37	R	Rev A
OD 2486.....	Description of Synchro Generator 6G Mk 2 Mod 2.....	11 Mar 44	R	7th rev
OD 3677.....	Report of Tests and Inspection Synchro Generators Type 6G Mk 2 Mod 2A	15 Aug 41	R	
OD 3887.....	Description of Synchro Generator 6G Mk 2 Mod 2A....	16 May 43	R	5th rev
OD 4481.....	Report of Tests and Inspection Synchro Generators Type 6G Mk 2 Mod 4	25 Sep 42	R	
OD 3686.....	Report of Tests and Inspection Synchro Generators Type 6G Mk 2 Mod 5	30 Jun 42	R	Rev B
OD 4826.....	Report of Test and Inspection Synchro Generator Type 6G Mk 2 Mod 6—Volts 115/90 AC Cycle 60	19 Nov 45	R	
OD 4817.....	Report of Test and Inspection Synchro Generator Type 6HG Mk 7 Mod 1—Volts 115/90 AC Cycle	19 Nov 45	R	
OD 3903.....	Description of Synchro Generator Type 6SG Mod 2A (Flange Mounted)	Undated	R	
OD 4505.....	An Investigation of the Magnetizing Currents Drawn from a Synchro Generator Type 7G by a Differential Generator Type 5DG Under Various Combinations of Type 1F and Type 5F Synchro Motors Load (Static Condition)	17 Nov 42	R	
OD 4785.....	Synchro System, Test One Type 7G Generator Transmitting to the Rotors and Six Type 6G Generators Transmitting to the Stators of Thirty-Eight Type 5D Differential Motors	20 Apr 45	R	
OD 3029.....	Description of Synchro Generator 7G Mk 2 Mod 1....	14 Apr 37	R	Rev A
OD 2488.....	Description of Synchro Generator 7G Mk 3 Mod 2....	15 May 36	R	3rd rev
OD 4601.....	Report of Test and Inspection Synchro Differential Generators Type 7DG Mk 6 Mod 2 and Synchro Generators Type 7G Mk 3 Mod 2	24 May 43	R	
OD 3580.....	Description of Synchro Differential Generator 7G Mk 3 Mod 2A	2 Oct 41	R	2nd rev
OD 3894.....	Description of Synchro Generator Mk 3 Mod 2B (7G Flange Mounted)	6 May 43	D	2nd rev
OD 4721.....	Report of Test and Inspection Synchro Generators Type 7G Mk 3 Mod 4 V115/90 AC Serial Nos A and B	28 Nov 44	R	Rev A
*OD 4845.....	Report of Test and Inspection Synchro Generator Type 6HG Mk 7 Mod 5	.....	..	
OD 4769.....	Report of Test and Inspection Synchro Generator Type 7HG Mk 9 Mod 5—Volts 115/90	19 Nov 45	R	Rev A
OD 2516.....	Description of Synchro Generator 7SG Mk 8 Mod 2....	23 Mar 36	R	2nd rev
OD 3898.....	Description of Synchro Generator Mk 8 Mod 2B (7SG Flange Mounted)	2 Jun 43	R	1 hole 6
OD 3035.....	Description of Synchro Generator 8G Mk 4 Mod 1....	14 Apr 37	R	Rev A
OD 2490.....	Description of Synchro Generator 8G Mk 4 Mod 2....	5 Mar 36	R	2nd rev
OD 3852.....	Description of Synchro Generator 8G Mk 4 Mod 2A....	6 May 43	R	4th rev
Generators, Synchro Differential				
OD 3671.....	Report of Tests and Inspection Synchro Differential Generator Type 1DG Mk 1 Mod 1	8 Jan 42	R	Rev A
OD 4731.....	Report of Test and Inspection of Synchro Differential Generator Type 1 DG Mk 1 Mod 1 to replace a Differential Motor Type 1D and Tests of other Synchro Systems	8 Aug 44	R	

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Generators, Synchro Differential				
*OD 4949.....	Report of Test and Inspection Differential Generator Synchro Type 1HDG Mk 13 Mod 1			
OD 2912.....	Synchro Units Type 5G Mk 1 Mod 5 Type 5F Mk 4 Mod 5 Type 5B Mk 5 Mod 5 Type 5N Mk 6 Mod 5 Type 5D Mk 7 Mod 5 Type 6G Mk 2 Mod 5	23 Sep 42	R	
OD 4505.....	An Investigation of the Magnetizing Currents Drawn from a Synchro Generator Type 7G by a Differential Generator Type 5DG Under Various Combinations of Type 1F and Type 5F Synchro Motors Load (Static Conditions)	17 Nov 42	R	
OD 3702.....	Report of Tests and Inspection Synchro Differential Generators Type 5DG Mk 4 Mod 2	8 Apr 42	R	Rev A
OD 3890.....	Description of Synchro Differential Generator 5DG Mk 4 Mod 2	24 Aug 45	D	3rd rev
OD 4459.....	Report of Tests and Inspection of Synchro Differential Generator Type 5DG Mk 4 Mod 5	12 Oct 42	R	
OD 4819.....	Report of Test and Inspection—Synchro Differential Generator Type 5HDG Mk 9 Mod 1—Volts 90/90 AC Cycle 60	18 Dec 45	R	
OD 3031.....	Description of Synchro Differential Generator 6DG Mk 5 Mod 1	14 Apr 37	R	Rev A
OD 2487.....	Description of Synchro Differential Generator 6DG Mk 5 Mod 2	11 Mar 41	R	7th rev
OD 3678.....	Report of Tests and Inspection Synchro Differential Generator Type 6DG Mk 5 Mod 2A	9 Aug 41	R	
OD 3888.....	Description of Synchro Differential Generator 6DG Mk 5 Mod 2A	6 May 43	D	3rd rev
OD 3406.....	Report of Tests and Inspection 6DG Synchro Differential Generator Mk 5 Mod 3 SCT Synchro Control Transformer Mk 1 Mod 3	23 Jan 39	R	
*OD 4948.....	Report of Test and Inspection Synchro Generator Type 6G Mk 2 Mod 5			
OD 4592.....	Report of Tests and Inspection of Synchro Differential Generator Type 6DG Mk 5 Mod 4	9 Apr 43	R	
OD 3685.....	Report of Tests and Inspection Synchro Differential Generators Type 6DG Mk 5 Mod 5	16 Oct 42	R	Rev B
*OD 4947.....	Report of Test and Inspection Synchro Differential Generator Type 6DG Mk 5 Mod 5			
*OD 4818.....	Report of Test and Inspection Synchro Differential Generator Type 6HDG Mk 10 Mod 1			
OD 3032.....	Description of Synchro Differential Generator 7DG Mk 6 Mod 1	14 Apr 37	R	Rev A
OD 2489.....	Description of Synchro Differential Generator 7DG Mk 6 Mod 2	15 May 36	R	3rd rev
OD 4601.....	Report of Test and Inspection Synchro Differential Generators Type 7 DG Mk 6 Mod 2 and Synchro Generators Type 7G Mk 3 Mod 2	24 May 43	R	
OD 3851.....	Description of Synchro Differential Generator 7DG Mk 6 Mod 2A	2 Oct 41	R	2nd rev
OD 3895.....	Description of Synchro Differential Generator Mk 6 Mod 2B (7DG Flange Mounted)	6 May 43	D	3rd rev
OD 3383.....	Report of Tests and Inspection Synchro Differential Generator Mk 6 Mod 3 (Size 7DG)	15 Jul 38	R	

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Generators, Synchro Differential				
*OD 3853.....	Synchro Units Description of Synchro Differential Generator Mk 7 (8DG)			
OD 2491.....	Description of Synchro Generator 8DG Mk 7 Mod 2....	Undated	R, 2nd rev	
*OD 4844.....	Report of Test and Inspection Synchro Differential Generator Type 6HDG Mk 10 Mod 5 SLS	14 Jan 46	R	
OD 4816.....	Report of Test and Inspection—Synchro Generator Type 7HG Mk 9 Mod 1—Volts 115/90 AC Cycle 60	3 Oct 45	R	
OD 4830.....	Report of Test and Inspection—Synchro Differential Generator Type 1HDG Mk 13 Mod 3—Volts 90/90 AC Cycle			
GIRDERS				
OD 580.....	Girder Assembly Lower Naval Proving Ground, Dahlgren, Va	21 May 24	D	
OD 1938.....	Instructions for Manufacture Parts and Assembly for Proof Firing 8"/55 Cal Gun Mk 12 in 10" Girder Mk 5	Jun 1930	R	
GLASS AND GLASSES				
See also OPTICAL EQUIPMENT				
OD 2836.....	Instructions for Cutting Laminated Glass.....	31 Aug 38	D	
OD 2933.....	Glass Cutting Instructions.....	6 Jul 42	R	
OP 423.....	Spotting Glasses Mks 1 to 4 Description, Care and Handling	Nov 1923	R	
OD 513.....	Spotting Glass Mount Mk 4 Description.....	21 Jul 22	D	
OP 812.....	Gun Director Mk 40 BBs 55-66 Preliminary Description	Apr 1943	R 1st rev	
OD 3776.....	Spotting Glasses Mk 10 and Mk 10 Mod 1 Instructions for Operation	21 Feb 42	R	
GRAPNELS				
OP 1219J.....	Ammunition Code Catalog Class J, Projector Charge and Rocket Ammunition Assemblies	13 Jul 45	R 1st rev	See remarks for OP 1219J in Part 1
OP 1443.....	Grapnel Rocket Mk 1 Mod 0 Used with Rocket Launcher Mk 26 Mod 0 (Preliminary)	17 Jul 45	C	
GRENADES				
See also FUZES, GRENADE				
TM9-1900	Ammunition—General	18 Jun 45	R	War Dept Publication. See remarks for TM9-1900 in Part 1.
SNL R-7 (ORD 11)	Land Mines and Fuzes, Demolition Material and Ammunition for Simulated Artillery and Grenade Fire			War Dept Publication
SNL S-6 (ORD 11)	Ammunition Instruction Material for Grenades, Pyrotechnics, and Aircraft Bombs			Do
SNL S-10 (ORD 11)	Obsolete and Nonstandard Bombs, Grenades, Pyrotechnics and Rockets			War Dept Publication
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges (Chemical, Hand, Smoke, Rifle and Incendiary Grenades)	18 May 45	R	
OP 1219C.....	Ammunition Code Catalog Class C, Chemicals.....	1 Oct 44	R	See remarks for OP 1219C in Part 1
#OP 1178.....	Demolition Material (Hand Grenades).....	8 Dec 44	R	

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GRENADERS				
OP 1219Q.....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition (<i>Hand and Rifle Grenades</i>)	15 Jan 45	R	See remarks for OP 1219Q in Part 1
TB3-300-3.....	Grenade, Hand, Riot (CN) M25.....	30 Aug 44	R	War Dept Publication
FM23-30.....	Hand and Rifle Grenades, Rocket, AT, HE, 2.36-inch.....	14 Feb 44	R	War Dept Publication
SNL S-4 (ORD 11)	Grenades, Hand and Rifle, and Fuzing Components.....		R	War Dept Publication
TM9-1985.....	Grenades, Hand and Rifle.....	22 Oct 43	R	War Dept Publication. Issued with TB9-1985-FE1, TB9-1985-3
OP 998.....	Aircraft Pyrotechnics (<i>Hand, HC White Smoke, AN-M8</i>)	14 Jul 43	R	Supersedes OD 562. See remarks for OP 998 in Part 1
OP 1177.....	Surface Pyrotechnics and Projectors (<i>Illuminating Grenades</i>)	19 Jan 45	R	See remarks for OP 1177 in Part 1
OP 1219B.....	Ammunition Code Catalog Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
TB3-300-11S18	Theatre of Operations Surveillance Procedures for Incendiary Grenades AN-M14	21 Jun 45	R	War Dept Publication. See remarks for TB3-300-11S18 in Part 1
OP 1219P.....	Ammunition Code Catalog Class 5, Small Arms, Machine Gun and Aircraft Gun Ammunition	25 Apr 45	R	1st rev. See remarks for OP 1219P in Part 1
TB9-1985-FE1	Grenade, Rifle, Practice, M11A2 Method of Increasing Serviceability	12 Oct 44	R	War Dept Publication. Issued with TM9-1985
TB9-1985-3	Grenade, Rifle, Smoke, Colored Streamer T12.....	17 Oct 44	R	War Dept Publication. Issued with TM9-1985
OP 1042.....	Ships Chemical Munitions—Description and Instructions for Use	25 Sep 43	R	See remarks for OP 1042 in Part 1
OP 1177.....	Surface Pyrotechnics and Projectors.....	19 Jan 45	R	See remarks for OP 1177 in Part 1
GRIDS				
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
GRINDERS				
OD 1839.....	Guns—Bore Grinder for the Removal of Constrictions in Bores of 12", 14" and 16" Guns, Instructions for Setting up and Operating the Machine	21 May 29	D	
OD 1853.....	Band Seat Grinder Mk 1 and Mk 1 Mod 1 (For 14" Guns) Instructions for Setting up and Operating the Machine	24 Feb 33	D	
GUN DIRECTORS, See DIRECTORS, GUN				
GUNNERY				
OP 1014.....	Gunnery Safety Precautions Their Origin and Necessity	12 Jul 43	D	
OP 1175.....	3"/25 Rockets, Target.....	31 Jul 44	R	See remarks for OP 1175 in Part 1
FM4-110.....	Antiaircraft Artillery: Gunnery.....	28 Sep 43	R	War Dept Publication
GUNS				
See also.....	ATTACHMENTS BALLISTICS BATTERIES, GUN			

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GUNS				
See also 1112	BORESIGHTING KITS			25-A 142
	CATAPULT EQUIPMENT			13 (170)
	COUNTERS			
	DATA			
	FIRE CONTROL			25-A 142 02
	GUNNERY			
	INFANTRY EQUIPMENT			
	LANDING FORCE EQUIPMENT			
	MAGAZINES			
	MECHANISMS, BREECH			
	MOUNTS			
	ORDNANCE EQUIPMENT			
	TABLES, RANGE			
	SIGHTS			
	TURRETS			
OP 9	Gun Forgings Army and Navy Specifications for	May 1936	D	5th rev
OP 18	Turret Guns and Sights, Instructions for Installation and Test of	Apr 1921	D	1st rev. Where instructions conflict with OP 762 the latter governs
OP 60	Index of Assemblies for U. S. Navy Mounts and Turrets—Includes Guns Caliber 20-mm to 16"	29 Apr 44	R	5th rev
*OP 127	U.S. Naval Guns, Their Marks and Mods—Description	Apr 1942	R	3rd rev
OP 400A	Specifications for the Manufacture and Inspection of Guns, Gun Barrels, Breech Mechanisms and Breech Housing	Mar 1939	D	1st rev. Supplement to OP 400
OP 1112	Gun Mount and Turret Catalog	7 Mar 45	R	2nd rev
*OP 1323	Gun Fire Control System Mk 57 Mod 1		R	
OP 1392	Clearance Fixture (Aircraft Gun) Mk 1 Mod 0	4 May 45	R	
*OP 1462	Safety Data for AA Guns			Will supersede OD 3326
OP 1591	Clearing of Live Ammunition From Guns	28 Nov 45	D	Supersedes OCLs A72-43, A76-44, A35-45, A36-45, G24-44
OD 995	5", 6", 7", 8", 10", 12", 14" and 16" Guns, Shell Seating Powder Space, Chamber Volume, Rifling	5 Aug 32	R	Rev B
OD 2780	Table of Distances for Locating the Origin of Bore of Service Guns 3" to 16" for Use in Connection with Star Gauge Report Form NOrd 54	23 Jan 46	R	Rev D
OD 2878	List of Telescopes, Sights and Mounts for 3-Pdr, 6-Pdr, 3"/23, 3"/50, 4"/50, 5"/38, 5"/50, 5"/51, 6"/50 and 6"/53 Guns Telescopes for Torpedo Tube Sights Mk 1, Mk 1 Mod 1, Mk 2 and Torpedo Directors Mk 25, 25 Mod 1 and Mk 27 and Mods	27 Feb 42	R	Rev A
OD 3784	Weights of Gun Barrel Forgings (for New Construction)	6 Apr 42	R	
OD 4398	Table of Estimated Lives of U.S. Naval Guns	16 Jul 42	R	Rev A. With Change 1 dated 9 Jul 45
OD 5369	Forgings for Lining or Relining of 3" to 16" Guns	28 Aug 45	R	Rev A
*OP 1659	German AA Guns, Description and Operation		R	
SNL B-20	Tools, Maintenance, for Repair of Small and Hand Arms and Pyrotechnic Projectors			War Dept Publication
*OP 1549	Service Life of U.S. Naval Guns (Preliminary)		C	
NavOrd Chart GV1-45	Cleaning, Lubrication and Preservation Guide for Aircraft Guns	Undated	D	

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GUNS				
SNL A-35 (ORD 6)	Tools, Maintenance, for Repair of Group A Material, Sections 1, 3, 4			War Dept Publication. See remarks for SNL A-35 (ORD 6) in Part 1
.30 Cal Guns				
OTI GV8-44..	Instructions for use of Solvent Nitro Powder, U.S. Army Spec RIXS 205 in Cleaning Aircraft Guns	19 Sep 44	R	Issued with TM9-205, TM9-225, TM9-227
OTI V13-43...	Electric Trigger Controls Mk 5 and Mk 5 Mod 1 for Cal .30 and .50 BAM Guns	15 Apr 43	D	
OTI V17-43...	Trunnion Bolt Mk 1 for Cal .30 and .50 BAM Guns....	21 Apr 43	D	
OTI V24-43...	Rear Mounting Post Mk 1 for Cal .30 and .50 BAM Guns	15 Jun 43	R	
TM9-1205	Browning Machine Gun Cal .30 All Types and Ground Mounts	7 Aug 44	R	War Dept Publication. Issued with TB 1205-6.
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OTI GV23-43.	Sear Stop Assembly Browning Aircraft Machine Gun Caliber .30 M-2	23 Jul 43	R	Issued with SNL A-28
OTI GV35-43.	Maintenance of Maximum Belt Lifting Capacity in Browning Aircraft Machine Guns Cal .30 and .50 M-2	18 Nov 43	R	Issued with SNL A-36
OTI GV5-44..	Correct Loading Procedure for Browning Aircraft Machine Guns Caliber .30 AN-M2 and Caliber .50 AN-M2	11 Aug 44	R	
OTI GV7-44..	Sear Holders and Sear Assemblies for Caliber .30 Browning Machine Gun M-2	12 Sep 44	R	Supersedes OTI GV18-43
OMI V12-45..	Modification of Retracting Slide Group Assembly for Browning Aircraft Machine Gun, Cal .30 M2 Drawing No. C4098, Stock No. 1-S-9426	5 Jun 45	D	
SNL A-28....	Gun, Machine Cal .30 Browning AN-M2, Aircraft, Fixed, Flexible and Flexible with Fixed Back Plate			War Dept Publication
TB9-1205-FE1	Browning Machine Gun, Cal .30, M2, Aircraft: Alternate Feed Bolt Assembly (D281119)	20 Apr 45	R	War Dept Publication. See remarks for TB9-1205-FE1 in Part 1
TM9-205	Browning Machine Gun Caliber .30, M2 Aircraft, Fixed and Flexible	15 Oct 42	D	Do Issued with OCL GV27-43, OTIs GV30-43 and GV8-44
OP 1088.....	Cal .30 Machine Gun Mount Mk 21 (Gun M1919A4)...	16 Nov 43	R	
FM23-45	Browning Machine Gun, Cal .30, HB, M1919A4, Ground	12 Apr 43	D	War Dept Publication
SNL A-6.....	Gun, Machine Cal .30 Browning M1919A4 Fixed and Flexible M1919A5 Fixed and M1919A6 Flexible and Ground Mounts			War Dept Publication
.45 Cal Guns				
SNL A-32....	Gun Sub-machine Cal .45 Thompson M1928A1, M1 and M1A1			Do
TM9-215	Thompson Sub-machine Gun Cal .45, M1 (M1A1)....	10 Oct 42	D	Do
TB23-41-3	Gun Sub-machine Cal .45, M1A1, M2 and M3 Firing Table Data	16 Jun 43	D	Do
FM23-41	Sub-machine Gun Cal .45 M3.....	30 Oct 43	D	Do
SNL A-58....	Gun Sub-machine Cal .45 M3.....			Do
MWO ORD A58-W1	Gun Submachine Cal .45, M3—Housing Assembly.....	7 Nov 44	D	War Dept Publication. See remarks for MWO ORD A58-W1 in Part 1
FM23-40	Thompson Sub-machine Gun Cal .45 M1928A1.....	31 Dec 41	D	Do

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.45 Cal Guns				
SNL A-32....	Gun Sub-machine Cal 45 Thompson M1928A1, M1 and M1A1			War Dept Publication
TM9-1215	Thompson Sub-machine Gun Cal 45 M1928A1	1 Mar 42	..	Do
.50 Cal Guns				
See also	GUNS, .30 CAL			
OD 3470.....	Installation and Maintenance Instructions for .50 Cal Gun Recoil Dampeners	2 Feb 40	R	
OTI GV15-43..	Oil Buffer Tube Lock Modification of for .50 Cal BAM Gun	7 Jun 43	R	
OTI GV31-43..	Restaking of Retaining Ring on Mk 1 Trunnion Bolt Assembly and Mk 1 Rear Mounting Post Assembly of Early Manufacture	27 Sep 43	R	
OTI GV1-44...	Flash Eliminator Mk 1 for Cal .50 BAM Guns	10 Jan 44	R	
OTI V17-43...	Trunnion Bolt Mk 1 for Cal .30 and .50 BAM Guns	21 Apr 43	D	
TB ORD 308..	Identification and Serviceability of Cal .50 Aircraft Machine Gun Barrels	27 Jun 45	R	War Dept Publication. (See) remarks for TB ORD 308 in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1114.....	Electric Gun Chargers Mk 3 and Mk 3 Mod 1 with Control Box for Browning Machine Gun Caliber .50 M2 (Aircraft) Description and Instructions for Use	5 Feb 44	R	Now issued by BuAer. NAVAER No. 11-106-501
OP 1284.....	Instructions for the Overhaul, Inspection and Test of Gun, Browning Aircraft Machine Cal .50 AN-M2	Dec 1944	R	For Shop Use only, not issued to the Fleet
OTI G32-43...	Removal of Oil and Certain Parts from Oil Buffer on the Browning Cal .50 M2 Heavy Barrel Machine Gun	24 Sep 43	R	
OTI GV5-44...	Correct Loading Procedure for Browning Aircraft Machine Guns Cal .30 AN-M2 and Cal .50 AN-M2	11 Aug 44	R	
OTI GV8-44...	Instructions for Use of Solvent Nitro Powder, U.S. Army Spec RIXS 205 in Cleaning Aircraft Guns	19 Sep 44	R	Issued with TM9-205, TM9-225, TM9-227
OTI GV9-44...	Cal .50 BAM Gun M2 Aircraft Basic Use of Correct Belt Feed Lever Cotter Pin	27 Sep 44	R	
OTI GV2-45...	Mounting of Electric Gun Charger Mk 3 and Mods on BAM Guns Cal .50 AN-M2 Equipped with Adjustable Trigger Bar Stop, Special Retaining Screw for	6 May 45	R	
OMI V3-44...	Cal .50 Browning Aircraft Machine Gun M-2 Modification of Cocking Lever Pin, Alternative Head Type	18 Mar 44	R	
OMI V4-45...	Modification of Retracting Slide Group Assembly for Browning Aircraft Machine Gun Cal .50 M2 Stock Nos. 1-S-9428, Drawing No. D-73953	23 Feb 45	D	Issued with OP 865, 2nd rev
OMI V24-44...	Cal .50 Browning Machine Gun M2 Aircraft Basic Installation of Barrel Locking Spring Stop Pin	27 Sep 44	R	
FM23-65.....	Browning Machine Gun Cal .50 HB, M2	Nov 1944	D	War Dept Publication. Supercedes FM23-60
SNL A-38....	Gun Machine Cal .50 Browning AN-M2 Aircraft Basic			Do
SNL A-39....	Gun Machine Cal .50 Browning M2 Heavy Barrel Fixed and Flexible and Ground Mounts			Do
TB9-225-17...	Browning Machine Gun Cal .50 M2 Aircraft Blank Firing Attachment and New Components to Improve Functioning	21 Sep 44	R	War Dept Publication. Issued with TM9-225
TB9-225-18 ..	Cook-Offs in Cal .50 Aircraft Browning Machine Guns	28 Sep 44	R	War Dept Publication. Issued with TM9-225

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.50 Cal Guns				
TB9-1225-24	Side Plate Clearance in Cal .50 Machine Guns (All Types)	Apr 1945	R	War Dept Publication. See remarks for TB9-1225-24 in Part I.
TB9-1225-25	Browning Machine Gun Cal .50 M2 (All Types) Overhaul Standards for Fifth-Echelon Installations	27 Jun 45	R	War Dept Publication. Issued with TM9-1225.
TM9-225	Browning Machine Gun Cal .50 M2 Aircraft Basic	15 Dec 43	R	War Dept Publication. Issued with OTI GV8-44, TB9-225-FE1, TB9-225-17 and 18.
TM9-1225	Browning Machine Gun, Cal .50 M2 All Types, and Ground Mounts	23 Oct 44	R	War Dept Publication. Supersedes TB9-1225-21, TB9-1225-22 and TB9-1225-23.
TM9-219	Basic Aircraft Machine Guns, Cal .50, T36 and T25E3(M3)	5 Apr 45	R	War Dept Publication. See remarks for TM9-219 in Part I.
Guns, .60 Cal				
TM9-231	Cal .60 Machine Gun T17E3	28 Jun 44	R	War Dept Publication
1 Pdr Guns				
#OP 127	U.S. Naval Guns their Mk and Mods Description	Apr 1942	R	3rd rev
3 Pdr Guns				
#OP 127	U.S. Naval Guns their Mk and Mods Description	Apr 1942	R	3rd rev
OP 84	3 Pdr Gun Mk 4, .50 Cal (Semi-automatic) Formerly Hotchkiss Mk 4	Sep 1902	D	
6 Pdr Guns				
#OP 127	U. S. Naval Guns their Mk and Mods Description	Apr 1942	R	3rd rev
OP 93	6 Pdr Guns (Rapid-Fire, Case) Mk 1 and 2, Hotchkiss Mk 1 and 2, Driggs-Schroeder Mk 1 and 2, Army Mk 3 and Nordenfelt Mk 2 Now Mk 1, 3, 6, 7, 8, 10	Dec 1902	D	
OP 95	6 Pdr Gun Mk 9 (Semi-automatic) Formerly Maxim-Nordenfelt Mk 2	Jan 1903	D	
20-mm Aircraft Guns				
TM9-2200	Small Arms, Light Field Mortars and 20-mm Aircraft Guns	11 Oct 43	R	War Dept Publication
OP 965	The 20-mm Feed Mechanism AN-M1 (Aircraft)	May 1943	R	Issued with OTI GV2-44
OP 865	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part I
OP 1317	20-mm Automatic Gun T31 (M3) Basic and 20-mm Feed Mechanism AN-M2 (T-14)	18 Jun 45	R	See remarks for OP 1317 in Part I
OTI GV14-43	Instructions for Staking Pin to Secure Spring Guide of Hydraulic Charger for 20-mm AN-M2 Aircraft Gun	17 May 43	R	
OTI GV2-44	20-mm Feed Mechanism AN-M1A1 for 20-mm Aircraft Automatic Gun AN-M2	8 May 44	R	Issued with OP 965 and TM9-227
OTI GV3-44	20-mm Aircraft Automatic Guns Breechlock Assembly Tool for	27 May 44	R	
OTI GV4-44	Recent Changes in 20-mm Aircraft Gun AN-M2	8 Jun 44	R	
OTI GV8-44	Instructions for Use of Solvent Nitro Powder, U.S. Army Spec RIXS 205 in Cleaning Aircraft Guns	19 Sep 44	R	Issued with TM9-205, TM9-225, TM9-227
OTI GV10-44	20-mm Automatic Gun AN-M2 and Feed Mechanism AN-M1A1, Supplementary Maintenance Instructions	20 Nov 44	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
20-mm Aircraft Guns				
OTI V45-43....	20-mm Aircraft Automatic Gun AN-M2 Plastic Muzzle Cover for	21 Dec 43	R	Issued with TM9-227
OMI V4-43....	20-mm Aircraft Automatic Gun AN-M2 Installation of Firing Pin	17 Dec 43	R	Issued with TM9-227
NavOrd Chart GV1-43	20-mm Gun Automatic Aircraft Gun AN-M2 Instruction Chart	Undated	D	
SNL A-47....	Gun, Automatic 20-mm M1 and AN-M2 (Aircraft)....			War Dept Publication
TB9-1227-FE1	Feed Mechanism 20-mm M1 Corrections to be Applied..	14 Sep 44		Do
TM9-227	20-mm Automatic Gun M1 and 20-mm Aircraft Automatic Gun AN-M2	1 Jun 43		Issued with TM9-1227
TM9-1227	20-mm Automatic Gun M1 and 20-mm Aircraft Automatic Gun AN-M2	10 Jun 43		War Dept Publication. Issued with TB9-1227-FE1
20-mm Anti-aircraft Guns				
OP 996.....	Portable Platform Mk 1 for 20-mm Guns.....	Jun 1943	D	
OD 2929.....	20-mm Anti-aircraft Assemblies Cross-index to OE Drawing Numbers	15 Apr 43	D	Rev B
OP 911.....	20-mm AA Gun; 20-mm Machine Gun Mechanisms Mk 2 and 4; 20-mm Gun Barrels Mk 2, 3, 4 and 4 Mod 1 and Mk 5; 20-mm Magazines Mk 2 and 4; 20-mm Shoulder Rests Mk 2, 4, 5 and 5 Mod 1, Description	Mar 1943	D	See remarks for OP 911 in Part 1
37-mm Guns				
#OP 127.....	U.S. Naval Guns their Mk and Mods Description....	Apr 1942	R	3rd rev
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
TM9-241	37-mm Automatic Gun M9.....	22 Apr 44	R	War Dept Publication
TO 11-1-70...	Handbook of Instructions with Parts Catalogue 37-mm Automatic Aircraft Gun M9	1 Aug 44	R	Do
1710 Guns				
#OP 127.....	U.S. Naval Guns their Mk and Mods Description.....	Apr 1942	R	3rd rev
*OD 3535.....	1710 Machine Gun Secondary Battery Target Designator System BBs 55 to 60			
OD 4399.....	Report of Temperature Tests on Electric Heater for 1710 Machine Gun Recoil Cylinder	8 May 42	R	
OTI G16-43....	1710 Magazine Mk 2 and Mods Latch Bar Lock.....	9 Jun 43	R	Issued with OP 772
OTI G8-43....	1710 Machine Gun Mechanism Mk 1 and Mk 1 Mods 1 and 2 Modification of Retracing Tool	26 Mar 43	D	Issued with OP 806, 1st rev
40-mm Guns				
OP 820.....	40-mm Antiaircraft Gun; 40-mm Machine Gun Mechanism Mk 1, Mk 2, Mk 1 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sights Mk 3 and 4; Description and Operation (Preliminary)	Oct 1943	D	See remarks for OP 820 in Part 1
*OP 820C.....	Parts List for 40-mm Antiaircraft Gun; 40-mm Machine Gun Mechanism Mk 1 Mod 2, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sights Mk 3 and 4; Description and Operation (Preliminary)			
*OD 3683.....	Specifications for Measuring Records for Corrector 40-mm AA Naval Guns Bofor Co			
OTI G6-43....	40-mm AA Gun Mechanisms Mk 1 and Mk 2 and Mods Rammer Rod Failure	19 Mar 43	D	Issued with OP 820

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
40-mm Guns				
TM9-252	40-mm Automatic Gun M1 (AA) and 40-mm Anti-aircraft Gun Carriages M2 and M2A1	17 Jan 44	R	War Dept Publication. Issued with TB9-252-9
TM9-1252	Gun and Top Carriage of 40-mm Antiaircraft Gun Material M2	24 Apr 42	R	War Dept Publication. Issued with OTIs G26-43, G27-43, G25-43, TB9-1252-2, and 14
60-mm Guns, See Mortars				
81-mm Guns, See Mortars				
100-mm Guns				
OD 4641.....	French 100-mm Gun Fuze Setter (Modified for American Fuze Mk 22)—Description and Operation	19 Mar 45	R	Rev A
3" Guns				
#OP 127.....	U.S. Naval Guns their Mk's and Mods Description.....	Apr 1942	R	3rd rev
OD 2772.....	3"/50 cal 5"/25 cal 5"/38 cal and 6"/47 cal Guns Instructions for Assembling and Disassembling Gun Barrels and Housing (Bayonet Joint Type)	2 May 41	D	Rev G
OD 3326.....	AA Safety Data 5"/38, 5"/25 and 3"/50 Guns.....	1 Nov 41	R	Rev A. Supersedes ODs 1822 and 2099. Will be superseded by OP 1462
OTI G9-44....	Cartridge Case Extractor Tools for 3"/50, 5"/25, 5"/38 and 6"/47 cal Guns with Sliding Breech Blocks.....	3 Jun 44	R	
OD 2895.....	Instructions for Modification of 3"/50 cal Gun Mk 6 Breech End to 3" Gun Mk 20 or Mk 20 Mod 1 and 3" Breech Mechanism Mk 5 Mod 6 to 3" Breech Mechanism Mk 5 Mod 11	3 Aug 40	D	Rev A
OP 761.....	3"/50 cal Submarine Mount Mk 18 (Wet Type) Description	Jul 1940	R	1st rev
OD 2936.....	3"/50 cal AA Gun Mounts Mk 20 Mods—Using 3"/50 cal Gun Mk 20 and Mk 20 Mods 1 and 2—Instructions for Regunning with a 3"/50 cal Gun Mk 21, Mk 21 Mod 2, Mk 22, Mk 22 Mods 1, 2 or 3	6 Jul 43	R	
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, and Mk 22 and Mods (Gun Mk 20, 21, and 21 Mod 1)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OP 984.....	3" Gun Mounts 50 Cal DP Pedestal Type Mk 24 and Mk 24 Mod 1 (Gun Mk 22 Mods 2 and 3)	27 Jan 44	R	See remarks for OP 984 in Part 1
4" Guns				
#OP 127.....	U.S. Naval Guns their Mk's and Mods Description.....	Apr 1942	R	3rd rev
OD 629.....	Dispersion Chart 4" Gun Effect of Trunnion Tilt.....	Sep 1923	R	
OP 165.....	4" Gun Mounts 50 cal Pedestal Type Mk 12 and Mods..	Jun 1943	R	1st rev. Supersedes OPs 150-A and 159
5" Guns				
#OP 127.....	U.S. Naval Guns their Mk's and Mods Description.....	Apr 1942	R	3rd rev
OP 165.....	4" Gun Mounts 50 Cal Pedestal Type Mk 12 and Mk 12 and Mods (Gun Mk 9 and 9 Mods 2 to 23)	Jun 1943	R	1st rev. Supersedes OPs 150-A and 159
OTI G9-44....	Cartridge Case Extractor Tools for 3"/50, 5"/25, 5"/38 and 6"/47 cal Guns with Sliding Breech Blocks	3 Jun 44	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5" Guns				
OD 2923.....	Instructions for Modification of Gun Breech of 5"/25 cal Guns Mk 10 Mod 2, Mk 11, Mk 11 Mods 2, 5, and 6, to 5" Housing Mk 5 and 5"/25 cal Guns Mk 10 Mod 3, Mk 11 Mods 1, 3 and 7 to 5" Housing Mk 5 Mod 1 for the Bayonet Joint Type Gun Barrel	8 Feb 45	D	Rev A
OP 589.....	5"/25 AA Mount Mk 19 Mods 1 and 12, Mk 23 and Mk 23 Mods 1 and 2 (Army Mfg) Description (Gun Mk 13)	Aug 1938	R	See remarks for OP 589 in Part 1
OD 3739.....	5" Slide Mk 19 Modification for Installation of 5" Gun Mk 13	7 Jan 42	R	
OP 735.....	5"/38 Cal Gun Mounts AA Base Ring Type Mk 30 and Mk 30 and Mods (except Merchantmen Types)	May 1943	R	1st rev. See remarks for OP 735 in Part 1
OD 2700.....	5"/25 cal and 5"/38 cal AA Guns Special Tools and Directions for Assembling Breech Block in Housing	16 Nov 34	D	
OD 2772.....	3"/50 cal, 5"/25 cal, 5"/38 cal, and 6"/47 cal Guns Instructions for Assembling and Disassembling Gun Barrels and Housings (Bayonet Joint Type)	2 May 41	D	Rev G
OD 2892.....	5"/38 cal Gun Instructions for Assembling and Disassembling Gun Barrels and Housings (Bayonet Joint Type for Assemblies 1001 and 1002)	18 Apr 40	D	
OD 3326.....	AA Safety Data 5"/38, 5"/25 and 3"/50 Guns	1 Nov 41	R	Rev A. Supersedes ODs 1822 and 2099. Will be superseded by OP 1462
OD 4498.....	5"/38 cal AA Single Gun Mounts Mk 30 Mods (Manual Handwheel Drive) For Merchantmen—Instructions for Installation Aboard Ship	11 Nov 42	R	
OD 4509.....	Preliminary Instructions for Operation and Maintenance of Anti-Aircraft Barrage Computer Mk 7 Mods 6, 7, and 8 for 5"/38 cal Guns	1943	R	
OD 4620.....	General Information for Identification and Interchangeability of Housings for 5"/38 cal Guns (5" Housings Mk 1 and Mods)	18 May 43	R	
OTI G1-44....	5"/38 cal Twin Mounts Method and Devices for Cutting Out Firing of One Gun	10 Jan 44	R	
OTI G9 44....	Cartridge Case Extractor Tools for 3"/50, 5"/25, 5"/38 and 6"/47 cal Guns with Sliding Breech Blocks	3 Jun 44	R	
OP 553.....	5"/38 AA Mounts Mk 21 and Mk 21 Mods 1 to 5, 9, 11 to 13, 15 to 19, Description (Gun Mk 12 and 12 Mod 1)	Aug 1939	R	3rd rev. See remarks for OP 553 in Part 1
OP 700.....	5" Mounts (38 cal. AA Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, and 11, Assemblies, Description and Instructions (Gun Mk 12 Mod 1)	Sep 1942	R	See remarks for OP 700 in Part 1
OP 748.....	5"/38 cal Enclosed Single Mounts AA Mk 25 and Mk 25 Mods 1 and 2 (Preliminary) (Gun Mk 12 Mod 1)	Jan 1941	R	See remarks for OP 748 in Part 1
OP 805.....	5"/38 cal Twin Gun Mounts, AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2, Description and Instructions (Gun Mk 12 Mod 1)	Feb 1942	R	See remarks for OP 805 in Part 1
OP 868.....	5"/38 cal Single Mount Mk 37 (Gun Mk 12 Mod 1)	Feb 1943	R	See remarks for OP 868 in Part 1
OP 895.....	5"/38 cal AA Mount Mk 30 Mod 50, Assemblies for Merchantmen, Description and Instructions (Gun Mk 12 Mod 1)	Dec 1942	R	See remarks for OP 895 in Part 1
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries, 38 cal DP Single, Open Base Ring Type, Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49 (Gun Mk 12 Mod 1)	11 Apr 44	R	See remarks for OP 1013 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5" Guns				
OD 2776.....	Notes on the Method of Manufacture and Inspection of Radially Expanded 5"/38 Gun Barrels Mk 12 Mod 1	7 Feb 36	R	
6" Guns				
#OP 127.....	U.S. Naval Guns their Mk and Mods Description.....	Apr 1942	R	3rd rev
OD 2772.....	3"/50 cal 5"/25 cal 5"/38 cal and 6"/47 cal Guns, Instructions for Assembling and Disassembling Gun Barrels and Housings (Bayonet Joint Type)	2 May 41	D	Rev G
OD 4188.....	Computer Mk 1 Mods 3, 4 or 7 Table of Corrections for 6"/47 cal Guns Firing 105 lb HC Projectile	15 Nov 42	R	
OD 4242.....	Range Keeper Mk 10 Mods 5, 11, 13, 27, 34 or 36 Alteration to Permit Control of 6"/47 cal Guns Firing Fuzed Projectiles	31 May 43	R	
OD 4244.....	Range Keeper Mk 10 Mods 43, 53, 64 Alteration to Permit Control of 6"/47 cal Guns Firing Fuzed Projectiles	1 Jun 43	R	
OD 4263.....	Range Keepers Mk 10 Mods 5, 11, 27, 34, 43, 64 Table of Corrections for Control of 6"/47 cal Guns Firing 105 lb HC Projectiles	5 Aug 43	R	Issued with OTI F17-44
OD 5101.....	Range Keeper Mk 10 Mods 13, 36 or 53 Table of Corrections for Control of 6"/47 cal Guns Firing 105 lb HC Projectiles	14 Aug 43	R	
OD 5102.....	Computer Mk 1 Mods 3, 4, 7 or 11 Table of Corrections for Control of 6"/47 cal Guns Firing 105 lb HC Projectiles (Preliminary)	6 Aug 43	R	Issued with OTI F17-44
OTI G9-44....	Cartridge Case Extractor Tools for 3"/50, 5"/25, 5"/38 and 6"/47 cal Guns with Sliding Breech Blocks	3 Jun 44	R	
OP 195.....	6" Guns Mk 1, 2, 3, 4, 6.....	Dec 1902	D	
OP 219.....	6" Mount Mk 16 (Twin) .53 cal for Cruisers 4 to 13....	Jun 1923	R	Issued with OCL X367
#OP 592.....	6"/47 cal Triple Gun Turrets for CLs 40-43 and 46-50, Description and Instructions (Gun Mk 16)	May 1941	R	See remarks for OP 592 in Part I
#OP 833.....	6"/47 cal Triple Turrets CL 55 class.....	27 Jan 45	R	With Appendix 1, Change 1 dated 27 Jan 45 and OCL G31-43
7" Guns				
#OP 127.....	U.S. Naval Guns their Mk and Mods Description.....	Apr 1942	R	3rd rev
8" Guns				
#OP 127.....	U.S. Naval Guns their Mk and Mods Description.....	Apr 1942	R	3rd rev
OD 4221.....	Instructions for Converting Range Keeper Mk 7 Mod 2 to Mk 7 Mod 14 for Use with 8" Guns with 1/25 Twist Rifling	18 Sep 42	R	
OD 4222.....	Instructions for Converting Range Keeper Mk 7 Mod 4 to Mk 7 Mod 15 For Use with 8" Guns with 1/25 Twist Rifling	18 Sep 42	R	
OD 4225.....	Instructions for Converting Range Keeper Mk 8 Mod 0 to Mk 8 Mod 20 For Use with 8"/55 cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
OD 4226.....	Instructions for Converting Range Keeper Mk 8 Mod 1 to Mk 8 Mod 21 For Use with 8"/55 cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
OD 4227.....	Instructions for Converting Range Keeper Mk 8 Mod 3 to Mk 8 Mod 22 For Use with 8"/55 cal Guns with 1/25 Twist Rifling	18 Sep 42	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
8" Guns				
OD 4229.....	Conversion of Range Keeper Mk 5 Mods 0 and 1 For Use with 8"/55 cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
OD 4230.....	Range Keeper Mk 8 Mods 14, 19 Instructions For Addition of Bearing Correction Transmitter	15 Oct 42	R	.....
OD 5103.....	Computer Mk 1 Mods 3, 4, 7, 8, 11 or 13 Table of Corrections For Control of 8"/55 cal Guns Firing 260 lb HC Projectiles	11 Feb 44	R Rev A	.....
OD 1938.....	Instructions For Manufacture of Parts and Assembly For Proof Firing 8"/55 cal Gun Mk 12 in 10" Girder Mk 5	Jun 1930	R	.....
OP 704.....	8" Triple Gun Turrets for CA 45.....	Oct 1941	R	Supersedes earlier blueprint copies
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class, CAs 68-75, 122-138 (Preliminary) (Guns Mk 12 Mod 1 and Mk 15)	Apr 1943	R	See remarks for OP 834 in Part 1
OD 2954.....	8"/55 cal Guns and Breech Mechanisms Instructions for Conversion of 8"/55 cal Guns Mk 12 Mod 1 to Mk 12 Mod 2 and Mk 15 to Mk 15 Mod 1 By Means of Adapter Sleeves and 8" Breech Mechanisms Mk 9 Mods 4 and 8 to Mk 9 Mod 9	20 Apr 43	D	.....
9" Guns				
#OP 127.....	U.S. Naval Guns and their Mk and Mods Description..	Apr 1942	R	3rd rev
10" Guns				
#OP 127.....	U.S. Naval Guns and their Mk and Mods Description..	Apr 1942	R	3rd rev
12" Guns				
#OP 127.....	U.S. Naval Guns and their Mk and Mods Description..	Apr 1942	R	3rd rev
OP 289A.....	12" Naval Rifles Description.....	Aug 1918	D	.....
OP 1150.....	Instructions for Loading of and Transporting of 12" to 16" Guns by Rail	26 Jul 44	R	.....
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary) (Gun Mk 8)	25 Oct 44	R	.....
14" Guns				
#OP 127.....	U.S. Naval Guns and their Mk and Mods Description..	Apr 1942	R	3rd rev
16" Guns				
#OP 127.....	U.S. Naval Guns and their Mk and Mods Description..	Apr 1942	R	3rd rev
OP 1150.....	Instructions for Loading of and Transporting of 12" to 16" Guns by Rail	26 Jul 44	R	.....
OP 755.....	16" Triple Turret for BBs 55-60, (45 cal)—Description and Instructions (Gun Mk 6 Mod 1)	Dec 1941	R	1st rev. See remarks for OP 755 in Part 1
OP 769.....	16" Triple Gun Turrets, Main Armament for USS IOWA Class (BBs 61-66) 16"/50 cal (Preliminary) (Gun Mk 7)	Jun 1943	R	See remarks for OP 769 in Part 1
18" Guns				
#OP 127.....	U.S. Naval Guns their Mk and Mods Description.....	Apr 1942	R	3rd rev
Guns, Catapult				
*OP 1660.....	Catapults Type P Mk 6 Mod 2 and Type P Mk 6 Mod 3 with Catapult Gun Mk 10 Mod 0			Will be printed and distributed by BuAer

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Line Throwing Guns				
OP 85.....	3 Pdr Breech Mechanism Mk 10.....	5 Apr 11	D	
OP 546.....	Cal .45 Line Throwing Gun Description and Instructions for Use	29 Dec 44	D	1st rev.
Machine Guns				
See also	GUNS, .30 Cal GUNS, .50 Cal GUNS, 20-mm GUNS, 1210 GUNS, 40-mm			
OTI GV30-43.	Cleaning, Lubrication and Preservation of Aircraft Guns	27 Aug 43	R	
Small Arms				
See also	PISTOLS REVOLVERS SHOTGUNS			
OP 865.....	Aviation Ordnance Equipment Catalog (12 Gauge Shot Gun)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1427.....	Shotgun Mount Assembly Mk 1 Mod 0 (12 Gauge Remington Sportsman)	23 Feb 45	D	
SB9-50	Usage Factors for Small Arms Weapons.....	27 Mar 45		War Dept Publication. See remarks for SB9-50 in Part 1
SNL B-9.....	Shotguns			War Dept Publication
SNL T-3.....	Shells, Shotgun			Do
TB9-850-18 ...	Degreasing of Small Arms	31 May 45	R	War Dept Publication. See remarks for TB9-850-18 in Part 1
TB9-2835-9 ...	Small Arms: General Instructions for Care, Preservation, and Lubrication.....		R	War Dept Publication. Listed as encl (A) of OCL G17-45
TM9-285	Shotguns All Types	21 Sep 42	Do	
TM9-1285	Shotguns All Types	25 Nov 42	Do	
TM9-2200	Small Arms, Light Field Mortars and 20-mm Aircraft Guns	11 Oct 43	Do	
TM9-2210	Instruction Guide Small Arms Accidents, Malfunctions and Their Causes	11 Jul 42	Do	
Spray Guns				
OP 1219C.....	Ammunition Code Catalog Class C, Chemicals (CN Training Spray Guns)	1 Oct 44	R	See remarks for OP 1219C in Part 1
GYROS				
See also	TORPEDOES STABLE ELEMENTS			
OP 627A.....	U.S. Navy Torpedo Gyroscopes, Non-Tumble Types....	Oct 1942	R	2nd rev. See remarks for OP 627A in Part 1
OTI TI-43....	21" Submarine Torpedo Tubes Gyro Setting Mechanism Spindle Packing Rings	27 May 43	R	
OTI T5-44....	Gyro Mechanisms with Movable Top Plates, Adjustment of Clearances Between Pallet and Pallet Pawls	12 Apr 44	R	Issued with OPs 627A, 635, 642, 946

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
GYROS				
OP 606.....	Torpedoes, Bliss-Leavitt 21' x 21" Mk 8 Mods 3C and 3D	Mar 1933	R	With Change 1 dated 8 Aug 40. Formerly Registered Confidential
OP 642.....	Description, Adjustment, Care and Operation of U.S. Navy Torpedoes Mk 15 Mods 1, 2, and 3 (Gyros, Mk 12 Mods 2 and 3)	Jul 1942	R	See remarks for OP 642 in Part 1
OP 635.....	Torpedoes Mk 14 and 23 Types (Gyro Mk 12 Mod 3)	24 Mar 45	R	1st rev. See remarks for OP 635 in Part 1
OP 946.....	Torpedo Mk 18 and Mk 18 Mod 1	29 Jul 44	R	1st rev. With Change 1 dated 14 Nov 44 and OTI TS-44. Supersedes OD 3830
OP 1345.....	Torpedoes Mk 16 and Mk 17 Types (Preliminary) (Gyro Mk 12 Mod 3)	16 Jan 45	C	See remarks for OP 1345 in Part 1
*OP 1669.....	The Gyro Mk 18, Maintenance and Operation		R	
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary) (Train and Elevation Gyros)	15 Nov 44	R	See remarks for OP 1233 in Part 1
HANDLES				
OP 865.....	Aviation Ordnance Equipment Catalog (Bomb Release, Flare Release, and Gun Charging Handles)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
HAVERSACKS				
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1433.....	Demolition Outfit Mk 127 Mod 0 (Preliminary) (Haversack Mk 1 Mod 0)	23 Mar 45	C	
OP 1582.....	Demolition Outfit (UDT) Mk 133 Mod 0 (Preliminary) (Haversack Mk 2 Mod 0)	31 Jul 45	R	
OP 1583.....	Demolition Outfit (UDT) Mk 135 Mod 0 (Haversack Mk 3 Mod 0)	31 Jul 45	R	
HEADS				
See also	TORPEDO EXERCISE HEADS			
OP 865.....	Aviation Ordnance Equipment Catalog (Bombsight Head Type A-1)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
HEATERS				
OP 1317B.....	Electric Heater T2 for 20-mm Aircraft Guns (Preliminary)	29 Aug 45	R	
OD 2942.....	Heaters for Use with Window Wiper Attachments for Telescopes Mk 61, 62, 67, and 68 on 5"/38 cal AA Gun Mounts, Instructions for Installing	30 Nov 42	R	With Change 1 dated 26 Dec 45
OD 4526.....	Utilization of Electric Heaters for Cold Weather Operation of Electric Hydraulic Equipment Report of Investigation	11 Jan 43	R	
OP 1092.....	Torpedo Tube Heater (Gasoline Type for Motor Torpedo Boats)	Oct 1943	R	
OD 4695.....	21" AW Torpedo Tubes Heating Equipment Tests of Insulation for Barrel Heaters	29 Mar 45	R	
HIDERS				
OTI AV2-45..	Hider, Flash T20 for 20-mm Automatic Gun T31 (M3)	2 Mar 45	R	
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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
HOISTS				
See also HYDRAULIC POWER EQUIPMENT				
Hoist, Bomb				
OP 865	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
TO 11-5-26	Bomb Racks Type C-3 Bomb Hoist Assembly	14 Jun 43	R	War Dept Publication
OP 1340	Electric Bomb Hoist Mk 5	21 Apr 45	R	With Change 1 dated 14 Feb 46. Now issued by BuAer. NAVAER No. 11-5-522
OP 961	Portable Bomb Hoist Mk 6	Feb 1943	R	Now issued by BuAer. NAVAER No. 11-5-506
OD 3703	Portable Bomb Hoist Mk 6 Description and Operation and Maintenance	16 Feb 42	R	
OP 949	Portable Bomb Hoist Mk 7 Mod 1	May 1943	R	Now issued by BuAer. NAVAER No. 11-5-510
OP 1341	Portable Bomb Hoist Mk 8 Mod 0	23 Mar 45	R	Now issued by BuAer. NAVAER No. 11-5-520
OMI V9-45	Modification of Cable Fitting for Portable Bomb Hoist, AN-Mk 8 Mod 0, Stock Number 3C113-100	12 May 45	D	
Hoist, Powder				
See also TURRETS				
OD 3405	Description of Circuits and Units with Instructions for Adjustment, Operation and Repair 5" Powder Hoist Mk 1 and Mk 1 Mods 1 to 6 Inc 5" Projectile Hoist Mk 1 and Mk 1 Mods 1 to 7 Incl (Electric Hydraulic Equipment DDs 356-363, 381, 383)	9 Jan 39	R	
OD 3361	Description of Circuits and Units with Instruction for Adjustment, Operation and Repair for 5" Projectiles Hoist Mk 1 and Mk 1 Mods 1 to 7 Incl 5" Powder Hoist Mk 1 and Mk 1 Mods 1 to 7 Incl (38 cal Twin Mount) Electric Hydraulic Drive	1 Jun 38	R	
OP 735	5"/38 cal Gun Mounts AA Base Ring Type Mk 30 and Mods Except Merchantmen Types (Hoist Mk 2)	May 1943	R	1st rev. See remarks for OP 735 in Part 1
#OP 748	5"/38 cal Enclosed Single Mounts AA Mk 25 and 25 Mods 1 and 2 (Preliminary)	Jan 1941	R	See remarks for OP 748 in Part 1
OP 1018	5" Loading Machine Assembly 89, 5" Loading Machine Mk 17 Mod 0, 5" Projectile Hoist Top Mk 3 Mod 0 and 5" Powder Hoist Top Mk 3 Mod 0	26 Jul 45	R	
OD 3348	5" Powder and Projectile Hoists Mk 4 and Mods Electric Hydraulic Equipment Description of Circuits and Units with Instruction for Adjustment, Operation and Repairs for 5" Powder and Projectile Hoists Mk 4 and Mods Electric Hydraulic Equipments	29 Mar 43	R	Rev A
OD 3595	5" Powder Hoists Mk 4 and Mods 5" Projectile Hoists Mk 4 and Mods 5"/38 cal Twin DP Enclosed Mounts Installation Instructions	15 Oct 40	R	
OD 3529	Assemblies 5" Ammunition Hoists for 5"/38 cal Twin Double Purpose Enclosed Mounts on BBs 55 and 56 Description	19 Oct 42	R	Rev B

#Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Hoists, Powder				
#OP 805.....	5"/38 cal Twin Gun Mounts AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2, Description and Instructions (<i>Hoists Mk 4 and 4 Mods 1 to 11</i>)	Feb 1942	R	See remarks for OP 805 in Part 1
OD 3414.....	Electric Hydraulic Equipment for 5" Projectile Hoist Mk 5 Mods 4, 5, 8 and 9 For 5" Mounts Mk 28 and Mods on CLs 51 to 54	11 Feb 44	D	Rev A
OD 3583.....	Assemblies 5" Ammunition Hoists (For 5"/38 cal Twin Double Purpose Enclosed Mounts on BBs 57 to 60 Incl and CLs 51 to 54 Incl) Description	20 Mar 42	R	
OD 5319.....	Routine Test Data for Power Drives for 5" Projectile Hoist Mk 4 Mods 6, 7, 10 and 11 5" Powder Hoist Mk 4 Mods 6, 7, 10 and 11 (38 cal Twin Mount Mk 28 and Mk 32) Electric Hydraulic Equipment	15 Dec 43	R	
OD 3498.....	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 5" Projectile Hoist Mk 4 Mods 10 and 11 and 5" Powder Hoist Mk 4 Mods 10 and 11 Electric Hydraulic Equipment	2 Oct 42	R	
OD 4587.....	Routine Test Data for 5" Projectile Hoist Mk 4 Mods 10 and 11 5" Powder Hoist Mk 4 Mods 10 and 11 (38 cal Twin Mount Mk 32) Electric Hydraulic Equipment	25 Feb 43	R	
OP 1027C.....	5" Projectile Hoist Mk 6 and 5" Powder Hoist Mk 6, Electric-Hydraulic Equipment (<i>Preliminary</i>)	5 Jul 45	R	
OD 4762.....	Report of Test of 5"/54 cal Pilot Powder Hoist Mk 6 and Projectile Hoist Mk 6 and Vickers Inc Electric Hydraulic Power Drive Equipment	27 Dec 44	R	
OD 4777.....	5"/54 cal AA Single Gun Mounts Mk 39 Mod 0, Equipped with Powder Hoist Mk 6 Mod 0; Projectile Hoist Mk 6 Mod 0; Shield Mk 54 Mods 0 or 1; Sight Mk 40 Mod 0 (Telescopic) and Sight Mk 43 Mods 0 and 1 (Open), Installation Instructions	28 Apr 45	R	Rev A
*OD 4548.....	Description and Operation of 6"/47 cal Powder and Projectile Hoists			
*OD 5262.....	Type Test Reports 6" Powder and Projectile Hoist.....			
OD 4593.....	6" Powder Hoist Mk 2 Brake Load Tests Vickers Hydraulic Drive Unit	19 Jul 43	R	
#OP 592.....	6"/47 cal Triple Turrets for CLs 40-43 and 46-50 Description and Instructions	May 1941	R	With Change 1 dated 27 Jan 45 and Change 2 dated 7 Feb 45
*OD 5346.....	Electric Hydraulic Equipment for 6" Projectile Hoist Mk 3 and Mk 3 Mods 1, 2 and 3 and 6" Powder Hoist Mk 3 and Mk 3 Mod 1 for 6"/47 cal 2 Gun Turrets CL 146 Class			
#OP 833.....	6"/47 cal Triple Turrets CL 55 Class (<i>Hoists Mk 4 and 4 Mods 1 to 11</i>)	Jun 1942	R	With Appendix 1 and Change 1 dated 27 Jan 45. Supplemented by OP 1069
OD 3481.....	Description of Circuits and Units with Instructions for Installation, Adjustment, Operation and Repair of 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 cal Triple Turret) Electric Hydraulic Drives	7 Apr 43	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Hoists, Powder				
OD 5245.....	Routine Test Data 6" Projectile Hoists Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 cal Triple Turret) Electric Hydraulic Equipment	27 May 43	R	
OD 5330.....	Routine Test Data Power Drives for 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11, 6"/47 cal Triple Turret	6 Jan 44	R	
OD 2829.....	8"/55 cal Triple Mounts Lower Powder Hoists Instructions for Checking the Door Interlock System and Making Proper Adjustments	18 May 38	R	
*OD 3306.....	Electric Hydraulic Drive for 8" Powder Hoist			
*OD 5260.....	Routine Test for 8" Upper Powder Hoist			
OP 704.....	8" Triple Gun Turrets for CA 45 (Hoists Mk 1 and 1 Mods 1 and 2, Mk 24 and 24 Mods 1 and 2)	Oct 1941	R	Supersedes earlier blueprint copies
OP 569.....	8" Triple Mounts for CAs 32, 34 and 36 Description	Dec 1934	R	Supersedes ODs 2091 and 2050
#OP 834.....	8" Triple Gun Turrets USS BALTIMORE Class CAs 68-75, 122-138 (Hoists Mk 28 Mods 6 to 11, Mk 30 and 30 Mods 1 to 8)	Apr 1943	R	
OD 4060.....	Electric Hydraulic Equipment for 8" Upper Powder Hoists Mk 28 Mods 6, 7, 8, 9, 10 and 11 Instructions for Operation and Maintenance For CAs 68 to 75 Incl	Undated	D	
OD 3546.....	Electric Hydraulic Equipment for 8" Powder Hoist Mk 30 and Mk 30 Mods 1 to 8 (Lower Powder Hoist for 8"/55 cal 3 Gun Turrets) For CAs 68-75 Incl	20 Jul 43	D	
OD 4623.....	Performance Tests 8" Lower Powder Hoist Mk 30 Mod 4	9 Dec 43	R	
OD 5320.....	Routine Test Data Power Drives for 8" Lower Powder Hoist Mk 33 Electric Hydraulic Equipment	15 Dec 43	R	
*OD 5307.....	8" Projectile Hoist Mk 31 and Mk 31 Mods 1 and 2 for 8" Powder Hoist Mk 36 and Mk 36 Mod 1 in 8"/55 cal 3 Gun Turrets (CA 139 Class)			
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary) (Powder Hoist Mk 16 and 16 Mods 1, 2, 17, 17 Mods 1 to 8)	25 Oct 44	R	
OD 4791.....	Test of 12" Powder Hoist Mk 16 Mod 2	22 Jun 45	R	
OD 5264.....	Routine Test Data Power Drives for 16"/50 Cal Powder Hoist for BBs 65-71 Incl Electric Hydraulic Equipment	3 Aug 43	R	
OD 4642.....	16" Projectile Hoist Mk 7 Powder Hoist Mk 8 for 16"/45 Cal Hoists Tests of Cradle and Powder Door Motor and Pumps	4 Sep 43	R	
OP 755.....	16" Triple Turret for BBs 55-60 (45 cal)—Description and Instructions (Powder Hoist Mk 8 and Mods)	Dec 1941	R	1st rev. See remarks for OP 755 in Part 1
OD 3634.....	Electric Hydraulic Equipment for 16" Powder Hoist Mk 8 and Mk 8 Mods 1 to 17 Instructions for Installation, Adjustment, Operation and Repair	1 Jul 41	R	
OD 3652.....	Test of 16" Powder Hoist Mk 8 Mod 17 (BBs 55 to 60)	13 Jun 41	R	
OD 2365.....	Instructions for Testing 16" Powder Hoist Mk 9 and Mods Upper Trunk Door Experimental Operating Equipment	27 Sep 44	D	

*Under preparation. #Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Hoists, Powder				
OP 769.....	16" Triple Gun Turrets, Main Armament for USS IOWA Class (BBs 61-66) 16"/50 Cal (Preliminary) (Powder Hoist Mk 9 and 9 Mods 1 to 18)	Jun 1943	R	See remarks for OP 769 in Part 1
OD 4596.....	Routine Test Data 16" Powder Hoist Mk 9 and Mk 9 Mods 1-8 (BBs 61 to 66 Electric Hydraulic Equipment)	12 Apr 43	R	Rev A
OD 3434.....	Description of Circuits and Unit with Instructions for Installation, Adjustment, Operation and Repair for 16" Powder Hoist Mk 9 and Mk 9 Mods 1 to 8 Electric Hydraulic Equipment BBs 61-71	12 Mar 43	R	
OD 4660.....	Test of 16" Powder Hoist Mk 9 Mod 8 (50 Cal BB 61 Class)	27 Apr 45	R	
OD 4792.....	Test of 12" Powder Hoist Mk 17 Mod 8	5 Jul 45	R	
Hoist, Projectile				
See also	TURRETS			
OD 3361.....	Description of Circuits and Units with Instructions, Adjustment, Operation and Repair for 5" Projectile Hoist Mk 1 and Mk 1 Mods 1 to 7 Incl 5" Powder Hoist Mk 1 and Mk 1 Mods 1 to 7 Incl (38 Cal Twin Mount) Electric Hydraulic Drive	1 Jun 38	R	
OD 3405.....	Description of Circuits and Units with Instructions for Adjustment, Operation and Repair 5" Powder Hoist Mk 1 and Mk 1 Mods 1 to 6 Incl 5" Projectile Hoist Mk 1 and Mk 1 Mods 1 to 7 Incl (Electric Hydraulic Equipment DDs 356-363, 381, 383)	9 Jan 39	R	
#OP 748.....	5"/38 Cal Enclosed Single Mounts AA Mk 25 and 25 Mods 1 and 2 (Preliminary) (Hoist Mk 2)	Jan 1941	R	See remarks for OP 748 in Part 1
OD 2831.....	Assemblies 5" Projectile Hoists Mk 2 (for 5"/38 Cal Anti-Aircraft Enclosed Mounts on Destroyers 380, 382 to 393)	19 Oct 42	R	Rev A
OP 735.....	5"/38 Cal Gun Mounts AA Base Ring Type Mk 30 and Mods Except Merchantmen Types	May 1943	R	1st rev. See remarks for OP 735 in Part 1
OD 2843.....	Assemblies 5" Projectile Hoists Mk 2 Mod 1 (for 5"/38 Anti-Aircraft Enclosed and Enclosed Type Open Mounts)	19 Oct 42	R	Rev C
OD 3492.....	5" Projectile Hoist Mk 2 Mod 1 (for 5"/38 Cal AA Enclosed and Enclosed Type Open Mounts on DDs 397-444, AVs 4 and 5, ADs 14 and 15, AO's 22-24, AVPs 10-13, AS 11, CM 5, AR 5) Synchronization of Hydraulic Motor and Control Unit with Hoist and Adjustment of Control Gear	6 Mar 40	R	
OD 3635.....	Description of Circuit and Units with Instructions for Installation, Adjustments, Operation and Repair for Electric Hydraulic Equipment for 5" Projectile Hoist Mk 2 Mod 1 (5"/38 Cal Mount Mk 30)	29 Mar 43	R	Rev B
OD 3950.....	Description of Circuit and Units with Instructions for Adjustment, Operation and Repair for 5" Projectile Hoist Mk 2 Mod 1 5"/38 Cal Mount Mk 30 and Mods (Electric Hydraulic Equipment)	29 Mar 43	R	Rev A
OD 4448.....	5" Projectile Hoist Mk 2 Mod 1 (5"/38 Cal Mount Mk 30) Electric Hydraulic Equipment—OS 2130 Routine Test Data	3 Jun 42	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Hoists, Projectile				
OD 4673.....	Routine Test Data Power Drives for 5" Projectile Hoist Mk 2 Mod 1 5"/38 Cal Mount Mk 30 Electric Hydraulic Equipment	29 Oct 43	R	
OD 5337.....	Routine Test Data Power Drives for 5" Projectile Hoist Mk 2 Mod 1 for 5"/38 Cal Mount Mk 30 Electric Hydraulic Equipment	14 Jan 44	R	
OTI G17-43...	5" Projectile Hoists Mk 2 and Mods, Mk 3 and Mods and Mk 4 and Mods Adjustment of	17 Jun 43	R	Issued with OPs 735, 745, 748 and 805
OP 1018.....	5" Loading Machine Assembly 89, 5" Loading Machine Mk 17 Mod 0, 5" Projectile Hoist Top Mk 3 Mod 0, 5" Powder Hoist Top Mk 3 Mod 0	26 Jul 45	R	
OD 2862.....	Assemblies 5" Projectile Hoist Mk 3 and Mk 3 Mod 1 for 5" (38 Cal) Twin Anti-Aircraft Enclosed Mounts on Cruisers 49 and 50 Description	19 Nov 42	R	Rev A
OD 3951.....	Description of Circuit and Units with Instructions for Adjustment, Operation and Repair for 5" Projectile Hoist Mk 3 and Mk 3 Mod 1 5"/38 Cal Mount Mk 29 (Electric Hydraulic Equipment)	6 Apr 39	R	Rev A
OD 4579.....	Report of Tests on Fuze Setting Indicator Regulator Mk 9 for Use with 5"/38 Cal Twin Mount Projectile Hoists Mk 3 (RH) and Mk 3 Mod 1 (LH)	27 Sep 43	R	Rev A
OD 3348.....	5" Powder and Projectile Hoists Mk 4 and Mods, Electric Hydraulic Equipment, Description of Circuits and Units with Instruction for Adjustment, Operation and Repairs for 5" Powder and Projectile Hoists Mk 4 and Mods Electric Hydraulic Equipment	29 Mar 43	R	Rev A
OD 3595.....	5" Powder Hoists Mk 4 and Mods 5" Projectile Hoists Mk 4 and Mods 5"/38 Cal Twin DP Enclosed Mounts Installation Instructions	15 Oct 40	R	
OD 3529.....	Assemblies 5" Ammunition Hoists for 5"/38 Cal Twin Double Purpose Enclosed Mounts on BBs 55 and 56 Description	19 Oct 42	R	Rev B
#OP 805.....	5"/38 Cal Twin Gun Mounts AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2, Description and Instructions (Hoists Mk 4 and 4 Mods 1 to 11)	Feb 1942	R	See remarks for OP 805 in Part 1
OD 3414.....	Electric Hydraulic Equipment for 5" Projectile Hoist Mk 4 Mods 4, 5, 8 and 9 For 5" Mounts Mk 28 and Mods on CLs 51 to 54	11 Feb 44	D	Rev A
OD 3583.....	Assemblies 5" Ammunition Hoists (For 5"/38 Cal Twin Double Purpose Enclosed Mounts on BBs 57 to 60 Incl and CLs 51 to 54 Incl) Description	20 Mar 42	R	
OD 5319.....	Routine Test Data for Power Drives for 5" Projectile Hoist Mk 4 Mods 6, 7, 10 and 11, 5" Powder Hoist Mk 4 Mods 6, 7, 10 and 11 (38 Cal Twin Mount Mk 28 and Mk 32) Electric Hydraulic Equipment	15 Dec 43	R	
OD 3498.....	Description of Circuits and Unit with Instructions for Installation, Adjustment, Operation and Repair for 5" Projectile Hoist Mk 4 Mods 10 and 11 and 5" Powder Hoist Mk 4 Mods 10 and 11 Electric Hydraulic Equipment	2 Oct 42	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Hoists, Projectile				
OD 4587.....	Routine Test Data for 5" Projectile Hoist Mk 4 Mods 10 and 11, 5" Powder Hoist Mk 4 Mods 10 and 11 (38 Cal Twin Mount Mk 32) Electric Hydraulic Equipment	25 Feb 43	R	
*OP 1527A.....	5" Ammunition Hoist Mk 1 Mods 0-11 in 5"/54 Cal DP Twin Mounts Mk 41 Mod 0		R	
OP 1027C.....	5" Projectile Hoist Mk 6, 5" Powder Hoist Mk 6, Electric Hydraulic Equipment (Preliminary)	5 Jul 45	R	
OD 4762.....	Report of Test of 5"/54 Cal Pilot Powder Hoist Mk 6 and Projectile Hoist Mk 6 and Vickers Inc Electric Hydraulic Power Drive Equipment	27 Dec 44	R	
OD 4777.....	5"/54 Cal AA Single Gun Mounts Mk 39 Mod 0 Equipped with Powder Hoist Mk 6 Mod 0; Projectile Hoist Mk 6 Mod 0; Shield Mk 54 Mods 0 or 1; Sight Mk 40 Mod 0 (Telescopic) and Sight Mk 43 Mods 0 and 1 (Open), Installation Instructions	28 Apr 45	R Rev A	
*OD 4548.....	Description and Operation of 6"/47 Cal Powder and Projectile Hoists			
*OD 4549	Description and Operation of 6"/47 Cal Powder and Projectile Hoists			
*OD 5262.....	Type Test Reports 6" Powder and Projectile Hoist.....			
#OP 592.....	6"/47 Cal Triple Gun Turrets for CLs 40-43 and 46-50 Description and Instructions (Hoists Mk 2 Mods 1 to 5)	May 1941	R	With Change 1 dated 27 Jan 45, Change 2 dated 7 Feb 45 and OCL G31-43. Supersedes OD 3376
*OD 4631.....	6"/47 Cal Projectile Hoist Mk 3 and Mk 3 Mods 1, 2 and 3 Description of Operation (Rock Island Arsenal)			
*OD 4632.....	6"/47 Cal Projectile Hoist Mk 3 and Mk 3 Mods 1, 2 and 3 Installation Instructions			
*OD 5346.....	Electric Hydraulic Equipment for 6" Projectile Hoist Mk 3 and Mk 3 Mods 1, 2 and 3 and 6" Powder Hoist Mk 3 and Mk 3 Mod 1 for 6"/47 Cal 2 Gun Turrets CL 146 Class			
#OP 833.....	6"/47 Cal Triple Turrets CL 55 Class (Hoists Mk 4 and 4 Mods 1 and 2)	Jun 1942	R	With Change 1 dated 27 Jan 45 and Appendix 1, Supersedes OD 3376
OD 3481.....	Description of Circuits and Units with Instructions for Installation, Adjustment, Operation and Repair of 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 Cal Triple Turret) Electric Hydraulic Drives	7 Apr 43	R	
OD 5245.....	Routine Test Data 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 Cal Triple Turret) Electric Hydraulic Equipment	27 May 43	R	
OD 5330.....	Routine Test Data Power Drives for 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 6"/47 Cal Triple Turret	6 Jan 44	R	
OD 4423.....	Hydraulic Power Equipment for Projectile Hoists and Door Operating Equipment 8"/55 Cal 3 Gun Turrets Mk 27 Mods 3, 4, and 5 CAs 68-75	15 Apr 43	D	
OP 569.....	8" Triple Mounts for CAs 32, 34 and 36 Description (Hoist Mk 3)	Dec 1934	R	Supersedes ODs 2091 and 2050

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Hoists, Projectile				
OP 704.....	8" Triple Gun Turrets for CA 45 (Hoists Mk 6 and 6 Mods 1 and 2, Mk 27 and 27 Mods 1 and 2)	Oct 1941	R	Supersedes earlier blueprint copies
OP 834.....	8" Triple Gun Turrets USS BALTIMORE Class, CA 68-75, 122-138 (Preliminary) (Projectile Hoists Mk 6 Mods 3, 4, 5; Mk 27 Mods 2, 3, 4 or 6, 7, 8)	Apr 1943	R	See remarks for OP 834 in Part 1
OD 4542.....	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 8" Auxiliary Projectile Hoist Mk 6 Mods 3, 4 and 5 Electric Hydraulic Equipment	17 Aug 43	R	
OD 5315.....	Routine Test Data Power Drives for 8" Auxiliary Projectile Hoist Mk 6 Mods 3, 4 and 5 Electric Hydraulic Equipment	20 Nov 43	R	
OD 5316.....	Routine Test Data Power Drives for 8" Auxiliary Projectile Hoist Electric Hydraulic Equipment	20 Nov 43	R	
OD 5787.....	Test Data Summary, 8" Projectile Hoist Mk 27 Mods 6, 7, and 8, Electric Hydraulic Equipment (Projectile Hoist Mk 27 Mods 6, 7, and 8)	20 Sep 45	R	
*OD 5307.....	8" Projectile Hoist Mk 31 and Mk 31 Mods 1 and 2 for 8" Powder Hoist Mk 36 and Mk 36 Mod 1 in 8"/55 Cal 3 Gun Turrets (CA 139 Class)			
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary) (Projectile Hoist Mk 16, 16 Mods 1, 2; 17)	25 Oct 44	R	See remarks for OP 835 in Part 1
OD 4793.....	Test of 12" Projectile Hoist Mk 16 Mod 2.....	19 May 45	R	
OD 4794.....	Test of 12" Projectile Hoist Mk 17.....	18 Jun 45	R	
*OD 5261.....	Routine Tests for 16" Projectile Hoist.....			
OD 4642.....	16" Projectile Hoist Mk 7 Powder Hoist Mk 8 for 16"/45 Cal Hoists Tests of Cradle and Powder Door Motor and Pumps	4 Sep 43	R	
OP 755.....	16" Triple Turret for BBs 55-60 (45 Cal)—Description and Instructions (Projectile Hoist Mk 7 and Mods)	Dec 1941	R	1st rev. See remarks for OP 755 in Part 1
OD 3590.....	16" Projectile Hoist Mk 7 Mod 2 Instructions for Testing	1 Oct 40	R	
OD 3653.....	Test of 16" Projectile Hoist Mk 7 Mod 2 (BBs 55 to 60)	13 Jun 41	R	
OD 4742.....	16" Projectile Hoist Mk 7 and Mods 16" Projectile Hoist Mk 8 and Mods BBs 55 to 64 Incl Method of Testing Upper and Lower Cylinder Head Buffers on Projectile Hoist Hydraulic Cylinder Aboard Ship	25 Sep 44	R	
OP 769.....	16" Triple Gun Turrets, Main Armament for USS IOWA Class (BBs 61-66) 16"/50 Cal (Preliminary) (Projectile Hoist Mk 8 and 8 Mods 1 and 2)	June 1943	R	See remarks for OP 769 in Part 1
OD 2368.....	Instructions to Adjust the Clark Solenoid Brake of the 16" Projectile Hoists Mk 8 and Mk 8 Mods 1 and 2	May 1944	D	
*OD 3479.....	16" Projectile Hoist Mk 8 Mk 8 Mods 1 and 2 BBs 61 and 62 Three Gun Turrets			
OD 4063.....	Electric Hydraulic Equipment for 16" Projectile Hoist Mk 8 and Mk 8 Mods 1 and 2 for 16" Mounts Mk 8 and Mods in BBs 61-66 Incl	13 Apr 43	D	
OD 4616.....	Report of Heat Test on Interlock Solenoid for 16" Projectile Hoist Mk 8 Mk 8 Mods 1 and 2	20 May 43	D	
OD 4504.....	16" Projectile Hoist Mk 8 Mod 2 Cradle Operating Cylinder Performance Tests	28 Nov 42	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Hoists, Projectile				
OD 4659.....	Ordnance Data Test of 16" Projectile Hoist Mk 8 Mod 2	12 Feb 44	R	See remarks for OP 4659
OD 3591.....	16" Powder Hoist Mk 8 Mod 17 Instructions for Testing	11 Oct 40	R	See remarks for OP 3591
Hoist, Rocket Launcher				
OD 4783.....	Report of Test and Inspection Rocket Launcher Assembly Mk 102 Mod 0 Equipped with Power Drives Mk 4 Mod 3 Manufactured by General Electric Co., and Rocket Hoist Mk 1 Mod 0 Manufactured by Vickers Inc	19 May 45	R	See remarks for OP 4783
OP 1424.....	Rocket Launcher Assembly Mk 102 Mod 0, Description and Instructions for Use	20 Sep 45	R	1st rev. See remarks for OP 1424
Hoist, Shell				
OD 148.....	Description of 14" Shell Hoist Mk 1	25 Apr 45	D	Rev A
OD 147.....	14" Shell Hoist Mk 6 Description	31 Aug 15	D	
HOLDERS				
OP 865.....	Aviation Ordnance Equipment Catalog (Ammunition Box Holders, Type A1, and Magazine Holder)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material (Blasting Cap and Demolition Holders)	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OMI V1-46...	Mounting of Data Card Holder Bombsight and Stabilizer Mk 15, SBAE Mk 2 and GBA Mk 2	22 Jan 46	D	Supersedes OMI V25-44
OD 2092.....	Instructions for Installing Check Sight Holders Drawing 119123 on 3"/50 Cal Sight Mk 16 Mod 1	8 Jan 34	D	
OP 1219D.....	Ammunition Code Catalog Class D and U, Depth Charges and Accessories (Detonator Holder)	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1
OP 1219O.....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items (Primer Holders)	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
OP 481.....	Broadside Gun Mount Telescopes (Preliminary)	19 Sep 44	R	1st rev. Supersedes OD 780 and OP 349
HOLSTERS				
OP 1177.....	Surface Pyrotechnics and Projectors (Signal Pistol Holster)	19 Jan 45	R	See remarks for OP 1177 in Part 1
OP 1219B.....	Ammunition Code Catalog Class B, Pyrotechnics (Signal Pistol Holster)	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
HORNS				
See also	MINES			
OP 666.....	Electrochemical Horns Mk 5 and Mk 5 Mod 1 for Mines Mk 5 and Mk 10 Mod 1 Description and Operation	May 1943	C	
HOUSINGS				
See also	GUNS			
	MOUNTS			
	SIGHTS			
OD 2772.....	3"/50 Cal 5"/25 Cal 5"/38 Cal and 6"/47 Cal Guns Instructions for Assembling and Disassembling Gun Barrels and Housings (Bayonet Joint Type)	2 May 41	D	Rev G

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
HOUSINGS				
OP 984.....	3" Gun Mounts 50 Cal DP Pedestal Type Mk 24 and Mk 24 Mod 1 (<i>Housing Mk 2</i>)	27 Jan 44	R	See remarks for OP 984 in Part 1
OP 811.....	3" Gun Mount Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (<i>Housing Mk 2 and 2 Mod 1</i>)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OD 2892.....	5"/38 Cal Gun Instructions for Assembling and Disassembling Gun Barrels and Housings (Bayonet Joint Type for Assemblies 1001 and 1002)	18 Apr 40	D	
OD 4620.....	General Information for Identification and Interchangeability of Housings for 5"/38 Cal Guns (<i>5" Housings Mk 1 and Mods</i>)	18 May 43	R	
OP 700.....	5" Mounts (38 Cal AA Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, 11, Assemblies, Descriptions and Instructions (<i>Housing Mk 1 Mods 1 to 4</i>)	Sep 1942	R	See remarks for OP 700 in Part 1
OP 868.....	5"/38 Cal Single Mount Mk 37 (<i>Housing Mk 1 Mod 4</i>)	Feb 1943	R	See remarks for OP 868 in Part 1
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries, 38 Cal DP, Single Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49 (<i>Housing Mk 1 Mods 1, 4, 6, 7, and 8</i>)	11 Apr 44	R	See remarks for OP 1013 in Part 1
*OP 805.....	5"/38 Cal Twin Gun Mounts AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2, Description and Instructions (<i>Housing Mk 1 Mod 5</i>)	Feb 1942	R	See remarks for OP 805 in Part 1
OD 2923.....	Instructions for Modification of Gun Breech of 5"/25 Cal Guns Mk 10 Mod 2, Mk 11, Mk 11 Mods 2, 5 and 6 to 5" Housing Mk 5 and 5"/25 Cal Guns Mk 10 Mod 3, Mk 11 Mods 1, 3 and 7 to 5" Housing Mk 5 Mod 1 for the Bayonet Joint Type Gun Barrel	8 Feb 45	D	Rev A
OD 4495.....	Routine Test Data 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3 (Electric Hydraulic Equipment).	23 Sep 42	R	
OD 2811.....	Instructions for Manually Operating the Breech Block and Cartridge Case Extractor for 6"/47 Cal Triple Mount Slide Mk 19 and Housings Mk 1 and Mk 1 Mod 1 Where Mounts are not Equipped with Hydraulic Units	30 Sep 37	R	
*OP 833.....	6"/47 Cal Triple Turrets CL 55 Class (<i>Housing Mk 1 Mods 2 and 3</i>)	Jun 1942	R	With Change 1 dated 27 Jan 45
OD 3482.....	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3 Electric Hydraulic Equipment	23 Sep 42	R	Rev A
OD 5278.....	Routine Test Data Power Drives for 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3 Electric Hydraulic Equipment	3 Sep 43	R	
*OD 3655.....	Electric Hydraulic Equipment for 6" Slide Mk 20 and Mod 1 and 6" Housing Mk 3 and Mk 3 Mod 1 for 6"/47 Cal 2 Gun Turrets			
*OD 3656.....	Electric Hydraulic Equipment for 6" Slide Mk 20 Mods 2 and 3 and 6" Housing Mk 3 Mods 2 and 3 for 6"/47 2 Gun Turrets Double Purpose			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
HYDRAULIC POWER EQUIPMENT				
See also	DRIVES, POWER GEARS			
	HOISTS			
OD 3366.....	Description of Circuits and Units with Instructions for Adjustment, Operation and Repair for Gun Director Mk 35, Director Hydraulic Equipment	20 Jul 38	R Rev A	
OD 3674.....	Report of Tests Gun Director Mk 33 Mods 11 and 12 with Ford Automatic Elevating and Training Hydraulic Control Mechanism	6 Aug 41	R	
OD 4175.....	Instructions for Installation of Metering Valve Block for Gun Director Mk 33 Training and Elevating Hydraulic Control Mechanism	20 Sep 41	R	
OD 3330.....	Gun Directors Mk 33 Mods 5 to 10 Incl (DDs 364-379, 380, 382, 384-393, 397-408, CVs 5-7, CLs 40-43, 46-50, CAs 44 and 45) Acceptance Tests of Electric Hydraulic Drive Type A Mod 2 After Installation Aboard Ship	24 May 37	R	
#OD 3354.....	Instruction Book Data for Electric Hydraulic Equipment for Gun Director Mk 33 Mod 8	12 May 38	R	
OD 4552.....	Electric Hydraulic Equipment Mk 7 Mod 1 for 21" AW Torpedo Tubes Training Gear, Instructions for Installation, Operation and Maintenance	Undated	R	
1710 Hydraulic Power Equipment				
*OD 3515.....	Description of the 1710 Mount Mk 2 Mod 7 Electric Hydraulic Equipment (Drive) for Elevating and Training Gears and Traverse Drive			
40-mm Hydraulic Power Equipment				
OD 4489.....	Summary of Routine Navy Tests under Non-Firing Conditions on Power Drives Mk 5 Mod 0 and Mod 6 for 40-mm Quadruple Mounts together with Summary of Test Data Supplied by Vickers Inc., Covering Routine Tests of Hydraulic Equipment Listing Maximum and Minimum Values Found in each Test	23 Jul 45	R Rev F	
5" Hydraulic Power Equipment				
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries, 38 Cal DP Single, Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49	11 Apr 44	R	See remarks for OP 1013 in Part 1
OP 1103.....	Electric Hydraulic Gun Drives for 5"/38 Cal DP Mount	Jan 1945	R	See remarks for OP 1103 in Part 1
OD 3780.....	Report of Accelerated Life Test on 5"/38 Cal Elevation Indicator Regulator and Electric Hydraulic Drive BBs 55 and 56	4 Sep 43	R	
OD 3135.....	Instruction Book for Electric Hydraulic Drive Equipment for Training Gear Mk 5 and Elevating Gear Mk 5 on 5"/38 Cal Twin Gun Mounts Mk 28 Mk 28 Mod 1 and Mk 32	15 Jul 42	R Rev B	
OD 3158.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Elevating Gears of 5"/38 Cal Twin Mounts Mk 28	Undated	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5" Hydraulic Power Equipment				
OD 3159.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Training Gear 5"/38 Cal Twin Mounts Mk 28	Undated	R	
OD 3188.....	Instruction Book for Electric Hydraulic Control Equipment for Train and Elevating Gear Mk 3 Mod 1 on 5"/38 Cal Twin Gun Mounts Mk 29 (CLs 49 and 50)	29 Apr 42	R	
OD 3189.....	Instruction Book for Electric Hydraulic Control and Drive Equipment for Training Gear Mk 10 and Elevating Gear Mk 10 on 5"/38 Cal Twin Gun Mount Mk 32	15 Jun 42	R Rev A	
OD 3477.....	Report of Non-Firing Tests 5"/38 Cal Mount Mk 30 Elevating and Training Gear Electric Hydraulic Drives	12 Feb 41	R Rev A	
OD 3752.....	Tests at Naval Gun Factory of 5"/38 Cal Elevating Gear Power Drive CLs 49 and 50	16 Jan 42	R	
OD 3348.....	5" Powder and Projectile Hoists Mk 4 and Mods Electric Hydraulic Equipment Description of Circuit and Units with Instruction for Adjustment, Operation and Repairs for 5" Powder and Projectile Hoists Mk 4 and Mods Electric Hydraulic Equipment	29 Mar 43	R Rev A	
OD 3405.....	Description of Circuits and Units with Instructions for Adjustment, Operation and Repair; 5" Powder Hoist Mk 1 and Mk 1 Mods 1 to 6 Incl; 5" Projectile Hoist Mk 1 and Mk 1 Mods 1 to 7 Incl; Electric Hydraulic Equipment DDs 356-363, and 381	9 Jan 39	R	
OD 3414.....	Electric Hydraulic Equipment for 5" Projectile Hoist Mk 4 Mods 4, 5, 8, and 9 for 5" Mounts Mk 28 and Mods on CLs 51 to 54	11 Feb 44	D Rev A	
OD 3492.....	5" Projectile Hoist Mk 2 Mod 1 (for 5"/38 Cal AA Enclosed and Enclosed Type Open Mounts on DDs 397-444, AVs 4 and 5, ADs 14 and 15, AOs 22-24, AVPs 10-13, AS 11, CM 5, AR 5 Synchronization of Hydraulic Motor and Control Unit with Hoist and Adjustment of Control Gear	6 Mar 40	R	
OD 3498.....	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 5" Projectile Hoist Mk 4 Mods 10 and 11 and 5" Powder Hoist Mk 4 Mods 10 and 11 Electric Hydraulic Equipment	2 Oct 42	R	
OD 3635.....	Description of Circuit and Units with Instructions for Installation, Adjustments, Operation and Repair for Electric Hydraulic Equipment for 5" Projectile Hoist Mk 2 Mod 1 (5"/38 Cal Mount Mk 30)	29 Mar 43	R Rev B	
OD 5319.....	Routine Test Data for Power Drives for 5" Projectile Hoist Mk 4 Mod 6, 7, 10 and 11. 5" Powder Hoist Mk 4 Mods 6, 7, 10 and 11 (38 Cal Twin Mount Mk 28 and Mk 32) Electric Hydraulic Equipment	15 Dec 43	R	
OP 1027C.....	5" Projectile Hoist Mk 6, 5" Powder Hoist Mk 6, Electric Hydraulic Equipment (Preliminary)	5 Jul 45	R	
*OP 1527B....	Electric Hydraulic Equipment for 5" Ammunition Hoists Mk 1 Mods 0-11, 5"/54 Cal in DP Twin Mounts Mk 41 Mod 0 (CL 154 Class)		R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5" Hydraulic Power Equipment				
OD 3310.....	Electric Hydraulic Equipment for 5" Slides Mk 22 Mods 2 and 3 (Rammers) and for 5" Loading Machines Mk 12 Mods 2 and 3	16 Apr 37	R 2nd rev	
OD 2762.....	Descriptive Pamphlet for Hydraulic Equipment for 5" Slides Mk 21 Mods 2 and 4 (Rammers) and for 5" Loading Machines Mk 14 Mod 2	7 Mar 38	R Rev C	
OD 4375.....	Electric Hydraulic Equipment for 5" Slides Mk 27 and Mk 27 Mods 1, 2 and 3 (Rammers) and for 5" Loading Machines Mk 15 and Mk 15 Mod 1	15 Dec 41	R	
OD 4056.....	Electric Hydraulic Equipment for 5" Slides Mk 24 Mods 2 and 3 (Rammers) and for 5" Loading Machines Mk 16 Mod 2	7 Oct 44	R Rev A	
OD 4189.....	Instruction for Installation of Electric Hydraulic Drive Equipment for Training Gear Mk 9 or Mk 19 on 5"/38 Cal Twin Mounts	9 May 42	R	
OD 4190.....	Instruction for Installation of Electric Hydraulic Drive Equipment for Elevating Gear Mk 9 or Mk 10 on 5"/38 Cal Twin Mounts	23 Dec 42	R	
*OD 4193.....	Summary of routine tests of Electric Hydraulic Equipment for 5" Training and Elevating Gear Mk 9 and 10 for 5"/38 Mount, Twin, Train Indicator Regulator Mk 46 Elevation Indicator Regulator Mk 42			
OD 4436.....	Instructions for Installation of Electric Hydraulic Drive Equipment for 5" Training Gear Mk 6 Mods 6, 7, 9, 10, 17 and 20, 5" Elevating Gear Mk 6 Mods 6, 7, 17, 18 and Telescopes Mk 61 and Mods, Mk 62 and Mods on 5"/38 Cal Single AA Gun Mounts Including Instructions for Testing After Installation	29 Jan 43	R	
OD 3893.....	Description of Gun Train Indicator Regulator Mk 39 Mods 0 and 16 to 19 Elevation Indicator Regulator Mk 36 Mods 0, 1, 2, 3 and 4 Electric Hydraulic Training and Elevation Equipment for 5"/38 Cal Mounts Mk 24	19 Nov 41	R	
OD 3368.....	Non-Firing Type Tests of Elevation and Training Gear Electric Hydraulic Drives and Control (Ford-Waterbury) 5"/38 Cal Mounts Mk 25 and Mk 30 DD 380 Class	10 Aug 38	R	
OD 3323.....	Electric Power and Control Equipment for 5"/25 Cal Mount Mk 27 Mod 2 Training and Elevating Gears Gun Train Indicator Regulator Mk 34 Gun Elevation Indicator Regulator Mk 32	8 Jul 38	R	
OD 3464.....	Hydraulic Power Equipment for Training and Elevating Gears 5"/38 Cal Mounts Mk 29	21 Apr 41	R	
OD 3951.....	Description of Circuit and Units with Instructions for Adjustment, Operation and Repair for 5" Projectile Hoist Mk 3 and Mk 3 Mod 1, 5"/38 Cal Mount Mk 29 (Electric Hydraulic Equipment)	6 Apr 39	R Rev A	
OD 3662.....	Report of Low Temperature Tests 5"/38 Cal Single Mount Mk 30 Elevating and Training Gear Electric Hydraulic Drives	18 Nov 44	R Rev B	
OD 4448.....	5" Projectile Hoist Mk 2 Mod 1 (5"/38 Cal Mount Mk 30) Electric Hydraulic Equipment OS 2130 Routine Test Data	3 Jun 42	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5" Hydraulic Power Equipment				
OD 4673.....	Routine Test Data Power Drives for 5" Projectile Hoist Mk 2 Mod 1 5"/38 Cal Mount Mk 30 Electric Hydraulic Equipment	29 Oct 43	R	
OD 3950.....	Description of Circuit and Units With Instructions for Adjustment, Operation and Repair for 5" Projectile Hoist Mk 2 Mod 1, 5"/38 Cal Mount Mk 30 and Mods Electric Hydraulic Equipment	29 Mar 43	R Rev A	
OD 3628.....	Report of Tests of Automatic Control 5"/38 Cal Single Mount Mk 30 Mod 8	13 Nov 41	R	
OD 3693.....	Report of Low Temperature Tests 5"/38 Cal Single Mount Mk 30 Mod 9 Elevating and Training Gears Electric Hydraulic Drives	4 Oct 43	R Rev B	
OD 4176.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Training Gear Mk 10 for 5"/38 Cal Twin Mounts Mk 32	12 Mar 42	D Rev A	
OD 4177.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Elevating Gear Mk 10 for 5"/38 Cal Twin Mounts Mk 32	10 Mar 42	R Rev A	
OD 4587.....	Routine Test Data for 5" Projectile Hoist Mk 4 Mods 10 and 11, 5" Powder Hoist Mk 4 Mods 10 and 11 (38 Cal Twin Mount Mk 32) Electric Hydraulic Equipment	25 Feb 43	R	
OD 4400.....	Instructions for Installation of Electric Hydraulic Drive Equipment 5" Training Gear Mk 10 and Mk 10 Mod 1 and 5" Elevating Gear Mk 10 on 5"/38 Cal Twin Gun Mounts Mk 32 and Mk 32 Mods 1 and 2	15 Sep 42	R Rev A	
OD 3747.....	Electric Hydraulic Equipment for 5" Rammers Summary of Routine Tests	31 Dec 41	R	
OD 4058.....	Electric Hydraulic Equipment for 5"/38 Cal Twin Rammer Drives	22 Jun 44	R	
OD 5256.....	Electric Hydraulic Equipment for 5" Twin Rammers and Loading Machines Summary of Routine Tests	8 Jan 43	R	
OTI G7-44....	Electric Hydraulic Rammers for 5"/25 Cal and 5"/38 Cal Gun Mounts and Loading Machines Precaution to Prevent Damage to Rammer Piston Rods	1 May 44	R	Issued with OPs 553, 700, 735, 740, 742, 743, 748, 775, 783, 805, 868, 895, 1013 and 1105
OD 2762.....	Descriptive Pamphlet for Hydraulic Equipment for 5" Slides Mk 21 Mods 2 and 4 (Rammers) and for 5" Loading Machines Mk 14 Mod 2	7 Mar 38	R	
OD 3310.....	Electric Hydraulic Equipment for 5" Slides Mk 22 Mods 2 and 3 (Rammers) and for 5" Loading Machines Mk 12 Mods 2 and 3	16 Apr 37	R Rev A	
OD 4056.....	Electric Hydraulic Equipment for 5" Slides Mk 24 Mods 2 and 3 (Rammers) and for 5" Loading Machines Mk 16 Mod 2	7 Oct 44	R Rev A	
OD 3301.....	Electric Hydraulic Equipment for 5" Slides Mk 25 (Rammer) and for 5" Loading Machines Mk 13	16 Apr 37	R Rev A	
OD 4375.....	Electric Hydraulic Equipment for 5" Slides Mk 27 and Mk 27 Mods 1, 2 and 3 (Rammers) and for 5" Loading Machines Mk 15 and Mk 15 Mod 1	15 Dec 41	R	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
6" Hydraulic Power Equipment				
OD 3041.....	Design Specifications for Electric Hydraulic Drive Equipment for 6"/47 Cal 3 Gun Turret Training Gear	23 Dec 42	R	Rev A
OD 3384.....	Electric Hydraulic Equipment Data Pamphlet for 6" Carriage Mk 17 Training Gear, Elevating Gear	24 Jan 39	R	Rev A
OD 4061.....	Electric Hydraulic Power Equipment for Training Gear Mk 2 Mod 1 for 6"/47 Cal Three Gun Turrets	31 Dec 42	D	
*OD 4553.....	6" and 8" Elevating Gear Electric Hydraulic Equipment			
*OD 4554.....	6" and 8" Training Gear Equipment Electric Hydraulic Equipment			
OD 4062.....	Hydraulic Power Equipment for Elevating Gear Mk 2 Mod 1 for 6"/47 Cal Three Gun Turrets	8 Nov 43	D	
OD 3126.....	Train Hydraulic Power Equipment for 6"/47 Cal Turret Guns	Undated	R	
OD 3127.....	Elevating Hydraulic Power Equipment for 6"/47 Cal Turret Guns	Undated	R	
OD 3481.....	Description of Circuits and Units with Instructions for Installation, Adjustment, Operation and Repair of 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 Cal Triple Turret) Electric Hydraulic Drives	7 Apr 43	R	
OD 5245.....	Routine Test Data 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2, 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 Cal Triple Turret) Electric Hydraulic Equipment	27 May 43	R	
*OD 5346.....	Electric Hydraulic Equipment for 6" Projectile Hoist Mk 3 and Mk 3 Mods 1, 2 and 3 and 6" Powder Hoist Mk 3 and Mk 3 Mod 1 for 6"/47 Cal 2 Gun Turrets CL 146 Class			
OD 5762.....	Test Data Summary 6" Projectile Hoist Mk 4 and Mk 4 Mods 1 and 2; 6" Powder Hoist Mk 4 and Mk 4 Mods 1 to 11 (6"/47 Cal Triple Turrets) Electric Hydraulic Drives	1 Jan 45	R	
OD 3482.....	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3 Electric Hydraulic Equipment	23 Sep 42	R	Rev A
OD 4495.....	Routine Test Data 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3 (Electric Hydraulic Equipment)	23 Sep 42	R	
OD 3309.....	Test Requirement for 6"/47 Cal Mount Mk 18, 2,000 Ton Gun Boats (PGs 50 and 51) Operation of Mount with Vickers Hydraulic Drive	Undated	R	
OD 3723.....	Type Non-Firing Tests of Electric Hydraulic Drives 6"/47 Cal (Triple) Rammer Breech Block and Extractor	2 Dec 41	R	
OD 3374.....	6"/47 Cal Triple Rammer Breech Block and Extractor Electric Hydraulic Drive (Vickers) Non-Firing Type Tests of Electric Hydraulic Drive	24 May 38	R	
*OD 3655.....	Electric Hydraulic Equipment for 6" Slide Mk 20 and Mk 20 Mod 1 and 6" Housing Mk 3 and Mk 3 Mod 1 for 6"/47 Cal 2 Gun Turrets			

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6" Hydraulic Power Equipment				
*OD 3650.....	Electric Hydraulic Equipment for 6" Slide Mk 20 Mods 2 and 3 and 6" Housing Mk 3 Mods 2 and 3 for 6"/47 Cal 2 Gun Turrets Double Purpose			
OTI G4-44.....	6" Training and Elevating Gear Electric Hydraulic Equipment Used on BBs, CAs and CLs for Main Battery Remote Control Installation	2 Mar 44	RM	
8" Hydraulic Power Equipment				
OP 834.....	8" Triple Gun Turrets USS BALTIMORE Class, CAs 68-75, 122-138 (Preliminary)	Apr 1943	R	See remarks for OP 834 in Part 1
*OP 1194.....	Electric Control of Hydraulic Equipment for 8" Training Gear Mk 19 and Mk 19 Mod 1, Mk 20 and Mk 20 Mod 1, Mk 21, Mk 23 and Mk 23 Mod 1 and 8" Elevating Gear Mk 20, Mk 21, Mk 22 and Mk 24			
OD 2770.....	Electric Hydraulic Equipment for Training and Elevating Gear 8"/55 Cal Three Gun Turret (CA 45)	6 Apr 39	R	
OD 3468.....	8" Experimental Training Gear Electric Hydraulic Equipment Description	15 Jan 40	R	
OD 3552.....	Gun Directors Mk 33 Mods 11 and 12 Training Gear Electric Hydraulic Drive (Type A-3) Instructions for Installation, Adjustment, Operation and Repair for Electric Hydraulic Equipment for Gun Directors Mk 33 Mods 11 and 12	5 May 41	R	
OD 4202.....	Electric Hydraulic Control and Drive Gear for Training Gear Mk 18 Mod 1 and Elevating Gear Mk 19 Mods 3, 4, 5 Instruction Book (Preliminary)	Undated	R	
OD 4692.....	Type Approval Tests of Electric Hydraulic Equipment for 8" Elevating Gear CA 68 Class	20 Sep 44	R	
OD 4750.....	Type Approval Tests of Electric Hydraulic Equipment for 8" Training Gear CA 68 Class, Ford Instrument Co	27 Apr 45	R	
*OD 5347.....	Electric Hydraulic Equipment for Elevating and Training Gears 8"/55 Cal 3 Gun Turrets CA 139 Class			
OD 2828.....	8"/55 Cal Triple Mounts Upper Powder Hoists Electric Hydraulic Drives Instructions for Adjustment to Produce Proper Operation (CAs 32, 34, 36-39, 44 and 45)	29 Apr 38	R	
OD 3351.....	Electric Hydraulic Equipment for 8" Auxiliary Projectile Hoist Mk 6 and Mk 6 Mods 1 and 2	8 Oct 37	R	
OD 3546.....	Electric Hydraulic Equipment for 8" Powder Hoist Mk 30 and Mk 30 Mods 1 to 8 (Lower Powder Hoist for 8"/55 Cal 3 Gun Turrets) For CAs 68-75 Incl	20 Jul 43	D	
*OD 3547.....	8"/55 Upper Powder Hoist Drives			
OD 4060.....	Electric Hydraulic Equipment for 8" Upper Powder Hoist Mk 28 Mods 6, 7, 8, 9, 10 and 11 Instructions for Operation and Maintenance for CAs 68 to 75 Incl	Undated	D	
*OD 5307.....	8" Projectile Hoist Mk 31 and Mk 31 Mods 1 and 2 for 8" Powder Hoist Mk 36 and Mk 36 Mod 1 in 8"/55 Cal 3 Gun Turrets (CA 139 Class)			
*OD 3545.....	8"/55 Projectile Hoist Drives CAs 68 to 75			
OD 4423.....	Hydraulic Power Equipment for Projectile Hoists and Door Operating Equipment 8"/55 Cal 3-Gun Turrets Mk 27 Mods 3, 4 and 5 (CAs 68-75)	15 Apr 43	D	
OD 4514.....	Test Data Summary; 8" Projectile Hoist Mk 27 Mods 6, 7, and 8, Electric Hydraulic Equipment	20 Sep 45	R	

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8" Hydraulic Power Equipment				
OD 4542.....	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 8" Auxiliary Projectile Hoist Mk 6 Mods 3, 4 and 5 Electric Hydraulic Equipment	17 Aug 43	R	
OD 5315.....	Routine Test Data Power Drives for 8" Auxiliary Projectile Hoist Mk 6 Mods 3, 4 and 5 Electric Hydraulic Equipment	20 Nov 43	R	
OD 5316.....	Routine Test Data Power Drives for 8" Auxiliary Projectile Hoist Electric Hydraulic Equipment	20 Nov 43	R	
OD 5320.....	Routine Test Data Power Drives for 8" Lower Powder Hoist Mk 33 Electric Hydraulic Equipment	15 Dec 43	R	
*OD 3307.....	Electric Hydraulic Equipment for 8"/55 Cal Rammer Mk 17 and Mk 17 Mod 1 for CA 45			
OD 4374.....	Hydraulic Power Equipment 8" Rammers (RH and LH) Mk 17 and Mk 17 Mods 1, 2 and 3	26 Dec 41	R	
12" Hydraulic Power Equipment				
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary)	25 Oct 44	R	
16" Hydraulic Power Equipment				
OD 3358.....	Hydraulic Power Equipment for Training and Elevating Gears for 16"/45 Three Gun Turrets (BBs 55 and 56)	21 Jul 41	R	
OD 3433.....	Hydraulic Power Equipment for Training Gear for 16"/50 Cal Three Gun Turrets (BBs 61-66 Incl)	5 Apr 44	R	
OD 3550.....	16"/45 Cal 3 Gun Turrets Training and Elevating Gear Hydraulic Power Equipment (BBs 57-60)	1 May 41	R	
OD 3607.....	Test of Northern Electric Hydraulic Drive for 16" Training Gear BBs 55 and 56	18 Feb 42	R Rev A	
OD 3609.....	Test of Waterbury Electric Drive for 16" Training Gear BBs 57 to 60	13 May 41	R	
OD 3759.....	Test of Waterbury Electric Hydraulic Drives for 16" Elevating Gear BBs 57 to 60	21 Jan 42	R	
*OD 4555.....	Electric Hydraulic Equipment for 16"/45 Cal Elevating Gear Drive			
OD 3434.....	Description of Circuits and Unit with Instructions for Installation, Adjustment, Operation and Repair for 16" Powder Hoist Mk 9 and Mk 9 Mod 1 to 8 Electric Hydraulic Equipment BBs 61-71	12 Mar 43	R	
OD 3634.....	Electric Hydraulic Equipment for 16" Powder Hoist Mk 8 and Mk 8 Mods 1-17, Instructions for Installation, Adjustments, Operation, and Repair	1 Jul 41	R	
OD 4596.....	Routine Test Data 16" Powder Hoist Mk 9 and Mk 9 Mods 1-8 (BBs 61 to 66 Electric Hydraulic Equipment)	12 Apr 43	R Rev A	
OD 5264.....	Routine Test Data Power Drives for 16"/50 Cal Powder Hoist for BBs 65-71 Incl Electric Hydraulic Equipment	3 Aug 43	R	
OD 3451.....	Description of Circuit and Units with Instructions for Installation, Adjustment, Operation and Repair for Electric Hydraulic Drive for 16" Projectile Ring Mk 2 (16"/50 Cal 3 Gun Turrets)	30 Oct 41	R	

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16" Hydraulic Power Equipment				
OD 3476.....	16"/45 Cal 3 Gun Turret 16" Projectile Ring Mk 1 Electric Hydraulic Equipment, Description of Circuit and Units with Instructions for Installation, Adjustments, Operation and Repair	Mar 1940	R	
OD 3503.....	Test of Electric Hydraulic Drive for 16" Projectile Ring	12 Mar 40	R	Rev B
OD 5263.....	Routine Test Data Power Drives for 16" Projectile Ring Mk 2 (16"/50 Cal 3 Gun Turrets) Electric Hydraulic Drive	3 Aug 43	R	
OD 3437.....	Electric Hydraulic Equipment for 16" Rammer Mk 5 and Mk 5 Mods 1 and 2, 16"/50 Cal Three Gun Turrets	17 Dec 43	R	
OD 3500.....	Test of Electric Hydraulic Drive for 16" Rammers (BBs 55 and 56)	11 Mar 40	R	
OD 4054.....	Electric Hydraulic Drive for 16" Rammers Mk 4 and Mk 4 Mods 1 and 2	24 Nov 40	R	
OD 4057.....	Electric Hydraulic Drive for 16" Rammers Mk 4 and Mk 4 Mods 1 and 2	1 May 41	R	
OD 3508.....	Test of Electric Hydraulic Drive for 16" Projectile Ring	12 Mar 40	R	Rev B
OD 3509.....	Description of Train Receiver Regulators Mk 15 and Mk 18 for Train Electric Hydraulic Control 16" 3 Gun Turrets	11 May 44	R	1st rev
OD 4557.....	Hydraulic Power Equipment for 16" Elevating Gear Mk 5 Mods 3, 4, and 5 for 16"/50 Cal Three Gun Turret, BBs 65 and 66	12 Aug 44	D	
Torpedo Tubes, Hydraulic Power Equipment				
OD 2761.....	Descriptive Pamphlet for Hydraulic Equipment for 21" AW Torpedo Tube Mk 14 and 15 Quintuple Tube for Destroyers, Training Gear Mk 3 Mod 1	22 Jul 40	C	Rev D
OD 3627.....	Electric Hydraulic Equipment for 21" AW Torpedo Tube Training Gear Mk 6 and Mk 6 Mod 1 Instructions for Operation and Maintenance	31 Aug 42	R	
OD 3746.....	21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4, 5, 8 and 9, Mk 15 Mods 1, 2, 3, 4, 5, 8 and 9 Method of Testing the Equipment after Installation Aboard Ship (For Electric Hydraulic Equipment Mk 6, Mk 6 Mod 1, Mk 7 and Mk 7 Mod 1)	6 Dec 44	R	Rev C
*OD 4049.....	21" Torpedo Tube Mk 7 Electric Hydraulic Training Drives DDs 445-648			
OD 4059.....	Electric Hydraulic Equipment for 21" AW Torpedo Tube Training Gear Mk 7 Instructions for Installation, Operation and Maintenance	31 Aug 42	R	
HYDROPHOTOMETER				
OP 1542.....	Underwater Photographic Assembly No 2 (Mk 2 Hydrophotometer)	13 Mar 45	R	
IGNITERS				
See also	TORPEDOES TRACERS			
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OD 743.....	Materials Used in Manufacture of Fuzes, Tracers, Igniters, Primers, etc.	20 Jul 38	R	Rev A

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IGNITERS				
OP 1219A.....	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
TB CW 10....	Assembly of Burster and Igniter in M47A1 and AN-M47A2 Incendiary Bombs	15 Jul 44	R	War Dept Publication. See remarks for TB CW 10 in Part 1
TB3-300-5.....	Igniters for Fire Bombs (<i>Explosive Type</i>)	10 Feb 45	R	War Dept Publication. See remarks for TB3-300-5 in Part 1
#OP 1178.....	Demolition Material	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1361.....	Napalm Bombs (Aircraft Jettisonable Fuel Tanks Used as Incendiary Bombs) (<i>Preliminary</i>)	21 Apr 45	R	See remarks for OP 1361 in Part 1
OHI A3-45....	Instructions for Assembly of Igniters, Incendiary, Gasoline Tank, M13, M14, M15, and M16	15 Mar 45	D	
OP 1164.....	Ballistic Testing of Rocket Propellants	26 Aug 44	R	
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1260.....	Rocket Ammunition, 570 Rocket (570 Motor) Spin Stabilized (<i>Preliminary</i>)	6 Feb 45	R	See remarks for OP 1260 in Part 1
OP 1415.....	Rocket Assemblies (<i>Preliminary</i>)	7 Apr 45	C	See remarks for OP 1415 in Part 1
OP 1219F.....	Ammunition Code Catalog Class F, Torpedo Warheads and Accessories	5 Nov 45	R	1st rev. See remarks for OP 1219F in Part 1
ILLUMINATION				
OD 2363.....	Changes Required in Fire Control Instruments Manufactured at Navy Yard, NY To Improve Red Illumination	4 Feb 44	D	
OD 3924.....	Illumination of Fire Control Instruments for Dark Adaptation of Personnel; Modification of Instruments Furnished by the General Electric Co to provide for	1944	R	
OD 5127.....	Instructions for Providing Red Illumination on Instruments Manufactured by Ford Instrument Company, Inc (<i>Preliminary</i>)	11 Sep 44	R	Rev A
OD 4640.....	Report of Tests in Connection with Improvement of Illumination of Fire Control Instruments for Dark Adapted Personnel	13 Aug 43	D	Rev A
INDEXES				
See also	PUBLICATIONS			
OP 0.....	Index of Ordnance Publications	7 May 46	R	23rd rev. See remarks for OP 0 in Part 1
OP 60.....	Index of Assemblies for U.S. Navy Mounts and Turrets Includes Guns Cal 20-mm to 16"	29 Apr 44	R	5th rev
OD 515.....	Index of Drawings of Ammunition Details with Latest Revisions	12 May 39	R	
INDICATORS				
Indicators, Battle Order				
OD 1652.....	Description Main Battery Fire Control System Battle Order Indicator Mk 15 (USS <i>PENSACOLA</i> and <i>SALT LAKE CITY</i>)	30 Nov 27	R	

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INDICATORS				
OD 1780.....	Description of Battle Order Indicator Mk 18 Main Battery Fire Control Systems	26 Apr 32	R	4th rev
OD 2156.....	Battle Order Indicator Mk 19 Description CAs 33 and 35	Undated	R	
*OD 2323.....	Battle Order Indicator Mk 20 Description.....			
OD 2522.....	Description of Battle Order Indicator Mk 25 Main Battery Fire Control System	24 Mar 37	R	4th rev
OD 2523.....	Description of Battle Order Indicator Unit Main Battery Fire Control System (Indicator Mk 25)	7 Apr 36	R	2nd rev
OD 3203.....	Description of Battle Order Indicator Mk 25 Mod 1 Main Battery Fire Control System DDs 394, 395 and 396	Undated	R	2nd rev
Indicators, Bearing				
OP 1238.....	Radar Equipment Mk 28 Mod 2.....	28 Dec 44	R	See remarks for OP 1238 in Part 1
OD 1041.....	Description of Bearing Indicator Mk 1 Main Battery Fire Control System	19 Jun 29	R	5th rev
OP 1035.....	Bearing and Range Indicator Mk 1 and Mk 1 Mods 1-7	6 Feb 45	R	Supersedes OD 4464
OD 1755.....	Description of Bearing Indicator Mk 1 Mod 1 Light Cruisers 26-31 Main Battery Fire Control System	13 Feb 30	R	2nd rev
*OP 1638.....	Bearing and Range Indicator Mk 3 Mod 2.....		C	
OD 2160.....	Bearing Indicator Mk 4 CAs 33 and 35.....	20 Oct 30	R	
OD 1775.....	Description of Bearing Indicator Mk 5 Main Battery Fire Control System	29 Aug 32	R	4th rev
OD 1815.....	Description of Bearing Indicator Mk 5 Mod 1 Main Battery Fire Control System	22 Jan 34	R	4th rev
Indicators, Bombsight				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
Indicators, Elevation				
OP 1238.....	Radar Equipment Mk 28 Mod 2.....	28 Dec 44	R	See remarks for OP 1238 in Part 1
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, and Mk 22 and Mods (Elevation Indicator Mk 21 Mod 4)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
Indicators, Fuze Setting				
OD 4368.....	Ordnance Data for Fuze Setting Indicator Mk 5 Mod 1	30 Oct 44	R	Rev A
OP 1161.....	Fuze Setting Indicator Mk 12 Mods 0 and 1.....	14 Nov 44	R	With Change 1 dated 19 Feb 45 and Change 2 dated 19 Jul 45
Indicators, Gun Battle Order				
OD 1603.....	Anti-Aircraft Instruction Book Step-by-Step Transmitters and Motors (Indicator Mk 13)	15 Dec 26	R	
OD 1604.....	Gun Battle Order Indicator Mk 13.....	26 Nov 26	R	
OD 961.....	Description of Gun Battle Order Indicator Mk 14 and Mk 14 Mods 1, 2 and 3	19 Oct 28	R	
OD 2113.....	Description of Gun Battle Indicator Mk 14 Mod 4.....	9 Sep 30	R	1st rev

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Indicators, Gun Director Train				
OD 5025.....	CA 68, Accuracy Test of Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	24 Jun 43	D	108 40
OD 5278.....	USS ST. PAUL (CA 73) Accuracy Test of Gun Train Receivers, Gun Elevation Receivers, and Gun Director Train Indicator	30 Mar 45	D	355 40
OD 5028.....	CV 17, Accuracy Test of Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	3 Jul 43	D	355 40
OD 5074.....	CA 70, Accuracy Test for Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicators	17 Dec 43	D	40 40
OD 5084.....	USS WASP, CV18, Accuracy Test Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicators	24 Feb 44	D	40 40
Indicators, Gun Elevation				
OD 1598.....	Anti-Aircraft Instruction Book Gun Elevation Indicator Mk 9	18 Nov 26	R	40 40
OD 1599.....	Fire Control Equipment Director Firing Installation Ford Type 5" Anti-Aircraft Battery Gun Elevation Indicator Mk 9 Mod 1	18 Nov 26	R	40 40
OD 960.....	Description of Gun Elevation Indicator Mk 9 Mods 2 to 5	16 Oct 28	R	40 40
OD 4253.....	Gun Elevation Indicator Mk 9 Mods 3, 5 and 6 Instructions for Altering to Receive Orders at 2 and 36 Speeds	6 Jul 43	R, Rev A	40 40
OD 1721.....	Description of Gun Elevation Indicator Mk 11 Main Battery Fire Control System	1929	R 2nd rev	40 40
OD 1754.....	Description of Gun Elevation Indicator Mk 11 Mod 1, CLs 26-31, Main Battery Fire Control System	8 Feb 30	R 2nd rev	40 40
OD 4254.....	Gun Elevation Indicator Mk 14 Mods 0 and 1 Instructions for Altering to Receive Orders at 2 and 36 Speeds	20 Jul 43	D	40 40
OD 2159.....	Gun Elevation Indicator Mk 15 Description CAs 33 and 35	23 Oct 30	R	40 40
OD 1786.....	Description of Gun Elevation Indicator Mk 16 Main Battery Fire Control System	16 Feb 44	R 3rd rev	40 40
OD 1803.....	Description of Gun Elevation Indicator Mk 17, Description of Main and Secondary Battery Fire Control System	22 Mar 34	R 6th rev	40 40
OD 2689.....	Gun Elevation Indicator Mk 18 Description and Installation Instructions DDs 348-355	27 Nov 34	R	40 40
OD 1812.....	Description of Gun Elevation Indicator Mk 19 Anti-Aircraft Battery Fire Control System Description of Modification of Instrument for CAs 36-38	21 Sep 43	R 5th rev	40 40
OD 2462.....	Description of Gun Elevation Indicator Mk 20, Main Battery Fire Control System	Feb 1944	R 3rd rev	40 40
OD 3874.....	Description of Gun Elevation Indicator Mk 20 Mod 1 Main Battery Fire Control System (BBs 43 and 44)	6 Oct 42	D 2nd rev	40 40
*OD 3926.....	Description of Gun Elevation Indicator Mk 20 Mod 2			40 40
OD 3915.....	Description of Gun Elevation Indicator Mk 20 Mod 3 Main Battery Fire Control System Spare Turrets for CAs 24, 25, 26-31, 32 and 37	Undated	D	40 40
OD 4366.....	Gun Elevation Indicator Mk 21 Mod 2	17 May 44	D Rev B	40 40
OD 4367.....	Gun Elevation Indicator Mk 21 Mods 3 and 4	17 May 44	R Rev B	40 40

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Indicators, Gun Elevation				
OP 881.....	Fire Control Equipment Gun Elevation Indicators Mk 23 and Mk 23 Mods 1 to 3 (<i>Preliminary</i>)	Jul 1942	R	
OD 2352.....	Gun Elevation Indicator Mk 23 Mod 2 for CLs 55 and 56 Installation Instructions	19 May 42	R	
OD 2356.....	Gun Elevation Indicator Mk 23 Mod 3 for CLs 57, 58, 62-67, 80-83, 86, 87, 89-94, 101, 102 Instructions for Installation	22 Sep 42	R	
OP 857.....	Gun Director Mk 35 and Mk 36 with Associated Fire Control Equipment Description (<i>Preliminary</i>)	Jan 1942	R	Supersedes OD 3319
OD 3204.....	Description of Gun Elevation Indicator Mk 24 Mod 1 Main Battery Fire Control System DDs 394, 395, 396 and CL 50	11 Mar 38	R	4th rev
OD 2512.....	Description of Gun Elevation Indicator Mk 29 Main Battery Fire Control System	2 Apr 37	R	4th rev
OD 2348.....	Gun Elevation Indicator Mk 33 and Mk 33 Mods 1 and 2 BBs 55 to 60 Installation Instructions	30 Jun 42	R	Rev A
OD 2357.....	Gun Elevation Indicator Mk 33 and Mk 33 Mods 1 and 2 (BB 55) Instructions for Modifying Units in Service	14 Oct 42	R	
OP 854.....	Fire Control Equipment Gun Elevation Indicators Mk 33 and Mk 33 Mods 1 and 4 Description (<i>Preliminary</i>)	Jul 1942	R	
OP 882.....	Fire Control Equipment Gun Elevation Indicator Mk 40 Description (<i>Preliminary</i>)	Jul 1942	R	
OD 2354.....	Gun Elevation Indicator Mk 40 for CAs 68-75 Installation Instructions	19 Sep 42	R	Rev A
OP 883.....	Gun Elevation Indicators Mk 40 Mod 1 and Mk 41 Mods 0 and 1	17 Jul 45	R	See remarks for OP 883 in Part 1
*OP 1121.....	Gun Elevation Indicator Mk 45.....			
Indicators, Gun Train				
OD 1596.....	Gun Train Indicator Mk 10 Fire Control Equipment Director Firing Installation (Ford Type) 5" Anti-Aircraft Battery	16 Nov 26	R	
OD 1597.....	Fire Control Equipment Director Firing Installation Ford Type 5" Anti-Aircraft Battery Gun Train Indicator Mk 10 Mod 1	16 Nov 26	R	
OD 958.....	Description of Gun Train Indicator Mk 10 Mods 2-5 Incl	15 Oct 28	R	
OD 1756.....	Description of Gun Train Indicator Mk 12 Mod 1 <i>Light Cruisers</i> 26-31 Main Battery Fire Control System	8 Nov 30	R	3rd rev
OD 3910.....	Description of Gun Train Indicator Mk 12 Mod 3 Main Battery Fire Control System CA 27	2 Jun 43	R	1st rev
OD 2119.....	Fire Control Equipment Gun Train Indicator Mk 15 and Mk 15 Mod 1 Description <i>Cruisers</i> 32-35	5 Aug 32	R	
OD 1782.....	Description of Gun Train Indicator Mk 17 Main Battery Fire Control System	22 May 34	R	10th rev
OD 3875.....	Description of Gun Train Indicator Mk 17 Mod 1 Main Battery Fire Control System (BBs 43, 44 and 48)	27 Mar 42	R	5th rev
*OD 3922.....	Description of Gun Train Indicator Mk 17 Mod 2.....			
OD 3925.....	Description of Gun Train Indicator Mk 17 Mod 3 Main Battery Fire Control System Spare Turrets for CAs 26-31, 32, 37 Classes	Undated	R	
OD 3921.....	Description of Gun Train Indicator Mk 17 Mod 4 Main Battery Fire Control System BBs 40-46 and 48	1944	D	

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Indicators, Gun Train				
OD 1804.....	Description of Gun Train Indicator Mk 19 Secondary Battery Fire Control System	14 Jun 33	R	3rd rev
OD 2703.....	Installation of Gun Train Indicator, Mk 20 and Mods...	Undated	R	Rev A
OD 2690.....	Gun Train Indicator Mk 20 and Mods 1 to 4. <i>Preliminary</i>	14 Mar 42	R	Rev A
OD 1806.....	Description of Gun Train Indicator Mk 21 Anti-Aircraft Fire Control System	15 Jun 33	R	5th rev
OD 4364.....	Ordnance Data for Gun Train Indicator Mk 23 Mod 2	14 Jan 44	R	Rev A
OD 4365.....	Gun Train Indicators Mk 23 Mods 3 to 12.....	14 Jan 44	R	Rev A
OP 913.....	Gun Train Indicator Mk 25 and Mk 25 Mods 1 to 6....	8 Feb 45	R	
*OP 1381.....	Gun Train Indicator and Transmitter Mk 25 Mod 7....		R	
OP 857.....	Gun Director Mk 35 and Mk 36 with Associated Fire Control Equipment Description (<i>Preliminary</i>)	Jan 1942	R	Supersedes OD 3319
OD 3208.....	Description of Gun Train Indicator Mk 34 Mods 5 and 6 Used on CLs 49 and 50	19 Jun 41	R	5th rev
*OP 1383.....	Gun Train Indicator Mk 40.....		R	
OTI F2-44.....	Gun Train Indicator Mk 52 Mods 1 and 2 Target Designation Transmitter Mk 8 Mods 1 and 2 (A) Loosening of Dial and Gear Clamps (B) Increasing Clearance Between Mk 52 Case and Anti-Vibration Mount	2 Feb 44	R	Issued with OP 972
OP 972.....	Gun Train Indicator Mk 52 Mods 1, 2 and 3 Target Designation Transmitter Mk 8 Mods 1, 2, 3 and 4 for Projectors Mk 10 and 11	26 Jul 44	R	Supersedes OD 4503 and OCL F10-43. Issued with OTI F2-44
OP 1001.....	Projectors Mk 10, Mk 10 Mod 1 and Mk 11 and Ammunition Description and Instructions for Use	25 Jul 44	R	1st rev. With Change 1 dated 24 Oct 44. Supersedes OCLs A113-43 and G12-44
OP 987.....	Gun Train Indicator Mk 53 Mod 1 For Projector Mk 10 Description and Operation	Jun 1943	R	
Indicators, Gyro Angle				
OD 3197.....	Description of Gyro Angle Indicator Mk 4 Mod 1 Torpedo Battery SSs 182 to 187 Incl	18 Jan 38	R	5th rev
Indicators, Mount Train				
OD 1039.....	Description of Mount Train Indicator Mk 1 USS <i>PENSACOLA</i> and <i>SALT LAKE CITY</i> Main Battery Fire Control System	1928	R	
OD 1040.....	Description of Mount Train Indicator Mk 1 Mod 1 USS <i>PENSACOLA</i> and <i>SALT LAKE CITY</i> Main Battery Fire Control System	1928	R	
OD 1737.....	Description of Mount Train Indicator Mk 1 Mod 2 U. S. Light Cruisers 26 to 31 Incl	15 Nov 30	R	6th rev
OD 1736.....	Description of Mount Train Indicator Mk 2 Main Battery Fire Control System	5 Mar 30	R	4th rev
Indicators, Pointer's Level				
OP 1399.....	Gun Director Mk 31 Use and Operation of Pointer's Level Indicator (<i>Preliminary</i>)	22 Dec 44	R	
Indicators, Position				
*OP 1676.....	Torpedo Data Computer Remote Indicating Equipment (<i>Preliminary</i>) (Position Indicators Mk 2 Mod 0, 3 Mod 0)		R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Indicators, Range				
OD 4392.....	Instruction Pamphlet for Anti-Aircraft Range Indicator Mk 1	13 May 42	D	Issued with OTI F3-43
OTI F3-43....	AA Range Indicator Mk 1 Method of Attaching Lanyard	23 May 43	R	Issued with OD 4392
Indicators, Rocket Firing				
OHI A2-45....	Instructions for Installation and Use of the 2725 Rocket Firing Indicator	9 Feb 45	D	
Indicators, Searchlight Battle Order				
OD 1605.....	Searchlight Battle Order Indicator Mk 12	29 Nov 26	R	
Indicators, Searchlight Elevation				
OD 1810.....	Description of Searchlight Elevation Indicator Mk 2 Anti-Aircraft Battery Fire Control System	12 Aug 43	D	5th rev
OD 5148.....	Searchlight Elevation Indicator Mk 3 Mod 1 Instructions for Altering to Receive Orders at 2 and 36 Speeds (Preliminary)	9 May 44	R	
OP 857.....	Gun Director Mk 35 and Mk 36 with Associated Fire Control Equipment Description (Preliminary)	Jan 1942	R	Supersedes OD 3319
OD 2480.....	Description of Searchlight Elevation Indicator Mk 4 Anti-Aircraft Battery Fire Control System	3 Mar 36	R	7th rev
OD 2504.....	Description of Searchlight Elevation Indicator Mk 4 Mod 1 Main Battery Fire Control System	3 Mar 36	R	6th rev
OD 2526.....	Description of Searchlight Elevation Indicator Mk 4 Mod 2 Anti-Aircraft Battery Fire Control System	10 Nov 36	R	4th rev
OD 2544.....	Description of Searchlight Elevation Indicator Mk 4 Mod 3 Anti-Aircraft Battery Fire Control System BBs 37, 38, 45-48, CVs 2, 3 and 7, DDs 379-408	15 Feb 38	R	13th rev
OD 3864.....	Description of Searchlight Elevation Indicator Mk 4 Mod 5 for Anti-Aircraft Battery Fire Control System for BBs 40-42, 61-64, CVs 9-12, CAs 68-71, DDs 666-808, AV7, AS12, AVPs 21 and 22	1 Dec 42	R	7th rev
OD 3020.....	Anti-Aircraft Fire Control Instruments for USS YORKTOWN, ENTERPRISE, WICHITA, PHOENIX, BOISE, HONOLULU and INDIANAPOLIS Searchlight Elevation Indicator Mk 5 and Mk 5 Mod 1	22 Oct 36	C	Rev A
OD 2597.....	Searchlight Elevation Indicator Mk 7	25 Jan 40	R	
OD 2581.....	Searchlight Elevation Indicator Mk 7 Mods 1 and 2	6 Jun 42	R	Rev D
Indicators, Searchlight Train				
OD 2535.....	Description of Searchlight Train Indicator Mk 4 Mod 3 AA Battery Fire Control System	Undated	R	
OD 2124.....	Fire Control Equipment Searchlight Train Indicator Mk 9 and Mk 9 Mod 1 Description	23 Aug 32	R	
OD 1807.....	Description of Searchlight Train Indicator Mk 10 Fire Control System	15 Jun 33	R	6th rev
OD 2479.....	Description of Searchlight Train Indicator Mk 12 Anti-Aircraft Battery Fire Control System	3 Mar 36	R	8th rev
OD 2505.....	Description of Searchlight Train Indicator Mk 12 Mod 1 Main Battery Fire Control System	3 Mar 36	R	6th rev
OP 857.....	Gun Director Mk 35 and Mk 36 with Associated Fire Control Equipment Description (Preliminary)	Jan 1942	R	Supersedes OD 3319

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Indicators, Searchlight Train				
OD 2525.....	Description of Searchlight Train Indicator Mk 12 Mod 2 Anti-Aircraft Battery Fire Control System	20 Nov 36	R	5th rev
OD 2534.....	Description of Searchlight Train Indicator Mk 12 Mod 3 Anti-Aircraft Battery Fire Control	Undated	R	
OD 3202.....	Searchlight Train Indicator Mk 12 Mod 4 Anti-Aircraft Battery Fire Control (For BBs 35, 43, 45, CVs 2, 3, 7, CLs 49, 50, DDs 397-408, and Spares)	25 Feb 38	R	5th rev
OD 3865.....	Description of Searchlight Train Indicator Mk 12 Mod 6 for AA Battery Fire Control System for BBs 40-42, 61-64, CVs 9-12, AV7, AS12, AVPs 21 and 22, CAs 68-71, DDs 666-808	2 Dec 43	R	7th rev
OD 3019.....	AA Fire Control Instruments for <i>USS YORKTOWN, ENTERPRISE, WICHITA, PHOENIX, BOISE, HONOLULU, INDIANAPOLIS</i> —Searchlight Train Indicator Mk 13	11 May 36	R	
OD 2596.....	Searchlight Train Indicator Mk 14.....	10 Jan 40	R	
OD 2580.....	Searchlight Train Indicator Mk 14 Mod 1.....	19 Aug 41	R	Rev C
Indicators, Sight Angle and Deflection				
OD 2018.....	5" Sight Mk 28 Mods 1 and 2 Anti-Aircraft Sight Angle and Deflection Indicators Description, Operation and Installation of Indicators	Undated	R	Rev A
Indicators, Sight Setter's				
OP 852.....	Sight Setters Indicator Mk 1 Mods 0 to 5.....	11 May 45	R	Supersedes 4461
OD 4465.....	Conversion of Sight Setter's Indicator Mk 1 Mod 3 to Sight Setter's Indicator Mk 1 Mod 4	28 Oct 44	R	
OD 4462.....	Ordnance Data for Sight Setter's Indicator Mk 2 Mod 1	25 Feb 43	R	
OP 880.....	Fire Control Equipment Sight Setter's Indicators Mk 3 and Mk 3 Mods 1 to 3 BBs 55-62	Nov 1942	R	
*OD 4463.....	Sight Setter's Indicator Mk 3 Mods 4 and 5.....			
OD 2589.....	Sight Setter's Indicator Mk 4.....	13 Jul 42	R	Rev C
*OP 1384.....	Sight Setter's Indicator Mk 5.....		R	
OP 1031.....	Sight Setter's Indicator Mk 6 Mods 0 and 1, Including Parallax Range Adjuster Mk 7 Mods 0 and 1	18 Oct 45	R	
OP 1517.....	Sight Setter's Indicator Mk 7 Mod 0.....	20 Nov 45	R	
*OP 1380.....	Sight Setter's Indicator Mk 8.....		R	
Indicators, Synchronous				
OD 2612.....	Synchronous Indicator Type A-9.....	28 Feb 33	R	
OD 2613.....	Synchronous Indicator Type A-10-R and A-11-R.....	28 Feb 33	R	
OD 2611.....	Synchronous Indicator Type H-1.....	28 Feb 33	R	
Indicators, Target Bearing				
OD 1020.....	Description of Target Bearing Indicator Mk 15 <i>USS NEW YORK</i> and <i>TEXAS</i> Main Battery Fire Control System	11 Jan 27	R	
Indicators, Target Course				
OP 1248.....	Instruction Book for Target Course Indicator Mk 1....	19 Sep 44	R	
OD 5107.....	Target Course Indicator Mk 1, Conversion from Target Angle Repeater Mk 1	3 Oct 43	R	

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Indicators, Target Course				
OP 1122.....	Gun Director Mk 55 Mod 0 (<i>Target Designator and Level Indicator</i>)	30 Jul 45	R	
Indicators, Torpedo Course				
#OP 585.....	Torpedo Director Firing Installation (Synchro Type) Description Mk 27 and 27 Mods 1 to 5.	Jun 1941	R	2nd rev. Issued with OCL F4-43
Indicators, Train				
OP 1122.....	Gun Director Mk 55 Mod 0 (<i>Antenna Train Indicator</i>)	30 Jul 45	R	
OD 1014.....	Description of Train Indicator Mk 11 USS <i>NEW YORK</i> and <i>TEXAS</i> Main Battery Fire Control	11 Jan 27	R	
OD 1799.....	Description of Train Indicator Mk 18, Main Battery Fire Control System	15 Jun 33	R	5th rev.
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, and Mk 22 and Mods (<i>Train Indicator Mk 23 Mods 3, 11, 12</i>)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OP 912.....	Train Indicator and Transmitter Mk 44 Mods 0-11.....	13 Apr 45	R	
OP 914.....	Train Indicator and Transmitter Mk 45 Mods 0 to 5...	18 May 45	R	With Change 1 dated 12 Sep 45
Indicators, Tube Gyro Angle				
OD 3199.....	Description of Tube Gyro Angle Indicator Mk 1 Mods 2 and 3 Torpedo Battery SS 182-187 Incl 188-193 Incl 194-197 Incl	18 Jan 38	R	5th rev.
Indicators, Turret Train				
OD 802.....	Description Main Battery Fire Control System Instrument Double Turret Indicator Mk 2 Mod 0 (Turrets 1 and 2) Mod 1 (Turrets 3 and 4)	Undated	R	
OD 1013.....	Description of Double Turret Train Indicator Mk 3 USS <i>NEW YORK</i> Main Battery Fire Control System	11 Jan 27	R	
OD 1019.....	Description of Double Turret Train Indicator Mk 3 Mod 1 USS <i>NEW YORK</i> and <i>TEXAS</i> Main Battery Fire Control System	11 Jan 26	R	
OD 1012.....	Description of Multiple Turret Indicator Mk 6 USS <i>NEW YORK</i> and <i>TEXAS</i>	11 Jan 27	R	
OD 1776.....	Description of Multiple Turret Train Indicator Mk 7 Main Battery Fire Control System	28 Apr 32	R	6th rev.
OD 2158.....	Multiple Turret Train Indicator Mk 8 Description (For CAs 33 and 35)	16 Jan 31	R	Rev A
OD 1792.....	Description of Multiple Turret Indicator Mk 9 Main Battery Fire Control System	15 Jun 33	R	3rd rev.
OD 1793.....	Description of Multiple Turret Indicator Mk 9 Mod 1 Main Battery Fire Control System.....	15 Jun 33	R	3rd rev.
OP 1309.....	Multiple Turret Train Indicator Mk 11 Mods 0-3, Mk 12 Mods 0-12	27 Jun 45	R	Supersedes OD 2353
OD 1015.....	Description of Triple Turret Train Indicator Mk 2 USS <i>NEW YORK</i> and <i>TEXAS</i> Main Battery Fire Control System	11 Jan 27	R	
OP 851.....	Turret Train Indicator and Transmitter Mk 37 Mods 0-6	11 May 45	R	With Change 1 dated 10 Sep 45
INHIBITORS				
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1

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INITIATORS				
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1388.....	Initiator (Detonating Cord) Mk 1 Mod 0 (Preliminary)	27 Dec 44	R	See remarks for OP 1388 in Part 1
OP 1390.....	Demolition Firing Device Mk 13 Mod 0 (Preliminary)	5 Jul 45	R	See remarks for OP 1390 in Part 1
OP 1482.....	Detonating Cord Initiator Mk 2 Mod 0 (Preliminary)	4 Jul 45	R	See remarks for OP 1482 in Part 1
INK				
OP 1219P.....	Ammunition Code Catalog Class 5, Small Arms, Machine Gun and Aircraft Gun Ammunition (Lithographic Ink)	25 Apr 45	R	1st rev. See remarks for OP 1219P in Part 1
INSPECTION				
See also	ORDNANCE EQUIPMENT, REPORTS ON			
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 400.....	Specifications for the Manufacture and Inspection of Ordnance Material	Nov 1939	D	7th rev. See remarks for OP 400 in Part 1
OP 1284.....	Instructions for the Overhaul, Inspection and Test of Gun, Browning Aircraft Machine Cal .50 AN-M2	Dec 1944	R	See remarks for OP 1284 in Part 1. Issued for Shop Use only
OP 400A.....	Specifications for the Manufacture and Inspection of Guns, Gun Barrels, Breech Mechanisms and Breech Housings	Mar 1939	D	1st rev. Supplement to OP 400
OP 1434.....	Inspection Gage Manual for Inspectors of Naval Ordnance Material	16 Feb 45	D	With Change 1 dated 24 May 45
OD 4581.....	Inspection Check-off Sheets for Ordnance Equipment for Destroyers DD 453 Class and DD 445 Class	9 Jul 43	R	
OD 5774.....	Inspection Procedure for Acceptance Tests of Bomb-sights Mk 15 and Mods	25 Apr 45	R	
SB9-AMM 4.....	Small-Arms Ammunition.....	1 Jan 45	D	War Dept Publication
SNL P-11 (ORD 5)	Special Ammunition Surveillance, Testing, Inspection and Renovation Tools and Supplies	.....	Do	
TB9-1904-1 ...	Purpose and Limitations of TM9-1904, Ammunition Inspection Guide	12 Mar 45	R	See remarks for TB9-1904-1 in Part 1
TM9-1904	Ammunition Inspection Guide.....	2 Mar 44	R	Do
INSTALLATION				
Installation, Fire Control				
OP 392.....	Director Firing Installation Vickers Type Directorscopes Mk 7 and Mk 8	May 1923	R	
OP 393.....	Director Firing Installation U.S. Navy Type, Includes Directorscopes Mk 1 to 4	Aug 1918	R	
OP 469.....	Director Firing Installation GE Type, General Description	Jun 1925	R	
OP 470.....	Director Firing Installation, Detailed Description (BBs 45 and 46) Secondary Battery Vol II Main Battery Vol I	Mar 1926	R	
OP 472.....	Director Firing Installation Gun and Torpedo Batteries Detailed Description (CLs 6, 7, 10 to 13) GE Type	Mar 1927	R	
OP 473.....	Director Firing Installation Gun and Torpedo Batteries Detailed Description (DDs 212-217, 275-280) GE Type	Apr 1927	R	

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Installation, Fire Control				
OP 573.....	Director Firing Installation, AA Battery (Synchro Type) Gun Director Mk 33 and Mods 1-8, Detail Description	Feb 1938	R	1st rev. Supersedes OD 2091
OP 585.....	Torpedo Director Firing Installation (Synchro Type) Description, Mk 27 and Mk 27 Mods 1-5	Jun 1941	R	2nd rev. Issued with OCL F4-43
OP 756.....	Gun Director Mk 37 and Mods for Ships Having 5"/38 DP Guns	Apr 1941	R	Issued with OP 756A. Will be superseded by OP 1060
OP 762.....	Alignment of Ordnance Installation on Board Ship General Instructions	Sep 1942	R	1st rev. Supplement dated Sep 1942 supersedes Ch 16 of Gunnery Instructions (1933). Where Instructions conflict with OP 18 this OP governs
OP 812.....	Gun Director Mk 40 BBa 55-66 (Preliminary) Description	Apr 1943	R	1st rev
OP 857.....	Gun Director Mk 35 and 36 with Associated Fire Control Equipment Description (Preliminary)	Jan 1942	R	Supersedes OD 3319
OD 5470.....	6"/47 Cal Turret Ordnance Installation Test Data for USS (CL 46)	Undated	R	For design and research use only. Not for distribution
OD 5477.....	6"/47 Cal Triple Turret Ordnance Installation Test Data for USS (CL 47)	Undated	R	Do
Installation, Ordnance				
OP 762.....	Alignment of Ordnance Installation on Board Ship General Instructions	Sep 1942	R	1st rev. Supplement dated Sep 1942 supersedes Ch 16 of Gunnery Instructions (1933). Where Instructions conflict with OP 18 this OP governs
OD 3003.....	DD 335, Ordnance Installation Checking and Adjustment Description	1 Apr 35	R	For design and research use only. Not for distribution
OD 3005.....	Report of Ordnance Installation Tests USS TERROR (CM5)	17 Nov 43	R	Do
OD 3006.....	USS BUTLER, DD 636 Report of Ordnance Installation Tests	Undated	R	Do
OD 3007.....	USS GHERARDI, DD 637 Report of Ordnance Installation Tests	Undated	R	Do
INSULATION and INSULATORS				
OD 2897.....	Fiber Glass Insulation Report of Tests and Inspection on Fiber Glass Insulation	17 Jun 40	D	
OD 4450.....	Report of Tests to Determine the Suitability of Formex and Formvar Insulated Wire for the Windings of Synchros	5 Aug 42	R	
OD 4702.....	Report of Test on Depth Charge Launcher Knife Edge Insulators	9 Jun 44	R	
INTERVALOMETERS				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OTI V23-44...	Tester Interval and Dwell Type WA-2300 Use of for Testing Intervalometers	18 Aug 44	R	Issued with OPs 1053, 1099
OP 1099.....	Intervalometer Mk 2 and Mk 2 Mods 1 and 2	30 Nov 43	R	Now issued by BuAer. NAVAER No. 11-5-518

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INTERVALOMETERS				
OD 5258.....	Mark 2 Mark 2 Mod 1 and Mark 2 Mod 2 Intervalometer Operation and Service Manual	7 Dec 43	R	See remarks for OP 5258 in Part 1
OD 4808.....	Report of Shock Test of Intervalometer Mk 6.....	10 May 45	R	See remarks for OP 4808 in Part 1
OP 1424.....	Rocket Launcher Assembly Mk 102 Mod 0, Description and Instructions for Use	20 Sep 45	R	1st rev. See remarks for OP 1424 in Part 1
OP 1053.....	Intervalometer Type K-2.....	30 Sep 43	R	See remarks for OP 1053 in Part 1
OD 3762.....	Type K-2 Intervalometer (Control Bomb Release) Operation and Service Instructions	23 Apr 43	R	1st rev. See remarks for OP 3762 in Part 1
OP 1256.....	Bomb Rack Mk 53 and Auxiliary Equipment (For Lighter Than Air Use Only)	2 Oct 44	R	Now issued by BuAer. NAVAER No. 11-5-519
OMI V5-43...	Bombsight Mk 15 Mods 4, 5 and 7 Change in Wiring...	20 Dec 43	D	Issued with Ordalt 1780
*OP 1674.....	Intervalometer (Depth Charge) Mk 5 Mod 0.....			
INVOICES See ORDNANCE EQUIPMENT, REPORTS ON				
JOINTS				
OD 3681.....	Test of Swing Joints for Conveying Fluid Pressure....	11 Sep 41	D	
KEYS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Firing Key NAF 1174-1</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OD 2743.....	Firing Keys Mk 16 and Mods and Mk 17 and Mods Description	19 Jan 39	D	Rev B
OD 900.....	Test of Suitable Element of Firing Keys Mk 16 Mods 1 and 17 Information concerning Firing Circuit Currents and Resistances on <i>Battleships, Light Cruisers and Destroyers</i>	5 Nov 26	R	
OP 835.....	12" Triple Gun Turrets, Main Armament for USS <i>ALASKA, GUAM, and HAWAII</i> (<i>Preliminary</i>) (<i>Firing Key Mk 16 Mod 8</i>)	25 Oct 45	R	See remarks for OP 835 in Part 1
OD 4703.....	Report of Tests on Firing Key Switches as used in Firing Key Mk 16 Mod 8 on Loads to Simulate Mk 28 Solenoids	18 Mar 44	D	
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries, 38 Cal DP Single, Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49	11 Apr 44	R	See remarks for OP 1013 in Part 1
OP 1558.....	Rocket Launcher Mk 26 Mod 0, Description and Instructions for Use (<i>Firing Key (Magneto) Mk 25 Mod 4</i>)	28 Jun 45	R	Used with OP 1443
OP 1219A.....	Ammunition Code Catalog Class A, Bombs and Accessories (<i>Guide Keys</i>)	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
KITS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Boresighting, Color Filter Mk 1, Kits</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 985.....	Aircraft Machine Gun Boresighting Kit Mk 1.....	Jun 1943	D	Issued with OTI FV3-44
OP 1210.....	Aircraft Machine Gun Boresighting Kit Mk 2 Mod 0	9 Apr 45	R	
OP 1219Q.....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition (<i>Rifle Grenade Kits</i>)	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OP 1131.....	475 Rocket Launcher Mk 7 (Experimental)—Description and Instructions for Use (<i>Rocket Launcher Adapter Kit</i>)	17 Jul 44	R	See remarks for OP 1131 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
KITS				
OHI A6-45...	570 Rocket (570 Motor) Spin Stabilized (<i>Assembly Kit Mk 2 Mod 0</i>)	2 Aug 45	R	Supersedes OHI A12-44
OP 1227.....	11775 Rocket Ammunition, Description and Instructions for Use (<i>Assembly Kit</i>)	13 Mar 45	C	1st rev. See remarks for OP 1227 in Part 1
OP 1219B....	Ammunition Code Catalog Class B, Pyrotechnics (<i>Signalling Kit</i>)	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
TB CW 14....	Kit, Tool, Bomb Venting El.....	2 Sep 44	R	War Dept Publication
OP 1219A....	Ammunition Code Catalog Class A, Bombs and Accessories (<i>Tool Kit</i>)	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
TB9-1980-45..	Conversion Kit for Converting 20-lb Fragmentation Bombs AN-M41 to Parachute Type Bomb for Single Suspension or for Use in Cluster AN-M41A1	26 Mar 45	R	War Dept Publication. See remarks for TB9-1980-45 in Part 1
LAMPS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Electric Lamps</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1542.....	Underwater Photographic Assembly No. 2 (<i>Lamps, Underwater Gear Mk 2</i>)	3 Mar 45	R	
LANYARDS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Torpedo Starting Lanyards</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
LAUNCHERS				
See also	PROJECTORS PYROTECHNICS ROCKETS TABLES, RANGE, ROCKET			
OD 4702.....	Report of Test on Depth Charge Launcher Knife Edge Insulators	9 Jun 44	R	
OP 1177.....	Surface Pyrotechnics and Projectors (<i>Rifle Grenade Launchers</i>)	19 Jan 45	R	See remarks for OP 1177 in Part 1
OP 1158.....	Handling of Forward-Firing Rocket Equipment Aboard Kaiser Class Carriers	16 Mar 44	R	Issued with Change 1 dated 30 Jun 44, Change 2 dated 8 Sep 44
OP 1219M....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
*OP 1304.....	Rocket Launcher Catalogue.....			
OP 1187.....	2725 Subcaliber Aircraft Rockets, Description and Instructions for Use (<i>Launchers Mk 4, Mk 5 Mod 1</i>)	10 Feb 45	R	
OP 1002.....	772 Rocket Launchers Mk 20 and Mk 22 and Ammunition	30 Nov 43	C	1st rev. See remarks for OP 1002 in Part 1
OP 1175.....	3725 Rockets, Target (Mks 1 and 7).....	31 Jul 44	R	See remarks for OP 1175 in Part 1
OP 1469.....	375 Window Rockets and Rocket Launchers Mk 32 Mods 0 and 1	9 Apr 45	C	Supersedes OP 1165
OP 1157.....	Rocket Ammunition 375 and 570 Aircraft Rockets (3725 Motor) Description and Instructions for Use (<i>Launchers Mk 4 Mod 0, Mk 5 Mod 1 and Gruman Type</i>)	23 Mar 45	R	1st rev. See remarks for OP 1157 in Part 1
OP 1003.....	475 Rocket Launchers Mk 1 and Mk 8 Description and Instructions for Use	22 Apr 44	R	1st rev. Supersedes OP 1003 dated Dec 1942 in conjunction with OP 1111

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
LAUNCHERS				
OP 1127.....	4"5 Rocket Launcher Mk 2 Mod 1 Description and Instructions for Use	15 Mar 44	R	
OP 1128.....	4"5 Rocket Launcher Mk 4 Description and Instructions for use	15 Mar 44	R	
OP 1131.....	Rocket Launcher Mk 7 (Experimental)—Description and Instructions for Use	17 Jul 44	R	See remarks for OP 1131 in Part 1
OP 1239.....	570 Rocket (570 Motor, Fin Stabilized) (Preliminary) (Launcher Mk 4 Mod 0 and Mk 5)	8 Dec 44	R	See remarks for OP 1239 in Part 1
OP 1227.....	11"75 Rocket Ammunition, Description and Instructions for Use	13 Mar 45	C	1st rev. With Change 1 dated 17 May 45, Change 2 dated 5 Jun 45. Now issued by BuAer. NAVAER No. 11-75b-501
OP 1244.....	Rocket Launchers Mk 50 Mods 0 and 1—Description and Instruction for Use	26 Oct 45	R	See remarks for OP 1244 in Part 1
OP 1558.....	Rocket Launcher Mk 26 Mod 0, Description and Instructions for Use	28 Jun 45	R	Used with OP 1443
OP 1246.....	Rocket Launcher Mk 51 Mod 0, Description and Instructions for Use	18 Jun 45	R	Supersedes OCL G15-45. Used with OP 1260
OP 1133.....	Rocket Launchers Mk 17 and Mk 17 Mod 1 (Formerly Designated Rocket Launchers Mk 1 Target and Mk 1 Mod 1 Target) Description and Instructions for Use	30 Aug 44	R	With Change 1 dated 16 Feb 45
OP 1135.....	Rocket Launcher Mk 30 Mod 0 (T-Slot Launcher for Fin Stabilized Rockets) (Preliminary) Description and Instructions for Use	10 Nov 44	R	
OP 1279.....	Rocket Launcher Mk 31 Mod 0.....	2 Apr 45	R	
OP 1318.....	Rocket Launchers Mk 36 Mod 0 Description and Instructions for Use (Preliminary)	14 Nov 44	R	Four Rail T-slot Type
OD 4779.....	Assembly Rocket Launcher Mk 101 Mod 0, Assembly Rocket Launcher Mk 101 Mod 1, Strength Test.....	31 Mar 45	C	
OD 4797.....	Report of Initial Test of Rocket Launcher Assembly Mk 101 Mod 0 and Mk 101 Mod 1	25 Apr 45	R	
OP 1424.....	Rocket Launcher Assembly Mk 102 Mod 0, Description and Instructions for Use	20 Sep 45	R	1st rev
OD 4783.....	Report of Test and Inspection Rocket Launcher Assembly Mk 102 Mod 0 Equipped with Power Drives Mk 4 Mod 3, Manufactured by General Electric Co. and Rocket Hoist Mk 1 Mod 0 Manufactured by Vickers Inc	19 May 45	R	
LEADERS				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1141.....	Aerial Targets and Associated Equipment—Description and Instructions for Use	20 Nov 44	R	See remarks for OP 1141 in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog (Target Leaders)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1

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LIGHTERS				
#OP 1178.....	Demolition Material (<i>Fuze Lighter</i>).....	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1580.....	Lighter, Fuze, Friction Type, M1 (<i>Preliminary</i>).....	29 Jun 45	D	
LIGHTS				
See also FLARES AND FLOAT LIGHTS				
OP 1219B.....	Ammunition Code Catalog, Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges (<i>Signal and Float Lights</i>)	18 May 45	R	
OP 1177.....	Surface Pyrotechnics and Projectors (<i>Signal Lights</i>)...	19 Jan 45	R	See remarks for OP 1177 in Part 1
OP 1141.....	Aerial Targets and Associated Equipment—Description and Instructions for Use (<i>Target Lights</i>)	20 Nov 44	R	See remarks for OP 1141 in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Tow Target Light</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 635.....	Torpedo Mk 14 and 23 Types (<i>Torpedo Headlight</i>)....	24 Mar 45	R	1st rev. Supersedes OP 635A, ODs 3834, 3842
LIGHTNING PROTECTION				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
LINERS				
OP 1219O.....	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items (<i>Amm. Box Liners</i>)	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
OP 1219A.....	Ammunition Code Catalog, Class A, Bombs and Accessories (<i>Fuze Seal Liners</i>)	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 1219M.....	Ammunition Code Catalog—Class M—Projector Charge and Rocket Ammunition Components (<i>Fuze Seal Liners</i>)	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
LINKS				
OP 1219Q.....	Ammunition Code Catalog Class 6 Marine Corps and Landing Force Ammunition (<i>Metallic Links</i>)	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OP 1219P.....	Ammunition Code Catalog Class 5, Small Arms, Machine Gun and Aircraft Gun Ammunition (<i>Metallic Belt Links</i>)	25 Apr 45	R	1st rev. See remarks for OP 1219P in Part 1
LOADING DRILLS, See DRILLS, LOADING				
LOADING MACHINES, See MACHINES, LOADING				
LOCKS				
OTI GV15-43.	Oil Buffer Tube Lock Modification of for .50 cal BAM Guns	7 Jun 43	R	
OP 239.....	Firing Locks—General Description of all Mk and Mods	Jan 1941	R	3rd rev
OP 704.....	8" Triple Gun Turrets for CA 45 (<i>Firing Lock Mk 14 Mod 5</i>)	Oct 1941	R	See remarks for OP 704 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
LOCKS				
OP 834.....	8" Triple Gun Turrets, <i>USS BALTIMORE</i> Class, CAS 68-75, 122-138 (Preliminary) (Firing Lock Mk 14 Mod 5)	Apr 1943	R	See remarks for OP 834 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for <i>USS ALASKA</i> , <i>GUAM</i> , and <i>HAWAII</i> (Preliminary) (Firing Lock Mk 14 Mod 5)	25 Oct 44	R	
OP 755.....	16" Triple Turret for BBs 55-60 (45 Cal)—Description and Instructions (Firing Lock Mk 14 Mod 5)	Dec 1941	R	1st rev. See remarks for OP 755 in Part 1
OP 769.....	16" Triple Gun Turrets—Main Armament for <i>USS IOWA</i> Class (BBs 61-66)—16"/50 Cal (Preliminary) (Firing Lock Mk 14 Mod 5)	Jun 1943	R	See remarks for OP 769 in Part 1
OP 1219A....	Ammunition Code Catalog Class A, Bombs and Accessories (Propeller Locks)	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OD 732.....	Specification for the Manufacture and Inspection of Primer Lock Combination Mk 15 Mod 1	2 Nov 44	D	Rev C
LOGS, See ORDNANCE EQUIPMENT, REPORT ON				
LUBRICATION				
See also	EQUIPMENT BY SUBJECTS			
OD 3000.....	Lubrication of Ordnance Material.....	1 Dec 43	D	Rev A. See remarks for OD 3000 in Part 1
OD 3108.....	Fire Control Equipment (Ford) Lubrication of.....	12 Jun 44	D	Rev C
OD 3632.....	Report of Tests on Oils with a Regulator and Electro-Hydraulic Drive at Low Temperatures	13 Jun 41	R	Rev A
OD 3654.....	Test of Lubricating Oils for Use in Synchro Units.....	30 Aug 43	R	Rev A
OD 4713.....	Torque Tests of Coordinating Research Council Grease Samples on NGF Grease Torque Machine for Correlation with SOD Pressure Viscosimeter Method	3 May 44	D	
SNL K-1 (ORD 5)	Cleaning, Preserving and Lubricating Materials Recoil Fluids, Special Oils and Miscellaneous Related Items			War Dept Publication
TM9-850.....	Cleaning, Preserving, Sealing, Lubrication, and Related Materials Issued for Ordnance Materials	24 Aug 44		War Dept Publication
*OD 2943.....	Investigation for Enclosed Worm Gear Drive Lubricants			
OTI GV30-43.	Cleaning, Lubrication and Preservation of Aircraft Guns	27 Aug 43	R	
OD 4265.....	Greasing of Motors Having Keystone Grease Relief fittings	27 Jul 42	D	
LUGS				
OP 1219A....	Ammunition Code Catalog Class A, Bombs and Accessories (Bomb Hoisting and Suspension Lugs)	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OTI V26-44....	Modifications to Aircraft Bomb Suspension Lugs.....	12 Sep 44	R	
OP 835.....	12" Triple Gun Turrets, Main Armament for <i>USS ALASKA</i> , <i>GUAM</i> , and <i>HAWAII</i> (Preliminary) (Deck Lug Mk 10)	25 Oct 44	R	See remarks for OP 835 in Part 1
OD 102.....	Description of 14" Deck Lug Mk 1.....	7 Jan 15	R	
MACHINES				
OP 1219E....	Ammunition Code Catalog Class E, Demolition Material (Blasting Machine)	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1

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MACHINES				
OD 699.....	Fuze Cover Soldering Machine Description and Operation	17 Mar 33	D	
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Grease Dip Machines</i>)	4 May 44	R 2nd rev.	See remarks for OP 865 in Part 1
Machines, Link Loading				
OP 865.....	Aviation Ordnance Equipment Catalog	4 May 44	R 2nd rev.	See remarks for OP 865 in Part 1
OMI V32-44..	Link Loading Machines Mark 1 and Mark 3 Conversion of Flywheel Drive	26 Dec 44	D	
OMI V1-43...	Modifications of Caliber .50 Link Loading Machine Mk 1	18 Nov 43	R	
OP 974.....	Instruction Manual and Parts Catalog 20-mm Hand Driven Link Belting Machine Mk 5	May 1943	R	
Machines, Loading				
OP 887.....	3" Loading Machines Mk 7 and Mk 7 Mods 1 and 2...	Sep 1942	R	
OTI G7-44....	Electric Hydraulic Rammers for 5"/25 Caliber and 5"/38 Caliber Gun Mounts and Loading Machines Precautions to Prevent Damage to Rammer Piston Rods	1 May 44	R	Issued with OPs 553, 700, 735, 740, 742, 743, 748, 783, 775, 805, 895, 1013, 1105
*OD 3480.....	5"/38 cal Single Rammers and Loading Machines Electric Hydraulic Equipment			
OD 1952.....	Assemblies 5" Loading Machine Mk 7, 8, 9 and Mk 9 Mod 1	11 Jun 31	R	
OD 1987.....	5" Loading Machine Mk 8 Elevation Stop Mechanism and Projectile Deflection Tray Instructions for Assembly	6 Aug 31	D	
OP 743.....	5"/38 cal Loading Machine Mk 12 Mods 2 and 3 Army Manufacture Description	Jul 1938	R	Issued with OTI G7-44
OP 742.....	5"/25 cal Loading Machine Mk 13 Army Manufacture Description	Jun 1938	R	Issued with OTI G7-44
#OP 748.....	5"/38 cal Enclosed Single Mounts AA Mk 25 and 25 Mods 1 and 2 (<i>Preliminary</i>) (<i>Loading Machine Mk 14 and 14 Mod 1</i>)	Jan 1941	R	See remarks for OP 748 in Part 1
#OP 783.....	5"/38 Twin Loading Machines Mk 15 and Mk 15 Mod 1 Army Manufacture Description	Mar 1941	R	Issued with OTI G7-44
OD 4375.....	Electric Hydraulic Equipment for 5" Slides Mk 27 and Mk 27 Mods 1, 2 and 3 (Rammers) and for 5" Loading Machines Mk 15 and Mk 15 Mod 1	15 Dec 41	R	
#OP 775.....	5"/38 cal Loading Machines Mk 16 and 16 Mods 1 and 2 Description (Army Mfg)	Jan 1941	R	Issued with OTI G7-44
OD 4056.....	Electric Hydraulic Equipment for 5" Slides Mk 24 Mods 2 and 3 (Rammers) and for 5" Loading Machines Mk 16 Mod 2	7 Oct 44	R Rev A	
OP 1018.....	5" Loading Machine Assembly 89; 5" Loading Machine Mk 17 Mod 0; 5" Projectile Hoist Top Mk 3 Mod 0; 5" Powder Hoist Top Mk 3 Mod 0	26 Jul 45	R	
OP 1126.....	5" Loading Machine Mk 20	17 Feb 45	R	
MAGAZINES				
See also	CAMERAS FILMS GUNS MOUNTS			
OP 5.....	Ammunition Ashore Vol 1	10 Jun 44	R 1st rev.	See remarks for OP 5 Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
MAGAZINES				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
*OP 911.....	20-mm AA Gun, 20-mm Machine Gun Mechanisms Mk 2 and 4, 20-mm Gun Barrels Mk 2, 3, 4 and 4 Mod 1, 20-mm Sights Mk 2, 4 and 4 Mod 1 and Mk 5, 20-mm Magazines Mk 2 and 4, 20-mm Shoulder Rests Mk 2, 4, 5 and 5 Mod 1 Description	Mar 1943	D	1st rev. See remarks for OP 911 in Part 1
OP 1439.....	20-mm AA Assemblies (Twin); 20-mm AA Gun Mount Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods; 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter Equipment Mk 2 Mod 0; 20-mm Machine Gun Mechanism Mk 4 Mod 1; 20-mm Magazine Mk 5 Mod 0	28 Apr 45	D	See remarks for OP 1439 in Part 1
OP 12190....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items (<i>Fuse Magazines</i>)	9 Jul 45	R	1st rev. See remarks for OP 12190 in Part 1
*OP 1481.....	37-mm Mount Mk 1 and Mods and 37-mm Magazine Mk 1 Mod 0			
OTI G16-43...	1710 Magazine Mk 2 and Mods, Latch Bar Lock.....	9 Jun 43	R	Issued with OP 772
MARKERS				
OP 1219B....	Ammunition Code Catalog, Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1177.....	Surface Pyrotechnics and Projectors (<i>Depth Charge Markers, Day and Night</i>)	19 Jan 45	R	See remarks for OP 1177 in Part 1
OP 998.....	Aircraft Pyrotechnics (<i>Depth Charge Marker, Day Mk 1 Mod 1, Night Mk 2</i>)	14 Jul 43	R	See remarks for OP 998 in Part 1
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	
OTI AV11-43.	Depth Charge Marker Day Mk 1 Mod 1.....	2 Jun 43	R	
OTI A10-43...	Depth Charge Marker Night Mk 2.....	1 Jun 43	R	
MECHANISMS				
*OP 1642.....	The Anti-Aircraft Fire Control Problem and its Solution by Gyroscopic Computing Mechanisms		R	
OP 1140.....	Basic Fire Control Mechanisms.....	Sep 1944	R	Supersedes OD 1661
*OP 1140A....	Basic Mechanisms			
*OD 6234.....	Torpedo Work—Spinning and Unlocking Mechanism SG 3363			
OP 1345.....	Torpedoes Mk 16 and Mk 17 Types (<i>Preliminary</i>). (<i>Torpedo Mech. Mk 6 Mods 5 and 6</i>)	16 Jan 45	C	
Mechanisms, Breech				
See also	GUNS MOUNTS TURRETS			
OP 400A.....	Specifications for the Manufacture and Inspection of Guns, Gun Barrels, Breech Mechanisms and Breech Housings	Mar 1939	D	1st rev. Supplement to OP 400
OP 101.....	1, 3 and 6 Pdr Breech Mechanisms Mk 1 and 2 Hotchkiss (<i>3 Pdr Mk 1 only</i>)	Nov 1902	D	
OP 73.....	1 Pdr Breech Mechanism Mk 5.....	Apr 1911	D	

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Mechanisms, Breech				
OP 84.....	3 Pdr Gun Mk 4, .50 Cal (Semi-automatic) Formerly Hotchkiss Mk 4	Sep 1902	D	
OP 85.....	3 Pdr Breech Mechanism Mk 10.....	25 Apr 11	D	
OP 93.....	6 Pdr Guns (Rapid-Fire, Case) Mk 1 and 2, Hotchkiss Mk 1 and 2, Driggs-Schroeder Mk 1 Now Mk 1, 3, 6, 7, 8, 10	Dec 1902	D	
OP 103.....	6 Pdr Semi-Automatic Breech Mechanisms Mk 7.....	May 1903	D	
OP 96.....	6 Pdr Breech Mechanism Mk 9 Driggs-Seabury Type...	May 1911	D	
OP 984.....	3" Gun Mounts, 50 Cal DP Pedestal Type Mk 24 and Mk 24 Mod 1 (<i>Breech Mech. Mk 2</i>)	27 Jan 44	R	See remarks for OP 984 in Part 1
OD 2895.....	Instructions for Modification of 3"/50 Cal Gun Mk 6 Breech End to 3" Gun Mk 20 or Mk 20 Mod 1 and 3" Breech Mechanism Mk 5 Mod 6 to 3" Breech Mechanism Mk 5 Mod 11	3 Aug 40	D	
OD 1967.....	3" Mount Mk 11 Mod 8 Sight Breech Mechanism V-10 (AA Mount on Submarines B1 to B3, C1 and C2) General Description	26 Feb 32	R	
OP 811.....	3" Gun Mount Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (<i>Breech Mech. Mk 5 Mods 11 and 12</i>)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OP 142.....	3" Breech Mechanism Mk 6.....	Apr 1911	D	
OP 165.....	4" Gun Mounts .50 cal Pedestal Type Mk 12 and Mods..	Jun 1943	R	1st rev. Supersedes OPs 150A and 159
OP 1013.....	5" Gun Mount for Merchantmen and Auxiliaries—38 Cal DP, Single, Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49	11 Apr 44	R	See remarks for OP 1013 in Part 1
OP 476.....	5" Breech Mechanism Mk 4.....	Apr 1911	D	
OP 100.....	5" AA Mount Mk 19 and Mk 19 Mod 1, Assemblies 208, 211, 219, and 220, Description (<i>Breech Mech. Mk 10 Mods 1, 2, 3, Mk 11 and 11 Mod 1</i>)	Apr 1929	R	See remarks for OP 100 in Part 1
OP 219.....	6" Mount Mk 16 (Twin) .53 cal for Cruisers 4 to 13.....	Jun 1923	R	Issued with OCL X367
OP 225.....	7" Breech Mechanism Mk 1.....	Jun 1910	D	
OP 569.....	8" Triple Mounts for CAs 32, 34 and 36 Description.....	Dec 1934	R	Supersedes ODs 2091 and 2050
OD 2954.....	8"/55 Cal Guns and Breech Mechanisms Instructions for Conversions of 8"/55 Cal Guns Mk 12 Mod 1 to Mk 12 Mod 2 and Mk 15 to Mk 15 Mod 1 by Means of Adapter Sleeves and 8" Breech Mechanisms Mk 9 Mods 4 and 8 to Mk 9 Mod 9	20 Apr 43	D	
OP 704.....	8" Triple Gun Turrets for CA 45 (<i>Breech Mechanism Mk 9 Mod 8</i>)	Oct 1941	R	Supersedes earlier blueprint copies
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class, CAs 68-75, 122-138 (<i>Preliminary</i>) (<i>Breech Mech. Mk 9 Mod 8</i>)	Apr 1943	R	See remarks for OP 834 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (<i>Preliminary</i>) (<i>Breech Mech. Mk 11</i>)	25 Oct 44	R	
OP 283.....	14" Breech Mechanisms General Description of All in Service	Apr 1930	R	Supersedes OPs 503, 506, 550
OP 755.....	16" Triple Turret for BBs 55-60 (45 Cal)—Description and Instructions (<i>Breech Mech. Mk 3 Mod 1</i>)	Dec 1941	R	1st rev. See remarks for OP 755 in Part 1
OP 769.....	16" Triple Gun Turrets—Main Armament for USS IOWA Class (BBs 61-66) 16"/50 Cal (<i>Preliminary</i>) (<i>Breech Mech. Mk 4</i>)	Jun 1943	R	See remarks for OP 769 in Part 1

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Mechanisms, Depth Charge				
OP 662A.....	Depth Charge Mk 8, Description and Instructions for Use (<i>Mechanism M-7</i>)	Oct 1943	R	Formerly Registered
Mechanisms, Director Control				
OP 1061.....	Director Control Mechanisms for Gun Director Mk 37 (Arma Contact Type)	Mar 1945	R	Supersedes ODs 2576, 2584, and OTI F4-44
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operation and Maintenance	1 Aug 44	R	See remarks for OP 1062 in Part 1. Supersedes OD 3901
*OP 1348.....	Control Mechanism Mk 38 Director.....			
OD 3161.....	Design Specification for Director Control Mechanism for Mk 33 Directors	23 Dec 42	R	
OD 3370.....	Director Control Mechanisms for Gun Directors Mk 37 and Mk 37 Mod 1 for DDs 409 to 428	1 Aug 41	R	Rev C
OD 3537.....	Report of Tests and Inspection Gun Directors Mk 37 Mod 4 Director Control Mechanisms	22 Jul 40	R	
OD 3912.....	Director Control Mechanism for Gun Director Mk 37 Instructions for Care in Storage	Undated	D	Supplements OD 3901
OD 3169.....	Instruction Book for Director Hydraulic Control Mechanism Mk 1 for Gun Director Mk 33 and Rangekeeper Mk 10	7 Jul 44	R	Rev B
OD 5114.....	Director Hydraulic Control Mechanism Mk 1 Installation of Adjustable Needle Valve	19 Apr 44	D	Rev B
Mechanisms, Elevation				
OD 1837.....	Rangefinder Stand Mk 10 Mod 3, Mk 20 and Mods, Mk 16 Mod 3 and Mk 22 Mod 2 Elevation Mechanism	Undated	D	
Mechanisms, Exploder, See Exploders				
Mechanisms, Extender				
OP 866.....	Depth Charge Mk 9 and Modifications Description and Instructions for Use (<i>Booster Extender Mks 6 and 6 Mod 1</i>)	12 Feb 44	R	1st rev. With Change 1 dated 11 Aug 44 and OCL M5-43
OTI M12-43..	Depth Charge Pistol and Booster Extender Mechanism Mk 6 and Mk 6 Mod 1	8 Dec 43	R	
OTI M2-44...	Depth Charge Pistol and Booster Extender Mechanism Mk 6 and Mk 6 Mod 1 Maintenance Procedure for	24 Mar 44	R	Issued with OP 747 1st rev
OP 747.....	Depth Charges Mk 6, Mk 6 Mod 1, Mk 7, Mk 7 Mod 1 Operating and Maintenance Instructions (<i>Booster Extenders Mks 6 and 6 Mods 1 and 2</i>)	22 Dec 43	R	1st rev. See remarks for OP 747 in Part 1
OTI M10-44..	Depth Charge Pistol and Booster Extender Mechanism Mk 6 Mod 2 Acceptance Test and Inspection	1 Sep 44	R	Issued with OP 747 1st rev
OP 902.....	Mine Mk 18 Description and Instructions for Assembling, Handling and Planting (<i>Extender Mechanism Mk 12 Mod 3 and Mk 14 Mod 1</i>)	25 Jan 44	R	Supersedes NOL Report No 772. Issued with OTIs M4-44, M11-44, OCL M29-44
OP 954.....	Mine AN-Mk 26 Mod 1 Description and Instructions for Assembling, Handling and Planting (Aircraft)	11 Dec 43	R	Supersedes NOL Report No 783. Issued with OTIs M4-44, M11-44, OCL M29-44
OP 1219F....	Ammunition Code Catalog Class F, Torpedo Warheads and Accessories	5 Nov 45	R	1st rev. See remarks for OP 1219F in Part 1
Mechanisms, Feed				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1

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Mechanisms, Feed				
OP 965.....	The 20-mm Feed Mechanism AN-M1 (Aircraft).....	May 1943	R	Issued with OTI GV2-44
TB9-1227-FE1.	Feed Mechanism 20-mm M1 Corrections to be Applied..	14 Sep 44	R	Issued with TM9-1227. War Dept Publication
OTI GV2-44..	20-mm Feed Mechanism AN-M1A1 for 20-mm Aircraft Automatic Gun AN-M2	8 May 44	R	Issued with OP 965 and TM9-1227
OTI GV10-44.	20-mm Automatic Aircraft Gun AN-M2 and Feed Mechanism AN-M1A1 Supplementary Maintenance Instructions	20 Nov 44	R	
NavOrd Chart GV2-43	20-mm Feed Mechanism M1A1.....	Undated	D	
OP 1317.....	20-mm Automatic Gun T31 (M3) Basic and 20-mm Feed Mechanism AN-M2 (T-14)	18 Jun 45	R	See remarks for OP 1317 in Part 1
OP 1317A	20-mm Feed Mechanism M2.....	3 Apr 45	D	Supplements OP 1317
Mechanisms, Firing				
OP 1219D	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1
TO 11-10-15..	Adjustment of the Firing Mechanism of Type E-12 Adapters	1 Jun 43	R	War Dept Publication
OP 1209.....	Hand Firing Mechanism Mk 2 Description and Instructions for Use	25 Oct 44	R	
OD 4831.....	Instructions for Determining Firing Pin Striking Energy of 5" Firing Mechanism	17 Oct 45	R	
Mechanisms, Firing Stop				
OD 784.....	5"/25 Cal AA Gun Mount Mk 19 and Mods, Firing Stop Mechanism, Cam Plate—Manufacturing and Installation	4 Jan 41	D	Rev C. Issued with Change 2 dated 24 Oct 45 which supersedes Change 1
OD 1716.....	8" Main Battery Turrets Firing Stop Cam Mechanism...	14 Aug 43	R	
OD 1986.....	5"/25 Anti-Aircraft Mount Mk 19 and Mods Synchronizing of the Firing Stop Mechanism for Electric and Percussion Firing	6 Aug 31	D	
OD 2071.....	Manufacture and Installation of the Firing Stop Mechanism Cam Plate also Synchronizing of the Firing Stop Mechanism for Electric and Percussion Firing for 5"/38 Cal AA Gun Mounts Mk 21, 21 Mod 1, 24, 24 Mod 1, 25, 25 Mods 1 and 2, 30, 30 Mods 1-11.	8 Sep 43	D	Rev F. Issued with Change 2 dated 26 Oct 45 which supersedes Change 1
OD 2349.....	Detailed Instructions and Method of Procedure for Taking Firing Stop Cam Data and Installation in 5" Anti-Aircraft Gun Mounts	24 Oct 43	R	Rev B
OD 3486.....	Manufacture and Installation of the Firing Stop Mechanism Cam Plate, also Synchronizing the Firing Stop Mechanism for Electric and Percussion Firing for 5"/38 Cal AA Gun Mounts Mk 28, 28 Mod 1, 29, 31 and 32	8 Sep 43	D	Rev B. Issued with Change 1 dated 27 Aug 45, Change 2 dated 30 Oct 45
OD 3222.....	Main Battery Turret Firing Stop Mechanism Mk 1 and Mk 1 Mod 1	4 Mar 44	D	
OTI G1-45....	Turret Firing Stop Mechanism Mk 3 Mods 0, 1, 2 and 3 Adjustment of Danger Zone and IPA Switch	10 Feb 45	R	

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Mechanism, Gun				
OP 911.....	20-mm AA Gun; 20-mm Machine Gun Mechanisms Mk 2 and 4; 20-mm Gun Barrels Mk 2, 3, 4 and Mod 1 and Mk 5; 20-mm Magazines Mk 2 and 4; 20-mm Shoulder Rests Mk 2, 4, 5 and 5 Mod 1, Description	Mar 1943	D	See remarks for OP 911 in Part 1
OTI G12-44....	20-mm Machine Gun Mechanism Mark 4 Correct Assembly of the Parallelogram Linkage Assembly	3 Jul 44	R	
OP 1439.....	20-mm AA Assemblies (Twin); 20-mm AA Gun Mounts Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods, 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter Equipment Mk 2 Mod 0; 20-mm Machine Gun Mechanism Mk 4 Mod 1; 20-mm Magazine Mk 5 Mod 0	28 Apr 45	D	See remarks for OP 1439 in Part 1
OP 820.....	40-mm Antiaircraft Gun, 40-mm Machine Gun Mechanism Mk 1, Mk 2, Mk 1 Mod 1, Mk 2 Mod 1, 40-mm Gun Barrel Mk 1, 40-mm Sight Mk 3 and Mk 4 Description and Operation (<i>Preliminary</i>)	Oct 1943	D	See remarks for OP 820 in Part 1
*OP 820C....	Parts List for 40-mm Antiaircraft Gun; 40-mm Machine Gun Mechanism Mk 1 Mod 2, Mk 1 Mod 1, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sights Mk 3 and 4, Description and Operation (<i>Preliminary</i>)			
OTI G6-43....	40-mm AA Gun Mechanisms Mk 1 and Mk 2 and Mods Rammer Rod Failure	19 Mar 43	D	
OD 2702.....	Instructions for Heat Treatment of Material for the 1710 Machine Gun Mechanism Mk 1	25 Aug 41	D	Rev J
OD 3646.....	1710 Machine Gun Mechanism Mk 1 Mods 1 and 2 Instructions for Heat Treatment for Parts Manufactured from Chrome Molybdenum Steel and Carburizing Steel	4 Oct 43	D	Rev B
OTI G8-43....	1710 Machine Gun Mechanism Mk 1 and Mk 1 Mods 1 and 2 Modification of Retracting Tool	26 Mar 43	D	
OTI G5-44....	1710 Machine Gun Mechanism Mk 1 and Mk 1 Mods 1 and 2 Carrier Retracting Tool	17 Apr 44	R	
Mechanisms, Gyro				
OP 635.....	Torpedoes Mk 14 and 23 Types.....	24 Mar 45	R	1st rev. Supersedes OP 635A, ODs 3834, 3842
OD 3379.....	Test of Gyro Setting Mechanism for SSs 170-175.....	9 Oct 39	R	Issued with Change 1 dated 9 Jul 45
*OD 4584.....	Report of Tests 21" AW Torpedo Tube Mark 14 Mod 2 (Quintuple) Gyro Setting Mechanism Mk 5 Gas Operated Spindle Retractor (<i>Experimental</i>)			
Mechanisms, Mine				
OP 1118.....	Instructions for Installation of Mines in Aircraft.....	28 Jan 44	R	See remarks for OP 1118 in Part 1
OP 888.....	Mines Mk 6 and Mods—Description and Instructions for Assembling, Handling and Planting	13 Feb 45	R	1st rev. See remarks for OP 888 in Part 1
OTI M3-44....	Precautions to be Observed in the Winding of Clock Delay Mechanisms Used in Mines	21 Apr 44	R	
OP 655.....	C-1 Mine Firing Mechanism Description.....	May 1943	C	With Change 1 dated 24 Apr 44
OP 903.....	Mine Mk 23 Description and Instructions for Use.....	Aug 1943	R	With Change 1 dated 11 Feb 44, Change 2 dated 19 Dec 44

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Mechanisms, Mine				
OP 902.....	Mine Mk 18—Description and Instructions for Assembling, Handling, and Planting (<i>Mech. CD4 and Mk 9</i>)	25 Jan 44	R	See remarks for OP 902 in Part 1
OP 954.....	Mine AN-Mk 26 Mod 1 Description and Instructions...	11 Dec 43	R	Supersedes NOL Report No. 1783. Issued with OTIs M4-44, M11-44, OCL M29-44
OP 676.....	M-3 Mod 2 Mine Firing Mechanism and Electrical Accessories Description and Instructions for Testing	Nov 1943	R	Formerly Registered
OP 668.....	M-4 Mine Firing Mechanisms and Modifications Description and Instructions for Use	Aug 1943	R	Formerly Registered
OP 605A.....	K-Type Mine Firing Mechanisms Description...	Jul 1942	R	Formerly Registered
MESSENGERS				
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Cable Cutting Mk 7 and Target Release Mk 8 Mod 1</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1141.....	Aerial Targets and Associated Equipment Description and Instructions for Use (<i>Cable Cutting Mk 7, Target Release Mk 8 Mod 1</i>)	20 Nov 44	R	See remarks for OP 1141 in Part 1
METALLURGY				
OD 3618.....	Instructions for the Treatment of Porous Castings (Phosphor Bronze) that Fail to Pass the Hydrostatic Pressure Test Specified on Drawings	29 Mar 45	D	Rev. C
OD 4417.....	Compositions of Navy Department and Bureau of Ordnance Metals and Commercial Equivalents	29 Jan 43	D	Rev. A
METERS				
OD 3849.....	Description and Instructions for Use of the Leak Meter	14 Mar 44	R	
*OD 5321.....	Installation, Operation and Maintenance Instructions for Model OBC Practice Attack Meter Equipment			
OD 3802.....	Description of Tide Meter.....	Undated	R	
MINES				
See also	ANCHORS DEVICES MECHANISMS, MINE			
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 878.....	General Data on Navy, AN-Standard, Army, and British Bombs (<i>Aircraft Mines</i>)	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1
OP 898.....	Mine Identification Manual (<i>U. S. and Foreign Mines</i>)	4 Aug 45	C	2nd rev.
OP 952.....	Demolition Outfit Mk 7 Mines Description.....	Mar 1943	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1330.....	Mine Disposal Handbook.....	1 Nov 44	C	Accountable, distribution limited to Mine Disposal Personnel
OP 1391.....	U. S. Naval Mines (<i>Preliminary</i>).....	27 Jan 45	R	Supersedes OP 660. See remarks for OP 1391 in Part 1
*OP 1452.....	Mine Accessories Description and Instructions for Testing (<i>Preliminary</i>)		R	
OP 1631.....	Ammunition Hazard Classification List.....	21 Sep 45	R	See remarks for OP 1631 in Part 1

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MINES				
OTI M3-44...	Precautions to be Observed in the Winding of Clock Delay Mechanisms Used in Mines	21 Apr 44	R	
OTI M4-44...	Sealing Openings in Mine Assemblies.....	19 Jun 44	R	Issued with OPs 876, 1st rev, 888, 900, 901, 902, 905 and 954. Supersedes OTI M4-43
OTI M11-44..	Auxiliary Tests to be Run on Delay Arming Clocks Prior to Installation in Mines	26 Sep 44	R	Issued with OPs 901, 902, 905 and 954
OHI M1-44...	Mines and Depth Charge Mk 10 Mod 3 Anchor Coupling Adapter for	20 Jan 44	D	
OP 1581.....	Installation of British "A" Mines, Mk 1-IV, V, VI, VII, and VIII in U.S. Army and Navy Aircraft	4 Jul 45	R	Supersedes OTI MV3-44
OP 1507.....	Japanese Underwater Ordnance.....	20 Apr 45	R	
OP 676.....	M-3 Mod 2 Mine Firing Mechanisms and Electrical Accessories Description and Instructions for Testing	Nov 1943	R	Formerly Registered
OP 572.....	Mines Mk 5 Description, Care and Operation.....	Jun 1923	R	Formerly Registered
OP 666.....	Electrochemical Horns Mk 5 and Mk 5 Mod 1 For Mines Mk 5 and Mk 10 Mod 1 Description and Operation	May 1943	C	
OP 888.....	Mines Mk 6 and Mods, Description and Instructions for Assembling, Handling, and Planting	13 Feb 45	R	1st rev. See remarks for OP 888 in Part 1
OP 633.....	Drifting Mines Mk 7 Description, Operation and Assembly Instructions	10 Jan 44	C	Formerly Registered
OP 900.....	Mine Mk 10 Mod 1 Description and Instructions for Use	19 Aug 43	R	With Change 1 dated 14 Jul 44, OTI M4-44, OCL M29-44
*OP 948.....	Mine Mk 10 Mod 3 Description.....			
OP 665.....	Mine Mk 12 and Mods—Operational Characteristics....	Nov 1943	C	Formerly Registered
OTI M8-44...	Mine Mk 12 Modernization of Case Details.....	12 Jul 44	R	
OP 901.....	Mine Mk 12 and Modifications Description and Instructions for Assembly, Handling and Planting	30 Nov 43	R	See remarks for OP 901 in Part 1
OP 1118.....	Instructions for Installation of Mines in Aircraft.....	28 Jan 44	R	See remarks for OP 1118 in Part 1
OTI MV2-44..	Calculated Air Trajectories of Aircraft Laid Mines Mk 12 Mod 1, 25, AN-Mk 26 Mod 1 and 13 Type	24 Apr 44	R	Supersedes OTI MV1-44. Issued with OP 1118.
OP 905.....	Mines, Mk 13 and Modification—Description and Instructions for Use	Nov 1943	R	See remarks for OP 905 in Part 1
OP 876.....	Mine Mk 16 and Mods Description and Instructions for Assembling, Handling and Planting	Jun 1943	R	1st rev. See remarks for OP 876 in Part 1
OTI M1-43...	Position of Bail when Married to Anchor of the Mk 16 Mine	10 Apr 43	R	Issued with OP 876
OP 902.....	Mine Mk 18—Description and Instructions for Assembling, Handling, and Planting	25 Jan 44	R	See remarks for OP 902 in Part 1
*OP 1245.....	Controlled Mines Mk 20 and Mk 37.....		R	Rev A
OD 4422.....	Controlled Mine Mk 20 Description.....	21 Jul 42	R	With Change 1 dated 24 Apr 44
OP 655.....	C-1 Mine Firing Mechanism—Description of Operation	May 1943	C	See remarks for OP 655 in Part 1
OP 903.....	Mine Mk 23 Description and Instructions for Use.....	Aug 1943	R	With Change 1 dated 11 Feb 44, Change 2 dated 19 Dec 44
*OP 956.....	Mines Mk 25 Description and Instructions for Use.....		R	

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MINES				
OP 1118.....	Instructions for Installation of Mines in Aircraft.....	28 Jan 44	R	See remarks for OP 1118 in Part 1
OTI MV2-44.....	Calculated Air Trajectories of Aircraft Laid Mines Mk 12 Mod 1, 25, AN-26 Mod 1 and 13 Type	24 Apr 44	R	Supersedes OTI MV1-44. Issued with OP 1118.
OP 954.....	Mine AN-Mk 26 Mod 1—Description and Instructions for Assembling, Handling, and Planting (Aircraft)	11 Dec 43	R	See remarks for OP 954 in Part 1
*OP 1245.....	Controlled Mines Mk 20 and Mk 37.....		R	See remarks for OP 1245 in Part 1
*OD 5335.....	Controlled Mine Mk 37 Description.....		R	See remarks for OP 5335 in Part 1
Mines, Land				
#OP 1178.....	Demolition Material (Antitank and Antipersonnel Mines)	8 Dec 44	R	See remarks for OP 1178 in Part 1
OP 1219Q.....	Ammunition Code Catalog Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OP 1330.....	Mine Disposal Handbook.....	1 Nov 44	C	Accountable. Distribution limited to Mine Disposal Personnel
TM9-1900	Ammunition—General	18 Jun 45	R	War Dept publication. See remarks for TM9-1900 in Part 1
SNL R-7 (ORD 11)	Land Mines and Fuzes, Demolition Material and Ammunition for Simulated Artillery and Grenade Fire			War Dept Publication
MIXERS, See NAPALM BOMBS				
OP 1361.....	Napalm Bombs (Aircraft Jettisonable Fuel Tanks Used as Incendiary Bombs) (Preliminary) (Incendiary Mixers Mk 1 and Mods)	21 Apr 45	R	See remarks for OP 1361 in Part 1
OMI V18-45..	Conversion of Incendiary Mixer Mk 1 Mod 0 to Mk 1 Mod 1	13 Sep 45	D	
MONITORS				
OP 689.....	Monitor Mk 2 Mod 1 and Associated Equipment (Preliminary)	27 Mar 45	R	Formerly Registered
*OP 1648.....	Monitor Mk 2 Mod 2 and Associated Equipment.....		R	Formerly Registered
OP 687.....	Monitor Mk 3 Mod 0 and Associated Equipment.....	7 Jul 45	C	Formerly Registered
MORTARS				
OTI AV8-43..	High Altitude Parachute Flare and Flare Mortar.....	22 May 44	R	See remarks for OP 1219B in Part 1
OP 1219B.....	Ammunition Code Catalog Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
TM9-2200	Small Arms, Light Field Mortars and 20-mm Aircraft Guns	11 Oct 43	R	War Dept Publication
TB23-85-7	Shell, Smoke, WP, 60-mm, T6.....	14 Oct 44	R	Do
OP 1137.....	60-mm Mortar for Shipboard.....	6 Jan 45	R	
OP 1257.....	Garrett 60-mm Shoulder Mortar Mk 1 Mod 0 Description and Instructions for Use	14 Sep 44	R	
OP 1440.....	472 Mortar Assembly Mk 1 Mod 0.....	25 Apr 45	R	
FT42-B-1	Mortar, Chemical, 472 M2 Firing Shell, 472 Chemical Mortar M2 (FS, WP, L, CNS, CG, H and CNB)—Shell, 472 Chemical Mortar (HE) M3 (TNT) with Charge, Propelling 472 Chemical Mortar M6	31 Oct 45	D	War Dept publication
TM3-320	472 Chemical Mortar M1A1.....	15 Oct 42	R	War Dept publication. Issued with TB3-327-7S3 and 3-320-2
FM23-92	472 Chemical Mortar.....	1 Mar 45	D	War Dept publication

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MORTARS				
SB3-1	Logistical Data, Mortar Company, Chemical Mortar Battalion	21 Feb 45	D	War Dept publication
TB3-320-7S3	Theater of Operations Quality Check of Shell 472 Chemical Mortar M2	Nov 1944	R	War Dept publication. Issued with TM3-320
TM3-321	Graphical Firing Table M37 (472 Chemical Mortar)	27 Mar 45	R	War Dept publication. See remarks for TM3-321 in Part 1
TB23-90-2	Preventing Damage to Shock Absorber Spring of 81-mm Mortar during Firing of Seating Rounds	9 May 45	R	War Dept publication
OP 1177	Surface Pyrotechnics and Projectors (Flare Mortars) ..	19 Jan 45	R	See remarks for OP 1177 in Part 1
SNL A-35 (ORD 6)	Tools, Maintenance, for Repair of Group A Material, Section 1, 3, 4	.....	..	War Dept publication. See remarks for SNL A-35 (ORD 6) in Part 1
MOTORS				
See also	SELSYNS SYNCHROS			
OD 1028	General Instructions for Testing Zero Setting and Phase Rotation of Selsyn Generators Motors and Transformers USS PENSACOLA & SALT LAKE CITY	25 Apr 32	D	5th rev
OP 835	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary)	25 Oct 44	R	See remarks for OP 835 in Part 1
OD 1603	Anti-Aircraft Instruction Book Step-by-Step Transmitters and Motors	15 Dec 26	R	
OD 3539	Report of Tests on Gyro Setting Mechanism Motor....	4 Sep 40	R	Rev A
OD 3876	Description of Magnetic Brake for Elevating Gear Electric Motor 5" Mount Mk 19 Mod 13 for CVs 2 and 3	9 Jan 41	D	1st rev
OD 3882	Description of Magnetic Brake for Training Gear Electric Motor 5" Mount Mk 19 Mod 13 CVs 2 and 3	9 Jan 41	D	2nd rev
OD 4761	Report of Test and Inspection Direct Current Motors 3/4 HP, 230 VDC, 3700 RPM, Submitted for Type Approval Tests by the Diehl Mfg. Co., Part 1, Initial Tests of Motor; Part 2, Over Load Characteristics of Motors	2 Jul 45	R	Rev A
OD 4773	Report of Test and Inspection Alternating Current Motors 3/4 HP, 440 V, 3 Phase, 60 Cycle, 3450 RPM, Submitted for Type Approval Tests by the Leland Electric Co	14 Mar 45	R	
OD 4771	Suitability Test of Denison Hydraulic Motor Model MA-15-CP Dr'g No 1-1848-BX Denison Engineering Co	24 Feb 45	R	
OP 865	Aviation Ordnance Equipment Catalog (Electric Rewind Motor)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OMI V15-44..	Electric Rewind Motor 24 Volt-EE-800 Series (For Antiaircraft Target Reel Type C-5) Conversion of Control Box	22 Jun 44	..	
TO 11-60AA-7	Special Care and Oiling of Type C-1 Autopilot Servo Motors	23 Nov 44	R	War Dept publication
TO 11-40-19..	Handbook of Instructions with Parts Catalog-Tow Target Windlass Motor Types EE-700 and EE-800 Series	15 Nov 42	R	Do
*NavOrd Chart F3-45	Schematic of Resolver, Velocity Damping Generator and Torque Motor		..	

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Motors, Latitude				
OD 3212.....	Description of Latitude Motor—DDs 409 to 420.....	Undated	D	
Motors, Power				
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operation and Maintenance	1 Aug 44	R	See remarks for OP 1062 in Part 1. Supersedes OD 3901
OD 2528.....	Description of Power Motor Main Battery—CLs 40-43 and CA 44	10 Feb 38	D	1st rev
OD 2515.....	Description of Elevation Power Motor—Main Battery DDs 364 to 379	5 Mar 36	D	5th rev
OD 2519.....	Description of Elevation Power Motor—Anti-Aircraft Battery	5 Mar 36	D	1st rev
OD 2514.....	Description of Train Power Motor—Main Battery DDs 364-479 Incl	5 Mar 36	D	4th rev
OD 2518.....	Description of Train Power Motor Anti-Aircraft Battery	5 Mar 36	D	1st rev
Motors, Rocket				
OP 1469.....	375 Window Rockets and Rocket Launchers Mk 32 Mods 0 and 1	9 Apr 45	C	Supersedes OP 1165
OP 1219J.....	Ammunition Code Catalog Class J, Projector Charge and Rocket Ammunition Assemblies	13 Jul 45	R	1st rev. See remarks for OP 1219J in Part 1
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1239.....	570 Rocket (570 Motor, Fin Stabilized) (Preliminary)	8 Dec 44	R	See remarks for OP 1239 in Part 1
Motors, Selsyn				
OD 938.....	Fire Control Equipment, Instructions for Tests of Selsyn Generators, Motors, and Transformers	30 May 27	R	
OD 1028.....	General Instructions for Testing Zero Setting and Phase Rotation of Selsyn Generators, Motors and Transformers—USS PENSACOLA and SALT LAKE CITY	25 Apr 32	D	5th rev
OD 1045.....	Selsyn Generators, Motors and Transformers, Instructions for Testing Zero Setting and Phase Rotation of Selsyn Generators, Motors and Transformers, USS WEST VIRGINIA	13 May 29	R	3rd rev
OD 1753.....	Description of Selsyn Motor Model—31E112 Frame Flange Mounted	3 Sep 31	R	4th rev
OD 1761.....	Description of Selsyn Motor Model 81E116 Frame 07 Flange Mounted	6 Nov 30	R	3rd rev
OD 1766.....	Description of Selsyn Motor Model 81E113 Frame 05 Mounted Flange Mounted	9 Apr 34	R	4th rev
OD 1771.....	Description of Selsyn Motor Model 81E123 Frame 05 Ball Bearing Mounted	22 Jan 34	R	3rd rev
OD 1774.....	Description of Selsyn Motor Model 81E126 Frame 05 Nozzle Mounted	23 Nov 33	R	2nd rev
OD 1752.....	Description of Selsyn Differential Motor Model 31E111 Frame 07 Flange Mounted	13 Feb 30	R	4th rev
OD 2706.....	Instructions for Setting Electrical Zero Selsyn Generators, Motors, Transformers and Receiver Regulators, General Electric	11 Jul 33	R	

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Motors, Synchro				
OP 1303.....	United States Navy Synchros, Description and Operation	15 Dec 44	D	
OD 2590.....	Fire Control Equipment Arma Synchro Control Motors—Description	21 Jun 40	R	
OD 2817.....	Shop Tests of Synchro Motors.....	Undated	R	
OD 4796.....	Report of Test and Inspection Navy Synchro Systems Using Army Synchro Differential Motor Type XIX Serial No. H-45 Volts 100/100	17 May 45	R	
OD 4618.....	Report of Test and Inspection of Synchro Motors Type 1B Mk Mod 2	3 Jun 43	R	
OD 3878.....	Description of Synchro Motor 1B Mark 1 Mod 2.....	1 Nov 43	D 4th rev	
OD 4790.....	Report of Test and Inspection Synchro Differential Motors Type 1D Mk 1 Mod 1 Volts 90/90, Submitted for Type Approval by the Arma Corp.	26 Apr 45	R	
OD 4782.....	Report of Test and Inspection Synchro Motors Type 1F Mk 8 Mod 2A, Volts 115/90, Submitted for Type Approval by the General Electric Co	25 Apr 45	R	
OD 2882.....	Shock and Endurance Tests on Synchro Motors Type 5F Mk 4	26 Feb 40	R Rev A	
*OD 4843.....	Report of Test and Inspection Synchro Motors Type LF Mk 8 Mod 5			
OD 4662.....	Report of Test and Inspection Synchro Motors Type 1F Mk 8 Mod 7, Volts 115/90 AC Serial Nos. 2M1 and 2M2	13 Jul 44	R Rev A	
*OD 4823.....	Report of Tests and Inspection Synchro Motors Type 1F400 Mk 7 Mod 3			
*OD 4842.....	Report of Test and Inspection Synchro Motors Type 1HF Mk 14 Mod 3			
OD 4767.....	Report of Test and Inspection—Synchro Differential Motors Type 3D Mk 3 Mod 3—Volts 90/90	14 May 45	R Rev A	
OD 4814.....	Report of Test and Inspection—Synchro Motor Type 3F Mk 9 Mod 2—Volts 115/90 AC Cycle	26 Nov 45	R Rev A	
OD 4946.....	Report of Test and Inspection of Synchro Motor Type 3F Mk 9 Mod 7—Volts 115/90 AC Cycle 60	9 Jan 46	R	
OD 3466.....	Report of Tests and Inspection 5F Synchro Motors Mk 4	21 Apr 43	R Rev B	
OD 3024.....	Description of Synchro Motor 5F Mk 4 Mod 1.....	2 Feb 37	R Rev A	
OD 2482.....	Description of Synchro Motor 5F Mk 4 Mod 2.....	19 Nov 35	R 5th rev	
OD 4678.....	Report of Tests and Inspection Synchro Motors Type 5F Mark 4 Mod 2 Volts 115/90 AC Serial Nos. 5904338 & 5904348 (New Type Damper)	15 Dec 43	R	
OD 4679.....	Report of Tests and Inspection of Synchro Motors Type 5F Mk 4 Mod 2 Volts 115/90 AC Serial Nos. 5913289 and 5913292, Submitted for Type Approval by GE Co.	10 Jan 44	R	
OD 4663.....	Report of Test and Inspection of Synchro Generator Type 5G Mk 1 Mod 4 and Synchro Motor Type 5F Mk 4 Mod 4—High Speed Synchro	20 Jun 44	R	
OD 2912.....	Synchro Units Type 5G Mk 1 Mod 5 Type 5F Mk 4 Mod 5 Type 5B Mk 5 Mod 5 Type 5N Mk 6 Mod 5 Type 5D Mk 7 Mod 5 Type 6G Mk 2 Mod 5	23 Sep 44	R	
OD 3027.....	Description of Synchro Motor 5B Mk 5 Mod 1.....	14 Mar 37	R Rev A	
OD 2483.....	Description of Synchro Motor 5B Mk 5 Mod 2.....	30 Jan 43	R 4th rev	
OD 4619.....	Report of Test and Inspection of Synchro Motors Type 5B Mk 5 Mod 4	20 May 43	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Motors, Synchro				
OD 3025.....	Description of Synchro Motor 5N Mk 6 Mod 1.....	14 Apr 37	R Rev A	
OD 2484.....	Description of Synchro Motor 5N Mk 6 Mod 2.....	19 Nov 35	R 4th rev	
OD 3030.....	Description of Synchro Differential Motor 5D Mk 7 Mod 1	14 Apr 37	R Rev A	
OD 2485.....	Description of Synchro Differential Motor 5D Mk 7 Mod 2	1 Feb 43	R 8th rev	
OD 2912.....	Synchro Units Type 5G Mk 1 Mod 5 Type 5F Mk 4 Mod 5 Type 5B Mk 5 Mod 5 Type 5N Mk 6 Mod 5 Type 5D Mk 7 Mod 5 Type 6G Mk 2 Mod 5	23 Sep 42	R Sheet 1 revised	
OD 3659.....	Report of Tests and Inspection—Synchro Differential Motor Type 5D Mk 7 Mod 5	18 May 42	R Rev B	
OD 2326.....	Synchro Motor Mk 8 (Size 1F)—Instructions for Testing	10 Dec 38	R	
OD 3412.....	Synchro Motor Mk 8—Type 1F—Report of Tests and Inspection	3 Mar 42	R Rev B	
OD 3439.....	Arma Synchro Motor Type 1F Mk 8—Description and Specifications	Undated	R	
*OD 3565.....	Repair and Upkeep of Synchro Motors Mk 8.....			
OD 3743.....	Report of Tests and Inspection—Synchro Generator 1-G Mk 5 Mod 2 Synchro Motor 1-F Mk 8 Mod 2	29 Dec 41	R	
OD 3854.....	Description of Synchro Motor 1-F Mk 8 Mod 2.....	31 Jan 40	R 1st rev	
OD 3879.....	Description of Synchro Motor 1F Mark 8 Mod 2A....	1 Nov 43	D 4th rev	
OD 4686.....	Report of Test and Inspection Synchro Motors Type 1F Mark 8 Mod 2A Volts 115/90 AC Serial Nos. 5958720 and 5958728	22 May 44	R	
OD 4651.....	Report of Tests and Inspection Synchro Motors Type 1F Mark 8 Mod 3A Volts 115/90 AC Serial Nos 1 & 2	12 Nov 43	R	
OD 4442.....	Report of Tests and Inspection—Synchro Motors Type 1F Mk 8 Mod 5	10 Aug 42	R	
OD 4662.....	Report of Test and Inspection Synchro Motors Type 1F Mk 8 Mod 7 Volts 115/90 AC Serial Nos. 2M1 and 2M2	13 Jul 44	R Rev A	
OD 4739.....	Reports of Tests and Inspection Synchro Motors—Type 3F Mk 9 Mod 3—Volts 115/90	30 Oct 44	R Rev A	
OD 4728.....	Report of Test and Inspection Synchro Motors Type 3F Mark 9 Mod 7—Volts 115/90 AC	13 Jul 44	R	
OD 4839.....	Report of Test and Inspection—Synchro Motor Type 5F Mk 4 Mod 5—Volts 115/90 AC Cycle	8 Nov 45	R	
*OD 4821.....	Report of Tests and Inspection Synchro Motors Type 5F400 Mk 12 Mod 2			
OD 4618.....	Report of Test and Inspection of Synchro Motors Type 1B Mk—Mod 2	3 Jun 43	R	
OD 4827.....	Report of Test and Inspection Synchro Motor Type 5HF Mk 11 Mod 1—Volts 115/90 AC Cycle	2 Oct 45	R	
OD 4487.....	Report of Tests of Two Ford Instrument Co Type 5B Synchro Motors Rejected as Failing to Meet OS 671 Rev D	7 Oct 42	R	
OD 3567.....	Report of Tests on Four Type 5F Synchro Motors....	16 Aug 40	R	

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Motors, Synchro				
#OD 4524.....	The Determination of the Accuracy and Stiffness Factor of a Synchro System Composed of a Type 6G Synchro Generator Transmitting to Various Loads, of Type 5F/Synchro Motors	20 Jan 43	R	
OD 3461.....	Description of Synchro Control Motor Type 5SB Mod 2	4 May 43	D	5th rev.
OD 4751.....	Report of Test and Inspection—Special Synchro Motors Type 5SF Mk 4—400 Cycle, Single Phase, AC Volts	14 May 45	R	Rev. A
OD 4755.....	Report of Test and Inspection—Special Synchro Motors Type 5SF Mod 3—400 Cycle, Single Phase, AC Volts	14 May 45	R	Rev. A
OD 4785.....	Synchro System Test One Type 7G Generator Transmitting to the Rotors and Six Type 6G Generators Transmitting to the Stators of Thirty-eight Type 5D Differential Motors	20 Apr 45	R	
OD 3385.....	Report of Tests—5X Synchro Motors (Experimental)	8 May 39	R	
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 44	R	See remarks for OP 1233 in Part 1
Motors, Trigger				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
MOUNTS				
See also	ADAPTERS, GUN MOUNT ASSEMBLIES ATTACHMENTS BLOCKS, BREECH BREECH ENDS CARRIAGES CIRCUITS CRADLES DATA DRIVES GEARS GUNS HOISTS HOUSING HYDRAULIC POWER EQUIPMENT MACHINES, LOADING MECHANISMS, BREECH SLIDES STANDS SYSTEMS TURRETS			
OP 1112.....	Gun Mount and Turret Catalog.....	7 Mar 45	R	2nd rev
OP 1342.....	Bomb Shackle Mk 8 Mod 0 and Mod 1, Bomb Shackle Release Mk 1 Mod 0 and Mod 1, Bomb Shackle Release Mount Mk 1 Mod 0 and Mod 1	28 Mar 45	R	Now issued by BuAer. NAVAER No. 11-5-521
OP 18.....	Turret Guns and Sights, Instructions for Installation and Test of	Apr 1921	D	1st rev. Where instructions conflict with OP 762 the latter Governs

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MOUNTS				
OP 60.....	Index of Assemblies for U.S. Navy Mounts and Turrets—Includes Guns Caliber 20-mm to 16"	29 Apr 44	R	5th rev. 45th G.O.
OP 239.....	Firing Locks, General Description of All Mks and Mods (Covers Mk 8 Mod 2, Mk 9 Mod 2 and Mk 14 Mods 2, 3, 4)	Jan 1941	R	3rd rev.
OP 762.....	Alignment of Ordnance Installation on Board Ship General Instructions	Sep 1942	R	1st rev. With Supplement dated Sep 1942, supersedes Ch 16 of Gunnery Instructions (1933). Where instructions conflict with OP 18, this OP governs.
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1.
OP 1427.....	Shotgun Mount Assembly Mk 1 Mod 0.....	23 Feb 45	D	
.30 Cal Mounts				
TM9-1205	Browning Machine Gun Cal .30, All Types and Ground Mounts	7 Aug 44	R	War Dept publication. Issued with TB 1205-6
OP 1088.....	Cal .30 Machine Gun Mount Mk 21.....	16 Nov 43	R	
SNL A55 Sec 31	Mount, Bracket M40.....			War Dept publication
SNL A-6.....	Gun, Machine Cal .30, Browning M1919A4, Fixed and Flexible M1919A5 Fixed and M1919A6 Flexible and Ground Mounts			Do
.50 Cal Mounts				
OP 893.....	0.50 Inch Mount Mk 17 Description.....	Oct 1942	R	
OP 951.....	0.50 Inch Machine Gun Mounts Mk 17 Mods 1 and 2.....	Mar 1943	R	
OP 1506.....	Cal .50 Machine Gun Mount Mk 21 Mod 1—Instructions for Laying Out of Cam Limit Stop and the Cutting of the Cam	30 Aug 45	R	
*OP 1630.....	Cal .50 Mount Mk 21 Mod 1.....			
*OP 1618.....	Mount .50 Cal Mk 26 and Mods.....			
OP 919.....	.50 Cal Mount Mk 30 (U.S. Army M-3 AA) for M-2 Browning Machine Guns, Description and Operating Instructions with Notes on Alternative Equipment and Accessories	May 1943	D	
OD 4787.....	Type Approval Test of Multiple Cal .50 Machine Gun Mount M45 (Army) Navy Mk 31 Mod 0—Mfr. Kimberly Clark and Experimental Train and Elevation Limit Stops, Mfr. Maxson Corp.	2 Jun 45	R	
SNL A-39.....	Gun, Machine Cal .50 Browning M2, Heavy Barrel, Fixed and Flexible and Ground Mounts			Do
SNL G-401 (ORD 7-8) (Section 1)	Mount, Machine Gun, Multiple, Cal .50, M45 and M45C			War Dept publication. See remarks for SNL G-401 (ORD 7-8) Section 1 in Part 1.
TB9-226-9	Mount, AA Machine Gun Cal .50, M63.....	11 May 44	D	War Dept publication. Issued with TM9-226
TM9-1225	Browning Machine Gun, Cal .50, M2 All Types, and Ground Mounts	23 Oct 44	R	War Dept publication. Supersedes TB9-1225-21, TB9-1225-22 and TB9-1225-23

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6 Pdr. Mounts				
OP 93.....	6 Pdr Guns (Rapid Fire, Case) Mks 1 and 2, Hotchkiss Mks 1 and 2, Driggs-Schroeder Mks 1 and 2, Army Mk 3 and Nordenfelt Mk 2 Now Mks 1, 3, 6, 7, 8, 10	Dec 1902	D	
OP 95.....	6 Pdr Gun Mk 9 (Semi-Automatic) Formerly Maxim-Nordenfelt Mk 2	Jan 1903	D	.....
20-mm. Mounts				
OP 909.....	20-mm Mounts Mks 2 and 2 Mods 1 and 2, Mk 4 and 4 Mods 1, 2, 3, Mk 5 and 5 Mods 1, 3, 4, 6, Mk 10 and Mk 10 Mod 1	Mar 1943	R	Issued with OCL G55-43. Change 1 dated 7 Jul 44
OD 4676.....	Manufacture and Installation of the Depression Stop Cam for 20-mm Machine Gun Mounts Mk 10 Mod 1 and Mk 14	29 Jan 44	D	.....
*OD 5301.....	20-mm Mount Mk 15—Instructions			.....
OD 4669.....	Type Approval Tests of 20-mm Twin Gun Mount Mk 17	27 Mar 45	R	.....
*OD 5302.....	20-mm Mount Mk 17 (Bell Aircraft Co)—Instruction			.....
*OD 5303.....	20-mm Mount Mk 18 (United Shoe Machinery Corp)			.....
OP 1439.....	20-mm AA Assemblies (Twin); 20-mm AA Gun Mounts Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods; 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter Equipment Mk 2 Mod 0; 20-mm Machine Gun Mechanism Mk 4 Mod 1; 20-mm Magazine Mk 5 Mod 0	28 Apr 45	D	See remarks for OP 1439 in Part 1
*OP 1439A...	20-mm Mount Mk 25 Mod 0			.....
OD 4671.....	Type Approval Test of 20-mm Quad Gun Mount	30 May 44	R	.....
37-mm. Mounts				
*OP 1481.....	37-mm Mount Mk 1 and Mods and 37-mm Magazine Mk 1 Mod 0			.....
*OP 1481B...	37-mm Mount Mk 4 Mod 0			.....
1710 Mounts				
*OD 3534.....	Description of Automatic Control Equipment for 1710 Mount Mk 1 Mod 4			.....
*OD 3516.....	Description of Elevation Indicator Regulator Mk 2 Mod 2 and 1710 Mount Mk 2 Mod 1			.....
OD 4196.....	Summary of Routine Tests Power Drive Equipment Mk 1, Mods 0, 1; 2—for 171 Mount Mark 2 Mod 2	18 Aug 42	R	Rev A
*OD 4237.....	Train and Elevation Power Drives Mk 2 Mods 0, 1, 2; Installation Instructions for 1710 Mounts Mks 2 and 4			.....
OP 821A.....	Train Power Drive Mk 4; Elevation Power Drive Mk 4; 40-mm Mount Mk 1 Mod 2; and 171 Mount Mk 2 Mod 6	18 Oct 45	R	Supersedes OP 3906
*OP 821B...	Train Power Drive Mk 4; Elevation Power Drive Mk 4; 40-mm Mount Mk 1 Mod 2; and 171 Mount Mk 2 Mod 6			.....
*OD 3515.....	Description of the 1710 Mount Mk 2 Mod 7 Electric Hydraulic Equipment (Drive) for Elevating and Training Gears and Traverse Drive			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
40-mm, Mounts				
OD 3010.....	USS NEW JERSEY, BB 62 Report of Secondary Battery Ordnance Installation 40-mm Mounts	2 Dec 43	R	For Design and Research use only. Not for distribution
OD 4046.....	CV9, Fire Control Equipment 40-mm, and 5"/38 Cal Mounts and Directors—Accuracy Tests, Checking Concentricity of Elevating and Training Racks with Elevation and Train Indicator	27 Jan 43	D	Superseded by OP 821
OD 4668.....	Type Approval Test of 40-mm Single Gun Mounts....	31 May 44	R	
OD 5269.....	Navy Single 40-mm Gun Mount—Maxson Electric Drive	Undated	C	
OD 3782.....	40-mm Antiaircraft Gun Mount Mk 1 (Twin)—Description and Operation (Preliminary)	15 Mar 42	R	With Addenda D. Will be superseded by OP 821
*OD 4743.....	Type Approval Tests of 40-mm Mount Mk 1 (Twin) with W L Maxson Corp Power Drive			
OD 4749.....	Ordnance Data Type Approval Test of 40-mm Twin Gun Mount Mk 1 Mod 2 with GE Amplidyne Power and Control System under the Provisions of OD 4667	25 Jan 45	R	
OD 5487.....	Description of Maxson Electric Drive for Navy 40-mm Mount Mk 1	Undated	C	
QP 821A.....	Train Power Drive Mk 4; Elevation Power Drive Mk 4; 40-mm Mount Mk 1 Mod 2, and 171 Mount Mk 2 Mod 6	18 Oct 45	R	Supersedes OD 3906
OTI G2-45....	40-mm Mounts Mk 1 and Mods and Mk 2 and Mods, Lubrication of Firing Mechanism Spring and Rod Assembly	16 May 45	R	
OD 4208.....	Installation Instructions for Power Drives Mk 2 Mods 0, 1, 2—on 40-mm Mount Mk 1 Mod 1	23 Jun 42	R	
*OP 821B.....	Train Power Drive Mk 4; Elevation Power Drive Mk 4; 40-mm Mount Mk 1 Mod 2, and 171 Mount Mk 2 Mod 6			
*OD 4471.....	Report of Non-Firing Tests of Automatic Control—40-mm Mount Mk 1 Mod 2 (Twin) Equipped with Ford Inst. Power Drive			
*OP 821.....	40-mm AA (Twin) Gun Mount Mk 1 and Mods.....		D	Will supersede OD 3782
OD 4472.....	Preliminary Test Report of Non-Firing Type Approval Tests at Normal Temperatures on 40-mm Mount Mk 1 Mod 2 (Twin) Equipped with General Electric Power Drive Mk 4	28 Apr 43	R	
*OD 4473.....	Report of Non-Firing Tests of Automatic Control 40-mm Mount Mk 1 Mod 6 (Twin) Equipped with York Safe and Lock Power Drive Mk 5 Mod 3			
OTI G19-44...	Train and Elevation Power Drives Mk 5 and 6 (For 40-mm Mounts Mk 1 and 2) Elimination of Selenium Rectifier Units from Handle Control	16 Oct 44	R	Supersedes OTI G15-44
OTI G10-44...	40-mm AAG Mounts Mk 1 and 2 and Mods—Addition of Corrosion Inhibitor to Coolant Water	19 Jun 44	R	
OD 4391.....	40-mm Antiaircraft Quad Mount Mk 2—Description and Operation (Preliminary)	15 Apr 42	R	With Addenda D. Will be superseded by OP 822
*OP 822.....	40-mm AA (Quad) Gun Mount Mk 2 and Mods.....			Will supersede OD 4391
*OP 822A.....	40-mm AA (Quad) Gun Mount Mk 2 and Mods.....			
*OD 4474.....	Report of Non-Firing Tests of Automatic Control 40-mm Mount Mk 2 Mod 2 (Quad) Equipped with York Safe and Lock Power Drives Mk 5 Mod 0 Light Train Power Drive			

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40-mm, Mounts				
*OD 4475.....	Report of Non-Firing Test of Automatic Control 40-mm Mount Mk 2 Mod 2 (Quad) Equipped with York Safe and Lock Power Drives Train Power Drive Mk 6 Heavy Power Drive	12 Aug 44	R	
OTI G16-44...	Removal of Flywheel from Train Drive Shaft of 40-mm Mounts Mark 2 Mods 14, 16, 18 and 20	16 Aug 44	R	
*OD 4763.....	Type Approval Tests of 40-mm Single Mounts Mk 3 Mod 3 with Power Drives and Control Furnished by W. L. Maxson Corp Contractor, Contract NOrd 610 Both with Heavy and Light Power Drive Control	28 Aug 45	R	
OP 1289.....	40-mm Mount Mk 3 Mod 4; 40-mm Train and Elevation Power Drives Mk 10 Mods 0, 1, and 2	28 Aug 45	R	
*OD 4772.....	Test of 40-mm Gun Mounts Mark 3 Mod 4 Serial No. 4389 and 40-mm Mount M2 (Army) Serial No. 21110 with MIT Controls		R	
*OP 1329.....	40-mm Quad Mount Mk 4 and Power Drive Mk 9		R	
OTI G26-43...	Lubrication of Wheel Bearings 40-mm AA Gun Carriage M1 and M2	12 Aug 43	R	Issued with TM9-1252
OTI G27-43...	Lubricating Fitting for Right Trunnion Bearing—40-mm AA Gun Carriage M1 and M2	12 Aug 43	R	Issued with TM9-1252
*OD 4772.....	Test of 40-mm Gun Mounts Mk 3 Mod 4, Serial No. 4389 and 40-mm Mount M2 (Army) Serial No. 21110 with MIT Controls		R	
OTI G25-43...	Change in Bottom Azimuth Handcrank Bearing—40-mm AA Gun Carriage M2 and M3	12 Aug 43	R	Issued with TM9-1252
OD 4744.....	Type Approval Tests of 40-mm Single Army M3 Gun Mount with United Shoe Machinery Corp. (Power Drive)	20 Apr 45	R	
90-mm, Mounts				
OTI G3-43...	90-mm Mounts M1 and M1A1 Recoil Mechanisms, Adjustment of the Length of Recoil	9 Mar 43	D	
3"/50, Mounts				
OTI G3-44...	3"/50 Cal Gun Mounts, Solenoids Mk 5 and Mods Sealing of	18 Mar 44	R	
OD 1967.....	3" Mount Mk 11 Mod 8—Sight Breech Mechanism V-10 (Anti-Aircraft Mount on Submarines B1 to B3, C1 and C2)—General Description	26 Feb 42	R	
OP 761.....	3"/50 cal Submarine Mount Mk 18 (Wet Type) Description	Jul 1940	R	
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods	22 Dec 43	R	1st rev. See remarks for OP 811 in Part I
OD 2936.....	3"/50 Caliber AA Gun Mounts Mk 20 Mods—Using 3"/50 Cal Guns Mk 20 and Mk 20 Mods 1 and 2 Instructions for Regunning with a 3"/50 Caliber Gun Mk 21, Mk 21 Mod 2, Mk 22, Mk 22 Mods 1, 2, or 3	6 Jul 43	R	
OD 4710.....	Torque Tests of 3"/50 Mount Mk 22 in Train to Determine Friction Loads which may be imposed on Power Drive Equipment	4 May 44	R	
*OD 4575.....	3"/50 Mount Mk 22 Mod 3 and 3" Shield Mk 14—Installation Instructions		R	

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3"/50, Mounts				
OD 4537.....	Report of 2000 ft Lb Shock Test of Firing Solenoid Mk 25—For Use in Firing Circuit Mk 11 on 3" Gun Mounts Mk 24	18 Feb 43	R	
OD 4550.....	3"/50 Cal AA Mounts Mk 24—Installation Instructions	6 Dec 43	R	Rev A. With Change 1 dated 31 Jan 45
OP 984.....	3" Gun Mounts .50 Cal DP—Pedestal Type Mk 24 and Mk 24 Mod 1	27 Jan 44	R	See remarks for OP 984 in Part 1
OD 4556.....	3"/50 Cal AA Gun Mount Mk 24 Mod 1—Installation Instructions	6 Dec 44	R	With Change 1 dated 3 Jan 45
*OD 4833.....	Type Approval Tests of 3"/50 Cal Mount Mk 26 Fitted with Arms Power Drive Mk 31 Mod 0		R	
*OP 1566.....	3"/50 Twin Mount Mk 27 Mod 1		R	
4", Mounts				
OP 165.....	4" Gun Mounts .50 Cal Pedestal Type Mk 12 and Mk 12 and Mods	Jun 1943	R	11st rev. Supersedes OPs 150A and 159
OD 4541.....	4"/50 Cal Gun Mounts Mk 12 Mods 38, 40, 41, 42 and 43—For Submarines—Instructions for Installation Aboard Ship	19 May 44	R	Rev A. 11st rev.
5" Mounts				
OD 2349.....	Detailed Instructions and Method of Procedure for Taking Firing Stop Cam Data and Installation in 5" Anti-Aircraft Gun Mounts	24 Oct 43	R	Rev B.
5"/25 Cal Mounts				
OD 2846.....	Instructions for Balancing Oscillating Parts of Enclosed Mounts and Turrets	3 Mar 39	D	
OD 784.....	5"/25 AA Gun Mount Mk 19 and Mods—Firing Stop Mechanisms, Cam Plate—Manufacturing and Installation	4 Jan 41	D	Rev C. Issued with Change 2 dated 24 Oct 45 which supersedes Change 1
OD 1960.....	5" Mount Mk 19 and Mods Anti-Aircraft Maintenance, Overhauling, Examination and Replacement of Parts of the Counter Recoil and Differential Cylinders	22 Nov 30	D	
OD 1986.....	5"/25 Anti-Aircraft Mount Mk 19 and Mods Synchronizing of the Firing Stop Mechanism for Electric and Percussion Firing	6 Aug 31	D	
OP 100.....	5" AA Mount Mk 19 and Mk 19 Mod 1, Assemblies 208, 211, 219, and 220, Description	Apr 1929	R	See remarks for OP 100 in Part 1
OP 589.....	5"/25 AA Mount Mk 19, Mods 5 and 12, and Mk 23 and Mk 23 Mods 1 and 2, (Army Mfg.) Description	Aug 1938	R	See remarks for OP 589 in Part 1
OD 3001.....	USS MINNEAPOLIS—5" Anti-Aircraft Mounts Mk 19 Mod 6—Method of Installing Cable Leads Through Base of Mount	Undated	D	
OD 3876.....	Description of Magnetic Brake for Elevating Gear Electric Gear Electric Motor, 5" Mount Mk 19 Mod 13 CVs 2 and 3	9 Jan 41	D	1st rev
OD 3882.....	Description of Magnetic Brake for Training Gear Electric Motor—5" Mount Mk 19 Mod 13—CVs 2 and 3	9 Jun 41	D	2nd rev
OD 3394.....	Report of Tests on 5"/25 Mount Mk 27—Control Equipment	10 Oct 38	R	

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5"/25 Cal Mounts				
OP 1029.....	5" Gun Mount Mk 40-25 Cal., Single Purpose, Submarine Mount	22 Aug 44	R	Issued with Change 1 dated 29 Jun 45
OD 4707.....	5"/25 Cal Gun Mounts Mk 40 for Submarines—Installation Instructions	21 Jun 44	R	Issued with Change 1 dated 21 Jun 45
5"/38 Cal Mounts				
OD 2846.....	Instructions for Balancing Oscillating Parts of Enclosed Mounts and Turrets	3 Mar 39	D	
*OD 2909.....	5"/38 Cal Single Mount Ford, Waterbury, GE Contract Mount, Report of Tests			
OD 2913.....	5"/38 Cal Anti-Aircraft Double Purpose Single and Twin Gun Mounts, Instruction for Filling the Recoil and Differential Cylinders and Charging the Counter-Recoil Air Cylinder	14 Jul 44	D	Rev A
OD 2924.....	5"/38 Cal AA Single Gun Mounts (Base Ring Type) (Open and Enclosed) 5" Slides Mk 24 Mods 2, 3, 4, 5, 6, 7, 8 Instructions for Balancing Oscillating Parts	1 Jul 44	D	
OD 2931.....	5"/38 Anti-Aircraft Single Gun Mounts (Pedestal Type Open)—5" Slides Mk 21 Mod 8—Instructions for Balancing Oscillating Parts	8 Aug 42	D	
*OD 2934.....	5"/38 Cal AA Single Gun Mount (Pedestal Type Open) 5" Slides Mk 21 Mod 8 Instructions for Balancing Oscillating Parts			
OD 2941.....	5"/38 Cal Single and Twin AA Gun Mounts—Instructions for Installing Trunnion Bearings	18 Sep 43	R	
*OD 2944.....	5"/38 Cal Anti-Aircraft Single and Twin Gun Mounts			
OD 3352.....	5" Anti-Aircraft Mounts (for DDs 380, 382, 384 to 393, 397 to 420, CV 7, CA 45)—Method of Testing After Installation Aboard Ship	14 Mar 40	R	Rev C
OD 3790.....	5"/38 Cal AA Twin Mounts for BBs 36-46, 48, 61-66, CBs 1-2, CVs 9-21, CAs 68-75, ANs 1-4, CLs 55-58, 60, 62-67, 79-83, 89-98, 101-102, DDs 692-791, 805-808, DD356 Class (Replacements) Method of Testing after Installation Aboard Ship	26 Oct 43	R	Rev B
OD 4189.....	Instruction for Installation of Electric Hydraulic Drive Equipment for Training Gear Mk 9 or Mk 10 on 5"/38 Cal Twin Mounts	9 May 42	R	
OD 4190.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Elevation Gear Mk 9 or Mk 10 on 5"/38 Cal Twin Mounts	23 Dec 42	R	
*OD 4193.....	Summary of routine tests of Electric Hydraulic Equipment for 5" Training and Elevating Gear Mk 9 and 10 for 5"/38 Mount, Twin, Train Indicator Regulator Mk 46, Elevation Indicator Regulator Mk 42			
OD 4436.....	Instructions for Installation of Electric Hydraulic Drive Equipment for 5" Training Gear Mk 6 Mods 6, 7, 9, 10, 17-20, 5" Elevating Gear Mk 6 Mods 6, 7, 17, 18 and Telescopes Mk 61 and Mods 62 and Mods on 5"/38 Single AA Gun Mounts—Including Instructions for Testing after Installation	29 Jan 43	R	
OD 4437.....	5" Sight Mk 31 Mod 5 for 5"/38 Cal Single Gun Mounts—Instructions for Installing the Housing Assembly and for Testing Sight after Installation	8 Mar 43	R	

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Subjects and Publication Numbers	Equipment	Issued Date	Class	Remarks
5"/38 Cal Mounts				
*OD 4588.....	Tabulation and General Description of 5"/38 Cal AA Gun Mounts, Mk 21, 24, 25, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000			
*OD 4770.....	Instructions for Dismantling Gun Slide Assembly for 5"/38 Cal Single Mount and Installing the modified Oscillating Unit of a 155-mm Howitzer M1			
OTI G7-44....	Electric Hydraulic Rammers for 5"/25 Caliber and 5"/38 Caliber Gun Mounts and Loading Machines. Precaution to Prevent Damage to Rammer Piston Rods	1 May 44	R	Issued with OPs 553, 700, 735, 742, 743, 748, 775, 783, 805, 868, 895, 1013, 1105
*OP 1624.....	Contour Control for 5"/38 Cal Mount Mk 24 Mod 11 with Training and Elevating Gear Mk 12 Mods 1 and 2, 5"/38 Cal Mount Mk 30 All Mods with Training and Elevating Gear Mk 6 and Mods. Description, Operation and Maintenance Instructions	11 Nov 41	R	
OD 2071.....	Manufacture and Installation of the Firing Stop Mechanism Cam Plate also Synchronizing of the Firing Stop Mechanism for Electric and Percussion Firing for 5"/38 Cal AA Gun Mounts Mk 21 and Mk 21 Mod 1, Mk 24 and Mk 24 Mod 1, Mk 25 and Mk 25 Mod 1 and 2, Mk 30 and Mk 30 Mod 1 to 11 incl	8 Sep 43	Rev F	
OP 553.....	5"/38 AA Mounts Mk 21 and Mk 21 Mod 1 to 5, 9, 11 to 13, 15 to 19	Aug 1939	R	3rd rev. See remarks for OP 1553 in Part 1
*OD 3504.....	Description of Elevating and Training Gears for 5"/38 Cal Mounts Mk 21 Mods 3 and 4	15 Mar 38	R	
OD 3407.....	Report of Test and Dynamic Braking on a 5"/38 Cal Mount Mk 21 Mod 19	9 Mar 39	D2	
OP 700.....	5" Mounts (38 Cal AA Pedestal Type) Mk 24 and Mk 24 Mod 1, 3, 6, 9, 10, 11, Assemblies, Description and Instructions	Sep 1942	R	See remarks for OP 700 in Part 1
OD 3538.....	5"/38 Cal Single AA Gun Mounts Mk 24 and Mods (Pedestal Type), Mk 30 and Mods (Base Ring Type)—Elevating and Training Gears with General Electric Co, or Ford Instrument Co, Power Equipment, Slides with Northern Pump Co, (Northern Ordnance Inc), Rammers, Projectile Hoist with Vickers, Inc Power Equipment—Method of Testing after Installation aboard Ship	18 Sep 43	Rev C	
OD 3893.....	Description of Gun Train Indicator Regulator Mk 139 Mods 0 and 16 to 19, Elevation Indicator Regulator Mk 36 Mods 0, 1, 2, 3 and 4—Electric Hydraulic Training and Elevation Equipment for 5"/38 Cal Mounts Mk 24 Mod 2 (CV-8)	19 Nov 41	R	
OD 3368.....	Non-Firing Type Tests of Elevating and Training Gear Electric Hydraulic Drives and Control (Ford-Waterbury) 5"/38 Cal Mounts Mk 25 and Mk 30, DD-380 Class	10 Aug 38	R	
OP 748.....	5"/38 Cal Enclosed Single Mounts, AA Mk 25 and Mk 25 Mod 1 and 2 (Preliminary)	Jan 1941	R	See remarks for OP 748 in Part 1
OD 2926.....	5"/38 Cal Anti-Aircraft Twin Mounts (For BBs 61 to 66 Incl)—Method of Installation aboard Ship (Mk 28)	13 Jul 44	Rev A	
OD 3571.....	Report of Tests of Automatic Control 5"/38 Caliber Twin Mount Mk 28	18 Oct 43	Rev B	

*Under preparation.

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5"/38 Cal Mounts				
OD 5319.....	Routine Test Data for Power Drives for 5" Projectile Hoist Mk 4 Mods 6, 7, 10 and 11 5" Powder Hoist Mk 4 Mods 6, 7, 10, 11 (38 Cal Twin Mount Mk 28 and Mk 32) Electric Hydraulic Equipment	15 Dec 43	R	
OD 3486.....	Manufacture and Installation of the Firing Stop Mechanism Cam Plate; Also Synchronizing of the Firing Stop Mechanism for Electric and Percussion Firing for 5"/38 Cal AA Gun Mounts Mk 28, 28 Mod 1, 29, 31 and 32	8 Sep 43	DD Rev B	Issued with Change 1 dated 27 Aug 45, Change 2 dated 30 Oct 45
OD 3638.....	5"/38 Cal Twin Gun Mount Mk 28 Mod 1 (CLs 51 to 54)—Report of Investigation of Lighting Requirements	24 Apr 41	R	
OD 3639.....	5" Mount Mk 28 Mod 1 5" Shield Mk 29 and Barbette Water Seals for CLs 51-54 Incl. Installation Instructions	14 Oct 44	D Rev C	
OP 805.....	5"/38 Cal Twin Gun Mounts, AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2, Description and Instructions	Feb 1942	R	See remarks for OP 805 in Part 1
OD 3640.....	5" Mount Mk 28 and Mk 28 Mod 2, 5" Shield Mk 28 and Mk 28 Mod 1 and Barbette Water Seals for BBs 55-60 Installation Instructions	14 Oct 44	D Rev B	Supersedes OD 3621
OD 3773.....	5" Shield Mk 30 and Barbette Water Seals for 5" Mount Mk 28 and 28 Mod 2 for BBs 61 to 66 Incl. Installation Instruction	12 Oct 44	D Rev B	
OP 745.....	5"/38 Cal Mount Mk 29 (Twin)—CLs 49 and 50	1942	R	See remarks for OP 745 in Part 1
OD 2861.....	5" Sight Mk 35 for 5"/38 Twin Anti-Aircraft Mount Mk 29 (CLs 49-50)—Description	26 May 39	R	
OD 4167.....	Instructions for Installation of Gun Train Receiver Regulator Mk 12 for Training Gear Mk 3 Mod 1, 5"/38 Cal Twin Mount Mk 29 Used on CLs 49 and 50	24 Sep 41	D	
OD 4168.....	Instructions for Installation of Gun Elevation Receiver Regulator Mk 7 for 5" Elevating Gear Mk 3 Mod 1, 5"/38 Cal Twin Mount Mk 29 Used on CLs 49 and 50	24 Sep 41	D	
OD 3635.....	Description of Circuit and Units with Instructions for Installation, Adjustments, Operation and Repair for Electric Hydraulic Equipment for 5" Projectile Hoist Mk 2 Mod 1 (5"/38 Cal Mount Mk 30)	29 Mar 43	R Rev B	
OD 4448.....	5" Projectile Hoist Mk 2 Mod 1 (5"/38 Cal Mount Mk 30) Electric Hydraulic Equipment—QS 2130—Routine Test Data	3 Jun 42	R	
OD 4673.....	Routine Test Data, Power Drives for 5" Projectile Hoist Mk 2 Mod 1 5"/38 Cal Mount Mark 30 Electric Hydraulic Equipment	29 Oct 43	RA	
OD 5337.....	Routine Test Data Power Drives for 5" Projectile Hoist Mk 2 Mod 1 for 5"/38 Mount Mk 30 Electric Hydraulic Equipment	14 Jan 44	R	
OP 735.....	5"/38 Cal Gun Mounts, AA Base Ring Type Mk 30 and Mk 30 and Mods, Except Merchantmen Types	May 1943	R 1st rev.	See remarks for OP 735 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5"/38 Cal Mounts				
*OP 1624.....	Contour Control for 5"/38 Cal Mount Mk 24 Mod 11 with Training and Elevating Gear Mk 12 Mods 1 and 2, 5"/38 Cal Mount Mk 30 All Mods with Training and Elevating Gear Mk 6 and Mods, Description, Operation and Maintenance Instructions	11 Nov 42	R	See remarks for OP 1624 in Part 1
OD 4498.....	5"/38 Cal AA Single Gun Mounts Mk 30 Mods 1-5 (Manual Handwheel Drive)—For Merchantmen—Instructions for Installation Aboard Ship	11 Nov 42	R	See remarks for OP 4498 in Part 1
OD 4535.....	5"/38 Cal Single AA Mounts Mk 30 and Mods—Instructions for Converting Standard Combat—Enclosed Type Mounts to Open Mounts	15 Oct 43	R Rev A	See remarks for OP 4535 in Part 1
OD 3662.....	Report of Low Temperature Tests—5"/38 Cal Single Mount Mk 30 Elevating and Training Gear—Electric Hydraulic Drives	18 Nov 44	R Rev B	See remarks for OP 3662 in Part 1
OD 3628.....	Report of Test of Automatic Control—5"/38 Cal Single Mount Mk 30 Mod 8	13 Nov 41	R	See remarks for OP 3628 in Part 1
OD 3693.....	Report of Low Temperature Tests 5"/38 Cal Single Mount Mk 30 Mod 9—Elevating and Training Gears—Electric Hydraulic Drives	4 Oct 43	R Rev B	See remarks for OP 3693 in Part 1
OD 3721.....	5"/38 Cal AA Single Gun Mounts Mk 30 Mods 12, 13, 16-19, 25, 28 and 32—5" Shield Mk 25, Mk 25 Mods 1-5—Installation Instructions	25 Sep 44	D Rev B	See remarks for OP 3721 in Part 1
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries—38 Cal DP, Single, Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48 and 49	11 Apr 44	R	See remarks for OP 1013 in Part 1
OD 4685.....	5"/38 Caliber Mounts Mark 30 Mods 45, 46, 48 and 49 Equipped with 5" Sight Mark 31 Mod 8—Replacement of Telescope Mark 77 to 79, and Adapter with Telescopes Mark 61 or Mods, or Mark 83 or Mods and Mark 62 or Mods—Instructions for making the Change	25 Jan 44	R	See remarks for OP 4685 in Part 1
OP 895.....	5"/38 Cal AA Mount Mk 30 Mod 50, Assemblies for Merchantmen, Description and Instructions	Dec 1942	R	See remarks for OP 895 in Part 1
OD 4585.....	Instructions for Converting an Open 5"/38 Single AA Mount Mk 30 Mod 50 (Assembly No 955) Northern Ordnance Inc Interim Merchant Type to an Enclosed 5"/38 Cal Single AA Mount Mk 30 Mod 64 (Assembly No 1239) (Heavy Roof Type)	12 Jun 44	R Rev A	See remarks for OP 4585 in Part 1
OD 2928.....	5"/38 Cal Anti-Aircraft Twin Gun Mounts (Base Ring Type)—5" Slide Mk 27 and Mods 1 to 9—Instructions for Balancing the Oscillating Parts	8 Aug 42	D	See remarks for OP 2928 in Part 1
OD 2925.....	5"/38 Cal Anti-Aircraft Twin Mounts—(for BBs 36-46 and 48, CBs 1-6, CVs, 9-21, CAs 68-75, CLs 55-58, 60, 62-67, 79-83, 86-87, 89-94, 99-102)—Method of Installation Aboard Ship	13 Jul 44	R Rev A	See remarks for OP 2925 in Part 1
OD 2928.....	5"/38 Cal Anti-Aircraft Twin Gun Mounts (Base Ring Type)—5" Slide Mk 27 and Mods 1 to 9—Instructions for Balancing the Oscillating Parts	8 Aug 42	D	See remarks for OP 2928 in Part 1
OD 4176.....	Instruction for Installation of Electric Hydraulic Drive Equipment for Training Gear Mk 10 for 5"/38 Cal Twin Mounts Mk 32	12 Mar 42	D Rev A	See remarks for OP 4176 in Part 1
OD 4177.....	Instructions for Installation of Electric Hydraulic Drive Equipment for Elevating Gear Mk 10 for 5"/38 Cal Twin Mounts Mk 32	10 Mar 42	R Rev A	See remarks for OP 4177 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5"/38 Cal Mounts				
OD 4587.....	Routine Test Data for 5" Projectile Hoist Mk 4 Mods 10 and 11 5" Powder Hoist Mk 4 Mods 10 and 11 (38 Cal Twin Mount Mk 32)—Electric Hydraulic Equipment	25 Feb 43	R	See remarks for OP 805 in Part 1
OD 5319.....	Routine Test Data for Power Drives for 5" Projectile Hoist Mk 4 Mods 6, 7, 10 and 11 5" Powder Hoists Mk 4 Mods 6, 7, 10, 11 (38 Cal Twin Mount Mk 28 and Mk 32) Electric Hydraulic Equipment	15 Dec 43	R	See remarks for OP 805 in Part 1
OP 805.....	5"/38 Cal Twin Gun Mounts, AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2, Description and Instructions	Feb 1942	R	See remarks for OP 805 in Part 1
OD 4400.....	Instructions for Installation of Electric Hydraulic Drive Equipment—5" Training Gear Mk 10 and Mk 10 Mod 1 and 5" Elevating Gear Mk 10 on 5"/38 Cal Twin Gun Mounts Mk 32 and Mk 32 Mods 1 and 2	15 Sep 42	R	Rev A
OD 3779.....	5" Shield Mk 34 and Barbette Water Seals for 5" Mount Mk 32 Mods 1 and 7 Installation Instructions	16 Oct 44	R	Rev C
OD 3770.....	5" Shield Mk 31 and Barbette Water Seals for 5" Mount Mk 32, Mk 32 Mods 2 and 6 Installation Instructions	16 Oct 44	R	Rev D
OD 3777.....	5" Shields Mk 33 and 36 and Barbette Water Seals for 5" Mount Mk 32 and Mk 32 Mods 2 and 6 Installation Instructions	16 Oct 44	R	Rev C
OD 2947.....	5" Shield Mark 31 Mod 1 Barbette Water Seals and External Type Training Stop Buffers for 5" Mount Mark 32 Mods 3 & 4—Installation Instructions	16 Oct 44	D	Rev B, Adds Mods 8, 11 and 12
OD 4604.....	5" Shields Mk 33 Mod 1 and Mk 36 Mod 1 Barbette Water Seals and External Type Training Stop Buffers for 5"/38 Cal Twin Gun Mounts Mk 32 Mods 3 and 4—Installation Instructions	16 Oct 44	R	Rev A, Adds Mods 8, 11, 12
OD 4603.....	5" Shield Mk 34 Mod 1 Barbette Water Seals and External Type Training Stop Buffers for 5" Mount Mk 32 Mod 5 Installation Instructions	16 Oct 44	R	Rev A
OP 868.....	5"/38 Cal Single Mount Mk 37.....	Feb 1943	R	See remarks for OP 868 in Part 1
*OD 5880.....	L.S.D. 21—Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mount Mk 37 Mod 5		R	For Design and Research use only, not for distribution
OD 4682.....	Installation Instructions for 5" Shield Mk 48 on 5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1	18 Oct 44	R	Rev A
OD 4683.....	Installation Instructions for 5" Shield Mark 53 on 5"/38 Cal AA Twin Gun Mounts Mark 38 and Mark 38 Mod 1	18 Oct 44	R	Rev A
OD 4643.....	Installation Instructions for 5" Shield Mk 41 on 5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1	18 Oct 44	D	Rev C
OD 4698.....	5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1 Method of Installation Aboard Ship	13 Jul 44	R	Rev A
*OD 5881.....	DD 840—Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1		R	For Design and Research use only, not for distribution
*OD 5883.....	DD 841—Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1		R	For Design and Research use only, not for distribution

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5"/38 Cal Mounts				
OD 5394.....	USS AGC 8, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	For Design and Research use only, not for distribution
*OD 5885.....	AGC-16—Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mounts Mk 37 Mod 5		R	For Design and Research use only, not for distribution
OD 5393.....	USS AP 21, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	For Design and Research use only, Not for distribution
OD 5707.....	APD 39, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R	Do
*OD 5735.....	APD 45—5"/38 Cal AA Gun Mount Mk 30 Mod 37—Report of Shipboard Tests and Inspection of Ordnance Equipment		Do	
OD 5708.....	APD 50, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R	Do
*OD 5719.....	APD 54, Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mount—Mark 30 Mod 75		Do	
OD 5709.....	APD 56, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
*OD 5723.....	APD 77, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mod 75		Do	
*OD 5729.....	APD 66—Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mount Mk 30 Mod 77		Do	
OD 5780.....	5"/38 Cal AA Single Gun Mount, Ordnance Installation Test Data for USS, APD 87	Undated	R	Do
OD 5563.....	APD 107—Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mounts	10 May 45	R	Do
OD 5550.....	Test Sheet for Mount Mk 1, APD 120	Undated	R	Do
OD 5607.....	5"/38 Single Mounts, Ordnance Installation for USS CURRITUCK (AV7)	1944	R	Do
OD 5785.....	5"/38 Cal Twin Gun Mounts—Ordnance Installation Test Data for USS CA 135	Undated	R	Do
OD 3566.....	5"/38 Cal AA Twin Mounts (for CLs 51 to 54 Incl and BBs 55 to 60 Incl) Method of Testing after Installation Aboard Ship	26 Sep 42	R	Rev D
OD 3570.....	5"/38 Cal AA Twin Mounts for CLs 51-54, BBs 55-60—Method of Installation Aboard Ship	13 Jul 44	R	Rev B
OD 3009.....	USS NEW JERSEY, BB 62, Report of Secondary Battery Ordnance Installation Tests 5"/38 Cal AA Twin Mounts	2 Dec 43	R	For design and research use only, Not for distribution
OD 5490.....	5"/38 AA Twin Mounts—Ordnance Installation Test Data for USS (BB64)		R	Do
OD 2775.....	Instructions for Assembling and Using Testing Equipment—Tests of Automatic Control Apparatus—6"/47 Cal Triple Mounts and 5"/38 Cal Twin Mounts CLs 40-43, 46-48, DDs 356-363, 381 and 383	10 Feb 37	R	
OD 5606.....	5"/38 Cal Twin Mount, Ordnance Installation Test Data for USS CL 42	Undated	R	For Design and Research use only, not for distribution

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5"/38 Cal Mounts				
OD 5473.....	5"/38 Cal AA Twin Mounts, Ordnance Installation Test Data for USS (CL55)	Undated	R	For Design and Research use only. Not for distribution
OD 5474.....	5"/38 Cal AA Twin Mounts, Ordnance Installation Test Data for USS (CL56)	Undated	R	Do
OD 5475.....	5"/38 Cal AA Twin Mounts, Ordnance Installation Test Data for USS (CL57)	Undated	R	Do
OD 5476.....	5"/38 Cal AA Twin Mounts, Ordnance Installation Test Data for USS CL58	Undated	R	Do
OD 5472.....	5"/38 Cal AA Twin Mounts, Ordnance Installation Test Data for CL60	Undated	R	Do
OD 5614.....	Test Sheets, Mounts and Turrets, CL 67	Undated	R	Do
OD 2920.....	5"/38 Cal Anti-Aircraft Twin Mounts for CLs 95 to 98 and ANs 1 to 4. Method of Installation Aboard Ship	13 Jul 44	R	Rev. A
OD 5783.....	5"/38 Cal Twin Gun Mounts, Ordnance Installation Test Data for USS CL 103	Undated	R	For Design and Research use only, not for distribution
OD 4046.....	CV 9—Fire Control Equipment, 40-mm and 5"/38 Cal Mounts and Directors—Accuracy Tests, Checking Concentricity of Elevating and Training Racks with Elevation and Train Indicator	27 Jan 43	D	Do
OD 5781.....	5"/38 Cal Single Gun Mounts, Ordnance Installation Test Data for USS CV 36	Undated	R	Do
OD 5782.....	5"/38 Cal Twin Gun Mounts, Ordnance Installation Test Data for USS CV 36	Undated	R	Do
*OD 5741.....	DE 57—5"/38 Cal AA Gun Mounts, Mk 30 Mod 75—Report of Shipboard Tests and Inspection of Ordnance Equipment	Undated	R	Do
OD 5766.....	5"/38 Cal Single AA Gun Mounts, Ordnance Installation Test Data for USS DE 224	Undated	R	Do
OD 5767.....	5"/38 Cal Single AA Gun Mounts, Ordnance Installation Test Data for USS DE 225	Undated	R	Do
*OD 5734.....	DE 251, 5"/38 Cal AA Gun Mounts Mk 30 Mods 42 and 61—Report of Shipboard Tests and Inspection of Ordnance Equipment	Undated	R	Do
OD 5450.....	DE 340, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	For Design and Research use only. Not for distribution
OD 5451.....	DE 341, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
OD 5452.....	DE 342, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R	Do
OD 5672.....	DE 345, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
OD 5673.....	DE 347, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
OD 5674.....	DE 350, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
OD 5675.....	DE 351, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
OD 5681.....	DE 352, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R	Do
OD 5683.....	DE 355, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R	Do
OD 5684.....	DE 358, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R	Do

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ORDNANCE PUBLICATIONS

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5"/38 Cal Mounts				
OD 5685.....	DE 360, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Feb 45	R Do	
*OD 5710.....	USS DE 361, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	25 Aug 44	R Do	
*OD 5711.....	USS DE 362, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	25 Aug 44	R Do	
OD 5380.....	USS DE 402, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R Do	
OD 5381.....	USS DE 403, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R Do	
*OD 5382.....	DE 404—Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mounts—Mark 30—Mods 65 and 77	19 Oct 44	R Do	
OD 5383.....	USS DE 405, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R Do	
OD 5384.....	DE 406, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R Do	
OD 5399.....	USS DE 407, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Nov 44	R Do	
OD 5400.....	USS DE 408, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Nov 44	R Do	
OD 5430.....	DE 409, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R Do	
OD 5431.....	DE 410, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R Do	
OD 5453.....	DE 411, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R Do	
*OD 5454.....	DE 413—Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R Do	For Design and Research use only. Not for distribution
OD 5455.....	DE 414, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R Do	
OD 5456.....	DE 415, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R Do	
OD 5457.....	DE 416, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	5 Dec 44	R Do	
OD 5458.....	DE 418, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
OD 5650.....	DE 419, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R Do	
OD 5651.....	DE 420, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R Do	
*OD 5686.....	DE 421, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	6 Feb 45	R Do	
*OD 5687.....	DE 422, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	6 Feb 45	R Do	
OD 5688.....	DE 423, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R Do	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5"/38 Cal Mounts				
*OD 5385.....	DE 532, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	19 Oct 44	R Do	
OD 5395.....	USS DE 533, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
OD 5459.....	DE 534, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
OD 5460.....	DE 535, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
*OD 5712.....	USS DE 536, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77		R Do	
*OD 5745.....	DE 537—Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mounts Mk 30 Mod 75		R Do	For Design and Research use only, not for distribution
*OD 5890.....	DE 538—Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mounts Mk 30 Mods 73 and 75		R Do	
*OD 5386.....	DE 579, 5"/38 Cal AA Gun Mounts, Mk 30 Mods 65 and 77, Report of Shipboard Tests and Inspection of Ordnance Equipment		R Do	
*OD 5372.....	DE 580 Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77		R Do	
*OD 5373. ...	DE 581 Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts—Mk 30 Mods 65 and 77		R Do	
OD 5374.....	USS DE 582, 5"/38 Cal Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R Do	
OD 5375.....	USS DE 583, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R Do	
OD 5376.....	USS DE 584, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Aug 44	R Do	
OD 5397.....	USS DE 585, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	3 Nov 44	R Do	
OD 5396.....	USS DE 586, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Nov 44	R Do	
OD 5398.....	USS DE 587, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Nov 44	R Do	
OD 5461.....	DE 589, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
*OD 5089.....	DE 684, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77		R Do	For Design and Research use only, Not for distribution
*OD 5095.....	DE 685, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77		R Do	
*OD 5387.....	DE 686, 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77 Report of Shipboard Tests and Inspection of Ordnance Equipment		R Do	
OD 5462.....	DE 706, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	6 Feb 45	R Do	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5"/38 Cal Mounts				
OD 5463.....	DE 707, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R-10 Do	
*OD 5690.....	DE 709, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 65 and 77	20 Sep 43	R-10 Do	
OD 4153.....	DD 150, 5"/38 Cal AA Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Sep 43	R-10 Do	
OD 5002.....	USS DD 472, 5"/38 Caliber AA Mounts—Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R-10 Do	For Design and Research use only. Not for distribution
OD 5005.....	DD 473, 5"/38 Cal AA Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	2 Jan 1944	R-10 Do	
OD 5011.....	USS DD 474, 5"/38 Cal AA Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Oct 43	R-10 Do	
OD 5018.....	DD 475, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	Jan 1944	R-10 Do	
OD 4161.....	USS DD 476, 5"/38 Cal AA Gun Mounts—Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R-10 Do	
OD 4156.....	DD 511—5"/38 Cal AA Gun Mounts—Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Sep 43	R-10 Do	
OD 4157.....	DD 512, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	Jan 1944	R-10 Do	
OD 5001.....	USS DD 513, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R-10 Do	
OD 5008.....	USS DD 514, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R-10 Do	
OD 5006.....	USS DD 515, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Oct 43	R-10 Do	
OD 5013.....	USS DD 516, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	26 Oct 43	R-10 Do	
OD 5016.....	DD 517, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	Jan 1944	R-10 Do	
*OD 5033.....	DD 582, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 41, 42 and 60	20 Sep 43	R-10 Do	
*OD 5052.....	DD 584, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	20 Sep 43	R-10 Do	
*OD 5060.....	DD 585—Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 41, 42 and 60	20 Sep 43	R-10 Do	
*OD 5077.....	DD 586, Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	20 Sep 43	R-10 Do	For Design and Research use only. Not for distribution
*OD 5714.....	USS DD 613, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18 and 19	20 Sep 43	R-10 Do	
OD 4159.....	USS DD 616, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R-10 Do	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
5"/38 Cal Mounts				
OD 5014.....	USS DD 617, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	26 Oct 43	R	Do
*OD 5713.....	USS DD 623, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 12, 18 and 75 (Mod to suit)	12 Dec 43	R	Do
OD 5021.....	DD 629, 5"/38 Cal AA Gun Mounts, Report of Tests and Inspection (Shipboard) of Ordnance Equipment	11 Jan 44	R	Do
OD 5023.....	DD 730, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Jan 44	R	Do
OD 5027.....	DD 631, 5"/38 Cal AA Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Jan 44	R	Do
*OD 5029.....	DD 642, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Mounts Mk 30 Mods 18, 19, 30 and 31	11 Jan 44	R	Do
*OD 5056.....	DD 653, Report of Shipboard Tests and Inspection of Ordnance Equipment—5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	11 Jan 44	R	Do
*OD 5388.....	DD 662, 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30, 31, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Jan 44	R	Do
*OD 5099.....	DD 663, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	11 Jan 44	R	Do
OD 5389.....	USS DD 664, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
*OD 5067.....	DD 688, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	11 Jan 44	R	Do
*OD 5070.....	DD 689, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	11 Jan 44	R	Do
*OD 5075.....	DD 690, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	11 Jan 44	R	Do
*OD 5078.....	DD 691, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 30 Mods 18, 19, 30 and 31	11 Jan 44	R	Do
OD 5098.....	USS DD 722, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5096.....	USS DD 723, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5370.....	USS DD 724, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5371.....	USS DD 725, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	For Design and Research use only. Not for distribution
OD 5426.....	USS DD 727, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	17 Nov 44	R	Do

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Subject and Publication Numbers	Equipment	Date	Class	Remarks
5"/38 Cal Mounts				
OD 5427.....	USS DD 728, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Nov 44	R Do	
OD 5428.....	USS DD 729, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Nov 44	R Do	
OD 5429.....	USS DD 730, 5"/38 Cal AA Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Nov 44	R Do	
OD 5466.....	DD 731, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	16 Jan 45	R Do	
OD 5467.....	DD 732, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	16 Jan 45	R Do	
OD 5468.....	DD 733, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	16 Jan 45	R Do	
OD 5469.....	DD 734, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	16 Jan 45	R Do	
*OD 5706.....	USS DD 741, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1		R Do	
*OD 5715.....	DD 742, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1		R Do	
OD 5718.....	USS DD 743, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	7 May 45	R For Design and Research use only. Not for distribution	
*OD 5721.....	DD 805, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1		R Do	
OD 5724.....	USS DD 806, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Jul 45	R Do	
OD 5726.....	USS DD 807, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Jul 45	R Do	
OD 5730.....	USS DD 808, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Jul 45	R Do	
OD 5732.....	USS DD 829, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Jul 45	R Do	
*OD 5736.....	DD 830, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1, Report of Shipboard Tests and Inspection of Ordnance Equipment		R Do	
*OD 5738.....	DD 831, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1, Report of Shipboard Tests and Inspection of Ordnance Equipment		R Do	
*OD 5740.....	DD 832, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1, Report of Shipboard Tests and Inspection of Ordnance Equipment		R Do	
*OD 5737.....	DD 833, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1		R Do	

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Subjects and Publication Numbers	Equipment	Language	Date	Class	Remarks/Status
5"/38 Cal Mounts					
*OD 5739.....	DD 834, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	R	Do not	Do not	0485 (IO)
*OD 5746.....	DD 835, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	R	Do not	Do not	0021 (IO)
*OD 5748.....	DD 836, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	R	For Design and Research use only. Not for distribution		
*OD 5870.....	DD 837, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38	R	Do not	Do not	
*OD 5872.....	DD 838, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	R	Do not	Do not	0701 (IO)
*OD 5874.....	DD 839, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	R	Do not	Do not	0021 (IO)
*OD 5888.....	DD 842, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	R	Do not	Do not	0021 (IO)
*OD 5896.....	DD 843, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	R	Do not	Do not	0021 (IO)
OD 5700.....	USS DM 23, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	R	7 May 45	Do not	0021 (IO)
OD 5701.....	USS DM 24, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	R	7 May 45	Do not	0021 (IO)
OD 5702.....	USS DM 25, 5"/38 Cal AA Twin Gun Mounts, Reports of Shipboard Tests and Inspection of Ordnance Equipment	R	7 May 45	Do not	0021 (IO)
OD 5703.....	USS DM 26, 5"/38 Cal AA Twin Gun Mounts, Report of Shipboard Tests and Inspection of Ordnance Equipment	R	7 May 45	For Design and Research use only. Not for distribution	
*OD 5704.....	USS DM 27, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Gun Mounts Mk 38 Mod 1	R	Do not	Do not	0021 (IO)
*OD 5705.....	USS DM 28, Report of Shipboard Tests and Inspection of Ordnance Equipment 5"/38 Cal AA Twin Gun Mounts Mk 38 Mod 1	R	For Design and Research use only. Not for distribution		
*OD 5747.....	LSD 20, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Twin Gun Mounts Mk 37 Mod 5	R	For Design and Research use only. Not for distribution		
*OD 5742.....	LSD 26, 5"/38 Cal AA Gun Mounts Mk 37 Mod 5, Report of Shipboard Tests and Inspection of Ordnance Equipment	R	Do not	Do not	0021 (IO)
*OD 5895.....	LSD 27, Report of Shipboard Tests and Inspection of Ordnance Equipment, 5"/38 Cal AA Gun Mount Mk 37 Mod 5	R	Do not	Do not	0021 (IO)

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Subjects and Publication Numbers	Equipment	Issued Date	Class	Remarks
5"/51 Mounts				
OD 2846.....	Instructions for Balancing Oscillating Parts of Enclosed Mounts and Turrets	3 Mar 39	D	
OD 1990.....	Instructions for Installing Training Circle Covers on 5" Mount Mk 15 with 5" Carriage Mk 13. Mod 4	22 Apr 32	D Rev A	
5"/54 Mounts				
OD 4777.....	5"/54 Cal AA Single Gun Mount Mk 39 Mod 0 Equipped with Powder Hoist Mk 6 Mod 0; Projectile Hoist Mk 6 Mod 0; Shield Mk 54 Mods 0 or 1; Sight Mk 40 Mod 0 (Telescopic), Sight Mk 43 Mods 0 or 1 (Open)—Installation Instructions	28 Apr 45	D Rev A	
*OP 1672.....	5"/54 Twin Mount Pilot Model, Electric Hydraulic Equipment		R	
*OP 1027.....	5"/54 Cal Mount Mk 39 (Single)		R	
*OP 1527.....	5"/54 Twin Mount Mk 41		R	
OD 4778.....	5"/54 Cal AA Single Mounts for CVBs 41 to 43, Method of Testing After Installation Aboard Ship	6 Jul 45	R	
6" Mounts				
*OP 760.....	6"/47 Cal Double Purpose (Twin Turret CL 144)		R	
OD 2775.....	Instructions for Assembling and Using Testing Equipment Tests of Automatic Control Apparatus 6"/47 Cal Triple Mounts and 5"/38 Cal Twin Mounts CLs 40-43, 46-48, DDs 356-363, 381 and 383	10 Feb 37	R	
OD 2811.....	Instructions for Manually Operating the Breech Block and Cartridge Case Extractor for 6"/47 Cal Triple Mount—Slide Mk 19 and Housing Mk 1 and Mk 1 Mod 1 Where Mounts are not Equipped with Hydraulic Units	30 Sep 37	R	
OD 2813.....	6"/47 Cal Triple Gun Mount Instructions for Loading Drill (Tentative)	22 Apr 37	R	
OD 2846.....	Instructions for Balancing Oscillating Parts of Enclosed Mounts and Turrets	3 Mar 39	D	
OD 3723.....	Type Non-Firing Tests of Electric Hydraulic Drives—6"/47 Cal (Triple) Rammer, Breech Block and Extractor	2 Dec 41	R	
*OD 1835.....	6" Wet Mount Assembly 90 (Mk 17 Mod 1)		R	
OD 3309.....	Test Requirements for 6"/47 Cal Mount Mk 18, 2000 Ton Gun Boats (PGs 50 and 51)—Operation of Mount with Vickers Hydraulic Drive	Undated	R	
OD 2846.....	Instructions for Balancing Oscillating Parts of Enclosed Mounts and Turrets	3 Mar 39	D	
OP 219.....	6" Mount Mk 16 (Twin) .53 Cal for Cruisers 4 to 13...	Jun 1923	R	Issued with OCL X367
8" Mounts				
OP 569.....	8" Triple Mounts for CAs 32, 34 and 36 Description...	Dec 1934	R	Supersedes ODs 2091 and 2050
OP 1028.....	8" Triple Gun Mounts, Main Armament for USS CHESTER Class (CAs 27, 28, 31, 33, 35) (Preliminary)	Mar 1944	R	Issued with Change 1 dated 18 Aug 45. Supersedes OD 1587. Not available for distribution
OD 2031.....	USS PORTLAND (CA 33) and USS INDIANAPOLIS (CA 35) 8" Triple Enclosed Mounts—Multiple Rotary Transfer Switch Terminal Markings	11 Feb 32	D	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
8" Mounts				
OD 2707.....	Assemblies—8" Triple Mounts for <i>Heavy Cruisers (USS NEW ORLEANS, ASTORIA and MINNEAPOLIS)</i>	26 Mar 35	R	
	Lubrication Instructions			
14" Mounts				
OD 1891.....	Information and Instructions for Balancing 14" Turret Mounts <i>USS PENNSYLVANIA and ARIZONA</i>	29 Nov 29	D	
16" Mounts				
OD 4063.....	Electric Hydraulic Equipment 16" Projectile Hoist Mk 8 and Mk 8 Mods 1 & 2 for 16" Mounts Mk 8 and Mods in BB 61-66 Incl	13 Apr 43	D	
Mounts, Camera				
OP 865.....	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
Mounts, Gun Director				
OD 3363.....	Train, Elevation and Cross Level Power Drive Equipment for Gun Director Mounts Mk 1 and Mk 1 Mod 1	31 Jul 40	R	Rev A
OD 2845.....	Report of Tests and Inspection Gun Director Mount Mk 1 Mod 1 Control Equipment	12 Apr 39	R	
Mounts, Machine Gun				
OD 4667.....	Instructions for General Examination and Tests of Machine Gun Mounts (Preliminary)	5 Nov 43	R	
Mounts, Periscope				
OP 1122.....	Gun Director Mk 55 Mod 0	30 Jul 45	R	
OD 18.....	Description of Periscope Mount Mk 1 Mod 1—General Description, Assembling and Operation	11 Feb 44	D	Designed to Carry Periscopes whose Outside Diameters are 3" as the Mk 1, 2, 3, 4, 6 etc.
OD 50.....	Description of Periscope Mount Mk 2 Mod 1	30 Apr 44	D	Designed to Carry Mk 5 Periscopes or others whose Diameters (Outside) are 4"
Mounts, Radar Antenna				
OD 2568.....	Antenna Control Equipment (Elevation Control) Radar Antenna Mount Mk 7 and Associated Control Units	25 Jun 42	R	
OD 4776.....	Gun Director Mk 37 Mod 53 with Radar Antenna Mount Mk 12 Mods 4, 6, and 9 and Radar Equipment Mk 12 and Mk 22, Vibration and Error Tests	13 Mar 45	R	
OTI F28-44...	Radar Antenna Mount Mk 16 and Mods Description of	8 Dec 44	R	Supersedes OTI F16-44
OP 1238.....	Radar Equipment Mk 28 Mod 2 (Antenna Mount Mk 19 Mod 0)	28 Dec 44	R	See remarks for OP 1238 in Part 1
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary) (Antenna Mount Mk 19 Mods 1 and 2)	15 Nov 44	R	See remarks for OP 1233 in Part 1
*OP 1569.....	Radar Antenna Mount Mk 20 Mod 2 and Mk 21 Mod 0. Description, Operation, and Maintenance			
*OP 1629.....	Antenna Mount Mk 23 Mod 0			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Mounts, Rangefinder				
OD 690.....	Rangefinder Training Attachment Mk 3—Description, Installation and Adjustment	3 Jan 34	D Rev A	
OD 867.....	Rangefinder Mount Mk 28, Mk 28 Mod 1.....	27 May 44	D Rev B-1	
OD 1857.....	Rangefinder Mount Mk 35—Description.....	20 Nov 30	D Rev A	
OD 1948.....	Rangefinder Mount Mk 36—Description.....	25 Oct 30	R	
Mount, Spotting Glass				
OD 513.....	Spotting Glass Mount Mk 4—Description.....	21 Jul 22	D	Describes Spotting Glass Mk 4 Mounts and Spotting Glass
MUNITIONS, CHEMICAL				
OP 382B.....	Projectiles, Bombardment, Field, AA, Illuminating, Flat-Nose, Gas, Smoke and Marker—Specifications for Projectile Bodies	Mar 1937	D 1st rev.	Reinstated
#OP 975.....	Aircraft Vesicant Munitions.....	Mar 1943	R	Now issued by BuAer, NAVAER No. 24-5-501
#OP 1030.....	Non-persistent Gas Munitions.....	22 Dec 43	R	Issued with Change 1 dated 10 Jul 44
OP 1042.....	Ships Chemical Munitions—Description and Instructions for Use	25 Sep 43	R	See remarks for OP 1042 in Part 1
OP 1123.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34A-43
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	
TB23-85-7 ...	Shell, Smoke, WP, 60-mm T6.....	14 Oct 44	R	War Dept publication
TM3-300	Miscellaneous Chemical Munitions.....	1 Mar 44	R	War Dept publication. Issued with TB3-300-1
NAPALM				
See also BOMBS				
OP 1219C.....	Ammunition Code Catalog Class C—Chemicals.....	1 Oct 44	R	See remarks for OP 1219C in Part 1
NETS AND BOOMS				
OP 636.....	Net and Boom Defenses.....		R	Formerly Registered. Supplemented by OP 636A
OP 636A.....	Net and Boom Defenses.....	27 Jun 44	R	Supplements OP 636
OP 947.....	Indicator Float Mk 1 and Mods and Indicator Float Mk 2—Description, Operation and Care	3 Dec 43	R	
OD 3488.....	General Information Relating to Fabrication of Grommets for Anti-Torpedo Nets	17 Jun 41	R Rev A	
NITROGLYCERINE, See AMMUNITION				
NOMENCLATURE, See ORDNANCE EQUIPMENT, NOMENCLATURE				
OIL, See LUBRICATION				

*Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
OPTICAL INSTRUMENTS				
See also	ALIDADES			
	ATTACHMENTS			
	BINOCULARS			
	COLLIMATORS			
	GLASSES			
	HOLDERS			
	PERISCOPES			
	RANGEFINDERS			
	REFLECTORS			
	SIGHTS			
	TELESCOPES			
	VIEWING INSTRUMENTS			
#OP 434	Elementary Optics Theory and Calculations	July 1914	R	
OP 463	Optical Repair Data	July 1942	R	1st rev. See remarks for OP 463 in Part 1
OP 482	Turret Sight Optical Instruments	26 Apr 44	R	3rd rev. OP 482 Superseded by OPs 345, 345A, and 345B
OP 556	Stereoscopic Vision Principles of	Apr 1934	R	Supersedes OD 992
OP 583	Rangefinder Mk 37 and Mods 1 to 4, Description Optical Equipment	Oct 1941	R	
OP 588	Stereoscopic Training Instrument Mk 2	Dec 1935	R	With Addenda "A" and "B" Will be superseded by OP 1009
OP 744	Optical Equipment, Rangefinder Mk 44 and Mk 44 Mod 1 (Aircraft)	Jan 1941	R	Supersedes OD 3745. With Change 1 dated 6 Mar 44
OP 779	Viewing Instruments Mk 3 Description	Sep 1941	R	
OP 971	Optical Equipment, Rangefinders Mk 45 Mods 1 and 2 (Preliminary)	Nov 1943	R	With Change 1 dated 14 Feb 45
OP 1171	Optical Equipment, Rangefinders Mk 58, 58 Mod 1, Mk 65 and 65 Mod 1 (Preliminary)	17 Apr 44	R	
OP 1393	Optical Equipment—Rangefinders Mk 48 Mods 0, 1, and 2 (Preliminary)	10 Jan 45	R	
*OP 1410	Elementary Optics			
*OP 1512	Optics Filing Units Mk 1 to 6			
OD 1200	Optical Instruments—Data Sheets (Four Volumes)	31 Oct 40	R	Rev B
OD 2682	Optical Alignment—Adjustment and Testing of Gun Directors Mk 33 and Mods	3 Feb 36	R	
OD 2847	Methods of Drying and Charging Optical Instruments	8 Feb 44	D	Rev G
*OD 2956	Lead Gaskets for Optical Instruments, Manufacture and Assembly			
OTI F1-44	Offset Wedge Attachment Mk 7 Mod 1 and Mk 8	7 Jan 44	R	
OTI F5-44	Exposed Optical Instruments Canvas Covers for Eyepieces	12 Apr 44	R	Issued with OD 4486 Rev A
OTI F10-44	Eyeguards for Optical Instruments—Ventilation of to Prevent Eyepiece Fogging	30 Jun 44	R	
OTI F22-44	Optical Instruments, Reflection Reducing Film, Removal of	27 Sep 44	R	Issued with OP 463. Supersedes OTI F8-44
OTI F27-44	Optical Instruments, Separation of Doublet Lenses Cemented by New Process	20 Nov 44	R	Supersedes OTI F11-44
OTI F1-45	Optical Instruments, Reflection Reducing Film Decalcomanias For	7 Feb 45	R	
OHI F2-45	Anti-Fog Compound 1-Y Request for Test and Report	16 May 45	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
ORDNANCE				
OP 1408.....	Ordnance Fitting Out Information.....	28 Dec 44	R	Rev A. Will be superseded by
*OP 1664.....	United States Ordnance.....		R	Rev B. Will be superseded by
OD 374.....	Classification of Ordnance Material.....			Rev B. Will be superseded by
Ordnance Equipment, Care of				
OP 1105.....	Ordnance Storage Instructions	15 Dec 45	R	1st rev. See remarks for OP 1105 in Part 1
OP 1125.....	Aviation Ordnance—Chemical Spraying Equipment.....	29 Sep 44	R	See remarks for OP 1125 in Part 1
OP 1208.....	Readiness and Care of Ordnance Equipment on Vessels in Inactive Status	19 Nov 45	D	1st rev
OD 3176.....	Ford Instrument Company Fire Control Equipment Exercising when in Storage (Preliminary)	Undated	R	Rev A, is incomplete, for advance information only
OD 3912.....	Director Control Mechanism for Gun Director Mk 27 Instructions for Care in Storage	Undated	D	Supplements OD 3901
OD 4486.....	Some Comments on the Operation and Maintenance of Ordnance Equipment	8 Dec 43	R	Rev A. Issued with OTI F5-44, Change 1 dated 23 Sep 44
SNL K-1 (ORD 5)	Cleaning, Preserving and Lubricating Materials, Recoil Fluids, Special Oils and Miscellaneous Related Items			War Dept publication
TB3-250-1S11	Theatre of Operations Surveillance Procedure for Low-Altitude Bombers in One-ton Containers	19 Apr 45	R	War Dept publication. See remarks for TB3-250-1S11 in Part 1
TB9-2835-9	Small Arms: General Instructions for Care, Preservation, and Lubrication		R	War Dept publication
TM3-250	Storage and Shipment of Dangerous Chemicals.....	5 Dec 40		Do
TM3-255	Chemical Handling and Loading Equipment.....	30 Oct 43	R	Issued with TB3-255-3. War Dept publication
TM9-850	Cleaning, Preserving, Sealing, Lubrication and Related Materials Issued for Ordnance Material	24 Aug 44		War Dept publication
TO 11-60AA-7	Special Care and Oiling of Type C-1 Autopilot Servo Motors	23 Nov 44	R	Do
Ordnance Equipment, Disposition of				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1177.....	Surface Pyrotechnics and Projectors.....	19 Jan 45	R	See remarks for OP 1177 in Part 1
OP 1515.....	Restricted and Unserviceable Ammunition.....	11 Jun 45	R	See remarks for OP 1515 in Part 1
SB9-AMM 4	Small-Arms Ammunition.....	1 Jan 45	D	War Dept publication
SNL P-11 (ORD 5)	Special Ammunition Surveillance, Testing, Inspection and Renovation Tools and Supplies			Do
Ordnance Equipment, Foreign				
OP 1507.....	Japanese Underwater Ordnance	20 Apr 45	R	
*OP 1665.....	British Ordnance		R	
*OP 1666.....	German Ordnance			
*OP 1667.....	Japanese Ordnance			
*OP 1668.....	Russian, French and Italian Ordnance.....			
*OP 1673.....	German Underwater Ordnance			
FM9-40	Unexploded Bombs, Organization and Operation for Disposal	20 Oct 43	D	War Dept publication

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Ordnance Equipment, Nomenclature				
*OP 1645.....	Dictionary of Naval Ordnance Terms.....		R	
OFSB 3-14.....	Ammunition Identification Code (AIC).....	1 Jan 43		War Dept publication
Ordnance Equipment, Painting of				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OD 4723.....	Periscopes Mk 23 and 24, Procedure followed at the Naval Gun Factory, Wash DC in Chemically Treating and Painting Parts	9 Jun 44	D	
Ordnance Equipment, Repair of				
OP 463.....	Optical Repair Data	Jul 1942	R	1st rev. See remarks for OP 463 in Part 1
SNL B-20 (ORD 6)	Tools Maintenance for Repair of Small and Hand Arms and Pyrotechnic Projectors			War Dept publication
Ordnance Equipment, Reports on				
OP 1177.....	Surface Pyrotechnics and Projectors.....	19 Jan 45	R	
OTI F19-44...	Gunsight Mark 14—Change in Characteristic Time Test Tolerances	16 Aug 44	R	
OD 5613.....	Test Sheets Ordnance Equipment CA 72.....		R	Do.
OD 5614.....	Test Sheet, Mounts and Turrets CL 67.....	Undated	R	For Design and Research use only. Not for Distribution
Ordnance Equipment, Salvage of				
OP 1610.....	Aviation Ordnance Equipment—Salvage and Overhaul Guide	14 Aug 45	R	See remarks for OP 1610 in Part 1
Ordnance Equipment, Storage of				
Form 00 7224..	Ordnance Safety Manual—Regulations Governing the Manufacture, Storage, Loading and Handling of Military Explosives and Ammunition at Establishments of the Ordnance Dept., U.S.A.	3 May 45	D	War Dept publication. Supercedes all previous editions
Ordnance Equipment, Transportation of				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1150.....	Instructions for Loading of and Transporting of 12" to 16" Guns by Rail	26 Jul 44	R	
ORDNANCE EQUIPMENT LISTS, See EQUIPMENT LISTS, ORDNANCE OVENS				
#OP 4.....	Ammunition—Instructions for the Naval Service Afloat	4 May 43	R	Revised. See remarks for OP 4 in Part 1
OD 4512.....	Report of Temperature Tests on Powder Surveillance Oven Mk 5	8 Dec 42	R	
OD 4598.....	Surveillance Ovens Mk 5 and Mk 5 Mod 1—Description and Operation Instructions	30 Apr 43	D	Rev A
OVERHAUL				
See also EQUIPMENT BY SUBJECTS				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1610.....	Aviation Ordnance Equipment—Salvage and Overhaul Guide	14 Aug 45	R	See remarks for OP 1610 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
OVERHAUL				
OP 1284.....	Instructions for the Overhaul, Inspection and Test of Gun, Browning Aircraft Machine Cal .50 AN-M2	Dec 1944	R	For Shop use only. Not issued to the Fleet
*OP 1316B....	Bombsight Mk 23, Overhaul Manual.....		R	See remarks for OD 4369, in Part 1
OD 4369	Gun Sight Mk 14 Mods 2, 3, 4, 9, 10, and 11 (Overhaul Manual) (Preliminary)	26 Apr 44	R	See remarks for OD 4369, in Part 1
OD 4369 (Part 1)				
OD 4369 (Part 2)	Gun Sight Mk 14 Mods 6, 7, 8, 12, 13, and 14 (Overhaul Manual) (Preliminary)	15 Dec 44	R	Do
PACKING				
SNL T-5 (Ord 11)	Packing Materials used by Field Service for Small-Arms Service Ammunition			War Dept publication
PACKS				
OP 954.....	Mine AN-Mk 26 Mod 1—Description and Instructions for Assembling, Handling and Planting (Aircraft) (Parachute Pack)	11 Dec 43	R	See remarks for OP 954 in Part 1
PADS				
OP 1419.....	Elastic Gas Check Pads, Installation and Maintenance (Preliminary)	16 Apr 45	R	
OP 1219M....	Ammunition Code Catalog—Class M—Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
PAINTS, See				
GRENADES				
HELMETS				
ORDNANCE EQUIPMENT, PAINTING OF				
PANELS				
See also	CONTROL PANELS			
	TEST PANELS			
*OP 1653.....	Description of Gun Director Mk 43 (Stable Vertical and Stable Vertical Control Panel Mk 9) BBs 57-60		R	
OP 1001.....	Projectors Mk 10 and Mk 10 Mod 1 and Mk 11 and Ammunition Description and Instructions for Use (Firing Panel Mks 1 and 1 Mod 1)	25 Jul 44	R	1st rev. With Change 1 dated 24 Oct 44. Supersedes OCLs A113-43, G12-44
OP 1131.....	4.5 Rocket Launcher Mk 7 (Experimental)—Description and Instructions for Use (Firing Panels Mks 9, 11 Mod 1, 16 Mod 1, and 19 Mod 0)	17 Jul 44	R	See remarks for OP 1131 in Part 1
OTI G13-44...	Firing Panel Mark 11 Mod 1 Installation and Test of Electrical Wiring	14 Jul 44	R	
OP 1558.....	Rocket Launcher Mk 26 Mod 0, Description and Instructions for Use (Firing Panel Mk 12 Mod 2)	28 Jun 45	R	Used with OP 1443
OP 1246.....	Rocket Launcher Mk 51 Mod 0, Description and Instructions for Use (Firing Panels Mk 12, Mods 1 and 2, Mk 13 Mod 0, Mk 14 Mods 0 and 1, Mk 16 Mod 1, Mk 18 Mod 0, and Mk 19 Mod 0)	18 Jun 45	R	Supersedes OCL G15-45. Used with OP 1260
OP 1244.....	Rocket Launcher Mk 50 Mods 0 and 1—Description and Instructions for Use (Firing Panel Mk 13 Mods 1 and 2)	26 Oct 45	R	2nd rev. See remarks for OP 1244 in Part 1
OP 1318.....	Rocket Launcher Mk 36 Mod 0 Description and Instructions for Use (Preliminary)	14 Nov 44	R	
OP 1424.....	Rocket Launcher Assembly Mk 102 Mod 0, Description and Instructions for Use (Firing Panel Mk 20 Mod 0)	20 Sep 45	R	1st rev.

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
PARACHUTES				
OP 1118.....	Instructions for Installation of Mines in Aircraft (Parachutes Mks 1 and 5)	28 Jan 44	R	See remarks for OP 1118 in Part 1
TB9-1980-41	Antiricochet Device M16 and M17	22 Feb 45	R	War Dept publication. Issued with TM9-1980-0155
TB9-1980-45	Conversion Kit for Converting 20-lb Fragmentation Bombs AN-M41 to Parachute Type Bomb for Single Suspension or for Use in Cluster AN-M41A1	26 Mar 45	R	War Dept publication. See remarks for TB9-1980-45 in Part 1
PARALLAX DATA, See DATA, PARALLAX				
PERISCOPES				
#OP 416.....	Periscopes for Turrets, Torpedo Directors and Fire Control	Undated	R	
#OP 416A.....	Periscopes for Turrets, Torpedo Director and Fire Control		R	
*OP 1287.....	Periscopes for Submarine Attacker Teacher Mk 2		R	
OP 482.....	Turret, Sight, Optical Instruments (6" to 16")	26 Apr 44	R	3rd rev. OP 482 superseded OPs 345, 345A and 345B
OP 495.....	Periscopes Mks 15, 16, 17, 18, 19 (Fire Control)	Mar 1924	R	Will be superseded by revised OPs 416 and 416A
*OD 4432.....	Periscope Mk 20		R	
OP 980.....	Periscope Mk 20 Mod 6	29 Jun 43	R	
OD 4723.....	Periscopes Mks 23 and 24, Procedure followed at the Naval Gun Factory, Wash, DC in Chemically Treating and Painting Parts	9 Jun 44	D	
*OP 1311.....	Periscopes Mk 27		R	
OP 1338.....	Periscopes Mk 28 Mods 0 and 1, Mk 29 Mods 0, 1, 2, Mk 30 Mods 0, 1, 2, Mk 31 Mods 0 and 1 (Preliminary)	14 May 45	R	
*OD 4612.....	Periscope Mk 29 Mod 2 Instructions for Use, Assembly, Lubrication, Upkeep and Overhaul		R	
*OD 4613.....	Periscope Mk 30 Mod 1 Instructions for Use, Assembly, Lubrication, Upkeep and Overhaul		R	
*OD 4614.....	Periscope Mk 31 Mod 1 Instructions for Use, Assembly, Lubrication, Upkeep and Overhaul		R	
OP 812.....	Gun Director Mk 40 BBs 55-66 (Preliminary) Description	Apr 1943	R	1st rev
OP 1122.....	Gun Director Mk 55 Mod 0 (Periscope Mk 34 Mod 0)	30 Jul 45	R	
*OD 4609.....	Periscope Mk 68 Instruction for Use, Assembly, Lubrication and Upkeep and Overhaul		R	
PERSONNEL				
OP 5.....	Ammunition Ashore Vol 1	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
PHOTOGRAPHIC				
OP 1542.....	Underwater Photographic Assembly No. 2	3 Mar 45	R	
PHOTOS, NPG				
No. 21726.....	Erosion Data 8"/55 Caliber Mks 12-1, 14, 14-1 and 15 Small Chamber 1/25 Twist, Target Practice Velocity, 2,300 fs 260 lb Projectiles Velocity Loss vs Enlargement at Origin			Available only as part of OP 1186, OP 1229, OP 1041, 1st Rev

*Under preparation. §Under revision.

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
PHOTOS, NPC				
No. 22209.....	14"/45 Cal Erosion Data Mks 8, 9, 10, 12 and Mods Large Chamber Guns Service Velocity 2600 fs 1500 lb Projectile Velocity Loss vs Enlargement at Origin			Available only as part of OPs 1553 and 1555
No. 22210.....	14"/45 Cal Erosion Data Mks 8, 9, 10, 12—Large Chamber Guns, Target Practice Velocity 1935 fs 1500 lb Projectiles—Velocity Loss vs Enlargement at Origin			Available only as part of OPs 1554 and 1556
No. 22211.....	14"/45 Cal Erosion Data Mks 8, 9, 10, 12 and Mods, Large Chamber Guns Service Charge for 1500 lb Projectile 1275 HC Projectiles Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 923 1st Rev, dated 28 Feb 45
No. 22212.....	14"/45 Caliber Erosion Data Mks 8, 9, 10, 12 and Mods Large Chamber Guns Target Practice Velocity 2,000 f/s 1275 lb HC Projectiles Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 964
No. 22213.....	14"/45 Cal Wear Curve Mks 8, 9, 10, 12 and Mods—Large Chamber Guns—Equivalent Service Rounds vs Enlargement at Origin			Available only as Change 1 to OP 923 (1st Rev) dated 28 Feb 45; Change 1 to OP 964 dated 3 Mar 45; OPs 1553, 1555, 1554, 1556 and 1544
No. 23285.....	3"/50 Caliber Wear Curve (Applies to All 3"/50 Caliber Guns with Nominal Velocity of 2,700 f/s) Bore Enlargement at Origin vs Equivalent Service Rounds			Available only as Change 1 to OP 861 1st Rev, dated 11 Jan 45
No. 23435.....	Erosion Data 16"/45 Caliber Guns Mks 6 and 8 Service Charge for 2700 lb Projectiles (2,300 f/s) 2700 lb Projectiles Velocity Loss vs Enlargement at Origin			Available only as Change 2 to OP 757 dated 24 Feb 45
No. 23436.....	Erosion Data 16"/45 Caliber Guns Mks 6 and 8 Target Practice Charge 1,800 f/s 2700 lb Projectiles Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 758 dated 24 Feb 45
No. 23437.....	Erosion Data 16"/45 Cal Guns Mks 6 and 8—Service Charge for 2240 lb Projectiles 2520 fs 2240 lb Projectiles Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 750 dated 24 Feb 45
No. 23438.....	Tentative Erosion Data 16"/45 Cal Guns Mks 6 and 8, Target Practice Charge 1935 fs 2240 lb Projectile—Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 751 dated 24 Feb 45; Change 2 to OP 751 dated 26 Jul 45
No. 23439.....	Erosion Data 16"/45 Caliber Guns Mks 6 and 8 Service Charge for 2700 lb Projectiles (2,525 f/s) 1900 lb Projectiles Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 922 1st Rev, dated 24 Feb 45
No. 23440.....	Erosion Data 16"/45 Caliber Guns Mks 6 and 8 Service Charge for 2240 lb Projectiles 2,635 f/s 1900 lb Projectiles Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 921 1st rev, dated 28 Feb 45
No. 23442.....	Wear Curve 16"/45 Cal Guns Mks 6 and 8—Bore Enlargement at Origin vs Equivalent Service Rounds			Available only as parts of OPs 969 (2nd rev); 970 (2nd rev); Change 2 to OP 757 dated 24 Feb 45; Change 1 to OP 758 dated 24 Feb 45; Change 1 to OP 921 (1st rev) dated 28 Feb 45; OP 1543
No. 24047.....	Tentative Erosion Data, 16"/45 Caliber Guns Mks 6 and 8 Reduced Velocity 2,000 f/s 1900 lb Projectiles Velocity Loss vs Enlargement at Origin			Available only as part of OP 969 2nd rev

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
PHOTOS, NPC				
No. 24054.....	14"/50 Cal Erosion Data Mk 11—Service Charge for 1500 lb Projectile—2700 fs 1500 lb Projectiles—Velocity Loss vs Enlargement at Origin	1468 (1st rev)	Available only as part of OP	
No. 24055.....	14"/50 Cal Erosion Data Mk 11, Target Practice Velocity 1935 fs, 1500 lb Projectiles—Velocity Loss vs Enlargement at Origin	1467 (1st rev)	Available only as part of OP	
No. 24056.....	14"/50 Caliber Erosion Data Mk 11 Service Charge for 1500 lb Projectile 2,825 f/s 1275 lb HC Projectiles—Velocity Loss vs Enlargement at Origin	924 1st rev	Available only as Change 1 to	
No. 24057.....	Tentative Erosion Data 14"/50 Caliber Mk 11 Reduced Velocity 2,000 f/s 1275 lb HC Projectiles Velocity Loss vs Enlargement at Origin	964	Available only as Change 1 to	
No. 24058.....	14"/50 Cal Wear Curve Mk 11, Bore Enlargement at Origin vs Equivalent Service Rounds	924 (1st rev) Change 1; 964 Change 1; 1467 (1st rev); 1468 (1st rev) and 1544	Available only as OPs	
No. 24062.....	14"/50 Cal Erosion Data Mk 7—Service Charge for 1500 lb Projectile 2700 fs, 1500 lb Projectiles—Velocity Loss vs Enlargement at Origin	1468 (1st rev)	Available only as part of OP	
No. 24063.....	Tentative Erosion Data 14"/50 Cal Guns Mk 7, Target Practice Velocity 1935 fs, 1500 lb Projectiles—Velocity Loss vs Enlargement at Origin	1467 (1st rev)	Available only as OP	
No. 24064.....	14"/50 Cal Erosion Data Mk 7, Service Charge for 1500 lb Projectile 2825 fs, 1275 lb HC Projectiles—Velocity Loss vs Enlargement at Origin	924 (1st rev) and 1416 (1st rev)	Available only as Changes 1 to OP	
No. 24065.....	Tentative Erosion Data 14"/50 Caliber Guns Mk 7 Reduced Velocity 2,000 f/s 1275 HC Projectiles Velocity Loss vs Enlargement at Origin	964	Available only as Change 1 to	
No. 24066.....	14"/50 Cal Wear Curve Mk 7—Bore Enlargement at Origin vs Equivalent Service Rounds	924 (1st rev) Change 1; 964 (1st rev) Change 1; 1467 (1st rev) and 1544	Available only as OPs	
No. 24079.....	Tentative Erosion Data 16"/50 Caliber Guns Mk 7 Service Charge for 2700 lb Projectile, 2,500 f/s 2700 lb Projectiles Velocity Loss vs Enlargement at Origin	770 dated 24 Feb 45	Available only as Change 2 to	
No. 24080.....	Tentative Erosion Data, 16"/50 Cal Guns Mk 7, Target Practice Charge, 1800 fs, 2700 lb Projectiles—Velocity Loss vs Enlargement at Origin	758 dated 24 Feb 45; Change 2 to OP 758 dated 26 Jul 45	Available only as Change 1 to	
No. 24081.....	Tentative Erosion Data 16"/50 Caliber Guns Mk 7 Service Charge for 2700 lb Projectile 2,690 f/s 1900 lb HC Projectiles Velocity Loss vs Enlargement at Origin	1100 dated 24 Feb 45	Available only as Change 2 to	
No. 24082.....	Tentative Erosion Data 16"/50 Caliber Guns Mk 7 Reduced Velocity 1,900 f/s 1900 lb Projectiles Velocity Loss vs Enlargement at Origin	970 2nd rev	Available only as part of OP	
No. 24083.....	Tentative Wear Curve, 16"/50 Cal Guns Mk 7—Bore Enlargement at Origin vs Equivalent Service Rounds	970 (2nd rev); 758 Change 1; 770; Change 2; 1100 Change 2; and 1543	Available only as part of OPs	
No. 24801.....	Wear Curve 6"/47 Cal Guns Mk 16 and Mods, Bore Enlargement at Origin vs Equivalent Service Rounds	1429	Available only as part of OP	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
PHOTOS, NPC				
No. 24965.....	Erosion Data 4"/50 Caliber Guns Mk 9 Mods 5 to 24, 33 lb Projectiles Mk 6 Mods 6 and 10 Velocity Loss vs Enlargement at Origin			Available only as OP 1225 and OP 1224
No. 24966.....	Erosion Data 4"/50 Caliber Guns Mk 9 Mods 5 to 24 Service Charge for 33 lb Projectile 33 lb Projectile Mk 15 and 16 Velocity Loss vs Enlargement at Origin			Available only as OP 1225 and OP 1224
No. 24967.....	Erosion Data 4"/50 Caliber Guns Mk 7 and 9 Target Practice Charge for 33 lb Projectile in Mk 9 Guns or Service Charge for 33 lb Projectile in Mk 7 Guns 33 lb Projectiles Mk 6 and 10 Velocity Loss vs Enlargement at Origin			
No. 24968.....	Erosion Data 4"/50 Caliber Guns Mk 9 Mods 5 to 24 Target Practice Charge for 33 lb Projectiles 33 lb Projectiles Mk 15 and 16 Velocity Loss vs Enlargement at Origin			
No. 24969.....	Wear Curve 4"/50 Caliber Guns Mk 7 and 9 Bore Enlargement at Origin vs Equivalent Service Rounds			Available only as OP 1225 and OP 1224
No. 25349.....	Erosion Data 6"/53 Caliber Guns Mk 12, 14 and 18 Service Charge 3,000 f/s 105 lb Projectile Mk 27, 29, 30 and 34 Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 1026 dated 11 Aug 44, Change 2 to OP 112 dated 14 Feb 45
No. 25350.....	Erosion Data 6"/53 Caliber Guns Mk 12, 14 and 18 Service Charge 3,000 f/s 105 lb Projectiles Mk 20, 24 and 25 Velocity Loss vs Enlargement at Origin			Available only as Change 2 to OP 112 dated 14 Feb 45
No. 25351.....	Erosion Data 6"/53 Caliber Guns Mk 12, 14 and 18 Target Practice Charge 2,300 f/s 105 lb Projectiles Mk 27, 29, 30 and 34 Velocity Loss vs Enlargement at Origin			Available only as Change 2 to OP 116 dated 14 Feb 45
No. 25352.....	Erosion Data 6"/53 Caliber Guns Mk 12, 14 and 18 Target Practice Charge 2,300 f/s 105 lb Projectiles Mk 20, 24 and 25 Velocity Loss vs Enlargement at Origin			Available only as Change 2 to OP 116 dated 14 Feb 45
No. 25353.....	Wear Curve 6"/53 Caliber Guns Mk 12 and 14 Enlargement at Origin vs Equivalent Service Rounds			Available only as Change 1 to OP 1026 dated 11 Aug 44, Change 2 to OP 112 dated 14 Feb 45, Change 2 to OP 116 dated 14 Feb 45
No. 25354.....	Wear Curve 6"/53 Caliber Guns Mk 18 Enlargement or Origin vs Equivalent Service Rounds			Available only as Change 1 to OP 1026 dated 11 Aug 44, Change 2 to OP 112 dated 14 Feb 45, Change 2 to OP 116 dated 14 Feb 45
No. 25467.....	Erosion Gauge Data 6"/47 Cal Guns Mk 16 Enlargement at Origin vs Erosion Gauge Readings (Erosion Gauge Drawing NGF No 250843)			Available only as part of OP 1429
No. 25615.....	Erosion Data 6"/47 Cal Guns Mk 16 Service Charge for 130 lb Projectile; 130 lb Projectiles Velocity Loss vs Enlargement at Origin			Available only as part of OP 1429
No. 25618.....	Erosion Data 6"/47 Cal Guns Mk 16, Service Charge for 130 lb Projectile; 105 lb Projectiles, Velocity Loss vs Enlargement at Origin			Supersedes NPG Photo No. 21168. Available only as Change 1 to OP 1008 dated 30 Dec 44

Subjects and
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PHOTOS, NPG

No. 25620..... Erosion Data—6"/47 Cal Guns Mk 16—Service Charge Supersedes NPG Photo No. 21165. Available only as part of OPs 830 (1st rev) Change 1, and 1429

No. 25621..... Erosion Data, 6"/47 Cal Guns Mk 16, Target Practice Supersedes NPG Photo No. 21166. Available only as Change 1 to OP 832 (1st rev) dated 27 Dec 44

No. 25798..... Erosion Data 6"/47 Cal Guns Mk 16, Service Charge Available only as part of OP 1429

No. 25832..... Velocity Loss Data Gun 6"/47 Caliber Mk 16: Projectiles Available only as Change 1 to OP 1008 dated 30 Dec 44

No. 25834..... Velocity Loss Data—Gun 6"/47 Cal Mk 16, Projectiles Available only as part of OPs 830 (1st rev) Change 1, and 1429

No. 25835..... Velocity Loss Data, Gun 6"/47 Caliber Mk 16 Projectiles Available only as part of Change 1 to OP 832 1st rev dated 27 Dec 44

No. 26953..... Wear Curve—5"/51 Cal Guns Mk 7, 8, 9—Bore En- Available only as part of OPs 1293, 1359, 1294, 1360, and 551 (1st rev)

No. 26954..... Wear Curve—5"/51 Cal Guns Mk 15, Bore Enlargement Available only as part of OPs 1293, 1359, 1294, 1360, and 551 (1st rev)

No. 26955..... Velocity Loss Data 5"/51 Caliber Guns Mk 7, 8, 9 and Available only as part of OP 1293, OP 1359. With Photo No 26953 Supersedes Photo No 4407. With Photo No 26954 Supersedes Photo No 6177A

No. 26956..... Velocity Loss Data—5"/51 Cal Guns, Mk 7, 8, 9, 15, ... With Photo No 26953, super- sedes Photo No 4369: With Photo No 26954, supersedes Photos Nos 6179A and 6180A: Available only as part of OPs 1294 and 1360

No. 27679..... Velocity Loss Data 5"/51 Cal Guns Mk 7, 8, 9 and 15, ... Available only as OP 551 (1st rev)

No. 27705..... Velocity Loss Data—5"/38 Cal Guns Mk 12 Mods 0 and Available only as part of OP 1285 (1st rev)

No. 27709..... Velocity Loss Data 5"/38 Caliber Guns Mk 12 Mods 0 Available only as part of OP 1372

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Subjects and Publication Numbers	Equipment	Number	Date	Class	Remarks
PHOTOS, NPG					
No. 27832.....	Wear Curve, 12"/50 Cal Guns Mk 8 and Mods, Bore Enlargement at Origin vs Equivalent Service Rounds	Available only as Change 1 to OP 789 dated 23 Jan 45; Change 1 to OP 1243 dated 23 Jan 45; Change 1 to OP 1241 dated 23 Jan 45; Change 1 to OP 1230 dated 19 Jun 45; and OP 1564			
No. 27833.....	Velocity Loss Data 12"/50 Caliber Guns Mk 8 and Mods Service Charge for 1140 lb Projectiles 1140 lb Projectiles Nominal Velocity 2,500 fs/ Velocity Loss vs Bore Enlargement at Origin	Available only as Change 1 to OP 789 dated 23 Jan 45			
No. 27834.....	Velocity Loss Data 12"/50 Caliber Guns Mk 8 and Mods Target Practice Charge for 1140 lb Projectile 1140 lb Projectile Nominal Velocity 1,800 fs Velocity Loss vs Bore Enlargement at Origin	Available only as Change 1 to OP 789 dated 23 Jan 45			
No. 27835.....	Velocity Loss Data 12"/50 Caliber Guns Mk 8 and Mods Service Charge for 1140 lb Projectiles 940 lb Projectiles Nominal Velocity 2,650 fs/ Velocity Loss vs Bore Enlargement at Origin	Available only as Change 1 to OP 1243 dated 23 Jan 45; Change 1 to OP 1241 dated 23 Jan 45			
No. 28151.....	Velocity Loss Data (Tentative)—16"/45 Cal Guns Mk 6 and 8—1900 lb Projectiles, Reduced Velocity 1900 fs for SPD and SPDW Powder Indexes ONLY—Velocity vs Bore Enlargement at Origin	Available only as part of OP 1429			
No. 28153.....	Velocity Loss Data (Tentative)—16"/45 Cal Guns Mk 6 and 8—1900 lb Projectiles, Reduced Velocity 1900 fs for SPD and SPDW Powder Indexes ONLY—Velocity Loss vs Bore Enlargement at Origin	Supersedes NPG Photo No 23441. Available only as part of OPs 970 (2nd rev) Change 1; and 1429			
No. 28154.....	Velocity Loss Data, 16"/45 Cal Guns Mk 6, 8 and their Mods, 1900 lb Projectiles, Reduced Velocity 1900 fs, SPDW Powder Indexes ONLY, Velocity Loss vs Bore Enlargement at Origin	Available only as Change 1 to OP 970 (2nd rev) dated 27 Jul 45			
No. 28181.....	Erosion Data 6"/47 Cal Guns Mk 16, Service Charge for 130 lb Projectile; 130 lb Projectiles Mk 35, 36 and 37, Velocity Loss vs Equivalent Service Rounds	Available only as part of OP 1429			
No. 28189.....	Velocity Loss Data (Tentative) 16"/45 Cal Guns Mk 6 and 8, 1900 lb Projectiles, Reduced Velocity 2000 fs, SPD and SPDW Powder Indexes ONLY, Velocity Loss vs Enlargement at Origin	Available only as Change 1 to OP 969 (2nd rev) dated 27 Jul 45			
No. 28190.....	Velocity Loss Data, 16"/45 Cal Guns Mk 6, 8 and their Mods, 1900 lb Projectiles, Reduced Velocity 2000 fs, SPDW Powder Indexes ONLY, Velocity Loss vs Bore Enlargement at Origin	Available only as Change 1 to OP 969 (2nd rev) dated 27 Jul 45			
No. 28415.....	3"/50 Caliber Erosion Data Mk 23, 27 and 29 Projectiles Velocity Loss vs Enlargement at Origin	Available only as Change 1 to OP 861, 1st Rev dated 11 Jan 45			
No. 28663.....	Velocity Loss Data (Tentative) 12"/50 Cal Guns Mk 7 and Mods, Service Charge for 870 lb and 740 lb Projectiles, 870 lb Projectiles Nominal Velocity, 2900 fs Velocity Loss vs Enlargement at Origin	With Photo No 28667 supersedes Photo No 2798. Available only as Change 1 to OP 168 dated 7 Feb 45			

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PHOTOS, NPG				
No. 28664.....	Velocity Loss Data (Tentative) 12"/50 Caliber Guns Mk 7 and Mods Reduced Charge for 870 lb and 740 lb Projectiles, 870 lb Projectiles Nominal Velocity 2,100 fs. For use only with Powders having charge weights between 210 lbs and 250 lbs Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 169 dated 7 Feb 45. This photo with Photo No 28667 Supersedes Photo No 6075
No. 28665.....	Velocity Loss Data (Tentative) 12"/50 Caliber Guns Mk 7 and Mods Service Charge for 870 lb and 740 lb Projectiles 740 lb Projectiles Nominal Velocity Loss vs Enlargement at Origin			Available only as Change 1 to OP 1281 dated 7 Feb 45
No. 28667.....	Wear Curve 12"/50 Caliber Guns Mk 7 and Mods Enlargement at Origin vs Equivalent Service Rounds			Available only as Change 1 to OP 1281 dated 7 Feb 45, Change 1 to OP 168 dated 7 Feb 45, Change 1 to OP 169 dated 7 Feb 45
No. 28718.....	Wear Curve, 5"/38 Cal Guns Mk 12 and Mods Enlargement at Origin vs Equivalent Service Rounds			Supersedes Photo No 23266 Available only as part of OPs 551 (1st rev) Change 1, and 1285 (1st rev)
No. 28719.....	Velocity Loss Data, 5"/38 Cal Gun Mk 12 and Mods, 55.18 lb Projectiles Mks 35 and 38, Service Velocity 2600 fs, To be used with SPD, SPDB and SPDW Powder Indexes ONLY, Velocity Loss vs Enlargement at Origin			With Photos Nos 28720 and 28721 supersedes Photo No 23264. Available only as Change 1 to OP 551 (1st rev) dated 2 Jun 45
No. 28719A...	Instructions for Use of NPG Photo No. 28719			Available only as Change 1 to OP 551 (1st rev) dated 2 Jun 45
No. 28720.....	Velocity Loss Data 5"/38 Cal Guns Mk 12 and Mods, 55.18 lb Projectiles Mks 35 and 38, Service Velocity 2600 fs, To be used with SPDN Powder Indexes ONLY, Velocity Loss vs Enlargement at Origin			With Photos Nos 28719 and 28721 supersedes Photo No 23264. Available only as Change 1 to OP 551 (1st rev) dated 2 Jun 45
No. 28720A...	Instructions for Use of NPG Photo No 28720			Available only as Change 1 to OP 551 (1st rev) dated 2 Jun 45
No. 28721.....	Velocity Loss Data (Tentative) 5"/38 Cal Guns Mk 12 and Mods, 55.18 lb Projectiles Mks 35 and 38, Nominal Velocity 2600 fs, To be used with SPDW Powder Indexes ONLY, Velocity Loss vs Enlargement at Origin			With Photos Nos 28719 and 28720 supersedes Photo No 23264. Available only as Change 1 to OP 551 (1st rev) dated 2 Jun 45
No. 28722.....	Velocity Loss Data, 5"/38 Cal Guns Mk 12 and Mods, 55.18 lb Projectiles Mks 35 and 38, Service Velocity 2600 fs, To be used with SPD, SPDB and SPDW Powder Indexes ONLY Velocity Loss vs Erosion Gauge (Mk 2 Mod 0) Reading			Available only as Change 1 to OP 551 (1st rev) dated 2 Jun 45
No. 28722A...	Instructions for use of NPG Photo No 28722			Available only as Change 1 to OP 551 (1st rev) dated 2 Jun 45
No. 28723.....	Velocity Loss Data, 5"/38 Cal Guns Mk 12 and Mods, 55.18 lb Projectiles Mks 35 and 38, Service Velocity 2600 fs, To be used with SPDN Powder Indexes ONLY, Velocity Loss vs Erosion Gauge (Mk 2 Mod 0) Reading			Available only as Change 1 to OP 551 (1st rev) dated 2 Jun 45

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
PHOTOS, NPC				
No. 28723A...	Instructions for use of NPG Photo No 28723	Available only as Change 1 to		
No. 28724...	Velocity Loss Data (Tentative) 5"/38 Cal Guns Mk 12 and Mods, 55.18 lb Projectiles Mk 35 and 38, Nominal Velocity 2600 fs, To be used with SPDF Powder	Available only as Change 1 to		
No. 28742...	Velocity Loss Data, 12"/50 Cal Guns Mk 8 and Mods, 940 lb Projectiles Reduced Velocity 1850 fs, To be used with SPD and SPDW Powder	Available only as Change 1 to		
No. 29119...	Velocity Loss Data, 40-mm/60 Cal Guns Mk 1 Mod 0, Projectiles Mk 2 (1985 lbs with Tracer Mk 11)	Supersedes Photo No 26045. Available only as part of		
No. 29126...	Wear Curve, (Tentative)—(Based on One Gun)—5"/25 Cal Guns Mk 17 and Mods—Bore Enlargement at Origin vs Equivalent Service Rounds	Available only as part of OP		
No. 29130...	Wear Curve—5"/25 Cal Guns Mk 13 Mod 0 and Mk 11 Mods 9 and 10—Bore Enlargement at Origin vs Equivalent Service Rounds	Available only as OP 1205		
No. 29131...	Velocity Loss Data—5"/25 Cal Guns Mk 13 Mod 0 and Mk 11 Mods 9 and 10—53.85 lb Projectiles Mk 36—Nominal Velocity 2110 fs—Velocity Loss vs Bore Enlargement at Origin	Available only as OP 1205		
No. 29900...	Wear Curve—8"/55 Cal Guns Mk 12 Mod 1, 14 and Mods, 15 and Mods, Bore Enlargement at Origin Equivalent Service Rounds	Supersedes Photo No 21730. Available only as Change 1		
No. 29901...	Velocity Loss Data, 8"/55 Cal Guns Mk 12 Mod 1, 14 and Mods, 15 and Mods, Service Charge for 335 lb Projectiles, 335 lb Projectiles, Nominal Velocity 2500 fs, Velocity Loss vs Enlargement at Origin	Supersedes Photo No 21728. Available only as Change 2		
No. 29902...	Velocity Loss Data (Tentative) 8"/55 Cal Guns Mk 12 Mod 1, 14 and Mods, 15 and Mods, 335 lb Projectiles, Nominal Velocity 2000 fs, Velocity Loss vs Bore Enlargement at Origin	Supersedes Photo No 21729. Available only as Change 2		
No. 29903...	Velocity Loss Data (Tentative) 8"/55 Cal Guns Mk 12 Mod 1, 14 and Mods, 15 and Mods, 260 lb Projectiles, Nominal Velocity 2220 fs, Velocity Loss vs Bore Enlargement at Origin	Available only as Change 1 to		
No. 30219...	Velocity Loss Data, 8"/55 Cal Guns Mk 12 Mod 1, 14 and Mods, 15 and Mods, Service Charge for 260 lb Projectiles, 260 lb Projectiles, Nominal Velocity 2800 fs, Velocity Loss vs Bore Enlargement at Origin	Supersedes Photo No 21725. Available only as Change 1		
No. 30220...	Velocity Loss Data, 8"/55 Cal Guns Mk 12 Mod 1, 14 and Mods, 15 and Mods, Service Charge for 335 lb Projectiles, 260 lb Projectiles, Nominal Velocity 2700 fs, Velocity Loss vs Bore Enlargement at Origin	Supersedes Photo No 21727. Available only as Change 1		

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PHOTOS, NPG				
No. 30446.....	Velocity Loss Data—5"/38 Cal Guns Mk 12 Mod 1—54 lb Projectiles Mk 35—Nominal Velocity 1200 fs—Velocity Loss vs Bore Enlargement at Origin			Supersedes Photo No 27707. Available only as OP 1285 (1st rev)
No. 30887.....	Velocity Loss Data (Tentative) 16"/45 Cal Guns Mk 6, 8 and their Mods, 2700 lb Projectiles, Reduced Charge, Nominal Velocity 1800 fs, Velocity Loss vs Bore Enlargement at Origin, For use ONLY with Powder Charge from Tanks Marked "IV 2075 fs, 1900 lb Projectile 1800 fs 2700 lb Projectile"			Available only as Change 2 to OP 758 dated 26 Jul 45
No. 30888.....	Velocity Loss Data (Tentative) 16"/45 Cal Guns Mk 6, 8 and their Mods, 2240 lb Projectiles, Reduced Charges Nominal Velocity 1935 fs, Velocity Loss vs Bore Enlargement at Origin, For use ONLY with Powder Charges from Tanks Marked "IV 2075 fs 1900 lb Projectile and 1935 fs 2240 lb Projectile"			Available only as Change 2 to OP 751 dated 26 Jul 45
No. 30889.....	Velocity Loss Data (Tentative) 16"/45 Cal Guns Mk 6, 8 and their Mods, 1900 lb Projectiles, Reduced Charge, Nominal Velocity 2075 fs, Velocity Loss vs Bore Enlargement at Origin			Available only as part of OP 1543
No. 30946.....	Velocity Loss Data (Tentative) 12"/50 Cal Guns Mk 8 and Mods, 940 lb Projectiles, Reduced Charges Nominal Velocity 1965 fs Velocity Loss vs Bore Enlargement at Origin			Available only as part of OP 1564
No. 31019.....	Velocity Loss Data (Tentative) 16"/50 Cal Guns Mk 7 Mod 0—2700 lb Projectiles, Reduced Charges, Nominal Velocity 1800 fs—Velocity Loss vs Bore Enlargement at Origin—For use ONLY with Powder Charges from Tanks Marked "IV 2075 fs 1900 lb Projectile 1800 fs 2700 lb Projectile"			Available only as OP 758 Change 2
No. 31020.....	Velocity Loss Data (Tentative) 16"/50 Cal Guns Mk 7 Mod 0, 1900 lb Projectiles, Reduced Charge, Nominal Velocity 2075 fs, Velocity Loss vs Bore Enlargement at Origin			Available only as part of OP 1543
No. 31040.....	Velocity Loss Data (Tentative) 14"/45 Cal Guns Mk 8, 10, 12 and their Mods—1500 lb Projectiles, Reduced Charge, Nominal Velocity 1935 fs—Velocity Loss vs Bore Enlargement at Origin			Available only as OPs 1554 and 1556
No. 31041.....	Velocity Loss Data (Tentative)—14"/45 Cal Guns Mk 8, 10, 12 and their Mods—1275 lb Projectiles—Reduced Charge—Nominal Velocity 2065 fs—Velocity Loss vs Bore Enlargement at Origin			Available only as part of OP 1544
No. 31044.....	Velocity Loss Data (Tentative) 14"/50 Cal Guns Mk 7 and Mods 1500 lb Projectiles, Reduced Charges, Nominal Velocity 1935 fs, Velocity Loss vs Enlargement at Origin			Available only as OP 1467 (1st rev)
No. 31045.....	Velocity Loss Data (Tentative) 14"/50 Cal Guns Mk 7 and Mods—1275 lb Projectiles—Reduced Charge—Nominal Velocity 2065 fs Velocity Loss vs Bore Enlargement at Origin			Available only as part of OP 1544
No. 31046.....	Velocity Loss Data (Tentative) 14"/50 Cal Guns Mk 11 and Mods, 1500 lb Projectiles, Reduced Charge, Nominal Velocity 1935 fs, Velocity Loss vs Bore Enlargement at Origin			Available only as OP 1467 (1st rev)

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PHOTOS, NPC				
No. 31047.....	Velocity Loss Data (Tentative) 14"/50 Cal Guns Mk 11 and Mods 1275 lb Projectiles—Reduced Charge—Nominal Velocity 2065 fs—Velocity Loss vs Bore Enlargement at Origin			Available only as part of OP 1544
No. 31056.....	Velocity Loss Data, 5"/38 Cal Guns Mk 12 and Mods, 54 lb Projectiles Mk 35, Nominal Velocity 1200 fs, Velocity Loss vs Erosion Gauge (Mk 2 Mod 0) Reading			Available only as part of OP 1285 (1st rev)
No. 31057.....	Velocity Loss Data, 5"/38 Cal Guns Mk 12 and Mods, 54 lb Projectiles Mk 35, Nominal Velocity 1200 fs, To be used ONLY with Indexes SPDN 2912, 2913 and 7370, Velocity Loss vs Erosion Gauge (Mk 2 Mod 0) Reading			Available only as part of OP 1285 (1st rev)
No. 31353.....	Velocity Loss Data (Tentative) (Based on One Gun)—5"/25 Cal Guns Mk 17 and Mods—53.85 lb Projectiles Mk 36—Nominal Velocity 2110 fs—Velocity Loss vs Bore Enlargement at Origin			Supersedes Photo No 29127. Available only as OP 1205 (1st rev)
No. 31583.....	Wear Curve—5"/25 Cal Guns Mk 11 Mods 0 to 8—Bore Enlargement at Origin vs Equivalent Service Rounds			Available only as OP 1205 (1st rev)
No. 31584.....	Velocity Loss Data—5"/25 Cal Guns Mk 11 Mods 0 to 8—53.85 lb Projectiles Mk 36, Nominal Velocity 2155 fs Velocity Loss vs Bore Enlargement at Origin			Available only as OP 1205 (1st rev)
No. 31773.....	Velocity Loss vs Bore Enlargement at Origin Data, Gun 6"/47 Cal Mk 16 Mod 0, Projectile 130 lb Charge, Reduced IV 2050 fs			Available only as part of OP 832
No. 31774.....	Velocity Loss vs Erosion Gauge (Mk 1) Reading, Gun 6"/47 Cal Mk 16 Mod 0 Projectile 130 lb Charge, Reduced IV 2050 fs			Available only as part of OP 832
No. 31775.....	Velocity Loss vs Bore Enlargement at Origin Data—(6"/47 Cal Gun Mk 16 Mod 0, 105 lb Projectile, Reduced Charge, IV 2225 fs)			Available only as part of OP 1366
No. 31776.....	Velocity Loss vs Erosion Gauge (Mk 1) Reading (6"/47 Cal Gun Mk 16 Mod 0, 105 lb Projectile, Reduced Charge, IV 2225 fs)			Available only as part of OP 1366
No. 32029.....	Wear Curve, 6"/47 Cal Guns Mk 16 Mod 0, Bore Enlargement at Origin vs Equivalent Service Rounds			Supersedes Photo No 24807. Available only as part of OPs 830, 832 and 1366
PILOTS				
OP 986.....	Auto Pilot Amplifier Test Set	Jun 1943	R 4	
TO AN 11-60	Handbook of Operation and Service Instructions Auto-matic Pilot Type C-1	25 Jun 43		War Dept publication
TO AN 11-60	Parts Catalog for Automatic Pilot Type C-1	15 Jul 44	R 4	Do
TO 11-60AA-7	Special Care and Oiling of Type C-1 Autopilot Servo Motors	23 Nov 44	R 4	Do
PISTOLS				
See also	AMMUNITION CARTRIDGES			
	GUNS, SMALL ARMS			
TM9-1295	Pistols and Revolvers	9 Nov 42		War Dept publication
SNL B-30	Pistol, Colt, Cal .22 Ace			Do

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
PISTOLS				
SNL B-32	Pistol, Automatic Cal .22 (High Standard) Model B and Model HD			Do
FM23-35	Automatic Pistol Caliber .45 M1911 and M1911A1	30 Apr 40		Do
SNL B-6	Pistol, Automatic Cal .45 M1911 and M1911A1			Do
OP 878	General Data on Navy, AN-Standard, Army and British Bombs (Depth Charge Pistol)	21 Sep 44	R	See remarks for OP 878 in Part 1
OP 1120	Care of Ammunition at Advanced Bases (Depth Charge Pistols)	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1219D	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1
OP 747	Depth Charges Mk 6, Mk 6 Mod 1, Mk 7, Mk 7 Mod 1, Operating and Maintenance Instructions (DC Pistols Mks 6 and 6 Mod 1)	22 Dec 43	R	1st rev. See remarks for OP 747 in Part 1
OP 866	Depth Charge Mk 9 and Modifications, Description and Instructions for Use (Depth Charge Pistol Mks 6 and 6 Mod 1, Mk 7 Mod 1)	12 Feb 44	R	1st rev. With Change 1 dated 11 Aug 44 and OCL M5-43
OTI M12-43	Depth Charge Pistol and Booster Extender Mechanism Mk 6 and Mk 6 Mod 1	8 Dec 43	R	
OTI M2-44	Depth Charge Pistol and Booster Extender Mechanism Mk 6 and Mk 6 Mod 1 Maintenance Procedure for	24 Mar 44	R	Issued with OP 747 1st rev
OTI M10-44	Depth Charge Pistol and Booster Extender Mechanism Mk 6 Mod 2 Acceptance Test and Inspection	1 Sep 44	R	Issued with OP 747 1st rev
OHI M2-44	Installation of Depth Charge Pistol Mk 7 Mod 1 in Depth Charge Mk 8	12 May 44	D	
OP 662A	Depth Charge Mk 8—Description and Instructions for Use (DC Pistol Mk 7 Mods 1 and 3)	Oct 1943	R	Formerly Registered Conf.
OP 908	Mk 10 Depth Charge Description and Instructions for Use	Aug 1943	R	
OP 878	General Data on Navy, AN-Standard, Army and British Bombs (British Pyrotechnic Pistols)	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1
OP 1177	Surface Pyrotechnics and Projectors (Pyrotechnic Pistols)	19 Jan 45	R	See remarks for OP 1177 in Part 1
OP 1219B	Ammunition Code Catalog, Class B, Pyrotechnics	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
SNL B-33	Pistol, Pyrotechnic AN-M8 with Mount, Pyrotechnic Pistol M1			War Dept publication
OP 865	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
TO 11-15-14	Type AN-M8 Pyrotechnic Pistol	21 Jan 43	R	War Dept publication
OP 888	Mines Mk 6 and Mods, Description and Instructions for Assembling, Handling and Planting (Release Pistol Mk 3)	13 Feb 45	R	1st rev. See remarks for OP 888 in Part 1
PLASTICS				
OD 2910	Instructions for Handling Plastic, Transparent, Flame Resisting Sheet Used for Windows in Fire Control Instruments and Director Shields	21 May 41	D	Rev B
PLATES, CAM				
OD 784	5"/25 AA Gun Mount Mk 19 and Mods—Firing Stop Mechanism, Cam Plate, Manufacturing and Installation	4 Jan 41	D	Rev C. Change 2 dated 24 Oct 45 supersedes Change 1

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PLATES, CAM				
OD 2071.....	Manufacture and Installation of the Firing Stop Mechanism, Cam Plate—Also Synchronizing the Firing Stop Mechanism for Electric and Percussion Firing for 5"/38 Cal AA Gun Mounts Mk 21, 21 Mods 1 and 2, 30, 30 Mods 1 to 11 Incl.	8 Sep 43	D	Rev F. Change 2 dated 26 Oct 45 supersedes Change 1
OD 3486.....	Manufacture and Installation of the Firing Stop Mechanism Cam Plate—Also Synchronizing of the Firing Stop Mechanism for Electric and Percussion Firing for 5"/38 Cal AA Gun Mounts Mk 28, 28 Mod 1, 29, 31 and 32	8 Sep 43	D	Rev B. With Change 1 dated 27 Aug 45, Change 2 dated 30 Oct 45
OP 865.....	Aviation Ordnance Equipment Catalog (Reflecting Plates)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
PLATFORMS				
OP 996.....	Portable Platform Mk 1 for 20-mm Guns.....	Jun 1943	D	
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries—38 Cal, DP, Single, Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48 and 49 (Platform Mk 3 Mods 2 to 5, 4 Mods 4 to 6)	11 Apr 44	R	See remarks for OP 1013 in Part 1
OP 868.....	5"/38 Cal Single Mount Mk 37 (Platform Mk 7)	Feb 1943	R	See remarks for OP 868 in Part 1
OP 1264.....	Portable Platform Mk 2 Mod 0 (Preliminary).....	3 Feb 45	D	For 20-mm
OD 4500.....	Tilting Platform Mk 1 (Roll, Pitch and Train)—Instructions for Operation and Maintenance	5 May 43	R	
OD 4501.....	Tilting Platform Mk 1 Mod 1 (Roll Only)—Instructions for Operation and Maintenance	5 Feb 43	R	
PLOTTERS				
OP 1101.....	Attack Plotters Mk 1 Mods 1 and 2.....	Jan 1944	R	See remarks for OP 1101 in Part 1
OP 810.....	Fire Control Equipment Gun Director Mk 38 and Mk 38 Mods 1 and 5 with Associated Fire Control Equipment Description BBs 55-60 (Preliminary)	Oct 1942	R	1st rev
PLUGS				
OD 3661.....	Test 6" Cork Plug Assembled in Cartridge Case.....	2 Sep 41	D	
OP 1219M....	Ammunition Code Catalog—Class M—Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1219O....	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
POSTS, REAR MOUNTING				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OTI GV31-43.	Re-Staking of Retaining Ring on Mk 1 Trunnion Bolt Assembly and Mk 1 Rear Mounting Post Assembly of Early Manufacture	27 Sep 43	R	
OTI V24-43...	Rear Mounting Post Mk 1 for Cal .30 and .50 B&M Guns	15 Jun 43	R	
OTI V30-43...	Lock Washer for the Rear Mounting Post Mk 1.....	30 Jun 43	R	
OMI V29-44..	Rear Mounting Post Mk 1 and Mods Serrated Washer for Locking Horizontal Adjustment	21 Nov 44	D	
OMI VI6-45..	Boresight Locking Plate for Mk 4 Type Rear Mounting Post	6 Aug 45	R	

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POTS				
OP 1219C	Ammunition Code Catalog—Class C—Chemicals (Smoke and Tear Gas Pots)	1 Oct 44	R	See remarks for OP 1219C in Part 1
OP 1042	Ships Chemical Munitions—Description and Instructions for Use (Smoke Pots)	25 Sep 43	R	See remarks for OP 1042 in Part 1
OP 1511A	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	See remarks for OP 1511A in Part 1
TB3-300-1	HC Smoke Pot M5	27 May 44	R	War Dept publication
TB3-300-9	Supplementary Firing Instructions for Pot, Smoke, HC, M1 and Pot, Smoke, 30-Pound, HC, M5	May 1945	R	War Dept publication. See remarks for TB3-300-9 in Part 1
TB3-300-10 ..	Pot, Smoke, Floating, HC, M4A2	Jun 1945	R	War Dept publication. See remarks for TB3-300-10 in Part 1
POWDER				
See also AMMUNITION				
#OP 4	Ammunition—Instructions for the Naval Service Afloat	4 May 43	R	Rev. See remarks for OP 4 in Part 1
OP 5	Ammunition Ashore Vol 1	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1120	Care of Ammunition at Advanced Bases	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1219O	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
OP 1440	472 Mortar Assembly Mk 1 Mod 0	25 Apr 45	R	
OD 2792	5"/25 Powder Assignments	24 Oct 36	R	
OD 5297	Ammunition Assemblies	14 Jul 44	R	Rev A. See remarks for OD 5297 in Part 1
OD 5777	Flashless Powder Tests in Navy 16" Guns	20 Apr 45	C	
SB9-AMM 7 ..	Inspection of Propelling Charges and Bulk Powder	26 Sep 44	D	War Dept publication. See remarks for SB9-AMM 7 in Part 1
POWDER BAGS, See CONTAINERS AMMUNITION				
POWDER HOISTS, See HOISTS, POWDER				
POWDER PROOF DATA, See DATA, POWDER PROOF				
POWER DRIVES, See DRIVES, POWER				
HYDRAULIC POWER EQUIPMENT				
PREDICTORS				
OD 4645	Sight Angle and Fuze Predictor (INDIANAPOLIS Type) Description and Operation	11 Sep 43	R	
PRESERVATIVES				
OP 1485	Instructions for Application of Strippable Coating (Spray Type) (OS 3602)	2 Apr 45	D	With Change 1 dated 28 Jan 46
OP 1208	Readiness and Care of Ordnance Equipment on Vessels in Inactive Status	19 Nov 45	D	1st rev
SNL K-1 (ORD 5)	Cleaning, Preserving and Lubricating Materials, Recoil Fluids, Special Oils and Miscellaneous Related Items			War Dept publication
TM9-850	Cleaning, Preserving, Sealing, Lubrication and Related Materials Issued for Ordnance Material	24 Aug 44	Do	

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PRIMERS				
#OP 4.....	Ammunition—Instructions for the Naval Service Afloat	4 May 43	R	Revised. See remarks for OP 4 in Part 1
OP 5.....	Ammunition Ashore Vol 1	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1120.....	Care of Ammunition at Advanced Bases	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1219A.....	Ammunition Code Catalog, Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 1219Q.....	Ammunition Code Catalog, Class O, Gun Ammunition	9 Jul 45	R	1st rev. See remarks for OP 1219Q in Part 1
OD 743.....	Components and Miscellaneous Items	20 Jul 38	R	Rev A
OD 743.....	Materials Used in Manufacture of Fuzes, Tracers, Igniters, Primers, etc.	20 Jul 38	R	Rev A
#OR 1178.....	Demolition Material	8 Dec 44	R	
SNL P-7 (ORD 11)	Fuzes, Primers, Blank Ammunition and Miscellaneous Items for Anti-aircraft, Harbor Defense, Heavy Field and Railway Artillery			War Dept publication
OP 1219E.....	Ammunition Code Catalog, Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1219Q.....	Ammunition Code Catalog, Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OD 2035.....	Primer Testing Set Mk 1 Description and Operation	Undated	D	
OP 1219M.....	Ammunition Code Catalog, Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
SNL R-3 (ORD 11)	Service Fuzes and Primers for Pack, Light and Medium Field, Aircraft, Tank and Antitank Artillery			War Dept publication
PROJECTILE HOISTS, See HOISTS, PROJECTILE				
PROJECTILES				
See also AMMUNITION BY SIZE				
BALLISTICS				
FUZES				
PRIMERS				
#OP 4.....	Ammunition—Instructions for the Naval Service Afloat	4 May 43	R	Rev. See remarks for OP 4 in Part 1
OP 5.....	Ammunition Ashore Vol 1 (Projectiles)	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 348.....	Ballistic (Projectile) Underwater Trajectories and Behavior on Impact With Water	Jul 1912	D	
OP 382B.....	Projectiles, Bombardment, Field, AA, Illuminating, Flat-Nose, Gas, Smoke, and Marker—Specifications for Projectile Bodies	Mar 1937	D	1st rev. Reinstated
OP 386B.....	Target Projectiles and Proof Shot, Specifications for	Apr 1935	D	1st rev.
OP 390.....	Illuminating Projectiles, Description Operation and Range Tables	Jan 1921	R	1st rev. Supersedes ODs 388 and 405
OP 1042.....	Ships Chemical Munitions, Description and Instructions for Use (White Phosphorous Projectiles)	25 Sep 43	R	See remarks for OP 1042 in Part 1
OP 1120.....	Care of Ammunition at Advanced Bases (Projectiles)	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1172.....	Performance of Bombs and Projectiles Against Shore Installations	9 May 44	C	
OP 1219I.....	Ammunition Code Catalog, Classes 4, 7 and 8, Unserviceable Gun Ammunition	8 Aug 45	R	1st rev.

#Under revision.

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
PROJECTILES				
OP 12190	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 12190 in Part 1
OP 12190	Ammunition Code Catalog, Class 6, Marine Corps and Landing Force Ammunition	15 Jan 45	R	See remarks for OP 12190 in Part 1
OP 1458	Fragmentation Data on Bombs and Projectiles	2 Apr 45	R	See remarks for OP 1458 in Part 1
OP 1588	Projectiles Instructions for Special Loading of	22 Aug 28	R	War Dept publications
SNL R-2 (ORD 11)	Projectiles and Propelling Charges, Separate Loading for Medium Field Artillery, Including Complete Round Data			
OP 12191	Ammunition Code Catalog, Classes 4, 7 and 8, Unserviceable Gun Ammunition	8 Aug 45	R	1st rev
OP 984	3" Gun Mounts, 50 Cal DP, Pedestal Type Mk 24 and 24 Mod 1 (3"/50 Projectile)	27 Jan 44	R	See remarks for OP 984 in Part 1
OP 1219K	Ammunition Code Catalog, Class K, Dummy Ammunition Assemblies	1 Oct 44	R	See remarks for OP 1219K in Part 1
OP 1451	5"/38 Window Projectiles (Preliminary)	23 Feb 45	C	Supersedes OCL A51-44
OD 4218	Instructions for Converting Rangekeeper Mk 8 Mod 7 to Mk 8 Mod 17—For use with 6" Mk 35 Projectile (130 lb)	18 Sep 42	R	
SNL P-1 (ORD 11)	Projectiles, Separate Loading, 6", 155-mm, 8" and 240-mm, for Harbor Defense, Heavy Field, and Railway Artillery, Including Complete Round Data			War Dept publication. See remarks for SNL P-1 (ORD 11) in Part 1
OD 4220	Instructions for Converting Rangekeeper Mk 8 Mod 4 to Mk 8 Mod 18—For use with 6" Mk 34 Projectile (130 lb)	18 Sep 42	R	
OD 4224	Instructions for Converting Rangekeeper Mk 7 Mod 6 to Mk 7 Mod 12 For use with 6" Projectile Mk 34 (130 lb)	18 Sep 42	R	
PROJECTORS				
See also PYROTECHNICS				
LAUNCHERS				
OP 517	Ammunition Ashore Vol 1 (Projectors)	10 Jun 44	R	1st rev. See remarks for OP 517 in Part 1
OTI F2-44	Gun Train Indicator Mk 52 Mods 1 and 2, Target Designation Transmitter Mk 8 Mods 1 and 2 (A) Loosening of Dial and Gear Clamps (B) Increasing Clearance Between Mk 52 Case and Anti-Vibration Mount	2 Feb 44	R	
OP 1001	Projectors Mk 10, Mk 10 Mod 1 and Mk 11 and Ammunition Description and Instructions for Use	25 Jul 44	R	1st rev. With Change 1 dated 24 Oct 44. Supersedes OCLs A113-43 and G12-44
OD 1819	Compass Card Projector Mk 4 Adjustment and Care	20 Jul 29	D	
OD 5318	Preparation of Impulse Cartridges for Single Depth Charge Projector Mk 6	14 Jun 44	D	Supersedes OCL's A36-42 and A36a-42 per OCL M22-42. Issued with Change 1 dated 29 Mar 45
OP 831	Depth Charge Projector Mk 6 Mod 1 and Mod 2	21 Jul 44	R	1st rev. Supersedes OCL M24-43

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
PROJECTORS				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1219B.....	Ammunition Code Catalog, Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
SNL B-20 (ORD 6)	Tools, Maintenance, for Repair of Small and Hand Arms and Pyrotechnic Projectors			War Dept publication
TM9-1290.....	Pyrotechnic Projectors All Types.....	18 Mar 43		Do
OP 1175.....	3"/25 Rockets, Target.....	31 Jul 44	R	See remarks for OP 1175 in Part 1
TM9-390.....	Target Rocket Projector M1.....	14 Nov 42	R	War Dept publication. Issued with TB9-390-1
TB9-390-1...	Projectors, Target Rocket, M1 Inspections and Precautions Prior to Firing	23 Aug 44	R	Issued with TM9-390. War Dept publication
OP 1177.....	Surface Pyrotechnics and Projectors (<i>Signal Projector</i>)	19 Jan 45	R	See remarks for OP 1177 in Part 1
PROOF SHOTS				
OP 386B.....	Target Projectiles and Proof Shot Specifications for..	Apr 1935	D	1st rev
PROPELLANTS				
OP 1164.....	Ballistic Testing of Rocket Propellants.....	26 Aug 44	R	
TM9-1900.....	Ammunition—General.....	18 Jun 45	R	War Dept publication. See remarks for TM9-1900 in Part 1
PROTECTORS				
OP 988.....	Bomb Fuzes, NAVY Mk 219, 221, 223, AN-Mk 224, 234, Mk 227, 228, 229, AN-Mk 230, Mk 231 Mod 0, ARMY, AN-M100A2, 101A2, 103, 110A1, M112, M113, 114, 115, 116, 117	May 1943	R	See remarks for OP 988 in Part 1
OP 1219A.....	Ammunition Code Catalog, Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
PUBLICATIONS				
OP 0.....	Index to Ordnance Publications.....	7 May 46	R	23rd rev
#OP 1.....	Preparation of Ordnance Publications (<i>Preliminary</i>)...	11 Dec 44	D	1st rev. Issued with Change 1 dated 22 Feb 45, Change 2 dated 31 Jul 45
Publications, Forms and Types				
#OP 599.....	Ordnance Drafting Room Regulations.....	Aug 1939	D	1st rev
PUMPS				
OD 3401.....	Test of Pump with Uni-Directional Flow.....	15 Nov 38	D	
OD 4396.....	Suitability Tests of RAD Mk 3 Hydraulic Pump (<i>British Make</i>)	28 Apr 42	R	
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM and HAWAII (<i>Preliminary</i>)	25 Oct 44	R	See remarks for OP 835 in Part 1
PYROTECHNICS				
OP 5.....	Ammunition Ashore Vol 1 (<i>Pyrotechnics</i>).....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
PYROTECHNICS				
See also	AMMUNITION BOMBS CARTRIDGES DISCHARGES FLARES FLOATS GENERATORS LIGHTS PISTOLS PROJECTORS SIGNALS SMOKE MIXTURE SMOKE SCREEN EQUIPMENT TANKS, SMOKE			
OP 998.....	Aircraft Pyrotechnics.....	14 Jul 43	R	Supersedes OP 562. See remarks for OP 998 in Part 1
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1177.....	Surface Pyrotechnics and Projectors.....	19 Jan 45	R	See remarks for OP 1177 in Part 1
OP 1219B.....	Ammunition Code Catalog, Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1219E.....	Ammunition Code Catalog, Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	
TM9-1900.....	Ammunition-General	18 Jun 45	R	War Dept publication
SNL B-20 (ORD 6)	Tools, Maintenance, for Repair of Small and Hand Arms, and Pyrotechnic Projectors			War Dept publication
SNL S-5 (ORD 11)	Pyrotechnics, Military, All Types.....			War Dept publication
SNL S-6 (ORD 11)	Ammunition Instruction Material for Grenades, Pyrotechnics and Aircraft Bombs			War Dept publication
SNL S-10 (ORD 11)	Obsolete and Nonstandard Bombs, Grenades, Pyrotechnics and Rockets			War Dept publication
TM9-1081.....	Military Pyrotechnics.....	8 Dec 43	R	War Dept publication. Supersedes TM9-981
TO 11-15-1...	Type AN-M8 Pyrotechnic Pistol.....	21 Jan 43	R	War Dept publication
RACKS				
Racks, Bomb				
See also	SHACKLES, BOMB RELEASES			
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 878.....	General Data on Navy, AN-Standard, Army, and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1
OTI V44-43...	Bomb Rack and Shackle Latching Tools.....	24 Apr 44	R	
OTI V14-44...	Aircraft Depth Bombs, Instructions for Installation of Arming Wires on Bomb Racks and Bomb Shackles	20 Jun 44	R	Issued with OPs 988 and 1084
TO 11-5-51A..	Bomb Racks, Type A-2 Bomb Sling.....	26 Jun 44	R	Do

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Racks, Bombs				
TO 11-5-66...	Bomb Racks, Bomb Shackle B-10.....	15 Jan 44	R	Do
OP 581.....	Bomb Rack Mk 42 Description.....	Jan 1937	R	Now issued by BuAer. NAVAER No 11-5-503
OTI V36-43...	Mk 42 Bomb Racks Replacement of Defective Hook Latches and Bomb Hooks	19 Aug 43	R	Issued with OP 581
OP 1074.....	Bomb Rack Mk 43 and Mk 43 Mods 1 and 2 or 1A....	11 Sep 43	R	Now issued by BuAer. NAVAER No 11-5-511
OTI V31-43...	Bomb Racks Mk 43 Mods 1 and 2 Procedure for Preventing Inadvertent Releases from After Compartments	9 Jul 43	R	
OD 5255.....	Bomb Rack Mk 43 Mod 2.....	8 Sep 43	R	
OTI V37-43...	Bomb Rack Mk 46 and Mk 46 Mod 1.....	26 Aug 43	R	
OP 1082.....	Bomb Racks Mk 47 and Mk 47 Mod 1.....	11 Sep 43	R	Now issued by BuAer. NAVAER No 11-5-512
OD 5253.....	Bomb Rack Mk 47 and Mod 1.....	8 Sep 43	R	
OMI V22-44...	Bomb Rack Mk 47 and Mk 47 Mod 1 Prevention of Inadvertent Release	1 Sep 44	D	Issued with OP 1082
OP 1475.....	Bomb Racks Mk 50 Mods 4 and 5.....	28 Sep 45	R	See remarks for OP 1475 in Part 1
OTI V16-44...	Maintenance of Bomb Racks Mk 50 and 51 Types....	19 Jun 44	R	Issued with OPs 925
OD 4622.....	Bomb Rack Mk 51 Mods 6 and 7.....	1943	D	
NavOrd Chart V4-43	Instruction Chart Bomb Rack Mk 51 Mods 6 and 7....	16 Aug 43	D	
OP 925.....	Bomb Rack Mk 51 Mods 6 and 7, Description and Operation (Racks, Bomb Mk 51 Mods 6, 7, 8 and 9)	Jan 1943	R	See remarks for OP 925 in Part 1
OP 1375.....	Bomb Rack Mk 51 Mods 11 and 12.....	18 May 45	R	With Change 1 dated 6 Nov 45 superseding OTI V27-43 Now issued by BuAer. NAVAER No 11-5-523
OMI V19-45...	Bomb Racks Mk 51 Mods 11 and 12, Modification of Hoisting Bracket	13 Sep 45	D	
OP 1256.....	Bomb Rack Mk 53 and Auxiliary Equipment (For Lighter Than Air Use Only)	2 Oct 44	R	Now issued by BuAer. NAVAER No 11-5-519
*OP 1603.....	Bomb Rack Mk 55 Mod 0.....		R	
TO 11-5-26...	Bomb Racks Type C-3, Bomb Hoist Assembly.....	14 Jun 43	R	War Dept publication
OP 1072.....	Selector, Bomb Rack Types RS-2.....	29 Sep 43	R	Now issued by BuAer. NAVAER No 11-5-514
Rack, Smoke Generator				
OP 1219C.....	Ammunition Code Catalog, Class C, Chemicals.....	1 Oct 44	R	See remarks for OP 1219C in Part 1
OHI C1-43....	Smoke Generator Rack Mk 1.....	13 Sep 43	D	
Racks, Torpedo Launching				
OP 1312.....	Torpedo Launching Rack Mk 1 Mod 1.....	11 Nov 44	R	With Change 1 dated 14 Apr 45
RADAR				
OP 1193.....	Radar Beacon Mk 1 Mod 1.....	3 Jun 44	R	Change 1 dated 9 Jun 44
OP 1336.....	Radar Beacon Mk 2 Mod 0 and Mod 1.....	7 Mar 45	R	
OP 1407.....	Anti-Jamming Operation of Fire Control Radar.....	25 May 45	R	With Change 1 dated 14 Aug 45

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
RADAR				
OP 656.....	Fire Control Radar Type FA, Operation.....	Jan 1943	C	Formerly Registered
OD 4264.....	Antenna Pedestal and Associated Apparatus for Navy Model FC Radar Equipment	21 Apr 41	R	
#OP 688.....	SWOD (Radar) Mk 2 Mod 1—(Preliminary)	27 Mar 45	C	Formerly Registered
OP 657.....	Fire Control Radars Mk 3 (FC) and Mk 4 (FD)	Apr 1943	R	1st rev. With Change 1 dated 21 Oct 43 and Change 2 dated 2 Aug 44
OP 658.....	Radar Equipment Mk 8 Mods 1 and 2	2 Apr 45	R	1st rev.
OP 1298.....	Radar Equipment Mk 8 Mod 3	Aug 1945	R	
OP 1005.....	Fire Control Radar Equipment Mk 10	12 May 44	R	
OP 1076.....	Radar Equipment Mk 12 Mod 0	22 Apr 44	R	Issued with Change 1 dated 26 Jun 44 and Change 2 dated 4 Aug 44
OD 4776.....	Gun Director Mk 37 Mod 53 with Radar Antenna Mount Mk 12 Mods 4, 6 and 9 and Radar Equipment Mk 12 and Mk 22, Vibration and Error Tests	13 Mar 45	R	
OP 1297.....	Radar Equipment Mk 13 Mod 0	30 Jul 45	R	
OP 1075.....	Fire Control Radar Equipment Mk 18	27 Dec 43	R	
OP 1153.....	Radar Equipment Mk 22 Mod 0	14 Jun 44	R	Issued with Change 1 dated 19 Jan 45
*OP 1651.....	Radar Equipment Mk 25 Mod 2	8 Aug 44	R	
OP 1154.....	Radar Equipment Mk 26 Mods 3 and 4	4 Aug 44	R	
OP 1155.....	Radar Equipment Mk 27	25 Oct 44	R	
OP 1156.....	Radar Equipment Mk 28 Mods 0 and 3	28 Dec 44	R	See remarks for OP 1238 in Part 1
OP 1238.....	Radar Equipment Mk 28 Mod 2	31 Oct 45	R	See remarks for OP 1323B in Part 1
OP 1323B.....	Gun Fire Control System Mk 57—Installation, Maintenance, and Accuracy Tests (Preliminary)	25 Apr 45	R	
OP 1299.....	Radar Equipment Mk 29 Mod 2	23 Jul 45	R	See remarks for OP 1300 in Part 1
OP 1300.....	Radar Equipment Mk 32 Mod 1 (Preliminary)		C	
*OP 1301.....	Radar Equipment Mk 34 Mods 3 and 4		R	
*OP 1513.....	Radar Equipment Mk 34 Mod 2		R	
*OP 1600A.....	Radar Equipment Mk 35		R	
*OP 1514.....	Radar Equipment Mk 39 Mod 3		R	
RADIO				
OD 3641.....	Report of Radio Interference Test	12 Jun 41	R	
OTI A3-43.....	Testing of Destroyers for Radio Equipment	7 Apr 43	D	Issued with OP 995
OP 999.....	Bureau of Ordnance Radio Equipment Mk 100	Jun 1943	R	
RAMMERS				
See also.....	HYDRAULIC POWER EQUIPMENT			
*OP 1633.....	5" Hand Rammer—Description and Instructions for Use		R	
*OD 3480.....	5"/38 Cal Single Rammers and Loading Machines Electric Hydraulic Equipment		R	
OD 3747.....	Electric Hydraulic Equipment for 5" Rammers Summary of Routine Tests	31 Dec 41	R	
OD 3374.....	6"/47 Cal Triple Rammer Breech Block and Extractor—Electric Hydraulic Drive (Vickers) Non-Firing Type Tests of Electric Hydraulic Drive	25 May 38	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
RAMMERS				
#OP 833.....	6"/47 Cal Triple Turrets CL 55 Class (Rammer 6" Mk 1 Mods 2 and 3)	Jun 1942	R	With Appendix 1, Change 1 dated 27 Jan 45 and OCL G31-42
OD 3482.....	Description of Circuit and Unit with Instructions for Installation, Adjustment, Operation and Repair for 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3 Electric Hydraulic Equipment	23 Sep 42	R	Rev A, 12
OD 3723.....	Type Non-Firing Tests of Electric Hydraulic Drives 6"/47 Cal (Triple) Rammer, Breech Block and Extractor (Rammer-6"/47 Mk 1 Mods 2 and 3)	2 Dec 41	R	
OD 4495.....	Routine Test Data 6" Housings Mk 1 Mods 2 and 3, 6" Rammers Mk 1 Mods 2 and 3 (Electric Hydraulic Equipment)	23 Sep 42	R	
OD 5278.....	Routine Test Data Power Drives 6" Housings Mk 1 Mods 2 and 3, 6" Rammer Mk 1 Mods 2 and 3 Electric-Hydraulic Equipment	3 Sep 43	R	
OP 569.....	8" Triple Mounts for CAs 32, 34 and 36 Description (Rammers 8" Mk 15)	Dec 1934	R	Supersedes ODs 2091 and 2050
*OD 3307.....	Electric Hydraulic Equipment for 8"/55 Cal Rammer Mk 17 Mod 1 for CA 45			
OD 4374.....	Hydraulic Power Equipment for 8" Rammers (RH and LH) Mk 17 and Mk 17 Mods 1, 2, 3	26 Dec 41	R	
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class, CAs 68 to 75, 122 to 138 (Preliminary) (Rammer Mk 17 Mods 2 and 3)	Apr 1943	R	See remarks for OP 834 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary) (Ram, Transfer Mk 1)	25 Oct 44	R	See remarks for OP 835 in Part 1
OD 4836.....	Test of 12" Rammer Mk 11	16 Oct 45	R	
OD 100.....	Description of 14" Rammers Mk 1	19 Jun 17	D	
OD 3500.....	Test of Electric Hydraulic Drive for 16" Rammers (BBs 55 and 56)	1 Mar 40	R	
*OD 5270.....	Summary of Routine Tests for 16" Rammers			
OD 4054.....	Electric Hydraulic Drive for 16" Rammers Mk 4 and Mods 1 and 2	24 Nov 40	R	
OD 4057.....	Electric Hydraulic Drive for 16" Rammers Mk 4 and Mods 1 and 2	1 May 41	R	
OD 4681.....	16" Rammer Mk 5 Report of Test of 16" Rammer Chains	Undated	R	
RANGE, ADJUSTERS, See ADJUSTERS, RANGE				
RANGE CONVERTERS, See CONVERTERS, RANGE				
RANGE TABLES, See TABLES, RANGE				
RANGEFINDERS				
See also	ATTACHMENTS, RANGEFINDER TRAINING MOUNTS, RANGEFINDER STANDS, RANGEFINDER			
OP 105.....	Range finders, Care and Operation	May 1931	R	With Change 1 dated 17 Jul 44. Supersedes OPs 356 and 456
*OP 487.....	Range finder short base 1 1/2 meters and lower			
*OP 488.....	Range finders Intermediate 3 meters to 20 feet (Deck Mounts)			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
RANGEFINDERS				
OD 3554.....	Report Based on Quantitative Vibration of Rangefinder in Turret 4 and of the Turret Structures of USS SAVANNAH	Undated	R	
*OD 4741.....	Vibration Data for Design of Elastic Supports for Rangefinders CA 71	11 Mar 44	R	
*OD 4752.....	Vibration Data for Design of Elastic Supports for Rangefinders in Turrets No. 1, 2, 3, CL 64	11 Mar 44	R	
*OD 4753.....	Vibration Data of Elastic Supports for Main Battery Directors Nos. 1 and 2 Rangefinders USS ST. LOUIS, CL 49	11 Mar 44	R	
OD 4760.....	Report of Quantative Analysis of Photographic Records of Resiliently Mounted Rangefinders in Main Battery Director No. 1, Main Battery Director No. 2 of USS ST. LOUIS, CL 49	14 Sep 44	D	
*OD 4799.....	Vibration Data for Design of Elastic Supports for Main Battery Director Rangefinders USS WICHITA and HELENA		C	
OD 4674.....	Report of Analysis of Japanese One-Meter Base Coincidence Rangefinder	6 Dec 43	R	
*OP 962.....	Stereoscopic Rangefinders Care and Operation.....			Will supersede OP 105
OD 4688.....	Report of Cursory Examination of German Four Meter Base Stereoscopic Rangefinder	22 Feb 44	R	
OP 357.....	Rangefinders (U.S. Navy) Description Mk 1 Mod 1, Mk 2 and Mk 2 Mods 1, 2, 3, Mk 3, Mk 4 Mods 4 and 5, Mks 5, 6, 7, 8, 9, 10, 11	Feb 1913	R	
OP 489.....	Rangefinders Mks 10, 13, 16 and 22 and Mods.....	Jun 1923	R	
OD 477.....	Optical Equipment Mk 21 Rangefinder.....	19 Sep 21	D	
OD 931.....	Rangefinder Mk 28 Mod 1 for Destroyers Optical Equipment	29 Jun 27	R	
OP 394.....	Rangefinder Mk 33 and 33 Mods 1 and 2 Description....	Sep 1930	R	With correction to page 35
OD 901.....	Rangefinder Mk 34 Description and Operation.....	24 Nov 26	R	
OP 486.....	Rangefinder Mks 35 and 35 Mod 1 Description.....	Aug 1933	R	
OP 583.....	Rangefinder Mk 37 and Mods 1 to 4 Description Optical Equipment	Oct 1941	R	
OP 857.....	Gun Director Mks 35 and 36 with Associated Fire Control Equipment Description (Preliminary)	Jan 1942	R	Supersedes OD 3319
OP 597.....	Rangefinder Mks 39 and Mk 42 and Mk 42 Mods 0 to 3 Description	Jun 1939	R	
OD 2698.....	Rangefinders Mks 41, 42 and Mods Report and Instructions for Testing Electrical Circuits	28 Mar 40	D	Rev A
OP 573.....	Director Firing Installation AA Battery (Synchro Type) Gun Director Mk 33 and Mods 1 to 8 Detail Description	Feb 1938	R	1st rev. Supersedes OD 2091
OP 597A.....	Rangefinder Mk 42 (and Mods 4, 5, 6, 8, 9, 10, 11, 12, 13)	Jul 1943	R	
OP 857.....	Gun Director Mk 35 and Mk 36 with Associated Fire Control Equipment Description (Preliminary)	Jan 1942	R	Supersedes OD 3319
OP 744.....	Optical Equipment Rangefinder Mk 44 and Mk 44 Mod 1 (Aircraft)	Jan 1941	R	With Change 1 dated 6 Mar 44. Supersedes OD 3745
OP 971.....	Optical Equipment Rangefinders Mk 45 Mods 1 and 2 (Preliminary)	Nov 1943	R	With Change 1 dated 14 Feb 45
OP 825.....	Rangefinders Mk 46 and Mk 46 Mod 1, Mk 47 and Mk 47 Mod 1 Description	Nov 1942	R	
OP 1393.....	Optical Equipment—Rangefinders Mk 48 Mods 0, 1, and 2 (Preliminary)	10 Jan 45	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
RANGEFINDERS				
OP 981.....	Range finder Mk 51 Mods 1, 2, 3.....	13 Jun 43	R	
OP 1463.....	Optical Equipment—Range finder Mk 51 Mod 4.....	22 Mar 45	R	
OP 889.....	Range finder Mk 54.....	Jan 1944	R	
*OP 1573.....	Range finder Mk 52 Mod 0 and Range finder Mk 52 Mod 1.....		R	
*OP 1584.....	Optical Equipment—Range finders Mk 53 Mod 0 and Mk 53 Mod 1.....		R	
OP 1436.....	Optical Equipment—Range finder Mk 57 Mod 0 (Preliminary).....	28 Mar 45	R	
*OD 4539.....	Conversion Mechanism Range finder Mk 58.....		R	
OP 1171.....	Optical Equipment Range finders Mk 58, 58 Mod 1, 65 and 65 Mod 1 (Preliminary).....	17 Apr 44	R	
OD 3766.....	Range finders Mk 58 and Mk 58 Mod 1, Conversion Mechanism.....	Undated	R	
*OP 1025.....	Range finders Mk 61 and Mk 63.....		R	
RANGE KEEPERS				
OD 965.....	Instruction Book for Range Keeper Mk 1 Mod 12.....	19 Jul 29	R	
OD 3150.....	Range Keeper Mk 1 Mods 17 and 18 (formerly Mods 12 and 13) Installation Instructions and Test Sheets—Material for Changing Ballistics—Range Keeper Mk 1 Mods 17 and 18.....	26 Aug 40	R, Rev A	
OD 4204.....	Range Keeper Mk 1 Mods 17 and 18 Setting Instructions for Use with Guns having 1/25 Twist Rifling.....	4 Jun 42	R	
OD 5132.....	Range Keeper Mk 1 Mods 20 and 21 Setting Instructions for Use with Guns Having 1/25 Twist Rifling.....	26 Feb 44	R	
OP 460.....	Range Keeper Mk 2 (Ford) Care and Operation.....	Dec 1922	R	
OP 110.....	Gun Director Mk 18 and 18 Mod 1 for 8" Twin Mounts—Director Firing Installation, Arma Type CVs 2 and 3 (Rangekeeper Mk 3 and 3 Mod 1).....	Oct 1927	R	See remarks for OP 110 in Part 1
OD 4229.....	Conversion of Range Keeper Mk 5 Mods 0 and 1 for Use with 8"/55 Cal Guns with 1/25 Twist Rifling.....	18 Sep 42	R	
OD 4230.....	Range Keeper Mk 8 Mods 14, 19 Instructions for Addition of Bearing Correction Transmitter.....	15 Oct 42	R	
Range Keepers, Mk 7				
OD 3046.....	Range Keepers Mk 7 Tabulation of Principal Differences Between Mods.....	5 Dec 35	R	
OD 2114.....	Fire Control Equipment Range Keeper Mk 7 Mods 1 and 2.....	31 Jul 34	R, Rev A	
OD 4198.....	Instructions for Converting Range Keeper Mk 7 Mod 1 to Mk 7 Mod 11.....	5 May 42	D	
OD 4221.....	Instructions for Converting Range Keeper Mk 7 Mod 2 to Mk 7 Mod 14 for Use with 8" Guns with 1/25 Twist Rifling.....	18 Sep 42	R	
OD 2052.....	Range Keeper Mk 7 Mod 3 Instruction Book (Secondary Battery Fire Control BBs 40-42).....	22 Jun 34	R, 3rd rev	
OD 2647.....	Instruction Book for Range Keeper Mk 7 Mod 4 USS TUSCALOOSA and USS SAN FRANCISCO.....	6 Jun 34	R	
OD 3015.....	Instruction Book for Range Keeper Mk 7 Mod 4 USS VINCENNES.....	26 Feb 36	R	
OD 4184.....	Instructions for Installing Time of Flight Contactors for Range Keeper Mk 7 Mods 4, 6, and 8.....	12 Dec 41	R	

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Range Keepers, Mk 7				
OD 4222.....	Instructions for Converting Range Keeper Mk 7 Mod 4 to Mk 7 Mod 15 for Use with 8" Guns with 1/25 Twist Rifling	18 Sep 42	R	
OD 2678.....	Fire Control Equipment Range Keeper Mk 7 Mod 6 Description CLs 40-43, 46-48	29 Mar 38	R	Rev A
OD 4224.....	Instructions for Converting Range Keeper Mk 7 Mod 6 to Mk 7 Mod 12 for Use with 6" Projectile Mk 34 (130 lb)	18 Sep 42	R	
OD 3012.....	Fire Control Equipment Range Keeper Mk 7 Mod 7 Description	12 Sep 35	R	Rev B
OD 4200.....	Instructions for Converting Range Keeper Mk 7 Mod 7 to Mk 7 Mod 10	15 May 42	R	
OD 3114.....	Instruction Book for Range Keeper Mk 7 Mod 8.....	17 Aug 38	R	
OD 3115.....	Instruction Book for Range Keeper Mk 7 Mod 9.....	7 Nov 38	R	
OD 4216.....	Instructions for Converting Rangekeeper Mk 7 Mod 10 to Mk 7 Mod 13	7 Jan 43	R	Rev B
OD 5113.....	Range Keeper Mk 7 Mod 16 Instructions for Converting from Range Keeper Mk 7 Mod 6 or Mod 12, for Use with 6" 105 lb HC Projectile and 6" 130 lb AP Projectile (Preliminary)	1 Dec 43	R	
Range Keepers, Mk 8				
OP 810.....	Fire Control Equipment Gun Director Mk 38 and Mk 38 Mods 1 and 5 with Associated Equipment Description BBs 55-60 (Preliminary)	Oct 1942	R	1st rev
*OP 1068A...	Rangekeeper Mk 8—Tests and Adjustments.....		R	
OD 2116.....	Design Specifications of Range Keeper Mk 8.....	18 Jul 32	R	
OD 2128.....	Fire Control Equipment Range Keeper Mk 8 Description	3 Aug 33	R	
OD 3045.....	Range Keepers Mk 8 Tabulation of Principal Differences between Mods	16 Apr 40	R	Rev B
*OP 1068.....	Range Keeper Mk 8 and Mods.....		R	
OD 5153.....	Range Keeper Mk 8 and Mods Serial No 23 and Higher Instructions for Altering to Add Present Range Transmitter	1 Jun 44	R	
OD 4225.....	Instructions for Converting Range Keeper Mk 8 Mod 0 to Mk 8 Mod 20 for Use with 8"/55 Cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
OD 2126.....	Design Specifications for Range Keeper Mk 8 Mod 1....	18 Jul 32	R	
OD 2129.....	Range Keeper Mk 8 Mod 1 Description.....	3 Mar 33	R	
OD 3113.....	Range Keepers Mk 8 and Mk 8 Mods 1 to 5 Analysis of Errors Due to Incorrect Adjustment	21 Apr 37	R	
OD 4226.....	Instructions for Converting Range Keeper Mk 8 Mod 1 to Mk 8 Mod 21 for Use with 8"/55 Cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
OD 2127.....	Design Specifications for Range Keeper Mk 8 Mod 2...	20 Dec 32	R	
OD 2130.....	Instruction Book for Range Keeper Mk 8 Mod 2 and Mk 8 Mod 10	24 Jan 33	R	1st rev
OD 2055.....	1"10 Machine Gun Mk 1 Mod 1 with Magazine Mk 2 Description (Range Keeper Mk 8 Mod 3)	15 Oct 33	R	
OD 4227.....	Instructions for Converting Range Keeper Mk 8 Mod 3 to Mk 8 Mod 22 for Use with 8"/55 Cal Guns with 1/25 Twist Rifling	18 Sep 42	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Range Keepers, Mk 8				
OD 2676.....	Instruction Book for Range Keeper Mk 8 Mod 4 CLs 40-43, 46-48	31 Jan 39	R	Rev A
OD 4220.....	Instructions for Converting Range Keeper Mk 8 Mod 4 to Mk 8 Mod 18 for Use with 6" Mk 34 Projectile (130 lb)	18 Sep 42	R	
OD 2645.....	Instruction Book for Range Keeper Mk 8 Mod 5.....	18 Feb 37	R	
OD 4228.....	Instructions for Converting Range Keeper Mk 8 Mod 5 to Mk 8 Mod 23 for Use with 8"/55 Cal Gun with 1/25 Twist Rifling	18 Sep 42	R	
OD 3119.....	Instruction Book for Range Keeper Mk 8 Mod 6.....	16 Jun 39	R	
OD 3120.....	Instruction Book for Range Keeper Mk 8 Mod 7.....	20 Jun 39	R	
OD 4218.....	Instructions for Converting Range Keeper Mk 8 Mod 7 to Mk 8 Mod 17 for Use with 6" Mk 35 Projectile (130 lb)	18 Sep 42	R	
OD 3129.....	Instruction Book for Range Keeper Mk 8 Mod 8.....	30 Nov 39	R	Issued with OD 5134
OD 3131.....	Instruction Book for Range Keeper Mk 8 Mod 9.....	2 Dec 41	R	Rev A
OD 3141.....	Main Battery BBs 55 to 62 incl Range Keeper Mk 8 Mod 9 Computer Mk 3 and Mk 3 Mod 1 Trunnion Tilt Corrector Mk 5	Undated	R	
OD 4234.....	Range Keepers Mk 8 Mods 9, 11, 12, 13 Differences Between the Respective Instruction Books	28 Nov 42	R	With Change 1 dated 27 Sep 44
OD 4219.....	Instructions for Converting Range Keeper Mk 8 Mod 10 to Mk 8 Mod 24 for Use with 14"/50 Cal Guns with 1/25 Twist Rifling	18 Sep 42	R	
OD 4172.....	Instruction Book for Range Keeper Mk 8 Mod 11 (<i>Preliminary</i>)	2 Mar 44	R	
OD 4248.....	Instructions for Altering Range Keeper Mk 8 Mods 11, 13, 25 and 26 to Accommodate External Plot Selector Switch	15 Jul 43	D	
OD 4258.....	Instruction Book for Power Amplifier Installed in Range Keeper Mk 8 Mods 11, 15, 54, 55 (<i>Preliminary</i>)	31 May 44	R	
OD 4247.....	Instructions for Converting Range Keeper Mk 8 Mod 12 to Mk 8 Mod 25 for Use with 105 lb HC Projectile	26 Jul 43	D	
OD 4173.....	Instruction Book for Range Keeper Mk 8 Mods 12, 13, 25 and 26	15 Feb 45	R	Rev A. Used with ODs 5147, 5155, OPs 1267 (Prel) and 1488 (Prel)
OD 3178.....	Instruction Book for Range Keeper Mk 8 Mod 14 and Mod 19	29 Apr 42	C	Rev A
OD 4197.....	Range Keepers Mk 8 Mods 14 and 19 Instructions for Alteration, Ship Speed Gearing, Additional Gun Elevation Transmitter Modification, Designation	27 Aug 42	D	Rev A
OD 5122.....	Instruction Book for Range Keeper Mk 8 Mods 15 and 55 (<i>Preliminary</i>)	31 May 44	R	
OD 4223.....	Instruction Book for Range Keeper Mk 8 Mod 16 (BB 48)	30 Sep 42	R	With Change 1 dated 27 Sep 44
OD 4231.....	Range Keeper Mk 8 Mod 16 Instructions for Addition of Bearing Correction Transmitter	7 Oct 42	R	
OD 5134.....	Instruction Book for Range Keeper Mk 8 Mods 28, 29, 30 and 45 (<i>Preliminary</i>)	24 Mar 44	R	Used with OD 3129
*OD 5131.....	Range Keeper Mk 8 Mod 45 Instructions for Converting from Range Keeper Mk 8 Mod 28			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Range Keepers, Mk 8				
OD 4245.....	Instructions for Converting Range Keeper Mk 8 Mod 8 to Mk 8 Mod 30 by Installation of Gun Elevation Order Automatic and Gun Train Order Automatic Transmitters	23 Jul 43	D Rev A	
OD 5125.....	Range Keeper Mk 8 Mod 31 Instructions for Converting from Range Keeper Mk 8 Mod 17 for use with 6" 105 lb HC Projectile (<i>Preliminary</i>)	27 Jan 44	R	
OD 5115.....	Range Keeper Mk 8 Mod 32 Instructions for Converting from Range Keeper Mk 8 Mod 18 for Use with 6" 105 lb HC Projectile (<i>Preliminary</i>)	26 Nov 43	R Rev A	
OD 5124.....	Range Keeper Mk 8 Mod 33 Instructions for Converting from Range Keeper Mk 8 Mod 13 for Use with 8" 260 lb HC Projectiles	25 Sep 44	R Rev B	
OP 1267.....	Range Keeper Mk 8 Mods 33, 34, 53 Description and Instructions for Use (<i>Preliminary</i>)	17 Oct 44	R	Issued with OD 4173
OD 5138.....	Instruction Book for Range Keeper Mk 8 Mods 35 and 39 (<i>Preliminary</i>)	15 Apr 44	R	Used with OD 3178
OD 5149.....	Range Keeper Mk 8 Mods 35, 36, 37, 38, 39, 40, 41, 42 Instructions for Altering to Transmit Gun Elevation Order Indicating at 6 and 72 Speeds (<i>Preliminary</i>)	3 May 44	R	
OD 5140.....	Range Keeper Mk 8 Mods 36 and 40 Instruction Book for (<i>Preliminary</i>)	15 Apr 44	R	Used with OD 3131
OD 5147.....	Instruction Book for Range Keeper Mk 8 Mods 37 and 41	Undated	R	Used with OD 4173
OD 5144.....	Instruction Book for Range Keeper Mk 8 Mods 38 and 42 (<i>Preliminary</i>)	22 May 44	R Rev A	Used with OD 4173
OD 5155.....	Instruction Book for Range Keeper Mk 8 Mod 46.....	20 Jul 44	R	Used with OD 4173
OD 5141.....	Range Keeper Mk 8 Mods 27 and 51 Instructions for Converting Range Keeper Mk 8 Mod 6 to Mk 8 Mod 51 and Mk 8 Mod 27 to Mk 8 Mod 47 for use with 8" 335 lb AP and 260 lb HC Projectiles (<i>Preliminary</i>)	18 Oct 44	D Rev B	
OD 5142.....	Range Keeper Mk 8 Mods 48, 49, and 50 Instructions for Converting Range Keeper Mk 8 Mod 45 to Mk 8 Mod 48, Mk 8 Mod 29 to Mk 8 Mod 49, Mk 8 Mod 30 to Mk 8 Mod 50 for use with 8" 335 lb AP and 260 lb HC Projectiles (<i>Preliminary</i>)	13 Oct 44	R Rev C	
OP 1488.....	Range Keeper Mk 8 Mod 56, Description and Instructions for Use (<i>Preliminary</i>)	29 Jun 45	R	Used with OD 4173
*OP 1662.....	Range Keeper Mk 8 Mods 57, 58, 60, and 61—Instruction Book		R	
Range Keepers, Mk 10				
OD 2607.....	Fire Control Equipment Range Keeper Mk 10 Instruction Book	25 Nov 35	R Rev A	
OD 2608.....	Range Keeper Mk 10 Tabulation of Principal Differences Between Modifications	1 Jun 38	R Rev G	
OD 3169.....	Instruction Book for Director Hydraulic Control Mechanism Mk 1 for Gun Director Mk 33 and Range Keeper Mk 10	7 Jul 43	R Rev B	
OD 4261.....	Range Keeper Mk 10 Mod Serial Nos. 115 to 139 incl Instructions for Altering Range Mark Signal to Operate on 115 Volt AC	30 Jul 43	D	
OP 573.....	Director Firing Installation—AA Battery (Synchro Type) Gun Director Mk 33 and Mods 1 to 8 incl—Detail Description (<i>Range Keeper Mk 10 and Mods</i>)	Feb 1938	R 1st rev.	Supersedes OD 2091

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Range Keepers, Mk 10				
OD 4243.....	Instructions for Installation and Operation of Selector Drive Unit for Range Keeper Mk 10 Mods	13 Jun 44	R	
OD 4262.....	Range Keeper Mk 10 and Mods Use for Main Battery Control Including Instructions and Directions for Computing Tables of Corrections	25 Sep 43	R	Issued with OTI F17-44
OD 5104.....	Range Keeper Mk 10 Mod 0 Serial Numbers 13, 14, 15, 16 Instructions for Altering to Permit Transmission of Gun Elevation Order Indicating at 2 and 36 Speeds	31 Aug 43	R	
OD 4216.....	Range Keepers Mk 10 Mods 0 to 5, 7, 9 to 17 and 20 Alterations to Increase Target Speed and Remove Air-surface Shift	26 Nov 42	R Rev B	
OD 4215.....	Range Keeper Mk 10 Mods 0 to 17 Instructions for Installation of Target Angle Switch	24 Jul 42	R	
OD 2617.....	Instruction Book for Range Keeper Mk 10 Mod 1.....	20 May 37	R Rev B	
OD 3111.....	Range Keeper Mk 10 Mods 0 to 4 incl Analysis of Errors in Adjustment	18 Feb 37	R	
OD 2635.....	Instruction Book for Range Keeper Mk 10 Mod 2.....	20 May 37	R Rev B	
OD 2636.....	Instruction Book for Range Keeper Mk 10 Mod 3 USS PORTLAND and USS INDIANAPOLIS	20 May 37	R Rev C	
OD 2637.....	Instruction Book for Range Keeper Mk 10 Mod 4 USS PORTLAND and USS INDIANAPOLIS	4 May 35	R Rev A	
OD 2670.....	Instruction Book for Range Keeper Mk 10 Mod 5 (CA 39)	16 Mar 36	R Rev A	
OD 4213.....	Range Keepers Mk 10 Mod 5 Instructions for Replacing Single Speed Fuze Transmitters with Double Speed Transmitters	9 Jul 42	R	
OD 3107.....	Range Keeper Mk 10 Mods 5, 7, and 9 to 15 incl Analysis of Errors in Adjustment	18 Feb 37	R Rev A	
OD 4242.....	Range Keeper Mk 10 Mods 5, 11, 13, 27, 34 or 36 Alteration to Permit Control of 6"/47 Cal Guns Firing Fuzed Projectiles	31 May 43	D	
OD 4263.....	Range Keepers Mk 10 Mods 5, 11, 27, 34, 43, 64 Table of Corrections for Control of 6"/47 Cal Guns Firing 105 lb HC Projectiles	5 Aug 43	R	Issued with OTI F17-44
OD 2674.....	Fire Control Equipment Range Keeper Mk 10 Mods 7 and 8 Description (Mods 7 to 29)	26 Feb 36	R Rev A	
OD 5110.....	Range Keeper Mk 10 Mod 7 (or 29) 14 or 20, 30 or 37 Instructions for Altering iv Limits from 2,600 and 2,450 fs to 2,600 and 2,350 fs	23 Oct 43	D	
OD 4214.....	Range Keeper Mk 10 Mods 7, 14 and 15 Instructions for Replacing Single Speed Fuze Transmitter with Double Speed Transmitter	9 Jul 42	R	
OD 2821.....	Gun Directors Mk 33 Procedure for Reassembling, Adjusting and Checking Collimation of Gun Directors After Modification of Range Keepers Mk 10 Mod 8 for Improvement on Dynamic Accuracy (DDs 380, 382, 384-393)	5 May 38	R	
OD 5111.....	Range Keeper Mk 10 Mod 9 (or 31) 10 (or 33) 13 (or 36) 17 (or 39) Instructions for Altering iv Limits from 2,600 and 2,450 fs to 2,600 and 2,350 fs	23 Oct 43	D	
OD 3103.....	Instruction Book for Range Keeper Mk 10 Mods 9, 10, 12 and 13, 31, 33, 36	12 Jan 39	R Rev A	With Change 1 dated 27 Nov 43
OD 3104.....	Instruction Book for Range Keeper Mk 10 Mod 11.....	10 Sep 40	R Rev A	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Range Keepers, Mk 10				
OD 4260.....	Range Keeper Mk 10 Mod 11 Serial Nos. 104, 105, Conversion to Mod 60 for Use on USS SAN FRANCISCO CA 381	21 Jul 43	D	.....
OD 5101.....	Range Keeper Mk 10 Mods 13, 36 or 53 Table of Corrections for Control of 6"/47 Cal Guns Firing 105 lb HC Projectiles	14 Aug 43	R	.....
OD 3106.....	Instruction Book for Range Keeper Mk 10 Mod 14.....	9 Feb 39	R	Rev A
OD 2672.....	Instruction Book for Range Keeper Mk 10 Mod 15 Originally Mod 6	16 Mar 36	R	Rev B
OD 3165.....	Design Specification for Range Keeper Mk 10 Mods 18 and 19	23 Dec 42	R	.....
OD 4238.....	Instructions for Converting Range Keeper Mk 10 Mod 18 Serial Number 111 and Mk 10 Mod 19 Serial No. 114 to Mk 10 Mod 57	22 Jan 43	R	.....
OD 4205.....	Design Specification for Range Keeper Mk 10 Mod 23B	Undated	R	.....
OD 4206.....	Instruction Book for Range Keeper Mk 10 Mod 23B (Brazil)	Undated	D	.....
OD 4244.....	Range Keeper Mk 10 Mods 43, 53, 64 Alteration to Permit Control of 6"/47 Cal Guns Firing Fuzed Projectiles	1 Jun 43	R	.....
OP 1288.....	Instruction Book for Range Keepers Mk 10 Mods 43, 47, 50, 51, 52, 58, 64, and 65	3 Mar 45	R	Supersedes OD 4241
OD 4250.....	Conversion Parts for Range Keepers Mk 10 Mods 43, 47, 50, 64, and 65 Installation Instructions (Preliminary)	11 Mar 44	R	.....
OD 5133.....	Range Keeper Mk 10 Mods 43, 58, 59 and 64 Instructions for Altering for Installation on BBs 45, 46	11 Mar 44	R	.....
OD 4240.....	Instruction Book for Range Keeper Mk 10 Mods 44, 53, 54	9 Oct 44	R	.....
OD 5112.....	Range Keeper Mk 10 Mods 44, 53 and 54 Instructions for Altering iv Limits from 2,600 and 2,450 fs to 2,600 and 2,350 fs	23 Oct 43	D	.....
OD 4252.....	Range Keeper Mk 10 Mod 50 Instructions for Altering to Permit Transmission of Elevation Designation and Gun Elevation Order Indicating at 2 and 36 Speeds	15 Jul 43	D	Rev A
OD 4256.....	Range Keeper Mk 10 Mods 51 and 52 Instructions for Altering to Permit Transmission of Elevation Designation and Gun Elevation Orders at 2 and 36 Speeds	8 Jul 43	D	.....
OD 4249.....	Conversion Parts for Range Keepers Mk 10 Mods 53, 54 Installation Instructions (Preliminary)	13 Jun 44	R	Rev A
OD 4251.....	Range Keeper Mk 10 Mod 56 Instructions for Altering to Permit Transmission of Elevation Designation and Gun Elevation Order Indicating at 2 and 36 Speeds	12 Jun 43	D	.....
OD 4259.....	Range Keeper Mk 10 Mod 60 Instructions for Altering to Permit Transmission of Elevation Designation and Gun Elevation Order Indicating at 2 and 36 Speeds	7 Sep 43	D	Rev A
OP 1314.....	Instruction Book for Range Keepers Mk 10 Mods 66 and 67 (Preliminary)	23 Mar 45	R	.....
Range Keepers, Mk 11				
OD 2641.....	Fire Control Equipment Range Keeper Mk 11 Description	29 Oct 36	R	Rev A
OD 3092.....	Range Keepers Mk 11 Tabulation of Principal Differences Between Mods	8 Nov 37	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Range Keepers, Mk 11				
OD 2643.....	Instruction Book for Range Keeper Mk 11 Mod 1 <i>CHARLESTON and ERIE</i>	15 Nov 36	R	
OD 3112.....	Range Keeper Mk 11 and Mk 11 Mod 1 Analysis of Errors Due to Incorrect Adjustment	13 Apr 37	R	
RANGES				
See also	TABLES, RANGE			
TM9-855	Targets, Target Material and Training Course Lay-outs	17 Aug 44		War Dept publication
REAMERS				
See also	TOOLS			
OD 1715.....	Gas Check Seat Reamer for 8"/55 Cal Guns Mk 9 Mod 2, Mk 14 and Mk 14 Mod 1 Instructions Covering Setup and Operation of the Tools	16 Sep 42	D	
RECEIVERS				
Receivers, Change of Range				
OD 3133.....	Instruction Book for Computer Mk 1 and Change of Range Receiver Mk 1 (DDs 409-428)	12 Jan 40	R	Rev A. Issued with OTI F1-43. Chapter 3 is superseded by OD 4185
OD 3137.....	Instruction Book for Computer Mk 1 Mod 1 and Change of Range Receiver Mk 1 (BBs 55-57, CLs 51-54)	22 Apr 40	R	Issued with OTI F1-43. Chapter 3 is superseded by OD 4185
OD 3139.....	Instruction Book for Computer Mk 1 Mod 2 and Change of Range Receiver Mk 1	9 Oct 40	R	Issued with OTI F1-43. Chapter 3 is superseded by OD 4185
OD 3180.....	Instruction Book for Computer Mk 1 Mods 3 and 10 Change of Range Receiver Mk 1 (For BBs 58-60, CV3)	6 Feb 43	R	Rev A. Issued with OTI F1-43, Chapter 3 is superseded by OD 4185
OD 3181.....	Instruction Book for Computer Mk 1 Mod 4 (Serial Nos. lower than 101) Star Shell Computer Mk 1 Change of Range Receiver Mk 1	10 Mar 42	R	Issued with OTI F1-43. Chapter 3 is superseded by OD 4185
OD 3183.....	Instruction Book for Computer Mk 1 Mod 6 (Serial Nos. lower than 101) Star Shell Computer Mk 1 Change of Range Receiver Mk 1	10 Mar 42	R	Issued with OTI F1-43. Chapter 3 is superseded by OD 4185
OD 3185.....	Instruction Book for Computer Mk 1 Mod 6 (Serial Nos. Higher than 100) Star Shell Computer Mk 1 Change of Range Receiver Mk 1 (<i>Preliminary</i>)	3 Sep 43	R	
OD 3415.....	Report of Tests Change of Range Receiver Mk 1 Gun Director Mk 37	12 May 39	R	
OD 4174.....	Instruction Book for Computer Mk 1 Mods 7 and 13, Star Shell Computer Mk 1, Change of Range Receiver Mk 1 (<i>Preliminary</i>)	20 Sep 44	R	Rev C. See remarks for OD 4174 in Part 1
OD 4203.....	Instruction Book for Computer Mk 1 Mod 2 (Serial Numbers Higher than 100) Change of Range Receiver Mk 1 (<i>Preliminary</i>)	6 Dec 43	R	Rev A. Issued with OTI F1-43
Receivers, Elevation				
OD 5025.....	CA 68, Accuracy Test of Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	24 Jun 43	D	
OD 5074.....	CA 70, Accuracy Test for Gun Train Receivers, Gun Elevation Receivers, Gun Director Indicator	17 Dec 43	D	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Receivers, Elevation				
OD 5728.....	USS ST PAUL (CA 73) Accuracy Test for Gun Train Receivers, Gun Elevation Receivers, and Gun Director Train Indicator	30 Mar 45	D	
OD 5028.....	CV 17, Accuracy Test of Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	3 Jul 43	D	
OD 5084.....	USS WASP, CV 18 Accuracy Test, Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicators	24 Feb 44	D	
OD 685.....	Elevation Receiver Mk 1 Mod 15 (Follow-the-Pointer System) Description, Installation and Adjustment	1 May 31	D	
OD 686.....	Elevation Receiver Mk 1 Mod 16 (Follow-the-Pointer System) Description, Installation and Adjustment	1 Jul 31	D	
*OD 2331.....	Elevation Receiver Mk 1 Mod 20 Description			
Receivers, Radar				
OP 1238.....	Radar Equipment Mk 28 Mod 2	28 Dec 44	R	See remarks for OP 1238 in Part 1
Receivers, Range				
OP 810.....	Fire Control Equipment Gun Director Mk 38 and Mk 38 Mods 1 and 5 with Associated Fire Control Equipment Description BBs 55-60 (Preliminary)	Oct 1942	R	1st rev
OD 3184.....	Instruction Book for Computer Mk 1 Mod 4 (Serial Nos. Higher Than 100) Star Shell Computer Mk 1 Change of Range Receiver Mk 1	10 Jan 45	R	Rev A
OD 3866.....	Description of Range Receiver Mk 1 (BBs 55 to 60)...	19 Apr 40	R	1st rev
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary) (Range Receiver Mk 2 Mod 0)	15 Nov 44	R	See remarks for OP 1233 in Part 1
Receivers, Sight Angle				
OP 811.....	3" Gun Mount Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (Sight Angle Receiver Mk 1 Mod 0 and 1)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
Receivers, Sight Deflection				
OP 811.....	3" Gun Mount Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (Sight Deflection Receiver Mk 1 Mods 0 and 1)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
Receivers, Target Bearing				
OD 5128.....	Instruction Book for Target Bearing Receiver Mk 2....	12 Feb 44	R	
OP 1307.....	Target Bearing Receiver Mk 2 Mod 1.....	14 Apr 45	R	
Receivers, Target Designation				
*OP 1545.....	Target Designation Transmitter and Receiver Mk 1 Mods 26 and up		R	
Receivers, Training				
OD 5025.....	CA 68, Accuracy Tests of Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	24 Jun 43	D	
OD 5074.....	CA 70, Accuracy Test for Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	17 Dec 43	D	
OD 5728.....	USS ST PAUL (CA 73) Accuracy Tests for Gun Train Receivers, Gun Elevation Receivers, and Gun Director Train Indicator	30 Mar 45	D	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Receivers, Training				
OD 5028.....	CV 17, Accuracy Test of Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicator	3 Jul 43	D	
OD 5084.....	USS WASP, CV 18 Accuracy Test, Gun Train Receivers, Gun Elevation Receivers, Gun Director Train Indicators	24 Feb 44	D	
OD 635.....	Training Receivers Mk 1 and Mods Characteristics Use and Adjustment of Spare Instruments	Jun 1925	D	
*OD 2330.....	Training Receiver Mk 1 Mod 10 Description			
OD 684.....	Training Receivers Mk 1 Mods 22 and 23 (Follow-the-Pointer System) Description Installation and Adjustment	16 May 31	D	
OD 689.....	Training Receivers Mk 1 Mods 24 and 25 (Follow-the-Pointer System) Description, Installation and Adjustment	2 Nov 31	D	
RECOIL SYSTEMS, See SYSTEMS				
RECORDERS				
OD 3105.....	Instruction Book for Dummy Director and Error Recorder	23 Jun 38	R	
OD 3143.....	Instruction Book for Dummy Director Mk 1 Mod 1 and Error Recorder Mk 1 Mod 1 Dummy Director Mk 1 Mod 2 and Error Recorder Mk 1 Mod 2	17 Feb 41	R Rev E	
OD 4166.....	Instruction Book for Dummy Director Mk 1 Mod 3 and Error Recorder Mk 1 Mod 3	15 Mar 44	R Rev A	
OD 3730.....	Principle of Operation and Instruction Book for Signal Roughness Recorder	12 May 43	R Rev A	
REDUCERS				
*OP 1619.....	8" Error Reducer Mk 1 and Mods			
REELS				
See also TARGETS				
OP 1219J.....	Ammunition Code Catalog, Class J, Projector Charge and Rocket Ammunition Assemblies	13 Jul 45	R 1st rev	See remarks for OP 1219J in Part 1
OP 1219E.....	Ammunition Code Catalog, Class E, Demolition Material	20 Jul 45	R 1st rev	See remarks for OP 1219E in Part 1
OP 1443.....	Grapnel Rocket Mk 1 Mod 0 Used with Rocket Launcher Mk 26 Mod 0 (Preliminary)	17 Jul 45	C	
OP 1141.....	Aerial Targets and Associated Equipment Description and Instruction for Use (Reels Aircraft Target Mk 7) (Anti-Aircraft Mk 5 and Mods, Mk 9 and Type C-5)	20 Nov 44	R	See remarks for OP 1141 in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog (Target Reels)	4 May 44	R 2nd rev	See remarks for OP 865 in Part 1
*OP 1623.....	AA Target Reel Hydraulic System Mk 1 Mod 0		D	
*OP 1547.....	Anti-Aircraft Target Reel Mk 8 Mod 0		D	Now issued by BuAer. NAVAER No 28-10a-500
OMI V8-44...	Anti-Aircraft Target Reel C-5 Pinning of Drum Shaft and Hub	28 Apr 44	R	
OMI V11-45...	Anti-Aircraft Target Reels Type C-5 and Mk 9 Installation of Modified Level Winding Guide Roller Assembly	22 May 45	D	

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REFLECTORS				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 803.....	Illuminated Sight Mk 8, Description.....	Nov 1941	R	See remarks for OP 803 in Part 1
OD 2364.....	Instructions for Assembly of Radar Reflector and Installation on Target Sleds Series 40 and 60.....	30 Mar 44	D	
*OP 1652.....	Balloon-Borne Radar Reflector Type ML-309.....		R	
OP 1141.....	Aerial Targets and Associated Equipment Description and Instructions for Use (Radar Reflector).....	20 Nov 44	R	See remarks for OP 1141 in Part 1
OD 4649.....	Front-Surface Reflectors of Rhodium.....	13 Sep 43	R	
OTI FV1-44..	Illuminated Sight Mk 9 and Mods—Adjustable Reflector.....	11 Feb 44	R	Issued with OCL V23-43
OTI FV2-44..	Torpedo Director Mk 30 and Mod Adjustable Reflector..	18 Feb 44	R	Issued with OCL V23-43 and OP 982
REFRIGERATION				
OP 5.....	Ammunition Ashore Vol 1 (Refrigeration).....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
REGULATIONS				
OP 5.....	Ammunition Ashore Vol 1 (Regulations).....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
#OP 599.....	Ordnance Drafting Room Regulations.....	Aug 1939	D	1st rev. Issued with OCL X5-43
REGULATORS				
See also SELSYNS				
SYNCHROS				
OP 1066.....	Electric Hydraulic Drives and Indicator Regulators for 5"/38 Cal Single Mount Elevating and Training Gears.....	19 Jun 45	R	Supersedes ODs 3897 and 3902
*OD 3536.....	Train Test of 8" WICHITA Turret Arma Regulator and Waterbury Speed Gear.....			
*OD 3541.....	Train Test on 8" WICHITA Turret General Electric Regulator Waterbury Speed Gear.....			
*OD 3563.....	Train Test of 8"/55 Cal 3 Gun Turret with Ford Receiver Regulator and Waterbury Speed Gear.....			
OD 4390.....	Theory of an Electronic-Hydraulic Regulator for Ordnance Equipment Mathematical Discussion.....	17 Apr 42	R	
Regulators, Cross Level Receiver				
OD 2918.....	Modification of Cross Level Receiver Regulator Mk 3 to Train Receiver Mk 14 and Mk 14 Mod 1.....	7 Jan 42	R	Rev A
OD 4693.....	Installation, Adjustment and Maintenance of Power Control Head Collector Rings and Contacts for Director Control Mechanisms for Gun Director Mk 37 Train Receiver Regulator Mk 7 and Mods Elevation Receiver.....	20 Apr 44	R	
OP 1061.....	Director Control Mechanism for Gun Director Mk 37 (Arma Contact Type) (Cross Level Mk 3 Mod 0).....	Mar 1945	R	Supersedes ODs 2576, 2584 and OTI F4-44
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operation and Maintenance (Regulator Cross Level Receiver Mk 4 and Mk 4 Mod 2).....	1 Aug 44	R	See remarks for OP 1062 in Part 1. Supersedes OD 3901

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Regulators, Elevation Indicator				
OD 3780.....	Report of Accelerated Life Test on 5"/38 Cal Elevation Indicator Regulator and Electric Hydraulic Drive BBs 55 and 56	4 Sep 43	R	
*OD 5348.....	Ordinance Data for Elevation Indicator Regulator for 8"/55 Cal 3 Gun Turrets CA 139 Class			
*OD 3516.....	Description of Elevation Indicator Regulator Mk 2 Mod 2 and 1710 Mount Mk 2 Mod 1			
OD 2477.....	Description of Gun Elevation Indicator Regulator Mk 27 Mods 1 to 5 Fire Control System	13 Oct 36	R, 7th rev	
OD 3893.....	Description of Gun Train Indicator Regulator Mk 39 Mods 0 and 16 to 19 Elevation Indicator Regulator Mk 36 Mods 0, 1, 2, 3 and 4 Electric Hydraulic Training and Elevating Equipment for 5"/38 Cal Mounts Mk 24 Mod 2 (CV 8)	19 Nov 41	R	
OD 3871.....	Description of Gun Elevation Indicator Regulator Mk 39 AA Battery Fire Control System (CVs 2 and 3)	9 Oct 41	R 4th rev	
*OD 4193.....	Summary of Routine Tests of Electric Hydraulic Equipment for 5" Training and Elevating Gear Mk 9 and 10 for 5"/38 Mount, Twin, Train Indicator Regulator Mk 46 Elevation Indicator Regulator Mk 42			
Regulators, Electronic				
OD 4712.....	Experimental Electronic Regulator for Hydraulic Speed Gears Developed at the Naval Gun Factory	7 Apr 44	R	
Regulators, Elevation Receiver				
OP 966.....	14" Elevating Gear 14" Training Gear and Receiver-Regulator Controls USS TENNESSEE and CALIFORNIA	May 1943	R	Supersedes OP 310
OP 1069.....	Training and Elevating Receiver Regulators for 6"/47 Cal Triple Gun Turret	Aug 1944	R	Supersedes OD 2570 Supplements OP 833
*OD 3510.....	Description of Elevation Receiver Regulator for 16" Turrets BBs 57 to 60			
*OD 3512.....	16" Elevation Receiver Regulator BBs 61-66			
OD 1813.....	Description of Elevation Receiver Regulator Mk 1 Anti-Aircraft Fire Control System	23 May 33	R 2nd rev	
OP 857.....	Gun Director Mk 35 and Mk 36 with Associated Fire Control Equipment Description (Preliminary) (Regulator Elevation and Train Receiver Mk 2)	Jan 1942	R	Supersedes OD 3319
OD 3049.....	Instruction Book for Train Receiver Regulator Mk 2 Elevation Receiver Regulator Mk 2 and Supplementary Equipment	24 Mar 39	R Rev B	
OD 3050.....	Instruction Book for Train Receiver Regulator Mk 3 Elevation Receiver Regulator Mk 3 and Supplementary Equipment	1 Mar 39	R Rev B	
OD 4255.....	Elevation Receiver Regulator Mk 3 Alterations to Permit Gun Movements between -5° and +60° (Instead of Between -5° and +41° as Originally Installed)	2 Jun 43	D	
OP 1061.....	Director Control Mechanism for Gun Director Mk 37 (Arma Contact Type) (Elevation Receiver Regulator Mk 6 Mods 0 and 1)	Mar 1945	R	Supersedes ODs 2576, 2584 and OTI F4-44

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Regulators, Elevation Receiver				
OD 4693.....	Installation, Adjustment and Maintenance of Power Control Head Collector Rings and Contacts for Director Control Mechanisms for Gun Director Mk 37 Train Receiver Regulator Mk 7 and Mods Elevation Receiver Regulator Mk 6 and Mods Cross Level Receiver Regulator Mk 3	20 Apr 44	R	
OD 4168.....	Instructions for Installation of Gun Elevation Receiver Regulator Mk 7 for 5" Elevating Gear Mk 3 Mod 1, 5"/38 Cal Twin Mount Mk 29 Used on CLs 49 and 50	24 Sep 41	D	
*OP 1568.....	Elevation Receiver Regulators Mk 8 and Mods and Train Receiver Regulators Mk 13 and Mods for 6", 8", 14" and 16" Turrets and Mounts—Interchangeability		R	
OP 966.....	14" Elevating Gear 14" Training Gear Receiver-Regulator Controls <i>USS TENNESSEE</i> and <i>CALIFORNIA</i>	May 1943	R	Supersedes OP 310
OD 3508.....	Description of Elevation Receiver Regulator Mk 10 and Mk 14 for Elevation Electric-Hydraulic Control 16" 3 Gun Turrets	Undated	R	
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description Operation and Maintenance	1 Aug 44	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for <i>USS ALASKA</i> , <i>GUAM</i> and <i>HAWAII</i> , (Preliminary) (Elevation Receiver Regulator Mk 16)	25 Oct 44	R	See remarks for OP 835 in Part 1
*OP 1349.....	Elevation Receiver Regulator Mk 17 for Gun Director Mk 34		D	
Regulators, Fuze Setting Indicator				
OD 2655.....	Anti-Aircraft Fire Control Instrument for Fuze Setting Indicator Regulator Mk 8 DDs 400, 401, CV 7, CA 45, CLs 46-48	28 Jan 38	R	
OD 2656.....	Anti-Aircraft Fire Control Instrument for Fuze Setting Indicator Regulator Mk 8 Mod 2	18 May 38	R	
OD 2593.....	Fuze Setting Indicator Regulator Mk 8 Mod 3.....	21 Feb 40	R	
OD 2594.....	Fuze Setting Indicator Regulator Mk 8 Mod 4.....	13 Mar 40	R	
OD 2903.....	Report of Tests Fuze Setting Indicator Regulator Mk 8 Mod 4	11 Jan 41	R	Rev A
OD 2587.....	Fuze Setting Indicator Regulator Mk 8 Mod 6.....	17 Dec 40	R	
OD 2588.....	Fuze Setting Indicator Mk 8 Mod 7.....	20 Jul 42	R	Rev A
OD 2579.....	Fuze Setting Indicator Regulator Mk 8 Mod 9 Description CVs 9-12 and 20-21, CVs 13-19, CAs 24-39, 44, CLs 40-43, 46-48, CVs 2-4	1 Jun 42	R	Rev A. Superseded in part by OP 735 1st rev
OP 1027B.....	Fuze Setting Indicator Regulator Mk 8 Mod 10, (Preliminary)	12 Jul 45	R	
OD 4579.....	Report of Tests on Fuze Setting Indicator Regulator Mk 9 for Use with 5"/38 Cal Twin Mount Projectile Hoists Mk 3 (RH) and Mk 3 Mod 1 (LH)	27 Sep 43	R	Rev A
OD 2569.....	Fuze Setting Indicator Regulator Mk 9 and Mk 9 Mod 1	4 Jan 45	R	Rev A
Regulators, Gun Train Indicator				
OD 2476.....	Description of Gun Train Indicator Regulator Mk 29 Mods 1 to 5 Fire Control System	3 Oct 36	R	9th rev
OD 4170.....	Instructions for Installation of Parallax Zero—Reader Dial on Gun Train Indicator Regulator Mk 38 Mods 1 to 10	2 May 42	R	

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Regulators, Gun Train Indicator				
OD 3893.....	Description of Gun Train Indicator Regulator Mk 39, 19 Nov 41 R. Mod 0 and 16 to 19, Elevation Indicator Regulator Mk 36 Mod 0, 1, 2, 3 and 4 Electric Hydraulic Training and Elevating Equipment for 5"/38 Cal Mounts Mk 24 Mod 2 (CV8)	19 Nov 41	R	
OD 3872.....	Description of Gun Train Indicator Regulator Mk 43 AA Battery Fire Control System (CVs 2 and 3)	9 Oct 41	R	3rd rev
*OD 4193.....	Summary of routine tests of Electric Hydraulic Equipment for 5" Training and Elevating Gear Mk 9 and 10 for 5"/38 Mount, Twin, Train Indicator Regulator Mk 46 Elevation Indicator Regulator Mk 43			
Regulators, Gyro Setting Indicator				
OP 1169.....	Gyro Setting Indicator Regulator Mk 1 Mods 0 1, 2 and 3	Dec 1944	R	Supersedes OD 2585
Regulators, Selsyn Receiver				
OD 1802.....	Description of Selsyn Receiver Regulator Model 81E127 Frame 65 Flange Mounted	23 May 33	R	1st rev
OD 1805.....	Description of Selsyn Receiver Regulator Model 81E129, Frame 65 Flange Mounted	17 Mar 33	R	2nd rev
OD 2706.....	Instructions for Setting Electrical Zero Selsyn Generators, Motors, Transformers, and Receiver Regulators--General Electrical	11 Jul 33	R	
Regulators, Train Receiver				
OP 1069.....	Training and Elevating Receiver Regulators for 6"/47 Cal Triple Gun Turret	Aug 1944	R	Supersedes OD 2570
*OD 5349.....	Ordnance Data for Train Receiver Regulator 8"/55 Cal 3 Gun Turrets CA 139 Class			Supplements OP 833
OP 966.....	14" Elevating Gear 14" Training Gear and Receiver Regulator Controls USS TENNESSEE and CALIFORNIA	May 1943	R	Supersedes OP 310
*OD 3511.....	Description of Training Receiver Regulator 16" Turrets BBs 57 to 60			
*OD 3513.....	16" Train Receiver Regulators BBs 61-66			
OD 1814.....	Description of Train Receiver Mk 1 Anti-Aircraft Fire Control System	23 May 33	R	1st Rev
OD 3049.....	Instruction Book for Train Receiver Regulator Mk 2 Elevation Receiver Regulator Mk 2 and Supplementary Equipment	24 Mar 39	R	Rev B
OD 3050.....	Instruction Book for Train Receiver Regulator Mk 3 Elevation Receiver Regulator Mk 3 and Supplementary Equipment	1 Mar 39	R	Rev B
OD 2911.....	Installation Instructions for Parallax Change Gears in Train Receiver Regulator Mk 7	8 Apr 41	R	
OD 4693.....	Installation, Adjustment and Maintenance of Power Control Head Collector Rings and Contacts for Director Control Mechanisms for Gun Director Mk 37 Train Receiver Regulator Mk 7 and Mods Elevation Receiver Regulator Mk 6 and Mods Cross Level Receiver Regulator Mk 3	20 Apr 44	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Regulators, Train Receiver				
OP 1061.....	Director Control Mechanism for Gun Director Mk 37 (Arma Contact Type) (Regulator Mk 7 Mods 1 and 2)	Mar 1944	R	Supersedes QDs 2576, 2584 and OTI F4-44. See remarks for OP 1061 in Part 1.
OD 3860.....	Description of Train Regulator Mk 8 for 8" Training Gear Mk 18	28 Mar 40	R	See remarks for OP 1061 in Part 1.
OD 4167.....	Instructions for Installation of Gun Train Receiver Regulator Mk 12 for Training Gear Mk 3 Mod 1 5"/38 Cal Twin Mount Mk 29 Used on CLs 49 and 50	24 Sep 41	OD	See remarks for OP 1061 in Part 1.
*OP 1568.....	Elevation Receiver Regulators Mk 8 and Mods and Train Receiver Regulators Mk 13 and Mods for 6", 8", 14" and 16" Turrets and Mounts—Interchangeability		R	See remarks for OP 1061 in Part 1.
OD 4522.....	Installation Instructions for Compensating Parallax Change Gears for Train Receiver Regulator Mk 13 Mods 1 to 8 and 15 to 19 for 6" Training Gear Mk 2 Mod 1	Undated	R	See remarks for OP 1061 in Part 1.
OP 966.....	14" Elevating Gear 14" Training Gear Receiver-Regulator Controls USS TENNESSEE and CALIFORNIA	May 1943	R	Supersedes OP 310. See remarks for OP 1061 in Part 1.
OD 2572.....	Description of Train Receiver Regulator Mk 14 and Mk 14 Mod 1	16 Jul 42	R	Rev B. See remarks for OP 1061 in Part 1.
OD 2918.....	Modification of Cross Level Receiver Regulator Mk 3 to Train Receiver Mk 14 and Mk 14 Mod 1	7 Jan 42	R	Rev A. See remarks for OP 1061 in Part 1.
OD 3509.....	Description of Train Receiver Regulators Mk 15 and Mk 18 for Train Electric Hydraulic Control 16" 3 Gun Turrets	11 May 44	R	1st rev. See remarks for OP 1061 in Part 1.
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operation and Maintenance	1 Aug 44	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1.
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM and HAWAII, (Preliminary) (Regulator's Mks 22, 22 Mods 1 and 2)	25 Oct 44	R	See remarks for OP 835 in Part 1. See remarks for OP 1061 in Part 1.
Regulators, Training Gear				
OD 3701.....	16" Training Gear Regulator Firing and Non-Firing Tests (USS NORTH CAROLINA BB 55)	12 Sep 41	R	See remarks for OP 1061 in Part 1.
Regulators, Voltage				
OHI FV5-44..	Carbon Pile Voltage Regulator Mk 1	3 Aug 44	D	See remarks for OP 1043 in Part 1.
OP 1043.....	Service Manual for Gun Sight Mk 18 and Mods (Voltage Regulator Mk 1)	Sep 1943	R	See remarks for OP 1043 in Part 1.
OP 1043A....	Illustrated Parts Catalog for Gun Sight Mk 18 and Mods (Voltage Regulator)	Sep 1943	R	Includes OP 1043D. See remarks for OP 1043 in Part 1.
NavOrd Chart FV5-43	Carbon Pile Mk 1 Voltage Regulator	Undated	OD	See remarks for OP 1043 in Part 1.
OP 1478.....	Rocket Sight (Aircraft) Mk 1 Mod 0 (Voltage Regulator Mk 1 Mod 1)	10 Jul 45	C	See remarks for OP 1043 in Part 1.
RELAYS				
OP 1219 O.....	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219 O in Part 1.
OD 3748.....	Report of Tests on Vapor Overload Relays	19 Jan 42	R	See remarks for OP 1061 in Part 1.
OD 4950.....	Report of Hi Shock Test of Sight Light Corp. Relay for Gun Captain's Control Panel Mk 24 Mod 0 and National Acme Relay	15 Feb 46	R	See remarks for OP 1061 in Part 1.

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RELAYS				
OD 2503.....	Description of Synchro Control Relay 5CR Mk 1 Mod 2	24 Feb 38	R	6th rev
OD 3028.....	Description of Synchro Overload Relay 2M3 Mk 1 Mod 1	14 Apr 37	R	Rev A
RELEASES				
See also	RACKS, BOMB			
	SHACKLES, BOMB			
	TARGETS			
	TRACKS, DEPTH CHARGE			
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1342.....	Bomb Shackle Mk 8 Mods 0 and 1, Bomb Shackle Release Mk 1 Mods 0 and 1, Bomb Shackle Release Mount Mk 1 Mods 0 and 1	28 Mar 45	R	Now issued by BuAer, NAV-AER No. 11-5-521
OP 1071.....	Release Bomb Rack Type AN-A-2A.....	30 Sep 43	R	Now issued by BuAer NAV-AER No. 11-5-516
TO 11-5-55...	Bomb Rack Release Type A-4.....	6 Sep 43	R	War Dept Publication
OD 3764.....	N-2 Bomb Shackle Release Operation and Service Instructions	23 Apr 43	R	
OTI V20-43...	Release Bomb Shackle Type N-2.....	25 May 43	R	
OTI V28-43...	Release Bomb Shackle Type N-2 Correct Installation Procedure	23 Jun 43	R	
OP 1374.....	Bomb Shackle Release Type P9E.....	26 Jun 45	R	Now issued by BuAer, NAV-AER No. 11-5-524
OP 1141.....	Aerial Targets and Associated Equipment Description and Instructions for Use (<i>Targets and Target Line Releases</i>)	20 Nov 44	R	See remarks for OP 1141 in Part I
REMOTE CONTROL SYSTEMS, See SYSTEMS				
REPORT FORMS				
See also	ORDNANCE EQUIPMENT, REPORTS ON			
OHI F2-45....	Anti-Fog Compound I-Y, Request for Test and Report.,	16 May 45	R	
RESTS, SHOULDER				
OP 911.....	20-mm Gun; 20-mm Machine Gun Mechanisms Mk 2 and 4; 20-mm Gun Barrels Mk 2, 3, 4 and 4 Mods 1 and 5; 20-mm Magazines Mk 2 and 4; 20-mm Shoulder Rests Mk 2, 4, 5 and 5 Mod 1—Description	Mar 1943	D	See remarks for OP 911 in Part 1
OP 1439.....	20-mm AA Assemblies (Twin); 20-mm AA Gun Mounts Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods; 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter Equipment Mk 2 Mod 0; 20-mm Machine Gun Mechanism Mk 4 Mod 1; 20-mm Magazine Mk 5 Mod 0	28 Apr 45	D	See remarks for OP 1439 in Part 1
RETICULES				
See also	SIGHTS			
OP 865.....	Aviation Ordnance Equipment Catalog (<i>for Illuminated Sights</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
REVOLVERS				
See also	PISTOLS			
	SMALL ARMS			
TM9-1295	Pistols and Revolvers.....	9 Nov 42		War Dept Publication

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
REVOLVERS				
SNL B-29....	Revolver Colt Cal .38 Special (Commando and Junior Commando) Revolver Smith and Wesson Military and Police Cal .38 Regular (38/200) and Cal .38 Special			War Dept Publication
RHEOSTATS				
OD 2704.....	Test of Rheostats Mk 8 for Dimming Mazda.....	Undated	D	
RIFLES				
#OP 127.....	U. S. Naval Guns their Mk and Mods Description....	Apr 1942	R	3rd Rev
SNL B-25 (ORD 7)	Rifle, Cal .22 (Commercial).....			War Dept Publication
TM9-1211	Browning Automatic Rifle Cal .30 All Types.....	1 Mar 42		War Dept Publication. Issued with TB9-1211-FE1
TM9-1275	Ordnance Maintenance, U. S. Rifle, Cal. .30 M1.....	6 Nov 42	R	War Dept Publication
FM23-5	Basic Field Manual, U. S. Rifle Cal .30 M1.....	30 Jul 43	D	War Dept Publication
SNL B-21 (ORD 7)	Rifle, U. S. Cal .30 M1.....			War Dept Publication
SNL A-4.....	Rifle Automatic Cal .30 Browning M1918A2.....			War Dept Publication
OTI G6-44....	Browning Automatic Rifles M1918A2 Method for Obtaining Single Round Semi-Automatic Firing	19 Apr 44	R	
FM23-15	Browning Automatic Rifle Caliber .30 M1918A2.....	30 Jun 43	R	War Dept Publication
TB9-1211-FE1.	Browning Automatic Rifle Cal .30 M1918A2 Modification of Sear Spring B19662	22 Feb 45	R	War Dept Publication. Issued with TM9-1211
TB9-1211-FE2.	Browning Automatic Rifle Cal .30 M1918A2, Correction of Thread Stripping in Screw Hole in Inner Butt Plate Assembly	16 Jul 45	R	War Dept Publication. See remarks for TB9-1211 FE2 in Part 1
OP 289A.....	12" Naval Rifles Description.....	Aug 1918	D	
RIFLES GRENADES, See GRENADES				
RINGS				
See also	RELEASES			
	TARGETS			
OP 1219 O....	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219 O in Part 1
OP 1219A	Ammunition Code Catalog, Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 1141.....	Aerial Targets and Associated Equipment Description and Instructions for Use	20 Nov 44	R	See remarks for OP 1141 in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog (Release).....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary) (Projectile Rings Mk 1 and 2)	25 Oct 44	R	See remarks for OP 835 in Part 1
OD 3503.....	Test of Electric Hydraulic Drive for 16" Projectile Ring	12 Mar 40	R	Rev B
OD 3476.....	16"/45 Cal 3 Gun Turret 16" Projectile Ring Mk 1	Mar 1940	R	
	Electric Hydraulic Equipment—Description of Circuit and Units with Instructions for Installation, Adjustments and Operation and Repair			
OD 3451.....	Description of Circuit and Units with Instructions for Installation, Adjustment, Operation and Repair for Electric Hydraulic Drive for 16" Projectile Ring Mk 2 (16"/50 Cal 3 Gun Turrets)	30 Oct 41	R	

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RINGS				
OD 5263.....	Routine Test Data Power Drives for 16" Projectile Ring Mk 2 (16"/50 Cal 3 Gun Turrets) Electric Hydraulic Drive	3 Aug 43	R	
ROCKETS				
See also	AMMUNITION BOMBS, AP ROCKET FUZES, ROCKET LAUNCHERS PROJECTORS PYROTECHNICS SIGHTS, ROCKET SIGNALS TABLES, RANGE, ROCKET			
OP 1164.....	Ballistic Testing of Rocket Propellants.....	26 Aug 44	R	
OP 1219B....	Ammunition Code Catalog, Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1219J.....	Ammunition Code Catalog, Class J, Projector Charge and Rocket Ammunition Assemblies	13 Jul 45	R	1st rev. See remarks for OP 1219J in Part 1
OP 1219N....	Ammunition Code Catalog, Class N, Fleet Return Projector Charge and Rocket Ammunition	13 Jul 45	R	1st rev. See remarks for OP 1219N in Part 1
TM9-1900	Ammunition, General	18 Jun 45	R	War Dept Publication. See remarks for TM9-1900 in Part 1
OP 1330.....	Mine Disposal Handbook	1 Nov 44	C	Accountable. Issued to Mine Disposal Personnel only
*OP 1415.....	Rocket Assemblies		R	
SNL S-9 (ORD 11)	Rockets, All Types and Components.....			War Dept Publication
SNL S-10 (ORD 11)	Obsolete and Non-Standard Bombs, Grenades, Pyrotechnics and Rockets			War Dept Publication
OP 1158.....	Handling of Forward-Firing Rocket Equipment Aboard Kaiser Class Carriers	16 Mar 44	R	With Change 1 dated 30 Jun 44, Change 2 dated 8 Sep 44
OP 1443.....	Grapnel Rocket Mk 1 Mod 0 used with Rocket Launcher Mk 26 Mod 0 (Preliminary)	17 Jul 45	C	
OHI AV20-43.	Assembling Instructions for Signal, Drift, Night, Rocket Mk 15 and Mk 15 Mod 1 and Mk 16 and Mk 16 Mod 1	22 Sep 43	D	
OHI AV1-45...	2"25 Aircraft Rockets (Sub-Caliber)	3 Apr 45	R	Supersedes OHI AV9-44
OP 1187.....	2"25 Sub-Caliber Aircraft Rocket, Description and Instructions for Use	10 Feb 45	R	
OP 1415.....	Rocket Assemblies (Preliminary).....	7 Apr 45	C	Supersedes OD 5368
FM23-30	Hand and Rifle Grenades, Rocket, AT, HE, 2.36-inch.	14 Feb 44	R	War Dept Publication
TB ORD 273..	Precautions in Handling 2"36 AT HE Rocket M6A3C...	26 Mar 45	R	War Dept Publication. See remarks for TB ORD 273 in Part 1
OP 1002.....	7"2 Rocket Launchers Mk 20 and 22 and Ammunition	30 Nov 43	C	1st rev. See remarks for OP 1002 in Part 1
OP 1175.....	3"25 Rockets Target.....	31 Jul 44	R	See remarks for OP 1175 in Part 1
OP 1235.....	Manual for the Computation of Effective Rocket Temperatures in Rockets Using 3"25 Motors	14 Aug 44	R	
OP 1576.....	3"5 Rocket (Aircraft) (Flare) Mk 6 Mod 0	8 Aug 45	R	
OP 1469.....	3"5 Window Rockets and Rocket Launchers Mk 32 Mods 0 and 1	9 Aug 45	C	Supersedes OP 1165

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ROCKETS				
OP 1157.....	Rocket Ammunition, 3"5 and 5"0 Aircraft Rockets (3"25 Motors) Description and Instructions for Use	23 Mar 45	R	1st rev. See remarks for OP 1157 in Part 1
OHI AV5-45...	11"75 Aircraft Rocket Mk 3 Mod 0.....	24 May 45	R	
NavOrd Chart A11-44.....	3"75 Rocket Ammunition.....	Undated		
OP 1131.....	4"75 Rocket Launcher Mk 7 (Experimental) Description and Instructions for Use	17 Jul 44	R	See remarks for OP 1131 in Part 1
OTI A3-44.....	4"75 Rocket (WP Smoke) (Assembly No 4, 5SMO13)...	16 May 44	R	Issued with OPs 1017 1st rev, 1042, 1111
NavOrd Chart A12-44.....	4"75 Rocket Ammunition	Undated		
OP 1239.....	5"0 Rocket (5"0 Motor, Fin Stabilized) (Preliminary)...	8 Dec 44	R	See remarks for OP 1239 in Part 1
OP 1260.....	Rocket Ammunition, 5"0 Rocket (5"0 Motor) Spin Stabilized (Preliminary)	6 Feb 45	R	See remarks for OP 1260 in Part 1
OHI A6-45...	5"0 Rocket (5"0 Motor) Spin Stabilized.....	2 Aug 45	R	Supersedes OHI A12-44
OHI AV2-45...	5"0 Aircraft Rocket Mk 4 Mod 0.....	12 Apr 45	R	
OHI A5-45...	5"0 Rocket (Surface High Capacity, SS) Mk 10 Mod 1 with VT Fuze	20 Jul 45	R	
OHI AV4-45...	5"0 Aircraft Rocket Mk 1, Mod 5.....	16 May 45	R	
NavOrd Chart A19-44.....	5"0 Rocket Ammunition (3"25 Motor).....	Undated		
OHI A5-44.....	Installation of NF Mk 152 in 7"2 Demolition Rocket Body for Use against Land Mines etc	24 Mar 44	R	
NavOrd Chart A13-44.....	7"2 Rocket Ammunition.....	Undated		
OP 1227.....	11"75 Rocket Ammunition, Description and Instructions for Use	13 Mar 45	C	1st rev. With Change 1 dated 17 May 45, Change 2 dated 5 Jun 45. Now issued by BuAer, NAVAER No 11-75b-501
ROPE				
See also.....	CABLES WIRES			
OD 2915.....	General Instructions Relating to the Socketing of Wire Rope	25 Oct 41	D	
RUST PREVENTION				
OTI T2-43.....	Instructions for Use of Rust Preventative Compound, Polar Type Grade III, in Preservation of Torpedoes	31 May 43	R	
SAFETY				
See also.....	EQUIPMENT BY SUBJECTS			
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part I
TM9-2210.....	Instruction Guide--Small Arms Accidents, Malfunctions and Their Causes	11 Jul 42		War Dept Publication
#OP 4.....	Ammunition, Instructions for the Naval Service Afloat.....	3 May 43	R	Revised. See remarks for OP 4 in Part I
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34A-43

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SAFETY				
*OP 1462.....	Safety Data for AA Guns.....			Will supersede OD 3326
OD 3326.....	AA Safety Data 5"/38, 5"/25 and 3"/50 Guns.....	1 Nov 41	R	Rev A. Supersedes ODs 1822 and 2099. Will be superseded by OP 1462, b:Ove
TM9-1900.....	Ammunition, General.....	18 Jun 45	R	War Dept Publication. See remarks for TM9-1900 in Part I
OP 1014.....	Gunnery Safety Precautions Their Origin and Necessity	12 Jul 43	D	
OP 1002.....	7.2 Rocket Launchers Mk 20, Mk 22 and Ammunition..	30 Nov 43	C	1st rev. With Change 1 dated 12 Sep 44. Supersedes OCLs A69-43, G4-42 and G13-43
Form 00 7224..	Ordnance Safety Manual Regulations Governing the Manufacture, Storage, Loading and Handling of Military Explosives and Ammunition at Establishments of the Ordnance Dept U. S. A.	3 May 45	D	War Dept Publication
SALT SPRAY EQUIPMENT				
OD 2955.....	Salt Spray Test Equipment Description of Operation..	5 Jun 43	D	
SALVOLATCH, See MECHANISMS, BREECH				
SCALES				
OP 959.....	Range Conversion Scale Mk 1 Operating Instructions..	Apr 1943	R	Supersedes OD 4435
SEALS				
*OP 1654.....	Maintenance and Lubrication of Charleston Auxiliary Metal Sheath Type Gun Port Seals		R	
OD 2947.....	5" Shield Mk 31 Mod 1, Barbette Water Seals and External Type Training Stop Buffers for 5" Mount Mk 32 Mods 3 and 4 Installation Instructions	16 Oct 44	D	Rev B
OD 3639.....	5" Mount Mk 28 Mod 1, 5" Shield Mk 29 and Barbette Water Seals for CLs 51-54 incl Installation Instructions	14 Oct 44	D	Rev C
OD 3640.....	5" Mount Mk 28 and Mk 28 Mod 2, 5" Shield Mk 28 and Mk 28 Mod 1 and Barbette Water Seals for BBs 55-60 Installation Instructions	14 Oct 44	D	Rev B. Supersedes OD 3621
OD 3770.....	5" Shield Mk 31 and Barbette Water Seals for 5" Mount Mk 32 and Mk 32 Mods 2 and 6 Installation Instructions	16 Oct 44	R	Rev D
OD 3773.....	5" Shield Mk 30 and Barbette Water Seals for 5" Mount Mk 28 and Mk 28 Mod 2 for BBs 61 to 66 incl Installation Instructions	12 Oct 44	D	Rev B
OD 3777.....	5" Shield Mk 33 and 36 and Barbette Water Seals for 5" Mount Mk 32 and Mk 32 Mods 2 and 6 Installation Instructions	16 Oct 44	R	Rev C
OD 3779.....	5" Shield Mk 34 and Barbette Water Seals for 5" Mount Mk 32 Mods 1 to 7 Installation Instructions	16 Oct 44	R	Rev C
OP 1219M.....	Ammunition Code Catalog, Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part I
SEARCHLIGHTS, See ATTACHMENTS, SEARCHLIGHT TRAINING DATA, PARALLAX CORRECTORS, SEARCHLIGHT				

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
SELECTORS, RACK				
See also	RACKS, BOMB			
*OP 1617.....	Interval Selector Mk 1 Mod 0, Interval Generator Mk 1 Mod 0		R	See remarks for OP 1617 in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog (Rack Selector Type RS-2)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1072.....	Selector Bomb Rack Types RS-2	29 Sep 43	R	Now issued by BuAer, NAVAER No 11-5-514
OD 3763.....	Type RS-2 Rack Selector Operation and Service Instructions	23 Apr 43	R	1st rev.
OTI V2-44.....	RS-2 Selector Sealing of	10 Jan 44	R	Issued with OP 1072
SETTERS, FUZE, See FUZE SETTERS				
SHACKLES, BOMB				
See also	RACKS, BOMB			
	RELEASES			
	SELECTORS			
OP 865.....	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 878.....	General Data on Navy, AN-Standard, Army, and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1
OTI V44-43...	Bomb Rack and Shackle Latching Tools	24 Apr 44	R	
OTI V14-44...	Aircraft Depth Bombs, Instructions for Installation of Arming Wires on Bomb Racks and Bomb Shackles	20 Jun 44	R	Issued with OPs 988 and 1084
OP 978.....	Bomb Shackles Mk 3 and Mk 3 Mods 1, 2, and 3	Mar 1943	R	Now issued by BuAer, NAVAER No 11-5-509
OMI V5-45...	Bomb Shackles Mk 3 and Mk 3 Mods 1, 2, and 3—Addition of Bomb Lug Displacing Bracket	21 Mar 45	D	Issued with OP 978
NavOrd Chart V1-43	Instruction Chart Bomb Shackle Mk 3 Mods 2-3	16 Aug 43	D	
OMI V6-44...	Bomb Shackles Mk 3 Type and Mk 4 Type Modification of Pawl Latching Lever	17 Apr 44	D	Issued with OPs 978, 975
OMI V2-44...	Bomb Shackle Mk 4 Type Replacement of Lower Solenoid Retaining Bolts with Revised Bolts	7 Feb 44	D	Issued with OPs 865, 976
OTI V8-44...	Bomb Shackle Mk 4 and Mods Operational and Maintenance Instructions	30 Mar 44	R	Issued with OP 976
OP 976.....	Bomb Shackles Mk 4 and Mk 4 Mods 1, 2, 3	Apr 1943	R	Now issued by BuAer, NAVAER No 11-5-508
OMI V19-44...	Bomb Shackles Mk 4 and Mk 4 Mods 1, 2, and 3 Addition of Bomb Lug Displacing Bracket	22 Jul 44	D	Issued with OP 976
NavOrd Chart V2-43	Instruction Chart Bomb Shackle Mk 4 Mods 2 and 3	16 Aug 43	D	
NavOrd Chart V5-43	Instruction Chart Bomb Shackle Mk 5	16 Aug 43	D	Now issued by BuAer, NAVAER No 11-5-507
OMI V9-44...	Provisions for Locking Bomb Shackles Mk 5 and Mods	29 Apr 44	R	Issued with OP 977
OP 977.....	Bomb Shackles Mk 5 Mods 1 and 2	Mar 1943	R	
OD 5244.....	Mk 6 and Mk 6 Mod 1, Mk 7 and Mk 7 Mod 1, Left and Right Hand Bomb Shackles	12 Jul 43	D	Issued to British only
OP 1342.....	Bomb Shackle Mk 8 Mods 0 and 1, Bomb Shackle Release Mk 1 Mods 0 and 1, Bomb Shackle Release Mount Mk 1 Mods 0 and 1	28 Mar 45	R	Now issued by BuAer, NAVAER No 11-5-521
OMI V21-45...	Provisions for Locking Bomb Shackle Type AN-B-10	8 Nov 45	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
SHACKLES, BOMB				
TO 11-5-27...	Bomb Shackles Type B-7.....	10 Oct 42		War Dept Publication
TO 11-5-35...	Bomb Shackles Type B-9.....	31 Oct 42		Do
TO 11-5-66...	Bomb Racks Bomb Shackle B-10.....	15 Jan 44		Do
TO 11-5-10...	Bomb Shackles Types D-4, D-6 and D-7.....	7 May 42		Do
OTI V15-44...	Interstate Bomb Shackles D-820, D-820 Mod 1 and D-820 Mod 2	9 Jun 44	R	Do
TO AN11-5-73	Handbook of Instructions with Parts Catalog for Bomb Shackles Models 820, 820-2, (Interstate Aircraft and Eng Corp)	25 Nov 44		War Dept Publication
SHELLS				
See also	AMMUNITION, SMALL ARMS			
	MORTARS			
OP 1219B....	Ammunition Code Catalog, Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1219Q....	Ammunition Code Catalog, Class 6, Marine Corps and Landing Force Ammunition.....	15 Jan 45	R	See remarks for OP 1219Q in Part 1
OP 1464.....	False Target Shell Mk 1 Mod 0 and False Target Can Mk 2 Mod 0	24 Mar 45	C	See remarks for OP 1464 in Part 1
OP 1219M....	Ammunition Code Catalog, Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
SHIELDS				
See also	MOUNTS			
OD 3908.....	Description of Rangefinder Stabilizer Mk 3 Mod 8 for Gun Directors Mk 38 (any Mod) Shield Mk—for BBs 55 to 66 incl and CBs 1 and 2	25 Sep 43	R	2nd rev
OD 3215.....	Description of Gun Directors Mk 34 Mods 4 and 5 including Shields Mk 1 (CA 45)	Undated	R	3rd rev
OD 3220.....	Description of Gun Directors Mk 34 Mods 6 and 7 including Shield Mk 1 (CLs 49-50)	18 Jan 40	R	3rd rev
OD 3905.....	Description of Rangefinder Stabilizer Mk 3 Mod 6 and Elastic Supports for Gun Directors Mk 34 Mods 4, 5, 6 and 7 (Shield Mk 1) for CA 45, CLs 49 and 50 and for Gun Directors Mk 34 Mods 8, 9, 10, 11, 14, 15, 16, 17 and 18 (Shield Mk 7) for CLs 55-58 incl 60, 62-67 incl 80-83 incl 86, 87, 89-94 incl 103-111 incl CAs 68-75 incl BBs 43, 44 and 48	22 Nov 43	R	5th rev
OD 2539.....	Description of Gun Directors Mk 34 and Mk 34 Mod 1 Description with Shield Mk 5	19 Dec 39	R	15th rev
OD 3219.....	Description of Power Motor Director Shield Mk 5 Automatic Train Control CLs 40 to 43 and 46 to 48	21 Aug 41	D	2nd rev
OD 3868.....	Description of Rangefinder Stabilizer Mk 3 Mod 5 for Gun Directors Mk 34 and Mk 34 Mod 1 (Shield Mk 5) for CLs 40-43, 46-48	15 Mar 42	R	5th rev
OD 4786.....	Gun Director Mk 33 Mod 5 with Shield Mk 10, Test of Deck Tilt Computer	30 Apr 45	R	
OP 1439.....	20-mm AA Assemblies (Twin); 20-mm AA Gun Mounts Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods; 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter Equipment Mk 2 Mod 0; 20-mm Machine Gun Mechanism Mk 4 Mod 1; 20-mm Magazine Mk 5 Mod 0 (Shield Mks 6 Mod 0 and 7 Mod 0)	28 Apr 45	D	See remarks for OP 1439 in Part 1
*OD 4575.....	3"/50 Mount Mk 22 Mod 3 and 3" Shield Mk 14 Installation Instructions			

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OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (Shield Mk 20, 21, 21 Mod 1)	22 Dec 43	R. 1st rev.	See remarks for OP 811 in Part 1, 02-0001-001
OD 2946.....	Tabulation and Identification of Shields and Partial Shields for Use with 5"/38 Cal AA Mounts Mk 30 and Mods (Open and Enclosed Type)	24 Nov 43	D. Rev. A	
OP 700.....	5" Mounts (38 Cal AA Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, 11—Assemblies, Description and Instructions (Shield Mk 22 Mod 1)	Sep 1943	R	See remarks for OP 700 in Part 1, 02-0001-001
OD 3721.....	5"/38 Cal AA Single Gun Mounts Mk 30 Mods 12, 13, 16, 17, 18, 19, 25, 28 and 32, 5" Shield Mk 25 and Mk 25 Mods 1, 2, 3, 4, and 5 Installation Instructions	25 Sep 44	D. Rev. B	
OD 3640.....	5" Mount Mk 28 and Mk 28 Mod 2 5" Shield Mk 28 and Mk 28 Mod 1 and Barbette Water Seals for BB 55-60 Installation Instructions	14 Oct 44	D. Rev. B	Supersedes OD 3621
OD 3639.....	5" Mount Mk 28 Mod 1, 5" Shield Mk 29 and Barbette Water Seals for CLs 51-54 incl Installation Instructions	14 Oct 44	D. Rev. C	
OD 3773.....	5" Shield Mk 30 and Barbette Water Seals for 5" Mount Mk 28 and Mk 28 Mod 2 for BBs 61 to 66 incl Installation Instructions	12 Oct 44	D. Rev. B	
OD 3770.....	5" Shield Mk 31 and Barbette Water Seals for 5" Mount Mk 32 and Mk 32 Mods 2 and 6 Installation Instructions	16 Oct 44	R. Rev. D	
OD 2947.....	5" Shield Mk 31 Mod 1 Barbette Water Seals and External Type Training Stop Buffers for 5" Mount Mk 32 Mods 3 and 4 Installation Instructions	16 Oct 44	D. Rev. B	
OD 4604.....	5" Shields Mk 33 Mod 1 and Mk 36 Mod 1 Barbette Water Seals and External Type Training Stop Buffers for 5"/38 Cal Twin Gun Mounts Mk 32 Mods 3 and 4 Installation Instructions	16 Oct 44	R. Rev. A	
OD 3777.....	5" Shields Mk 33 and 36 and Barbette Water Seals for 5" Mount Mk 32 and Mk 32 Mods 2 and 6 Installation Instructions	16 Oct 44	R. Rev. C	
OD 3779.....	5" Shield Mk 34 and Barbette Water Seals for 5" Mount Mk 32 Mods 1 and 7 Installation Instructions	16 Oct 44	R. Rev. C	
OD 4603.....	5" Shield Mk 34 Mod 1, Barbette Water Seals and External Type Training Stop Buffers for 5" Mount Mk 32 Mod 5 Installation Instructions	16 Oct 44	R. Rev. A	
OD 2938.....	Installation Instructions for 5" Shields Mk 38 and Mk 38 Mod 1 5"/38 Cal AA Single Gun Mounts Mk 30 and Mods	25 Sep 44	D. Rev. C	
OD 4643.....	Installation Instructions for 5" Shield Mk 41 on 5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1	18 Oct 44	D. Rev. C	
OD 4682.....	Installation Instructions for 5" Shield Mk 48 on 5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1	18 Oct 44	R. Rev. A	
OD 4683.....	Installation Instructions for 5" Shield Mk 53 on 5"/38 Cal AA Twin Gun Mounts Mk 38 and Mk 38 Mod 1	18 Oct 44	R. Rev. A	
OD 4777.....	5"/54 Cal AA Single Gun Mounts Mk 39 Mod 0 Equipped with Powder Hoist Mk 6 Mod 0; Projectile Hoist Mk 6 Mod 0; Shield Mk 54 Mods 0 or 1; Sight Mk 40 Mod 0 (Telescopic) and Sight Mk 43 Mods 0 or 1 (Open)—Installation Instructions (Shield Mk 54 Mods 0 and 1)	28 Apr 45	R. Rev. A	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
SHIPMENTS				
OSSC Group S	Ordnance Storage and Shipment Chart	1 Nov 42	R	War Dept Publication
TB9-1930-29	Change in Design of 20 lb and 23 lb Bombs (Fragmentation and Practice) to permit Shipment Unfuzed	15 Jul 44	R	War Dept Publication. Issued with TM9-1980
TM3-250	Storage and Shipment of Dangerous Chemicals	AA 100 883 Dec 40	R	War Dept Publication
TM3-255	Chemical Handling and Loading Equipment	AA 100 830 Oct 43	R	War Dept Publication. Issued with TB3-255-3
SHOT, See AMMUNITION, SMALL ARMS				
SHOTGUNS, See GUNS, SMALL ARMS				
SIGHTS				
See also	BORESIGHTING FIRE CONTROL OPTICAL INSTRUMENTS			
OP 1542	Underwater Photographic Assembly No 2 (Camera Sight Mk 1)	3 Mar 45	R	See remarks for OP 1542
OP 18	Turret Guns and Sights Instructions for Installation and Test of	Apr 1921	D	1st rev. Where instructions conflict with OP 762 the latter governs
OP 865	Aviation Ordnance Equipment Catalog (Gun Sights)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
*OP 1605	Aviation Ordnance Gun Sight Test Units Mk 2 Mod 0 (Preliminary)	10 Jan 44	R	See remarks for OP 1605
TB ORD 9	Sight, Adjustable, Rear, Assembly D73955 and D7160060	10 Jan 44	R	War Dept Publication
#OP 911	20-mm AA Gun, 20-mm Machine Gun Mechanisms Mk 2 and Mk 4, 20-mm Gun Barrels Mk 2, 3, 4 and Mk 4 Mod 1, 20-mm Sights Mk 2, 4, and Mk 4 Mod 1 and Mk 5, 20-mm Magazines Mk 2 and Mk 4, 20-mm Shoulder Rests Mk 2, 4, 5, and Mk 5 Mod 1 Description	Mar 1943	D	See remarks for OP 911 in Part 1
OD 2033	Assemblies 0750 Sight Mk 3, Mk 4 and Mk 5 (Antiaircraft) Instructions for Adjustment and Use	21 Apr 37	D	Rev. D
OP 820	40-mm Antiaircraft Gun, 40-mm Machine Gun Mechanism Mk 1, Mk 2, Mk 1 Mod 1, Mk 2 Mod 1, 40-mm Gun Barrel Mk 1, 40-mm Sight Mk 3 and Mk 4 Description and Operation (Preliminary)	Oct 1943	D	See remarks for OP 820 in Part 1
*OP 820C	Parts List for 40-mm AA Gun; 40-mm Machine Gun Mechanism Mk 1 Mods 1 and 2, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; and 40-mm Sights Mk 3 and 4; Description and Operation (Preliminary)	1 Mar 45	R	See remarks for OP 820C
OD 2337	Instructions for Aligning 16" Sights Mk 4 Mods 0 to 13 for BB 55 to 56	1 Mar 45	R	See remarks for OD 2337
OP 966	14" Elevating Gear 14" Training Gear and Receiver-Regulator Controls USS TENNESSEE and CALIFORNIA (Sight Mk 4 Mod 1)	May 1943	R	Supersedes OP 310
OP 769	16" Triple Gun Turrets—Main Armament for USS IOWA Class (BBs 61-66) 16"/50 Cal (Preliminary)	19 Jun 45	R	See remarks for OP 769 in Part 1
OP 1289	40-mm Mount Mk 3 Mod 4; 40-mm Train and Elevation Power Drives Mk 10 Mods 0, 1, and 2	28 Aug 45	R	See remarks for OP 1289
OP 893	0.50 Inch Mount Mk 17 Description (Sight Mk 11)	Oct 1942	R	See remarks for OP 893
OTI F13-43	Periodic Tests on Gun Sight Mk 14 Mods 2, 3, 4	22 Dec 43	R	Issued with OD 4429
OTI F19-44	Gunsight Mk 14 Change in Characteristic Time Test Tolerances	16 Aug 44	R	Issued with OP 1040, ODs 4369 and 4429

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
SIGHTS				
OTI F21-44...	Gunsight Mk 14 Modification of Repair Shop Tools and Fixtures	25 Sep 44	R	Issued with OD 4369
OTI F25-44...	Gun Sight Mk 14 Gyro Repair	11 Oct 44	R	Issued with OD 4369
	(A) Replacement of Racks and Tracks in Range Unit			
	(B) Replacement of Range Unit			
OD 4369.....	Gun Sight Mk 14 Mods 2, 3, 4, 9, 10 and 11 (Overhaul Manual) <i>Preliminary</i> Part I	26 Apr 44	R	See remarks for OD 4369 in Part I
OD 4429.....	Gun Sight Mk 14 Mods 2, 3 and 4 Operator's Manual..	May 1943	R	1st rev. See remarks for OD 4429 in Part I
OD 4424.....	Gun Director Mk 51 Mod 2—Operator's Manual (<i>Gun Sight Mk 14 Mods 3, 4</i>)	Mar 1944	R	2nd rev. See remarks for OD 4424 in Part I
OTI F24-44...	Gun Sight 14 Mod 6 Modification of Repair Shop Tools and Fixtures	9 Oct 44	R	Issued with OD 4369
	(A) Pressing, Drilling and Pinning Fixture for Train Mirror Assembly			
	(B) Range Spring Clamp Wrench			
OP 1040.....	Gun Sight Mk 14 Mods 6, 7 and 8 and 15—Operator's Manual (<i>Preliminary</i>)	Dec 1943	R	See remarks for OP 1040 in Part I
NavOrd Chart F1-44	Gun Sight Mk 14 Mods 6, 7, 8.....	Undated	R	
OD 4369.....	Gun Sight Mk 14 Mods 6, 7, 8, 12, 13, and 14—Overhaul Manual, Part 2, (<i>Preliminary</i>)	15 Dec 44	R	See remarks for OD 4369 in Part I
OP 1289.....	40-mm Mount Mk 3 Mod 4; 40-mm Train and Elevation Power Drives Mk 10 Mods 0, 1, and 2 (<i>Sight Mk 14 Mod 15</i>)	28 Aug 45	R	
OHI F1-45....	Gun Sight Mk 14 Mod 15, Connecting of to Power Unit	2 May 45	R	
*OP 1606.....	Gun Sight Mk 15, Overhaul Manual (<i>Preliminary</i>)			
*OD 4370.....	Overhaul Manual for Gun Sight Mk 15.....			
OTI F14-44...	Gun Sight Mk 15 Telescope Boresight Adjusting Wrench Modification.	18 Jul 44	R	Issued with OP 1098
OTI F15-44...	Gunsight Mk 15 Modification of Tools in Ship's Spares	29 Jul 44	R	
	(A) Adjusting Wrench for Telescope Filter Control Packing			
	(B) Adjusting Wrench for Telescope Spotting Control Packing Gland			
OTI F20-44...	Gunsight Mk 15 External Rheostat Stop.....	26 Sep 44	R	Issued with OP 1098
*OD 5497.....	Standard Calibration Data for Gyro Units of Gunsight Mk 15 and Mods		R	
OP 1098.....	Gun Sight Mk 15 Mods 2 and 3 (<i>Preliminary</i>).....	Mar 1944	R	See remarks for OP 1098 in Part I
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (<i>Preliminary</i>) (<i>Sight Mk 15 Mod 12</i>)	15 Nov 44	R	See remarks for OP 1233 in Part I
OD 2092.....	Instructions for Installing Check Sight Holders Drawing 119123 on 3"/50 Cal Sight Mk 16 Mod 1.	8 Jan 34	D	
OD 1967.....	3" Mount Mk 11 Mod 8 Sight Breech Mechanism V-10 (AA Mount on Submarines B1 to B3, C1 and C2) General Description	26 Feb 32	R	
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (<i>Sight Mk 16 Mods 0, 5, 7, 12, 13, 15, 16</i>)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part I
OMI V15-45..	Conversion of Gun Sight Mk 18 Mod 0 to Gun Sight Mk 18 Mod 4	23 Jul 45	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
SIGHTS				
OP 1043.....	Service Manual for Gun Sight Mk 18 and Mods.....	Sep 1943	R	See remarks for OP 1043 in Part 1
NavOrd Chart FV1-43	Gun Sight Mk 18 Wiring Diagram.....	Undated	D	
NavOrd Chart FV2-43	Gun Sight Mk 18 Sighting Head.....	Undated	D	
NavOrd Chart FV3-43	Gun Sight Mk 18 Gyro Unit.....	Undated	D	
NavOrd Chart FV4-43	Gun Sight Mk 18 Schematic Diagram.....	Undated	D	
OP 1043A.....	Illustrated Parts Catalog for Gun Sight Mk 18 and Mods	Sep 1943	R	Includes OP 1043D
OD 5612.....	Ordnance Data Gun Sight Mk 18 Mods 0, 1 and 2 Installation Resistance Tests	15 Nov 44	R	
OP 1325.....	Gun Sight Mk 20 Mod 3—Installation, Operation, and Maintenance (Preliminary)	Mar 1945	R	
OHI FV2-44	Gun Sight Mk 21.....	26 Apr 44	R	
OD 2038.....	Illuminating Projectile Sight Mk 2 (Used on 3" Sight Mk 21 and Mods) Description	11 Apr 32	D	
OD 2067.....	Illuminating Projectile Sight Mk 1 (used on 4" Sight Mk 21 and Mods) Description	31 Mar 32	R	
OP 1247.....	Instruction Book for Gun Sight Mk 22 Mod 0 for Control of 0.50 Cal Machine Guns in Martin Model 250 GHI Aircraft Turrets, (Preliminary)	18 May 45	R	
OP 1216.....	Gun Sight Mk 23 Mod 0.....	8 Apr 45	R	
OD 1999.....	5" Sight Mk 28 and Mods 1 and 2 Antiaircraft Assembling of Sight on Gun Mount	7 Jun 31	R	
OD 2018.....	5" Sight Mk 28 Mods 1 and 2 Antiaircraft Sight Angle and Deflection Indicators Description, Operation and Installation of Indicators	Undated	R	Rev A
OD 1710.....	5" Sight Mk 28 Mod 5 Description and Installation of Sights	Undated	R	
OP 704.....	8" Triple Gun Turrets for CA 45 (Sight Mk 31).....	Oct 1941	R	Supersedes earlier blueprint copies
OP 761.....	3"/50 Cal Submarine Mount Mk 18 (Wet Type) Description (Sight Mk 31)	Jul 1940	R	
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class (CAs 68 to 75, 122 to 138) (Preliminary) (Sight Mk 31 Mod 1)	Apr 1943	R	See remarks for OP 834 in Part 1
#OP 700.....	5" Mounts (38 Cal AA Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, 11 Assemblies, Description and Instructions (Sight Mk 31 Mods 4 and 5)	Sep 1942	R	See remarks for OP 700 in Part 1
OP 735.....	5"/38 Cal Mounts AA Base Ring Type Mk 30 and Mods Except Merchantmen Types (Sights Mk 31 Mods 4 and 5 and Mk 38)	May 1943	R	1st rev. See remarks for OP 735 in Part 1
#OP 748.....	5"/38 Cal Enclosed Single Mounts AA Mk 25 and Mk 25 Mods 1 and 2 (Preliminary) (Sight Mk 31 Mods 4 and 5)	Jan 1941	R	See remarks for OP 748 in Part 1
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries—38 Cal DP, Single, Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49 (Sight Mk 31 Mods 4, 5, 8 and 11)	11 Apr 44	R	See remarks for OP 1013 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
SIGHTS				
OD 4437.....	5" Sights Mk 31 Mod 5 for 5"/38 Cal Single Gun Mounts Instructions for Installing the Housing Assembly and for Testing Sight After Installation	8 Mar 43	R	
OD 4685.....	5"/38 Caliber Mounts Mk 30 Mods 45, 46, 48 and 49 Equipped with 5" Sight Mk 31 Mod 8 Replacement of Telescope Mk 77 or 79 and Adapter with Telescopes Mk 61 or Mods or Mk 83 or Mods and Mk 62 and Mods Instructions for Making the Change	25 Jan 44	R	
OP 868.....	5"/38 Cal Single Mount Mk 37 (Sight Mk 31 Mod 9)	Feb 1943	R	See remarks for OP 868 in Part 1
OP 895.....	5"/38 Cal AA Mount Mk 30 Mod 50 Assemblies for Merchantmen, Description and Instructions (Sight Mk 31 Mod 9)	Dec 1942	R	See remarks for OP 895 in Part 1
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (Sight Mk 33 Mods 0 and 1)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OP 984.....	3" Gun Mounts .50 Cal DP, Pedestal Type Mk 24 and Mk 24 Mod 1 (Sight Mk 34 and 35)	27 Jan 44	R	See remarks for OP 984 in Part 1
OP 592.....	6"/47 Cal Triple Gun Turrets for CLs 40 to 43, 46 to 50—Description and Instructions (Sight Mk 35)	May 1941	R	See remarks for OP 592 in Part 1
OD 2861.....	5" Sight Mk 35 for 5"/38 Twin Antiaircraft Mount Mk 29 (CLs 49-50) Description (Sight Mk 35)	25 May 39	R	
#OP 833.....	6"/47 Cal Triple Turrets CL 55 Class (Sight Mk 35 Mod 1)	Jun 1942	R	With Appendix 1, Change 1 dated 27 Jan 45 and OCL G31-43
#OP 805.....	5"/38 Cal Twin Gun Mounts AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2 Description and Instructions (Sight Mk 36)	Feb 1942	R	See remarks for OP 805 in Part 1
*OP 1449.....	5"/38 Boresight Mk 38 and Mods and Boresight Telescopes Mk 8 and 75 and Mods		R	
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary) (Sight Mk 38 Mods 0, 1, Mk 39)	25 Oct 44	R	See remarks for OP 835 in Part 1
OD 4777.....	5"/54 Cal AA Single Gun Mounts Mk 39 Mod 0 Equipped with Powder Hoist Mk 6 Mod 0, Projectile Hoist Mk 6 Mod 0, Shield Mk 54 Mods 0 or 1, Sight Mk 40 Mod 0 (Telescopic), Sight Mk 43 Mods 0 or 1 (Open)—Installation Instructions	28 Apr 45	R	Rev A
OD 1702.....	5" AA Sights Azimuth Shaft	Undated	D	
OP 482.....	Turret Sight Optical Instruments (Sights 6" to 16")	26 Apr 44	R	3rd rev. Supersedes OPs 345, 345A and 345B
TO 11-35-13..	Installation, Operation, Inspection and Maintenance Instructions Types B-13 and A-11	26 Aug 42		War Dept Publication
OP 1137.....	60-mm Mortar for Shipboard (Sight M4)	6 Jan 45	R	
OP 1440.....	4"2 Mortar Assembly Mk 1 Mod 0 (Open Sight)	25 Apr 45	R	
Sights, Aircraft Machine Gun				
See also	SIGHTS, COMPUTING SIGHTS, ILLUMINATING SIGHTS, OPTICAL RING SIGHTS, TELESCOPE			
OD 3881.....	Description of Aircraft Machine Gun Sight	10 Dec 40	D	
OD 1865.....	Aeronautical Equipment Aircraft Machine Gun Sight Type C-3 General Description	3 Feb 30	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Sights, Bomb				
See also	Calibration Outfits Stabilized Bombing Approach Equipment			
OP 865.....	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OTI V17-44...	Bombsights, Stabilizers and SBAE Installed in Aircraft Preservation and Maintenance of	22 Jun 44	R	Issued with OPs 650 and 659
OHI V7-43...	Gasoline Operated Motor Generator Sets for Bombsight Shops	10 Aug 43	R	
OMI V1-46...	Mounting of Data Card Holder Bombsight and Stabilizer Mk 15, SBAE Mk 2 and GBA Mk 2	22 Jan 46	D	Supersedes OMI V25-44
OD 5774.....	Inspection Procedure for Acceptance Tests of Bombsights Mk 15 and Mods	25 Apr 45	R	
OP 640.....	Aviation Ordnance Bombsight Mk 15, Mods 4 and 5 Parts Catalog	Jan. 1941	R	See remarks for OP 640 in Part 1
*OP 649.....	Aviation Ordnance Bombsight Mk 15, Mods 4 and 5 Operation	Oct. 1941	R	Issued with OCL V19-43, OTI V41-43, Supersedes OP 611
OP 650.....	Aviation Ordnance Bombsight Mk 15 Mods 4 and 5 Maintenance	Oct. 1941	R	See remarks for OP 650 in Part 1
OTI V41-43...	Mk 15 Mods 4 to 7 Bombsight Measurement of Bombsight Constant as Check of Computer Mechanism and Adjustment of Trial Arm	19 Oct 43	R	Issued with OPs 649 and 650
OMI V5-43...	Bombsight Mk 15 Mods 4, 5, and 7 Change in Wiring..	20 Dec 43	D	Issued with Ordalt 1780
OP 886.....	Bombing Table 1000-lb Armor-Piercing Bomb AN-Mark 33 Bombsight Mk 15 Mods 4 to 8	4 Nov 44	R	
OP 1332.....	Bombing Table for 13-lb Practice Bomb Mk 19 Mod 1 Bombsight Mk 15 Mods 4 to 8	18 Nov 44	R	With Change 1 dated 12 Jan 45
OP 1316.....	Bombsight Mk 23 and Mods, Service Manual (<i>Preliminary</i>)	2 Jun 45	R	
*OP 1316A...	Bombsight Mk 23 (<i>Preliminary</i>) Parts Catalog		R	
*OP 1316B...	Bombsight Mk 23, Overhaul Manual		R	
*OD 5645.....	Bombsight Mk 23 Mod 0 (<i>Computation Data</i>)		C	
OHI V3-45...	Bombsight Mk 23	24 Apr 45	R	
Sights, Bore				
OTI FV3-44...	Boresight Fitting	22 Jun 44	R	Issued with OP 985
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Gun and Camera</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1440.....	472 Mortar Assembly Mk 1 Mod 0 (<i>Bore Sight Mk 1 Mod 0</i>)	25 Apr 45	R	
OP 820.....	40-mm AA Gun; 40-mm Machine Gun Mechanism Mk 1, Mk 1 Mod 1, Mk 2, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sights Mk 3 and 4—Description and Operation (<i>Preliminary</i>)	Oct. 1943	R	See remarks for OP 820 in Part 1
*OP 820C.....	Parts List for 40-mm AA Gun; 40-mm Machine Gun Mechanism Mk 1 Mods 1 and 2, Mk 2 Mod 1; 40-mm Gun Barrel Mk 1; 40-mm Sights Mk 3 and 4—Description and Operation (<i>Preliminary</i>)			
OHI G1-45...	40-mm Boresight Mk 2 Mod 0	11 May 45	R	
OD 2905.....	Assemblies 730 and 750 Cal BAM Bore Sight Mk 15 and 16 Instructions for Assembly and Adjustment	Undated	D	
OP 761.....	3"/50 Cal Submarine Mount Mk 18 (Wet Type) Description (<i>Boresight Mk 18</i>)	Jul. 1940	R	

*Under preparation. ‡Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Sights, Bore				
OP 805.....	5"/38 Cal Twin Gun Mounts AA Mk 28 and Mk 28 Mods 1 and 2, Mk 32 and Mk 32 Mods 1 and 2 Description and Instructions (Boresight Mk 32 Mod 1)	Feb 1942	R	See remarks for OP 805 in Part 1
*OD 2827.....	6"/47 Cal Bore Sight Mk 36 General Description and Instruction for Bore Sighting			
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries—38 Cal DP, Single, Open Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48 and 49	11 Apr 44	R	See remarks for OP 1013 in Part 1
OP 1244.....	Rocket Launcher Mk 50 Mods 1 and 2—Description and Instructions for Use	25 Oct 45	R	2nd rev. See remarks for OP 1244 in Part 1
OP 1424.....	Rocket Launcher Assembly Mk 102 Mod 0, Description and Instructions for Use (Bore Sight Mk 1 Mod 0)	20 Sep 45	R	1st rev. See remarks for OP 1424 in Part 1
Sights, Collimator				
OD 3564.....	Collimator Sight Accuracy Tests with Binocular Vision Using the Mk 1	13 Sep 40	R	
OD 3704.....	Collimator Sight (Reflecting) Mk 2 Description	28 Apr 42	R	
Sights, Computing				
TO 11-35A-1..	Handbook of Operation and Service Instructions 50 Caliber Automatic Computing Sights K-3, K-4	5 Jun 44	R	War Dept Publication
TO AN 11-35A-3	Parts Catalog Types K-3 and K-4 Automatic Computing Sight (Sperry)	1 Mar 44	R	Do
Sights, Illuminated				
OP 865.....	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1244.....	Rocket Launchers Mk 50 Mods 0 and 1—Description and Instructions for Use	26 Oct 45	R	2nd rev. See remarks for OP 1244 in Part 1
OD 4484.....	German Illuminated Sight (Carl Zeiss, Jena, Serial No. 119076)	26 Sep 42	R	With Change 1 dated 9 Jul 45
OD 2067.....	Illuminating Projectile Sight Mk 1 (used on 4" Sight Mk 21 and Mods) Description	31 Mar 32	R	
OD 2038.....	Illuminating Projectile Sight Mk 2 (Used on 3" Sight Mk 21 and Mods) Description	11 Apr 32	D	
OP 803.....	Illuminated Sight Mk 8 Description	Nov 1941	R	See remarks for OP 803 in Part 1
OTI FV4-43..	Illuminated Sight Mk 8 Boreighting at Short Ranges	27 May 43	R	Issued with OP 803
OTI FV5-43..	Measures to be taken in Preventing Breakage of the Lamp Housing of the Mk 8 Illuminated Sight	15 Jun 43	R	Issued with OP 803
OTI FV12-43..	Sight Illuminated Mk 8 and Mods and Torpedo Director Mk 30 and Mods Repair of Damaged Lamp Housing	11 Oct 43	R	
OMI V17-44..	Illuminated Sight Mk 8 New Improved Lamp Housing Spring Clip for	18 Jul 44	R	Issued with OP 803
OMI V20-44..	Illuminated Sight Mk 8 Type Buffer Pad and Inclometer Vial for Use with Stripped Version of	10 Aug 44	R	
OP 803A.....	Illuminated Sight Mk 8 and Mods Parts Catalogue	1 Jul 44	R	Issued with OP 803
OMI V1-44..	New Type Lamps for Illuminated Sights Mk 8 and Mods Torpedo Director Mk 30 and Mods and Illuminated Sights Mk 9 and 24 Volts Mods	5 Jan 44	D	
OMI V30-44..	Illuminated Sight Mk 8 and Mods Removal of Sun Filter From	24 Nov 44	R	Issued with OPs 803 and 803A
OP 863.....	Illuminated Sight Mk 9 and Mods—Service Manual	30 Aug 45	R	

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Sights, Illuminated				
OTI FV2-43...	Illuminated Sight Mk 9 and Mk 9 Mod 1	6 May 43	D	Issued with OCL V23-43
OTI FV1-44...	Illuminated Sight Mk 9 and Mods Adjustable Reflector	11 Feb 44	R	Issued with OCL V23-43
OMI V4-44...	Gun Mount Adapter Mk 6 Mod 3 and Certain Gun Mount Adapters Mk 6 Mod 2 Relocation of Illuminated Sight Mk 9 Mounting Bracket	28 Mar 44	D	Issued with Ordalt 1746
OMI V1-44...	New Type Lamps for Illuminated Sights Mk 8 and Mods Torpedo Director Mk 30 and Mods and Illuminated Sights Mk 9 and 24 Volt Mods	5 Jan 44	D	Issued with Ordalt 1746
OMI V16-44...	Illuminated Sight Mk 9 and Mods Buffer Pad for	22 Jun 44	R	Issued with Ordalt 1746
#OP 863A...	Illuminated Sight Mk 9 and Mk 9 Mod 1 Parts List	Oct 1943	R	Issued with Ordalt 1746
OHI F1-43...	Illuminated Sight Mk 9 and Mk 9 Mod 1	6 Apr 43	D	Issued with Ordalt 1746
*OP 1671...	Illuminated Sight Mk 20—Operation, Maintenance, and Parts List			
Sights, Optical Ring				
OP 865...	Aviation Ordnance Equipment Catalog	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OTI FV10-43...	Stand-by Optical Ring Sight for Use With Illuminated Sight Mk 9	14 Aug 43	R	
Sights, Rocket				
OP 1478...	Rocket Sight (Aircraft) Mk 1 Mod 0	10 Jul 45	C	
Sights, Slewing				
OD 2577...	Slewing Sight Mk 2 and Mk 2 Mod 1	19 Nov 42	R	Rev A
OP 1061...	Director Control Mechanisms for Gun Director Mk 37 (Arma Contact Type) (Slewing Sight Mk 2 Mods 0 and 1)	Mar 1945	R	Supersedes ODs 2576, 2584 and OTI F4-44
OP 1062...	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type) Description, Operation and Maintenance	1 Aug 44	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1
Sights, Telescope				
OD 3657...	Aircraft Telescope Sight Mk 3 Mod 4 Instructions for Replacement of Inclinator	19 Jun 41	D	Supersedes OD 2832
Sights, Torpedo and Torpedo Tube				
OD 2878...	List of Telescopes, Sights and Mounts for 3-Pdr, 6-Pdr, 3"/23, 3"/50, 4"/50, 5"/38, 5"/50, 5"/51, 6"/50 and 6"/53 Guns, Telescopes for Torpedo Tube Sights Mk 1, Mk 1 Mod 1, Mk 2 and Torpedo Directors Mk 25, Mk 25 Mod 1 and Mk 27 and Mods	27 Feb 42	R	Rev A
OP 960...	AW Torpedo Tube Sight Mk 5 and Mods (Preliminary)	May 1943	R	Supersedes OD 4452
SIGHT SETTINGS				
OP 1296...	Boresighting and Effective Angle of Attack Data for Aircraft	29 Dec 44	R	See remarks for OP 1296 in Part 1
OP 1353...	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers—Aircraft FM-2	22 Dec 44	R	See remarks for OP 1353 in Part 1

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Subjects and Publication Numbers	Equipment	Effective Date	Class	Remarks
SIGHT SETTINGS				
OP 1354.....	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers—Aircraft F4U-1, F4U-1D and FG-1	22 Dec 44	R	See remarks for OP 1354 in Part 1
OP 1355.....	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers—Aircraft F6F-3 and F6F-5	22 Dec 44	R	See remarks for OP 1355 in Part 1
OP 1356.....	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers—Aircraft TBM-1 and TBF-1	9 Apr 45	R	See remarks for OP 1356 in Part 1
OP 1357.....	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers—Aircraft TBM-1C and TBF-1C	16 Mar 45	R	See remarks for OP 1357 in Part 1
OP 1358.....	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers—Aircraft SB2C-1, SB2C-1C, SB2C-3, SB2C-4, SB2C-5	29 Dec 44	R	See remarks for OP 1358 in Part 1
OP 1371.....	Range Table for 11775 Aircraft Rockets Fired From F4U and F6F Type Aircraft Using Drop Launchers (Preliminary)	2 Mar 45	R	See remarks for OP 1371 in Part 1
OP 1466.....	Sight Settings for Masthead Bombing at Altitudes 50-500 Feet	14 Aug 45	R	1st rev
OP 1524.....	Range Table for 2725 Aircraft Rockets (Subcaliber), 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-Type (Zero Length) Launchers—Aircraft PV-1	4 Jul 45	R	See remarks for OP 1524 in Part 1
SIGNALS				
See also	AMMUNITION			
	CARTRIDGES			
	CHARGES			
	FLARES			
	FLOATS			
	GRENADES			
	LIGHTS			
	MARKERS			
	PROJECTORS			
	PYROTECHNICS			
	ROCKETS			
	TORCHES			
OP 1219B	Ammunition Code Catalog, Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenades, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges (Signals, All Types)	18 May 45	R	See remarks for OP 1511 in Part 1

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SIGNALS				
OP 998.....	Aircraft Pyrotechnics.....	14 Jul 43	R	Supersedes OP 562. See remarks for OP 998 in Part 1
OP 1219A.....	Ammunition Code Catalog, Class A, Bombs and Accessories.....	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
TB9-1981-3.....	Two-Star Red Distress Signal M75.....	17 Mar 45	R	War Dept publication. See remarks for TB9-1981-3 in Part 1
OHI AV20-43	Assembling Instructions for Signal, Drift, Night, Rocket Mk 15, Mk 15 Mod 1 and Mk 16 Mod 1.....	22 Sep 43	D.I	See remarks for OHI AV20-43 in Part 1
TB9-1981-2.....	Flash and Sound Signal M74.....	22 Feb 45	R	War Dept publication. Issued with TM9-1981
OP 1177.....	Surface Pyrotechnics and Projectors.....	19 Jan 45	R	See remarks for OP 1177 in Part 1
TB9-1981-4.....	High-Burst Ranging Ground Signal M27A1B1.....	19 Mar 45	R	War Dept publication. Issued with TM9-1981
OP 1269.....	Signal (Pepper) Mk 14 Mods 0, 1, and 2—Description and Instructions for Use.....	28 Sep 45	C	See remarks for OP 1269 in Part 1
TB9-1981-5.....	Smoke Ground Signals T38E1 through T42E1.....	9 Jul 45	R	War Dept publication. Issued with TM9-1981
SKIDS				
OP 865.....	Aviation Ordnance Equipment Catalog (Bomb and Torpedo Skids).....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1073.....	Bomb and Torpedo Skids, Trucks and Trailers.....	29 Sep 43	R	See remarks for OP 1073 in Part 1
OTI V22-44.....	Skid, Bomb and Torpedo Mk 7 Mod 0.....	8 Aug 44	R	Issued with OP 1073
OTI V32-43.....	Auxiliary Bomb Handling Equipment.....	22 Jul 43	R	See remarks for OTI V32-43 in Part 1
SLEEVES				
OP 1219M.....	Ammunition Code Catalog, Class M, Projector Charge and Rocket Ammunition Components.....	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
SLIDES				
See also.....	MOUNTS			
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods.....	22 Dec 43	R	1st rev. See remarks for OP 811 in Part 1
OP 984.....	3" Gun Mounts .50 Cal DP, Pedestal Type Mk 24 and Mk 24 Mod 1 (Slide Mks 23 and 23 Mod 1).....	27 Jan 44	R	See remarks for OP 984 in Part 1
OP 735.....	5"/38 Cal Gun Mounts, AA Base Ring Type Mk 30 and Mk 30 and Mods (Except Merchantmen Type).....	May 1943	R	1st rev. See remarks for OP 735 in Part 1
*OD 4770.....	Instruction for Dismantling Gun Slide Assembly for a 5"/38 cal Single Mount and Installing the Modified Oscillating Unit of a 155-mm Howitzer M1.....		D	See remarks for OD 4770 in Part 1
OD 3739.....	5" Slide Mk 19—Modification for Installation for 5" Gun Mk 13.....	7 Jan 42	R	See remarks for OD 3739 in Part 1
OP 700.....	5" Mounts (38 Cal AA Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, 11—Assemblies, Description, and Instructions.....	Sep 1942	R	See remarks for OP 700 in Part 1
OD 2931.....	5"/38 cal AA Single Gun Mounts (Pedestal Type, Open) 5" Slides Mk 21 Mod 8—Instructions for Balancing Oscillating Parts.....	8 Aug 42	D	See remarks for OD 2931 in Part 1

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SLIDES				
*OD 2934.....	5"/38 cal AA Single Gun Mount (Pedestal Type, Open) 5" Slides Mk 21 Mod 8 Instructions for Balancing Oscillating Parts			
OD 4056.....	Electric Hydraulic Equipment for 5" Slides Mk 24 Mods 2 and 3 (Rammers) and for 5" Loading Machines Mk 16 Mod 2	7 Oct 44	R	Rev A
OD 2924.....	5"/38 Cal AA Single Gun Mounts (Base Ring Type, Open and Enclosed) 5" Slides Mk 24 Mods 2, 3, 4, 5, 6, 7, 8 Instructions for Balancing Oscillating Parts	1 Jul 42	D	
OP 1013.....	5" Gun Mounts for <i>Merchantmen and Auxiliaries</i> —38 Cal DP, Single, Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48 and 49 (<i>Slide Mk 24 Mods 3, 5, 8, and 15</i>)	11 Apr 44	R	See remarks for OP 1013 in Part 1
OP 868.....	5"/38 Cal Single Mount Mk 37 (<i>Slide Mk 24 Mod 10</i>)	Feb 1943	R	See remarks for OP 868 in Part 1
OD 4375.....	Electric-Hydraulic Equipment for 5" Slides Mk 27 and Mk 27 Mods 1, 2 and 3 (Rammers) and for 5" Loading Machines Mk 15 and Mk 15 Mod 1	15 Dec 41	R	
OD 2928.....	5"/38 cal Anti-Aircraft Twin Gun Mounts (Base Ring Type) 5" Slide Mk 27 and Mods 1 to 9—Instructions for Balancing the Oscillating Parts	8 Aug 42	D	
OD 2811.....	Instructions for Manually Operating the Breech Block and Cartridge Case Extractor for 6"/47 cal Triple Mount—Slide Mk 19 and Housing Mk 1 and Mk 1 Mod 1 where Mounts are not Equipped with Hydraulic Units, Instructions for (<i>Slide Mk 19</i>)	30 Sep 37	R	
#OP 833.....	6"/47 Cal Triple Turrets, CL 55 Class (<i>Slide Mk 19 Mod 2</i>)	Jun 1942	R	With Change 1 dated 27 Jan 45, OCL G31-43 and Appendix 1
*OD 3655.....	Electric Hydraulic Equipment for 6" Slide Mk 20 and Mk 20 Mod 1 and 6" Housing Mk 3 and Mk 3 Mod 1 for 6"/47 Cal 2 Gun Turrets DP			
*OD 3656.....	Electric Hydraulic Equipment for 6" Slide Mk 20 Mods 2 and 3 and 6" Housing Mk 3 Mods 2 and 3 for 6"/47 2-Gun Turrets Double Purpose			
OP 834.....	8" Triple Gun Turrets, USS <i>BALTIMORE</i> Class (Cas 68 to 75, 122 to 138) (<i>Preliminary</i>) (<i>Slide Mk 19</i>)	Apr 1943	R	See remarks for OP 834 in Part 1
*OD 5298.....	Electric-Hydraulic Equipment for 8" Slide Mk 20 and Mk 20 Mod 1			
OP 835.....	12" Triple Gun Turrets, Main Armament for USS <i>ALASKA</i> , <i>GUAM</i> , and <i>HAWAII</i> (<i>Preliminary</i>) (<i>Slide Mk 10 and 10 Mod 1</i>)	25 Oct 44	R	See remarks for OP 835 in Part 1
OD 119.....	Description of 14" Slide Mk 1 and 14" Slide Mk 1 Mod 1	14 Apr 15	D	
OD 4415.....	14" Slide Mk 1 Mod 3 (2-Gun Turret), 14" Slide Mk 2 Mod 5 (Gun Turret) for BB 36 Instructions for filling the Recoil and Counter-recoil Systems	23 May 42	R	
OD 939.....	Mounts—14" Slides Mk 2 Mods 3 and 4 (USS <i>NEVADA</i> , <i>OKLAHOMA</i> and <i>ARIZONA</i>)	2 Jun 37	R	Rev A
SLINGS				
OP 1343.....	Hoisting, Suspension and Trunnion Bands.....	23 Apr 45	R	Supersedes OTI A1-45. Now issued by BuAer. NAVAER No 11-5-525

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SLINGS				
OP 1280.....	Aircraft Bombs.....	17 Feb 45	R	See remarks for OP 1280 in Part 1
OTI V1-45....	Hoisting Sling (Set) Mk 25 Mod 0.....	13 Mar 45	D	
TO 11-5-51....	Type A-2 Bomb Sling.....	23 Jun 43	R	War Dept Publications
TO 11-5-51A..	Bomb Racks—Type A-2 Bomb Sling.....	26 Jun 44	R	Do
OP 1340.....	Electric Bomb Hoist Mk 5 (<i>Torpedo Sling</i>).....	21 Apr 45	R	With Change 1 dated 14 Feb 46. Now issued by BuAer, NAVAER No 11-5-522
SMALL ARMS, See GUNS, SMALL ARMS				
GUNS (By Caliber)				
SMOKE MIXTURES				
OP 1219C....	Ammunition Code Catalog, Class C, Chemicals.....	1 Oct 44	R	See remarks for OP 1219C in Part 1
SMOKE SCREEN EQUIPMENT				
OP 1125.....	Aviation Ordnance, Chemical Spraying Equipment.....	29 Sep 44	R	See remarks for OP 1125 in Part 1
OMI V13-45..	Smoke Screen Tank Mk 5 and Mods (<i>Discharge Valve Release Lever Assembly</i>).....	11 Jul 45	R	
SMOKE SCREEN GENERATORS, See GENERATORS				
SOLENOIDS				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OD 4616.....	Report of Heat Test on Interlock Solenoid for 16" Projectile Hoist Mk 8 Mk 8 Mods 1 and 2.....	20 May 43	D	
OTI G3-44....	3"/50 cal Gun Mounts, Solenoids Mk 5 and Mods Seal- ing of.....	18 Mar 44	R	
OD 516.....	Solenoid Mk 9 and Mk 9 Mod 1—Description.....	7 Jun 22	D	
OD 2957.....	Report of Tests on Solenoid Mk 14, 120 Volt—60 Cycle.....	17 Jul 43	D	
OD 4457.....	Report of 2000 ft-lb Shock Test Part I, of Firing Solenoid Mk 22 having a Malleable Iron Housing. Part II, Firing Solenoid Mk 22 having a Die Cast Zinc Alloy Housing (Zamak #3).....	11 Mar 43	R	Rev A
OD 4807.....	Report of Test of Firing Solenoid Mk 21 Mod 0, Firing Solenoid Mk 22 Mod 0, Firing Solenoid Mk 22 Mod 2 When Operated from Low Voltage Supply Used on 40-mm Gun Mounts.....	14 May 45	R	
OD 4537.....	Report of 2000 ft-lb Shock Test of Firing Solenoid Mk 25—For Use in Firing Circuit Mk 11 on 3" Gun Mounts Mk 24.....	18 Feb 43	R	
TO 11-1-55....	Description and Adjustment of Solenoid Type G-11....	17 Nov 43		War Dept Publication
TO 11-1-80....	General Description, Inspection and Adjustment of Solenoid Type G-19.....	27 Mar 45	D	War Dept Publication
OP 1400.....	Electric Trigger Controls (Cal .30 and Cal .50) Special Precautions Regarding Adjustment (<i>Preliminary</i>).....	27 Dec 44	R	
SOLVERS				
OP 1056.....	Torpedo Data Computer Mk 3 Mods 5 to 12 incl.....	Jun 1944	R	Issued with OCL F10-44, Supersedes OD 2561
OD 4656.....	Torpedo Angle Solvers Mk 7 and Mods—Description and Instructions for Use.....	15 Oct 43	R	
OD 3518.....	Torpedo Angle Solver Mk 8 Operating Instructions....	28 Aug 41	R	
OP 997.....	Collision Course Tables and Torpedo Angle Solver Mk 9 Description and Instructions for Use.....	Jul 1943	R	

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SOLVERS				
OD 5351.....	Angle Solver Mk 10 Operating Instructions and Design Data	1 Apr 44	R	
SPECIFICATIONS				
OP 9.....	Gun Forgings, Army and Navy, Specifications for...	May 1936	D	5th rev.
OP 386B.....	Target Projectiles and Proof Shot, Specifications for...	Apr 1935	D	1st rev.
OP 400.....	Specifications for the Manufacture and Inspection of Ordnance Material	Nov 1939	D	7th rev. See remarks for OP 400 in Part 1
OP 400A.....	Specifications for the Manufacture and Inspection of Guns, Gun Barrels, Breech Mechanisms and Breech Housings	Mar 1939	D	1st rev. Supplement to OP 400
SPOTTING GLASSES, See GLASS AND GLASSES				
SPRINKLER SYSTEMS, See SYSTEMS, SPRINKLER				
SQUIBS				
OP 1219C....	Ammunition Code Catalog, Class C, Chemicals.....	1 Oct 44	R	See remarks for OP 1219C in Part 1
OP 1511.....	Authorized Rounds of Pyrotechnics, Chemical and Smoke Grenade, Chemical and Smoke Pots, Aircraft Engine Starter Cartridges	18 May 45	R	
STABILIZED BOMBING APPROACH EQUIPMENT				
See also SIGHTS, BOMB				
OP 639.....	Aviation Ordnance, SBAE Parts Catalog.....	Oct 1940	R	With Change 1 dated 26 Jan 44; OMI V25-44
OP 659.....	Stabilized Bombing Approach Equipment Operation and Maintenance	Mar 1942	R	Issued with OTI V17-44
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 986.....	Auto Pilot Amplifier Test Set.....	Jun 1943	R	
OTI V19-43...	Bombsight Stabilizer Wiring Change for Mk 2 SBAE..	19 May 43	R	Issued with OP 640
OTI V17-44...	Bombsights, Stabilizers and SBAE Installed in Aircraft, Preservation and Maintenance of	22 Jun 44	R	Issued with OPs 650 and 659
OMI V1-46....	Mounting of Data Card Holder Bombsight and Stabilizer Mk 15, SBAE Mk 2 and GBA Mk 2	22 Jan 46	D	Supersedes OMI V25-44
OTI V21-44...	Stabilized Bombing Approach Equipment Mk 2 Mod 1—Interchangeability of Servo Motor Cable Drum	-5 Aug 44	R	
OHI V6-43...	Installation Instructions for SBAE Mk 2-1 in SNB-1 Airplane	14 Aug 43	R	
STABILIZERS				
OP 1207.....	U.S. Navy Aircraft Torpedoes General Information (Stabilizers, Air Mk 2 Mod 1, Mk 8, 9 and 11)	27 Jun 44	R	With Change 1 dated 16 Oct 44; Supersedes OD 3816
OP 1361.....	Napalm Bombs (Aircraft Jettisonable Fuel Tanks Used as Incendiary Bombs) (Preliminary)	21 Apr 45	R	See remarks for OP 1361 in Part 1
Stabilizer, Bomb Sight				
See also SIGHTS, BOMB				
OTI V17-44...	Bombsights, Stabilizers and SBAE Installed in Aircraft, Preservation and Maintenance of	22 Jun 44	R	Issued with OPs 650 and 659
OTI V19-43...	Bombsight Stabilizer Wiring Change for Mk 2 SBAE..	19 May 43	R	Issued with OP 640
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1

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Stabilizers, Range Finder				
OD 3013.....	Design Specification for Rangefinder Stabilizer Mk 2...	23 Dec 42	R	
OD 3054.....	Rangefinder Stabilizer Mk 2 Mod 1 and Rangefinder Stand Mk 33 Mods 12 and 14 Instruction Book	7 Feb 38	R	
OD 3857.....	Preliminary Description of Rangefinder Stabilizer Mk 3 and Elastic Supports for Rangefinder Stands Mk 33 Mods 15 and 16	7 Jun 40	R 4th rev	
OD 3855.....	Description of Rangefinder Stabilizer Mk 3 Mod 1 and Elastic Supports for Rangefinder Stands Mk 33 Mod 17	17 May 40	R 5th rev	
OD 3856.....	Description of Rangefinder Stabilizer Mk 3 Mod 2 and Elastic Supports for Rangefinder Stands Mk 33 Mods 18 and 19	10 Jun 40	R 4th rev	
OD 3863.....	Description of Rangefinder Stabilizer Mk 3 Mod 5 for Gun Directors Mk 34 and Mk 34 Mod 1 (Shield Mk 5) for CLs 40 to 43, 46 to 48	12 Jul 40	R 4th rev	
OD 3868.....	Description of Rangefinder Stabilizer Mk 3 Mod 5 for Gun Directors Mk 34 and Mk 34 Mod 1 (Shield Mk 5) for CLs 40 to 43, 46 to 48	15 Mar 42	R 5th rev	
OD 3905.....	Description of Rangefinder Stabilizer Mk 3 Mod 6 and Elastic Supports for Gun Directors Mk 34 Mods 4, 5, 6 and 7 (Shield Mk 1) for CA 45, CLs 49 and 50 and for Gun Directors Mk 34 Mods 8-11, 14-18 (Shield Mk 7) for CLs 55-58 incl 60, 62-67 incl 80-83 incl 86, 87, 89-94 incl 103-111 incl CAs 68-75 incl BBs 43, 44 and 48	22 Nov 43	R 5th rev	
OD 3907.....	Description of Rangefinder Stabilizer Mk 3 Mod 7 for Rangefinder Stands Mk 33 Mods 11 and 13 and Elastic Supports for CA 45, CLs 49 and 50 and Rangefinder Stands Mk 33 Mods 23 and 24 for CLs 55-58 incl 60, 62-67 incl 80-83 incl 86, 87, 89-94 incl 103-111 incl CAs 68-75 incl	22 Nov 43	R 4th rev	
OD 3908.....	Description of Rangefinder Stabilizer Mk 3 Mod 8 for Gun Directors Mk 38 (any Mod) Shield Mk for BBs 55 to 66 incl and CBs 1 and 2	25 Sep 43	R 2nd rev	
OD 3919.....	Description of Rangefinder Stabilizer Mk 3 Mod 9 for Rangefinder Stands Mk 33 Mods 28, 29 and 30 for CAs 24-39 Spares	Mar 1944	R 3rd rev With Change 3 dated 3 May 44	
OD 3916.....	Preliminary Description of Rangefinder Stabilizer Mk 4, 4 Mods 1 and 2 for Main Battery Turret Rangefinders on BBs 55 to 66, CBs 1, 2 and 3	28 Dec 44	R 2nd rev	
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary) (Stabilizer Mk 4 Mod 2)	25 Oct 44	R See remarks for OP 835 in Part I	
STABLE ELEMENTS				
See also GYROS				
OP 703.....	Theory and Description of Arma Vacuum Tubes, Triple Follow-up Circuits	Aug 1937	R	
OD 2665.....	Arma Follow-up System—Service Manual for Stable Element and Stable Vertical	16 Sep 38	R Rev C	
OD 2667.....	Transmission of Level and Cross Level to an Aloft Station from a Stabilized Element at a Remote Point	2 Dec 36	R	
OD 2582.....	Fire Control Equipment Stable Element Mk 1—Description	12 Jun 35	R	

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
STABLE ELEMENTS				
OD 2654.....	List of Mk and Mod Numbers for Stable Instruments and Control Panels (<i>Stable Elements Mks 1, 2 and 3</i>)	21 Jan 38	R Rev C	
OP 573.....	Director Firing Installation AA Battery (Synchro Type) Gun Director Mk 33 and Mods 1 to 8 Detail Description (<i>Stable Element Mks 2 and 2 Mod 1</i>)	Feb 1938	R 1st rev	Supersedes OD 2091
OD 2662.....	Fire Control Equipment—Stable Element Mk 2 Mods 1 and 2	27 Aug 41	R Rev D	
OD 2650.....	Fire Control Equipment—Stable Element Mk 2 and Mk 2 Mod 3	30 Jan 39	R Rev B	
OD 2105.....	Stable Element Mk 2 Mods 5, 6, 8, 9, 11 and 12	22 Apr 44	R	
OD 2106.....	Stable Element Mk 2 Mods 7, 10 and 13	21 Mar 44	R	
OP 857.....	Gun Director Mk 35 and Mk 36 with Associated Fire Control Equipment, Description (<i>Preliminary</i>) (<i>Stable Element Mk 3</i>)	Jan 1942	R	Supersedes OD 3319
OD 2664.....	Stable Element Mk 3	7 Jan 37	R	
OD 2880.....	Stable Element Mk 4—DDs 409 to 420 (General Electric Type) Starting up Routine	14 Dec 39	R	
OD 3212.....	Description of Latitude Motor—DDs 409 to 420 (<i>Stable Element Mk 4</i>)	Undated	D	
OD 3862.....	Description of Stable Element Mk 4 and Stable Element Control Panel Mk 6 (DDs 409 to 420)	31 Jan 40	R 2nd rev	
OD 2599.....	Stable Element Mk 5 and Mk 6 and Mk 6 Mod 1—Arma	8 Oct 42	R Rev D	Page 63, Para 2 cancelled per OTI F6-43. Superseded by OP 1063 for Mk 6
OTI F6-43....	Stable Elements Mk 5 and Mk 6, Revised Instructions For (A) Collector Ring Replacement and Maintenance, (B) Gyro Wheel Bearing Lubrication	24 Jul 43	R	Issued with OD 2599
OTI F1-43....	Computer Mk 1 and Mods disarrangement of Elevation Gear Train (<i>Stable Element Mk 6</i>)	23 Mar 43	R	
OP 1063.....	Stable Element Mk 6 and Mods	Jan 1944	R	See remarks for OP 1063 in Part 1
*OP 1240.....	Stable Element Mk 7 Mod 1		R	
STABLE VERTICAL				
OP 703.....	Theory and Description of Arma Vacuum Tube, Triple Follow-up Circuits	Aug 1937	R	
*OP 1653.....	Description of Gun Director Mk 43 (Stable Vertical and Stable Vertical Control Panel Mk 9) BBs 57 to 60		R	
OD 2665.....	Arma Follow-up System—Service Manual for Stable Element and Stable Vertical	16 Sep 38	R Rev C	
OD 2654.....	List of Mk and Mod numbers for Stable Instruments and Control Panels (<i>Stable Vertical Mks 29 and 30</i>)	21 Jan 38	R Rev C	
STADIMETERS				
OP 453.....	Stadimeters Mks 5 and 6 Description	May 1930	R 1st rev	For Submarines not having already received this OP
STANDS				
See also	MOUNTS			
OP 1427.....	Shotgun Mount Assembly Mk 1 Mod 0 (<i>Stand Mk 23 Mod 0</i>)	23 Feb 45	D	

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STANDS				
OP 1439.....	20-mm AA Assemblies (Twin); 20-mm AA Gun Mounts Mk 20 and Mods; 20-mm AA Gun Mounts Mk 24 and Mods; 20-mm Shoulder Rests and Handle Bars Mk 8 Mod 0; 20-mm Sight Adapter Equipment Mk 2 Mod 0; 20-mm Machine Gun Mechanism Mk 4 Mod 1; 20-mm Magazine Mk 5 Mod 0 (Stand Mk 7 Mods 9 to 14, 21 to 23)	28 Apr 45	D	See remarks for OP 1439 in Part I
OP 1424.....	Rocket Launcher Assembly Mk 102 Mod 0—Description and Instructions for Use (Stand Mk 1 Mod 0)	20 Sep 45	R	1st rev.
OP 811.....	3" Gun Mount Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (Stand Mk 10 and Mk 10 Mods 5 to 8)	22 Dec 43	R	1st rev. See remarks for OP 811 in Part I
OP 984.....	3" Gun Mounts .50 Cal., DP, Pedestal Type Mk 24 and Mk 24 Mod 1 (Stand Mk 20)	27 Jan 44	R	See remarks for OP 984 in Part I
OP 735.....	5"/38 Cal. Gun Mounts, AA Base Ring Type Mk 30 and Mk 30 and Mods (Except Merchantmen Types)	May 1943	R	1st rev. See remarks for OP 735 in Part I
OP 700.....	5" Mounts (38 Cal. AA, Pedestal Type) Mk 24 and Mk 24 Mods 1, 3, 6, 9, 10, 11—Assemblies, Description and Instructions (Stand Mk 13 Mods 1 and 3)	Sep 1942	R	See remarks for OP 700 in Part I
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries—38 Cal. DP, Single, Open, Base Ring Type Mk 30 Mods 20, 38, 39, 40, 45, 46, 48 and 49 (Stand Mk 14 Mods 9 and 14)	11 Apr 44	R	See remarks for OP 1013 in Part I
OP 868.....	5"/38 Cal. Single Mount Mk 37 (Stand Mk 14 Mod 15)	Feb 1943	R	See remarks for OP 868 in Part I
Stands, Range-Finder				
OD 3863.....	Description of Rangefinder Stabilizer Mk 3 Mod 5 for Gun Directors Mk 34 and Mk 34 Mod 1 (Shield Mk 5) for CLs 40 to 43, 46-48 (Stand Mk 3 Mods 3 and 4)	12 Jul 40	R	4th rev.
OD 1837.....	Rangefinder Stand Mk 10 Mod 3 and Mk 20 and Mods, Mk 16 Mod 3 and Mk 22 Mod 2—Elevation Mechanism	Undated	D	
OP 394.....	Rangefinder Mk 33 and 33 Mods 1 and 2 Description (Stand Mk 33)	Sep 1930	R	With Correction to Page 35
OD 1838.....	Rangefinder Stand Mk 33 and Mk 33 Mods 1, 2 and 3....	12 Feb 45	R	Rev B
OD 3907.....	Description of Rangefinder Stabilizer Mk 3 Mod 7 for Rangefinder Stands Mk 33 Mods 11 and 13 and Elastic Supports for CA 45, CLs 49 and 50 and Rangefinder Stands Mk 33 Mods 23 and 24 for CLs 55-58 incl 60, 62-67 incl 80-83 incl 86, 87, 89-94 incl 103-111 incl CAs 68-75 incl	22 Nov 43	R	4th rev.
OD 3324.....	Description of Elastically Supported Rangefinder Stands Mk 33 Mod 12	Undated	D	
OD 3054.....	Rangefinder Stabilizer Mk 2 Mod 1 and Rangefinder Stand Mk 33 Mods 12 and 14—Instruction Book	7 Feb 38	R	
OD 3857.....	Preliminary Description of Rangefinder Stabilizer Mk 3 and Elastic Supports for Rangefinder Stands Mk 33 Mods 15 and 16	7 Jun 40	R	4th rev.
OD 3855.....	Description of Rangefinder Stabilizer Mk 3 Mod 1 and Elastic Supports for Rangefinder Stands Mk 33 Mod 17	14 May 40	R	5th rev.
OD 3856.....	Description of Rangefinder Stabilizer Mk 3 Mod 2 and Elastic Supports for Rangefinder Stands Mk 33 Mods 18 and 19	10 Jun 40	R	4th rev.

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Stands, Range-Finder				
#OP 833.....	6"/47 cal Triple Turrets CL 55 Class.....	Jun 1942	R	With Appendix 1, Change 1 dated 27 Jan 45 and OCL G31-43
OD 3604.....	Description of Rangefinder Stand Mk 33 Mod 23.....	10 Mar 41	R	
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class (CAs 68 to 75, 122 to 138) (Preliminary) (Stand Mk 33 Mod 24).....	Apr 1943	R	See remarks for OP 834 in Part 1
OD 3919.....	Description of Rangefinder Stabilizer Mk 3 Mod 9 for Rangefinder Stands Mk 33 Mods 28, 29 and 30 for CAs 24-39 Spares.....	Mar 1944	R	3rd rev. With Change 3 dated 3 May 44
OP 755.....	16" Triple Turrets for BBs 55 to 60 (45 Cal.)—Description and Instructions (Stand Mk 46).....	Dec 1941	R	1st rev. See remarks for OP 755 in Part 1
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM, and HAWAII (Preliminary) (Stand Mk 59).....	25 Oct 44	R	See remarks for OP 835 in Part 1
STAR GAUGING				
See also GUNS				
OP 549.....	Star Gauge Mks 1, 2, 3 (For Fleet Use) Description....	Feb 1935	R	Supersedes OD 1574. For Fleet use only
STATION DISTRIBUTORS, See DISTRIBUTORS, STATION				
STAVES				
OP 1219B.....	Ammunition Code Catalog, Class B, Pyrotechnics (Wood Staves).....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
STEEL				
See also METALLURGY				
OD 3646.....	1710 Machine Gun Mechanism Mk 1 Mods 1 and 2—Instructions for Heat Treatment for Parts Manufactured from Chrome Molybdenum Steel and Carburizing Steel.....	4 Oct 43	D	Rev B
STEVEDORING				
TM55-310.....	Stevedoring.....	20 May 44	R	War Dept Publication
STOPS				
See also MOUNTS				
OP 1506.....	Cal .50 Machine Gun Mount Mk 21 Mod 1—Instructions for Laying Out of Cam Limit Stop and the Cutting of the Cam.....	30 Aug 45	R	Supersedes OP 1506 in Part 1
OHI GVI-45.....	Cover Limit Stop for Use with Cal .50 BAM Gun AN-M2 and Cal .50 M3 Aircraft Machine Guns.....	21 Aug 45	D	
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplicdyne Type) Description, Operation and Maintenance (Cross-level Positive Stops).....	1 Aug 44	R	Supersedes OD 3901. See remarks for OP 1062 in Part 1
OD 4787.....	Type Approval Test of Multiple Cal .50 Machine Gun Mount M45 (Army) Navy Mk 31 Mod 0 (Mfgr Kimberly Clark) and Experimental Train and Elevation Limit Stops (Mfgr Maxson Corp).....	2 Jun 45	R	
STOWAGE				
See also AMMUNITION, STOWAGE OF CONTAINERS MUNITIONS, CHEMICAL SHIPMENTS				

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STOWAGE				
OP 1105.....	Ordnance Storage Instructions.....	15 Dec 45	R 1st rev.	Issued with OTI G7-44, and Change 1 dated 25 Jan 46 which supersedes
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM and HAWAII (Preliminary)	25 Oct 44	R	See remarks for OP 835 in Part 1
OP 1361.....	Napalm Bombs (Aircraft Jettisonable Fuel Tanks Used on Incendiary Bombs) (Preliminary)	21 Apr 45	R	See remarks for OP 1361 in Part 1
OP 1440.....	472 Mortar Assembly Mk 1 Mod 0	25 Apr 45	R	See remarks for OP 1440 in Part 1
OD 3930.....	Gun Director Mk 34 Mods 8 and up, Instructions for Care in Storage	24 Jul 44	R	See remarks for OP 3930 in Part 1
OP 1260.....	Rocket Ammunition—570 Rocket (570 Motor)—Spin Stabilized (Preliminary)	6 Feb 45	R	See remarks for OP 1260 in Part 1
OP 1157.....	Rocket Ammunition, 375 and 570 Aircraft Rockets (375 Motor) Description and Instructions for Use	23 Mar 45	R 1st rev.	See remarks for OP 1157 in Part 1
OSSC Group S	Ordnance Storage and Shipment Chart.....	1 Nov 42		War Dept Publication
SUPPORTS				
OP 12190.....	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R 1st rev.	See remarks for OP 12190 in Part 1
*OD 4646.....	Vibration Data for Design of Elastic Supports for Directors Main Battery 1 and 2, AA 1 and 2 Turrets 1, 2, 3			
*OD 4647.....	Vibration Data for Design of Elastic Supports for Directors Main Battery 1 and 2, AA 1 and 2 Turrets 1 and 3			
*OD 4648.....	Vibration Data for Design of Elastic Supports for Director Main Battery 2, AA 2, Turret 3			
OD 4672.....	Vibration Data for Design of Elastic Supports for Rangefinders USS BALTIMORE CA 68	Undated		
OD 4680.....	Vibration Data for Design of Elastic Supports for Rangefinders USS NEW JERSEY BB 62			
*OD 4752.....	Vibration Data for Design of Elastic Supports for Rangefinders in Turrets Nos 1, 2, 3 CL 64			
*OD 4753.....	Vibration Data of Elastic Supports for Main Battery Directors Nos 1 and 2, Rangefinders USS ST LOUIS CL 49			
SWITCH BOXES, See BOXES				
SWITCHES				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R 2nd rev.	See remarks for OP 865 in Part 1
OP 1070.....	Gun Mount Adapters, Navy Type (Switch, Microphone Mk 1)	19 Jan 45	R	Supersedes OHI's VI-43, V4-43, V5-43 and OTI V18-43. Now issued by BuAer. NAVAER No 11-10-502
OP 1256.....	Bomb Rack Mk 54 and Auxiliary Equipment (For Lighter Than Air Use Only) (Bomb Release Switches)	2 Oct 44	R	Now issued by BuAer. NAVAER No 11-5-519
OD 900.....	Tests of Suitable Element of Firing Keys Mk 16 Mods 1 and 17—Information Concerning Firing Circuit Currents and Resistance on Battleships, Light Cruisers and Destroyers	5 Nov 26	R	
OD 1933.....	8" Elevating and Training Gears—Speed Gear Control Screw Cut-out Switches—Description and Instructions for Installation	10 Jun 30	D	

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SWITCHES				
OD 2031.....	USS PORTLAND (CA 33) and USS INDIAN-APOLIS (CA 35) 8" Triple Enclosed Mounts—Multiple Rotary Transfer Switch Terminal Markings	11 Feb 32	D	
OD 2044.....	USS NEW ORLEANS (CA 32), ASTORIA (CA 33) and MINNEAPOLIS (CA 34) 8" Triple Turrets—Multiple Rotary Transfer Switch—Terminal Markings	13 Sep 32	D	Superseded by OD 2732 for CAs 39 and 44
OD 2573.....	Range Transmitter Mk 2, Mk 3 and Mk 3 Mod 1 Including Selector Switch	29 May 44	R	Rev C
OD 4703.....	Report of Tests on Firing Key Switches as used in Firing Key Mk 16 Mod 8, on Loads to Simulate Mk 28 Solenoids	18 Mar 44	D	
OD 4746.....	Report of Shock and Lag Tests of Limit Switch Mk 5 with Latches Modified for Less Lag	25 Sep 44	R	
OD 4835.....	Report of Hi Shock Test of Small Switches (Commercial)	19 Oct 45	R	
OTI V43-43...	Special Precautions Regarding Installation of the Rear Mechanism Assembly and Use of the Safety Switch of Gun Mount	15 Nov 43	R	
SYMBOLS				
OD 3447.....	Standard Fire Control and Torpedo Control Symbols (For use in the Study and preparation of ODs and OPs)	30 Aug 39	R	
SYNCHRONIZERS				
See also.....	CUNS			
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OD 2359.....	Sight Setters Clutch Interlock System for 16" Sight Mk 4 Mods 2 and 3 for BBs 61-66 incl Installation Instructions (Synchronizers Mk 4 Mods 2 and 3)	12 Nov 42	R	Rev A
TMI-510.....	Synchronizing	3 Mar 43	OS	War Dept Publication
SYNCHROS				
See also.....	EXCITERS, SYNCHRO GENERATORS, SYNCHRO MOTORS, SYNCHRO RELAYS, SYNCHRO CONTROL SELSYNS TRANSFORMERS, SYNCHRO CONTROL TRANSMITTERS, SYNCHRO			
OP 1303.....	U. S. Navy Synchros—Description and Operation.....	15 Dec 44	D	
OD 4768.....	Report of Accuracy and Current Tests of Two Synchro Systems When Connected Mechanically Together	24 Feb 45	R	
OD 4774.....	Report of Tests to Determine the Characteristics of 60 Cycle Synchros when Operated from 400 Cycle Source of Power	24 Feb 45	R	
OD 2904.....	Report of Tests on Use of Size 5 Synchros as Error Transmitters	30 Jan 41	R	
OD 3684.....	Shock Test of Synchro Transmission Units—Report of Examination After Tests	25 Aug 41	R	
OD 3861.....	Dynamic Accuracy Tests on Synchro Units and Synchro Systems of General Electric Co Manufacture	6 Oct 43	D	2nd rev.

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SYNCHROS				
OD 4639.....	The Determination of the Static Accuracies Generator Capacities and Stiffness Factors of Synchro Systems Composed of Chains of Cascaded Differential Generators and Capacity of Generators in Terms of 5D Differential Motors	3 Apr 44	R	2202 GO
OD 4689.....	Report of Tests of Synchro Systems Composed of Double and One-Half Speed Indicator	12 Apr 44	R	4408 GO
OD 4733.....	Report of Test to Determine Voltage Gradients and Harmonic and Quadrature Voltage at Correspondence of Synchro Control Transformers	24 Aug 44	R	4733 GO
OD 4735.....	Report of Test and Inspection Synchro Control Transformers Type ICT Mk 5 Mod 6	24 Aug 44	R	4735 GO
OD 4737.....	Report of Tests to Check Synchronizing Times of Synchro Systems Specified in OS 671	24 Aug 44	R	4737 GO
OD 4738.....	Report of Tests to Measure the Torque Gradient of Synchros by Applying Predetermined Torque and Measuring the Resulting Displacement	6 Sep 44	R	4738 GO
OD 4745.....	Report of Tests to Determine a Method of Measuring Side Shake of Synchro Shafts	1 Nov 44	R	4745 GO
*OD 4780.....	Report of Tests and Inspection of Synchro Coercion Data (Army) 5D for 40-mm. Power Drive Mk 10 Mods 0, 1, and 2			4780 GO
OTI G33-43...	Train and Elevation Power Drives Mk 5 and Mods Train Power Drive Mk 6 Mod 3 Attachment of Synchro Adjusting Specification Numbers	5 Oct 43	R	Issued with OD 4408
OD 4720.....	Report of Test and Inspection of Continuous Duty High Speed Tests on Synchro Units	18 Jul 44	R	4720 GO
SYSTEMS				
*OP 1670.....	Aircraft Sight System Mk 1 and Mods.		R	1670 GO
*OP 1649.....	SWOD (Control System) Mk 18 Mod 1		R	1649 GO
OD 2166.....	Outline Description of Main Battery Fire Control System <i>USS ARIZONA</i> and <i>PENNSYLVANIA</i>	18 Dec 30	R	Unsigned
OD 2472.....	Description of Main and Secondary Battery Fire Control Systems for <i>USS NEW MEXICO</i> (BB 40), <i>MISSISSIPPI</i> (BB 41), and <i>IDAHO</i> (BB 42)	13 Oct 36	R	1st rev
*OP 856.....	Fire Control Systems—BBs 55 to 60—Description.....			Will incorporate subject matter intended for OP 1104
OD 1788.....	General Description of Main Battery Fire Control System CAs 26 to 31	17 Sep 31	R	2nd rev
OD 2513.....	General Description of Main Battery and Auxiliary Main Battery Fire Control Systems <i>USS NEW ORLEANS</i> (CA 33), <i>ASTORIA</i> (CA 34), and <i>MINNEAPOLIS</i> (CA 36)	14 Apr 36	R	2nd rev
OD 2605.....	Submarine Torpedo Fire Control Systems for SSs 169 to 171	28 Jun 39	R	2605 GO
OD 2603.....	Submarine Torpedo Fire Control Systems for SSs 172 to 181	21 Apr 39	R	2603 GO
*OP 1604.....	Solenoid Operated Hydraulic Gun Charging System for Aircraft		R	1604 GO
*OP 1600.....	Gun Fire Control System Mk 56.....		C	1600 GO
*OP 1600C...	Gun Fire Control System Mk 56—Director Maintenance		R	1600C GO
*OP 1600D...	Gun Fire Control System Mk 56, Control Room Maintenance		R	1600D GO

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SYSTEMS				
OP 1323A.....	Gun Fire Control System Mk 57, Maintenance (Less Radar Equipment)	25 Jul 45	R	See remarks for OP 1323A in Part 1
OP 1323B.....	Gun Fire Control System Mk 57—Installation, Maintenance and Accuracy Tests—(Preliminary)	31 Oct 45	R	See remarks for OP 1323B in Part 1
OP 1323C.....	Gun Fire Control System Mk 57, Schematic Diagrams—(Preliminary)	31 Aug 45	R	See remarks for OP 1323C in Part 1
*NavOrd Chart F1-45	Physical Schematic of Gun Fire Control System Mk 57			
*NavOrd Chart F2-45	Flow Schematic of Gun Fire Control System Mk 57			
*OP 1323.....	Gun Fire Control System Mk 57 Mod 1		R	
*OP 1562.....	Gun Fire Control System Mk 61 and Mods		C	
*OP 1562A...	Detailed Description and Maintenance of Gun Fire Control System Mk 61 (Less Radar Equipment)			
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 44	R	See remarks for OP 1233 in Part 1
OP 1238.....	Radar Equipment Mk 28 Mod 2	28 Dec 44	R	See remarks for OP 1238 in Part 1
*OP 1620.....	Gun Fire Control System Mk 63 (Less Gun Sight Mk 15 and Less Radar Equipment Mk 28 and Mk 34) Overhaul Manual			
*OP 1378.....	MBFC System for BBs 61 to 66		R	
*OP 1379.....	MBFC System for CBs 1 to 3		R	
*OP 1385.....	MBFC System for CLs 55, 64, and 40 Classes		R	
*OP 1386.....	MBFC System for CL 106 Class		R	
*OP 1387.....	MBFC System CAs 68 and 102 Classes		R	
*OP 1401.....	MBFC System for CL 144 Class		R	
*OP 1402.....	MBFC System for CA 139 Class		R	
OP 703.....	Theory and Description of Arma Vacuum Tube—Triple Follow-up Circuits	Aug 1937	R	
OP 1062.....	Director Control Mechanism for Gun Director Mk 37 (General Electric Amplidyne Type)—General Description, Operation and Maintenance (Amplidyne Follow-up System)	1 Aug 44	R	See remarks for OP 1062 in Part 1
*NavOrd Chart F16-45	Gyro Air Supply System			
*OP 1623.....	AA Target Reel Hydraulic Systems Mk 1 Mod 0			
*NavOrd Chart F4-45	Lead Angle Pick-Off System			
OD 939.....	Mounts, 14" Slides Mk 2 Mods 3 and 4 (USS NEVADA, OKLAHOMA and ARIZONA) (Counterrecoil Systems)	2 Jun 37	R	Rev A
OD 1960.....	5" Mount Mk 19 and Mods, AA—Maintenance, Overhauling Examination and Replacement of Parts of the Counter Recoil and Differential Cylinders	22 Nov 30	D	
OD 2893.....	Test Gauge Equipment for Checking Air and Liquid Gauges on Counter Recoil System	18 Apr 40	D	
*OP 1641.....	Power System (Hydraulic) Mk 1 Mod 0		R	
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM and HAWAII (Preliminary) (Recoil and Counterrecoil Systems)	25 Oct 44	R	See remarks for OP 835 in Part 1
*NavOrd Chart F5-45	Director Elevation and Electronic Relay System			

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SYSTEMS				
OTI F9-43.....	Pilot Valve Assembling Tool-Oil Gear-Remote Control System M5	12 Aug 43	R	
*NavOrd Chart F7-45	Gun Elevation Servo System			
OD 658.....	USS CINCINNATI-6" Sprinkler System Mk 1-Description and Instructions for Operation	12 Dec 29	R	
OD 659.....	USS RICHMOND-6" Sprinkler System Mk 1-Description and Instructions for Operation	18 Dec 29	R	
OP 1303.....	U. S. Navy Synchros, Description and Operation	15 Dec 44	D	
*OP 1661.....	Methods for Listing Synchro Systems		R	
OD 2906.....	Report of Tests on Synchro Transmission Systems with Combinations of Synchro Types	13 Nov 40	R	
OD 4737.....	Report of Tests to Check Synchronizing Times of Synchro Systems Specified in OS 671	24 Aug 44	R	
OD 4764.....	Report of tests to Determine Characteristics in Synchro Systems Composed of One Type 6G Generator, Two Type 6DG Differential Generators, Ten Type 5 HCT Control Transformers	13 Feb 45	R	
OD 4768.....	Report of Accuracy and Current Tests of Two Synchro Systems when Connected Mechanically Together	24 Feb 45	R	
OD 4785.....	Synchro System Test-One Type 7G Generator Transmitting to the Rotors and Six Type 6G Generators Transmitting to the Stators of Thirty-Eight Type 5D Differential Motors	20 Apr 45	R	
OD 4796.....	Report of Test and Inspection Navy Synchro Systems Using Army Synchro Differential Motor Type XIX Serial No. H-45 Volts 100/100	17 May 45	R	
OD 4810.....	Report of Synchro System Test Loading a Type 7G Generator with Type 5DG Differential Generators Loaded with Type 5CT Control Transformers and Type 5F Motors	23 Jun 45	R	
*NavOrd Chart F8-45	Director and Gun Train Transmission System			
*NavOrd Chart F10-45	Range Transmission System			
*NavOrd Chart F12-45	Range Rate Transmission System			
*NavOrd Chart F13-45	Wind Transmission System			
*NavOrd Chart F14-45	Cross Roll Transmission System			
TABLES				
See also	NOMOGRAMS			
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 44	R	See remarks for OP 1233 in Part 1
OP 1238.....	Radar Equipment Mk 28 Mod 2	28 Dec 44	R	See remarks for OP 1238 in Part 1
OP 1458.....	Fragmentation Data on Bombs and Projectiles	2 Apr 45	R	See remarks for OP 1458 in Part 1
OP 1081.....	Computer Mk 12 Mod 1-Operators Manual	30 Sep 43	R	With Change 1 dated 8 Apr 44, Change 2 dated 25 Oct 44

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TABLES				
OD 2780.....	Table of Distances for Locating the Origin of Bore of Service Guns 3" to 16" for use in Connection with Star Gauge Report Form NORD 54	23 Jan 46	R Rev D	
Tables, Bombing				
OP 998.....	Aircraft Pyrotechnics	14 Jul 43	R	Supersedes OP 562. See remarks for OP 998 in Part I
OP 1004.....	Index of Ballistic Information for Projectiles, Rockets and Bombs	7 Mar 45	C 2nd rev.	See remarks for OP 1004 in Part I
OP 1087.....	Release Lags for Incendiary Bomb Clusters	30 Nov 43	R	With Change 1 dated 2 Mar 44 and OCL AV-129-43
OP 1116B....	Inspection Procedure for Glide Bombing Attachment Mk 2 Mod 1	29 Jun 45	R	
OP 1315.....	Bombing Table for Use with Droppable Fuel Tanks	27 Nov 44	R	With Change 1 dated 23 Jan 45
OP 1339.....	Climb and Glide Bombing Tables for Use with Glide Bombing Attachment Mk 2 Mods 0 and 1 to the Bombsight Mk 15 Mods 4 to 7	1 Feb 45	R	
OP 1394.....	Bombing Table for 2,000-lb. Aircraft-laid Mine Mk 25 Mod 0	1 Feb 45	R	
OP 818.....	Bombing Table 1600 lb AP Bomb Mk 1 Bombsight Mk 15 Mods 4 and 5	Feb 1942	R	Appended, Page 2 of Low Altitude Bombing Table
OP 890.....	Bombing Table British Bomb AP 2000 lb Mk 1 Bombsight Mk 15 Mods 4 and 5	May 1943	R	
OP 934.....	Bombing Table for 1600 lb AP Bomb AN-Mk 1 Bombsight Mk 15 Mods 4 to 7	May 1943	R	
OP 886.....	Bombing Table 1000 lb Armor-Piercing Bomb AN-Mk 33 Bombsight Mk 15 Mods 4 to 8	4 Nov 44	R	
OP 877.....	Bombing Table British Bomb, Anti-submarine 500 lb Mk 3 Bombsight Mk 15 Mods 4 and 5	Dec 1942	R	Also applicable to British 20 lb Fragmentation Bomb Mk 1
OP 768.....	Bombing Table 500 lb Demolition Bomb Mk 9 and Mk 12 (Bombsight Mk 15 Mods 4 and 5) Ballistic Coefficient 2.2	Jul 1942	R	Appended page 2 of Low Altitude Bombing Table. With Change 1 dated 20 Nov 44
OP 793.....	Bombing Table 1000 lb Demolition Bomb Mk 13 and Mk 13 Mods 1 and 2 Bombsight Mk 15 Mods 4 and 5	Feb 1942	R	With Change 1 dated 20 Nov 44. Appended page 2 of Low Altitude Bombing Table
OP 1124.....	Bombing Table 4000 lb LC Demolition Bombs AN-M56 and AN-M56A1 Bombsight Mk 15 Mods 4 to 7	11 Mar 44	R	
OP 877.....	Bombing Table British Bomb Anti-Submarine 500 lb Mk 3, Bombsight Mk 15 Mods 4 and 5	Dec 1942	R	
OP 879.....	Bombing Table British Bomb GP 1000 lb Mk 1 (A) Bombsight Mk 15 Mods 4 and 5	Dec 1942	R	
OP 892.....	Bombing Table British Bomb GP 1900 lb Mk 1/A/ Bombsight Mk 15 Mods 4 and 5	May 1943	R	
OP 884.....	Bombing Tables British Bomb General Purpose 40 lb Mk 3/A/ and Bomb, General Purpose 150 lb T1 Bomb Sight Mk 15 Mods 4 to 8	May 1943	R	With Change 1 dated 21 Oct 44
OP 874.....	Bombing Table British Bomb GP 500 lb Mk 4/A/ Bombsight Mk 15 Mods 4 and 5	Dec 1942	R	
OP 849.....	Bombing Table 100 lb GP Bomb AN-M30 Bombsight Mk 15 Mods 4 and 5 (Includes Table of Release Lags for 4 lb Incendiary Bomb AN-M50 and AN-M54)	Aug 1942	R	
OP 1616.....	Bombing Table, Trail and Time of Fall, 100-lb Practice Bomb Mk 15 Mod 2, Wet Sand Filled (Preliminary)	21 Aug 45	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Tables, Bombing				
OP 1616A....	Bombing Table, Trail and Time of Fall, 100-lb Practice Bomb Mk 15 Mod 2, Water Filled (<i>Preliminary</i>)	21 Aug 45	R	
OP 1616B....	Bombing Table, Trail and Time of Fall, 100-lb GP Bomb AN-M30 and AN-M30A1 (<i>Preliminary</i>)	21 Aug 45	R	
OP 1616C....	Bombing Table, Trail and Time of Fall, 250-lb GP Bomb AN-M57 and AN-M57A1 (<i>Preliminary</i>)	21 Aug 45	R	
OP 1616D....	Bombing Table, Trail and Time of Fall, 500-lb GP Bomb M43, AN-M64 and AN-M64A1 (<i>Preliminary</i>)	27 Aug 45	R	
OP 1616E....	Bombing Table, Trail and Time of Fall, 1000 lb GP Bomb M44, AN-M65 and AN-M65A1 (<i>Preliminary</i>)	27 Aug 45	R	
OP 1616F....	Bombing Table, Trail and Time of Fall, 2000-lb GP Bomb M34, AN-M66 and AN-M66A1 (<i>Preliminary</i>)	27 Aug 45	R	
OP 1616G....	Bombing Table, Trail and Time of Fall, 260-lb Fragmentation Bomb M81 (<i>Preliminary</i>)	27 Aug 45	R	
OP 1616H....	Bombing Table, Trail and Time of Fall, 350-lb Depth Bomb AN-Mk 54 Mod 1 (<i>Preliminary</i>)	27 Aug 45	R	
OP 1616I....	Bombing Table, Trail and Time of Fall, 100-lb Incendiary Bomb M47A1 and M47A2 (NP or IM Filled) (<i>Preliminary</i>)	27 Aug 45	R	
OP 1616J....	Bombing Table, Trail and Time of Fall, 500-lb SAP Bomb, AN-M58A1 and AN-M58A2 (<i>Preliminary</i>)	27 Aug 45	R	
OP 1616K....	Bombing Table, Trail and Time of Fall, 1000-lb SAP Bomb AN-M59 and AN-M59A1 (<i>Preliminary</i>)	27 Aug 45	R	
OP 937.....	Bombing Table for Bomb GP 2000 lb AN-M34 and AN-M66 Bombsight Mk 15 Mods 4 and 5	15 Mar 43	R	
OP 841.....	Bombing Table 500 lb GP Bomb AN-M43 and AN-M64 Bombsight Mk 15 Mods 4 and 5 (Includes Table of Release Lags for 4 lb Incendiary Bomb AN-M50 and AN-M54)	Jul 1942	R	
OP 839.....	Bombing Table 1000 lb GP Bomb AN-M44 and 1000 lb GP Bomb AN-M65 Bombsight Mk 15 Mods 4 and 5 (Includes Table of Release Lags)	Jul 1942	R	
OP 955.....	Bombing Table Bomb GP 250 lbs AN-M57 Bombsight Mk 15 Mods 4 to 7	May 1943	R	Supersedes OP 843
OP 1123.....	Bombing Table—100 lb Incendiary Bombs M47A1 and AN-M47A2 Bombsight Mk 15 Mods 4 to 7	5 Jun 44	R	
OP 847.....	Bombing Table 1000 lb SAP Bomb AN-M59 Bombsight Mk 15 Mods 4 and 5 (Includes Table of Release Lags for 4 lb Incendiary Bombs AN-M50 and AN-M54)	Jul 1942	R	
OP 1395.....	Bombing Table for 1000-lb Aircraft-laid Mines AN-Mk 26 Mod 1, Mk 36 Mods 0 and 1	12 Feb 45	R	Issued with Change 1 dated 28 Sep 45
OP 1459.....	Bombing Table for 2000-lb Aircraft-laid Mines Mk 25 Mods 1, 2, 3	22 Mar 45	R	Issued with Change 1 dated 28 Sep 45
OP 797.....	Bombing Table Practice Bomb Mk 7 Bombsight Mk 15 Mods 4 and 5 Waterfillable 1000 lb Dimensions	Feb 1942	R	
OP 801.....	Bombing Table for Practice Bomb Mk 15 Mod 2 Waterfillable 100-lb Dimensions Bombsight Mk 15 Mods 4 to 7	Jun 1943	R	1st rev
OP 1332.....	Bombing Table for 13 lb Practice Bomb Mk 19 Mod 1 Bombsight Mk 15 Mods 4 to 8	18 Nov 44	R	With Change 1 dated 12 Jan 45
OP 957.....	Bombing Table for Bomb Practice 1000 lb Wet Sand Filled Mk 22 Bombsight Mk 15 Mods 4 to 7	May 1943	R	

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Tables, Collision Course				
OP 997.....	Collision Course Tables and Torpedo Angle Solver Mk 9 Description and Instructions for Use	Jul 1943	R	
Tables, Drift				
OD 2686.....	Drift Tables (IV 300 fs IV 2,300 fs) for 6"/53 cal Guns Mk 12 Mods 3 and 4 and Common Projectile Mk 20 and Mods	17 Apr 34	R	
OD 2787.....	Drift Tables (IV 2,700 fs IV 2,300 fs) for 8"/55 cal Guns with Uniform Twist Rifling of 1/25	7 Aug 36	R	
Tables, Firing				
FT 42-B-1....	Mortar, Chemical, 472 M2 Firing Shell, 472 Chemical Mortar M2 (FS, WP, L, CNS, CG, H and CNB)— Shell 472 Chemical Mortar (HE) M3 (TNT) with Charge, Propelling, 472 Chemical Mortar M6	31 Oct 45	D	War Dept publication
FT 81-B-4....	Firing Tables—Mortar 81-mm M1 Firing Shell, HE M43A1, Shell Practice M43A1 and M44 with Fuze PD M52, M52B1 and M52B2 (Abridged)	9 Jan 45		War Dept Publication
TB23-41-3	Gun, Submachine, Cal 45, M1A1, M2, and M3: Firing Table Data	16 Jun 43	D	War Dept publication
TM3-321	Graphical Firing Table M37.....	27 Mar 45	R	War Dept publication. See remarks for TM3-321 in Part 1
Tables, Range				
See also	BALLISTICS DATA, DIP & CONVER DATA, PARALLAX DATA, EROSION DIAGRAM, DEFLECTION PHOTOS TRAJECTORIES			
OP 1001.....	Projectors Mk 10, Mk 10 Mod 1 and Mk 11 and Ammunition Description and Instructions for Use	25 Jul 44	R	1st rev. With Change 1 dated 24 Oct 44. Supersedes OCLs A113-43, G12-44
OP 1004.....	Index of Ballistic Information for Projectiles, Rockets, and Bombs	7 Mar 45	C	2nd rev. See remarks for OP 1004 in Part 1
OP 1081.....	Computer Mk 12 Mod 1 Operators Manual.....	30 Sep 43	R	
OP 1291.....	Computer Mk 14 Mod 0 (AN/APA-30).....	23 Jan 45	C	
*OP 1344.....	Range Table for Aircraft Guns.....		R	
20-mm Range Tables				
OP 945.....	Range Table for 20-mm AA Gun 2,725 fsiv.....	25 Aug 43	R	With Change 1 dated 6 Dec 44
OP 1188.....	Abridged Range Tables for U. S. Naval Guns.....	13 Jun 44	R	Supersedes OD 443
OP 1406.....	Range Table for 20-mm Aircraft Guns M1, AN-M2 and M3 (T31) 2,750 fsiv—Forward Fire (Preliminary)	29 Dec 44	R	Supersedes OTI AV14-43
40-mm Range Tables				
OP 867.....	AA Range Table for 40-mm AA Guns, 2,800 fsiv, AA Projectile Mk 2, with Tracer Mk 11	28 May 45	R	1st rev
OP 867A	Range Table (Surface Targets) for 40-mm AA Gun— 2,800 fsiv—AA Projectile Mk 2 with Tracer Mk 11	23 Aug 45	R	This OP with OP 867B super- sedes OP 1181
OP 867B	Range Table (Surface Targets) for 40-mm AA Gun, 2,800 fsiv AP Projectile M81A1	23 Aug 45	R	Issued with Change 1 dated 27 Nov 45. This OP with OP 867A supersedes OP 1181
OP 1188.....	Abridged Range Tables for U. S. Naval Guns.....	13 Jun 44	R	Supersedes OD 443

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1 Pdr Range Tables				
#OP 76.....	1 Pdr Range Table 2,000 fsiv to 3,500 Yds, 40 cal Gun	Jun 1907	R	Supersedes OD 1460
OP 1188.....	Abridged Range Tables for U. S. Naval Guns	13 Jun 44	R	Supersedes OD 443
3 Pdr Range Tables				
OP 81.....	3 Pdr Range Table 2,200 fsiv to 4,500 Yds 50 cal Weight of Projectile 3.30 lbs Siacci's Method Corrected for Altitude, Ingall's Ballistic Tables	May 1907	D	Supersedes Sk 1104
OP 1188.....	Abridged Range Tables for U. S. Naval Guns	13 Jun 44	R	Supersedes OD 443
6 Pdr Range Tables				
OP 98.....	6 Pdr Range Table 2,240 fsiv to 8,000 Yds weight of Projectile 6 lb Siacci's Method Corrected for Altitude, Ingall's Ballistic Tables	Jan 1918	D	1st rev
OP 1188.....	Abridged Range Tables for U. S. Naval Guns	13 Jun 44	R	Supersedes OD 443
1710 Range Tables				
OP 717.....	1710 Range Table and Ballistic Data 2,600 fsiv to 7,400 Yds AA (75 cal)	Nov 1939	R	1st rev. With Change 1 dated 2 Sep 44
OP 1188.....	Abridged Range Tables for U. S. Naval Guns	13 Jun 44	R	Supersedes OD 443
3" Range Tables				
OP 390.....	Illuminating Projectiles, Description, Operation and Range Tables	Jan 1921	R	1st rev. Supersedes ODs 388 and 405
OP 935.....	3" Range Table 1,650 fsiv 13 lb AA Projectile Mk 26	Apr 1943	R	
OD 4393.....	3" Range Table 2,615 fsiv	Undated	R	
OP 134.....	3" Range Table 1,650 fsiv to 5,000 Yds Blunt Pointed Projectile Gun Mk 13 (23 cal)	Jun 1907	D	Supersedes Sk 1490
OP 944.....	AA Range Table 3"/23 cal Gun-1,650 fsiv 13 lb AA Projectile Mk 26 Mechanical Time Fuze Mk 22	2 Aug 43	R	
OP 1188.....	Abridged Range Tables for U. S. Naval Guns	13 Jun 44	R	Supersedes OD 443
OP 824.....	AA Range Table 3"/50 Gun 2,615 fsiv AA Projectiles Mk 23 and 27 Mechanical Time Fuze Mk 22	May 1943	R	With Change 1 dated 17 June 44
OP 861.....	Range Table for 3"/50 Cal AA Gun, 2,700 fsiv, 13-lb AA Projectile	23 May 44	R	1st rev. Issued with Change 1 dated 11 Jan 45
4" Range Tables				
OP 390.....	Illuminating Projectiles Description, Operation and Range Tables	Jan 1921	R	1st rev. Supersedes ODs 388 and 405
OP 1188.....	Abridged Range Tables for U. S. Naval Guns	13 Jun 44	R	Supersedes OD 443
OP 1224.....	Range Table for 4"/50 cal Gun 2,900 fsiv 33 lb HC and Common Projectiles	16 Sep 44	R	
OP 1225.....	AA Range Table for 4"/50 cal Gun 2,800 fsiv 33 lb HC Projectile	21 Aug 44	R	
5" Range Tables				
OP 390.....	Illuminating Projectiles Description, Operation and Range Tables	Jan 1921	R	1st rev. Supersedes ODs 388 and 405
*OP 1205A...	AA Range Table for 5"/25 Cal Gun-AA Common Projectile		R	
OP 1205B....	Range Table (Surface Targets) for 5"/25 Cal AA Gun-2,035 fsiv-52.7-lb WP Smoke Projectile Mk 45	3 Jan 46	R	
OD 3706.....	5" Range Table 2,200 fsiv	27 Nov 41	R	
OD 3707.....	5" Range Table 3,050 fsiv	27 Nov 41	R	
OP 1188.....	Abridged Range Tables for U. S. Naval Guns	13 Jun 44	R	Supersedes OD 443

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5" Range Tables				
OP 1205.....	Range Table (Surface Targets) for 5"/25 Cal AA Gun—2,035 fsiv—53.85-lb AA Common Projectile Mk 36	17 Dec 45	R	1st rev. Supersedes OD 4478
OP 551.....	Range Table (Surface Targets) for 5"/38 Cal Gun, 2,600 fsiv, AA Common Projectile Mk 35	20 Jan 45	R	1st rev. Issued with Change 1 dated 2 Jun 45
*OP 551A.....	AA Range Table for 5"/38 Cal Gun, 2,500 fsiv.....		R	Supersedes
OP 1285.....	Range Table for 5"/38 Cal Gun, 1,200 fsiv, AA Common Projectile Mk 35	26 Sep 45	R	1st rev.
OP 1487.....	Range Table for 5"/38 Cal Gun, 2,600 fsiv, 53-lb WP Smoke Projectile	17 Apr 45	R	Supersedes OP 1042 for Ballistic Data for WP Projectile A
OP 184.....	5" Range Table 3,000 fsiv to 19,000 Yds Long-Pointed Projectile (i) 0.61 (50 cal)	Feb 1921	D	Supersedes Sk 3240
OP 183.....	5" Range Table 2,300 fsiv to 12,600 Yds (51 cal)	Jul 1922	R	Supersedes OD 508
OP 185.....	5" Range Table 3,150 fsiv to 22,600 Yds (51 cal)	Jun 1922	R	Supersedes OD 490
OP 1293.....	Range Table for 5"/51 cal Gun 3,150 fsiv 50 lb HC Projectile	31 Oct 44	R	
OP 1294.....	Range Table for 5"/51 cal Gun 2,300 fsiv 50 lb HC Projectile	4 Nov 44	R	
OP 1359.....	AA Range Table for 5"/51 cal Gun 3,050 fsiv 50 lb HC Projectile	16 Dec 44	R	
OP 1360.....	AA Range Table for 5"/51 cal Gun 2,200 fsiv 50 lb HC Projectile	29 Dec 44	R	
OP 1182.....	Range Table for 5"/54 cal Gun 2,650 fsiv 70 lb HC Projectile	26 May 44	R	
OP 1183.....	Range Table (Abridged) for 5"/54 cal Gun 2,550 fsiv 70 lb HC Projectile	16 May 44	R	
OP 1184.....	AA Range Table for 5"/54 cal Gun 2,550 fsiv 70 lb HC Projectile	27 May 44	R	
OP 1188.....	Abridged Range Tables for U. S. Naval Guns.....	13 Jun 44	R	Supersedes OD 443
6" Range Tables				
OD 3708.....	6" Range Table 2,200 fsiv.....	27 Nov 41	R	
OD 3725.....	6" Range Table 2,425 fsiv.....	6 Dec 41	R	
OD 3727.....	6" Range Table 1,975 fsiv.....	6 Dec 41	R	
OD 4404.....	6" Range Table 2,725 fsiv.....	15 May 42	R	Rev A
OD 4409.....	6" Range Table 2,925 fsiv.....	31 May 42	R	
OD 4412.....	6" Range Table 2,225 fsiv.....	21 May 42	R	
OP 563.....	6" Range Table 2,300 fsiv to 60° Elevation (47 cal) Description	Sep 1934	R	With blueprint pages 21,000 to 21,260
OP 564.....	6" Range Table 2,800 fsiv to 60° Elevation (47 cal)	Sep 1934	R	
OP 830.....	Range Table for 6"/47 Cal Gun, 2,500 fsiv, 130-lb AP Projectile	6 Jan 44	R	1st rev. Issued with Change 1 dated 27 Dec 44, Change 2 dated 19 Nov 45. Incorporates OD 3724
OP 832.....	Range Table for 6"/47 Cal Gun, 2,050 fsiv, 130-lb Projectiles	7 Mar 44	R	1st rev. Issued with Change 1 dated 27 Dec 44, Change 2 dated 14 Dec 45. Supersedes OD 3726
OP 933.....	Range Table (Abridged) for 6"/47 cal Gun 2,590 fsiv 105 lb HC Projectile		R	1st rev.
OP 990.....	AA Range Table 6"/47 cal Gun 2,590 fsiv 105 lb HC Projectile Mk 34, 45 Second Mechanical Time Fuze Mk 18	24 Aug 43	R	

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6" Range Tables				
OP 1008.....	Range Table for 6"/47 cal Gun 2,665 fsiv 105 lb HC Projectile	12 Jul 43	R	With Change 1 dated 30 Dec 44
OP 1188.....	Abridged Range Tables for U. S. Naval Guns	13 Jun 44	R	Supersedes OD 443
OP 1366.....	Range Table for 6"/47 Cal Gun—2,225 fsiv—105-lb HC Projectile	28 Jul 45	R	
OP 1367.....	Range Table (Abridged) for 6"/47 Cal Gun—2,125 fsiv—105-lb HC Projectile	23 Mar 45	R	
*OP 1612.....	Range Table for 6"/47 Cal Double Purpose Gun—2,565 fsiv, 105-lb HC Projectile Mk 39		R	
*OP 1613.....	AA Range Table for 6"/47 Cal DP Gun, 105-lb HC Projectile Mk 39, 2,565 fsiv		R	
*OP 1614.....	Range Table for 6"/47 Cal DP Gun, 105-lb Projectile Mk 39, 2,125 fsiv		R	
OP 200.....	6" Range Table 2,800 fsiv to 25,000 Yds Long-Pointed Projectile (i) 0.61 (50 cal)	Feb 1921	D	1st rev. Supersedes Sk 3579. Modified by OP 1004
OP 201.....	6" Range Table 2,600 fsiv to 15,000 Yds (i) 0.61 (50 cal)	May 1910	D	Supersedes Sk 3578
OP 203.....	6" Range Table 2,150 fsiv to 18,000 Yds Long-Pointed Projectile (i) 0.61 (50 cal)	Feb 1921	D	1st rev.
OP 112.....	6" Range Tables 3,000 fsiv to 26,000 Yds for Submarine Gun 53 cal	Mar 1927	R	With Change 1 dated 2 May 44 and Change 2 dated 14 Feb 45. Supersedes OD 919
OP 116.....	6" Range Tables 2,300 fsiv to 19,000 Yds Submarine Gun 63 cal	Mar 1927	R	With OCL A4-44, Change 1 dated 2 May 44 and Change 2 dated 14 Feb 45. Supersedes OD 918
OP 194.....	6" Range Table 2,300 fsiv to 17,500 Yds (i) 0.68 (50 and 53 cal)	Aug 1921	D	Supersedes OD 452
OP 1026.....	Range Table for 6"/53 cal Gun 3,000 fsiv 105 lb HC Projectile	28 Aug 43	R	With Change 1 dated 11 Aug 44
OP 1214.....	Range Table for 6"/53 cal Gun 2,400 fsiv 105 lb HC Projectile	9 Aug 44	R	
OP 1215.....	AA Range Table for 6"/53 cal Gun 2,300 fsiv 105 lb HC Projectile	29 Aug 44	R	
8" Range Tables				
OP 227.....	8" Range Table 2,300 fsiv to 24,300 Yds (55 cal)	Oct 1927	R	With Change 1 dated 2 May 44. Supersedes OD 940
OP 243.....	8" Range Table 2,700 fsiv to 30,500 Yds (55 cal)	Aug 1928	R	With Addenda A and Change 2 dated 2 May 44. Supersedes OD 1572
OP 807.....	8" Range Table, 2,500 fsiv to 30,500 Yds	Jan 1942	R	Issued with Change 1 dated 22 Feb 45, Change 2 dated 16 Jun 45
OP 858.....	8" Range Table 335-lb Projectile 2,000 fsiv	May 1942	R	Issued with Change 1 dated 21 Feb 45, Change 2 dated 16 Jun 45. Incorporates OD 3728 without change
OP 992.....	Range Table (Abridged) for 8"/55 cal Gun 2,600 fsiv 260 lb HC Projectile	31 Jan 44	R	1st rev
OP 993.....	AA Range Table for 8"/55 cal Gun 2,600 fsiv 260 lb HC Projectile Mk 24, 45 Second Mechanical Time Fuze Mk 18	30 Nov 43	R	

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8" Range Tables				
OP 1041.....	Range Table for 8"/55 Cal Gun, 260-lb HC Projectile IV 2,700 and 2,800 fs	1 Mar 44	R	1st rev. Issued with Change 1 dated 16 Jun 45. Supersedes OP 1095 and OCL A21-43
OP 1096.....	AA Range Table for 8"/55 cal Gun 2,700 fsiv 260 lb HC Projectile Mk 24, 45 Second Mechanical Time Fuze Mk 18	22 Dec 43	R	
OP 1186.....	AA Range Table for 8"/55 cal Gun 2,200 fsiv 260 lb HC Projectile	14 Oct 44	R	
OP 1188.....	Abridged Range Tables for U. S. Naval Guns.....	13 Jun 44	R	Supersedes OD 443
OP 1190.....	Range Table for 8"/55 cal Gun 2,160 fsiv 260 lb HC Projectile	20 Jun 44	R	
OP 1192.....	AA Range Table for 8"/55 cal Gun 2,060 fsiv 260 lb HC Projectile	20 Jun 44	R	
OP 1229.....	Range Table 8"/55 cal Gun 2,300 fsiv 260 lb HC Projectile	15 Sep 44	R	
OP 1333.....	Range Table for 8"/55 Cal Gun, 2,200 fsiv, 260-lb HC Projectile	27 Nov 44	R	With Change 1 dated 16 Jun 45
OP 1334.....	Range Table (Abridged) for 8"/55 cal Guns 2,150 fsiv 260 lb HC Projectile	27 Nov 44	R	Supersedes OP 1191
OP 1335.....	AA Range Table 8"/55 cal Gun 2,150 fsiv 200 lb HC Projectile	27 Nov 44	R	
OD 3676.....	8" Range Table 2,425 fsiv.....	26 Dec 41	R	
OD 3729.....	8" Range Table 1,925 fsiv (Projectile).....	26 Dec 41	R	
12" Range Tables				
OP 168.....	12" Range Tables 2,900 fsiv to 34,000 Yds (50 cal).....	May 1927	R	With Change 1 dated 7 Feb 45. Supersedes OD 862
OP 169.....	12" Range Table 2,100 fsiv to 21,000 Yds 45 and 50 cal....	Jun 1927	R	With Change 1 dated 7 Feb 45. Supersedes OD 868
OP 789.....	Range Table for 12"/50 Cal Gun, 1,140-lb AP and Target Projectiles 1,800, 2,300 and 2,500 fsiv	4 Mar 44	R	See remarks for OP 789 in Part 1/A
OP 1230.....	Range Table for 12"/50 Cal Gun, 1,850 fsiv, 940-lb HC Projectile	22 Sep 44	R	With Change 1 dated 19 Jun 45
OP 1231.....	Range Table (Abridged) for 12"/50 Cal Gun, 1,865 fsiv, 940-lb HC Projectile	10 Feb 45	R	1st rev.
OP 1232.....	AA range Table for 12"/50 cal Gun 1,775 fsiv 940 lb HC Projectile	9 Oct 44	R	
OP 1241.....	Range Table for 12"/50 cal Gun 2,650 fsiv 940 lb HC Projectile	15 Sep 44	R	With Change 1 dated 23 Jan 45
OP 1242.....	Range Table (Abridged) for 12"/50 cal Gun 2,575 fsiv 940 lb HC Projectiles	6 Sep 44	R	
OP 1243.....	AA Range Table for 12"/50 cal Gun 2,575 fsiv 940 lb HC Projectile	22 Sep 44	R	With Change 1 dated 23 Jan 45
OP 1281.....	Range Table for 12"/50 cal Gun 3,000 fsiv 740 lb HC Projectiles	17 Oct 44	R	With Change 1 dated 7 Feb 45
OP 1283.....	AA Range Table for 12"/50 cal Gun 2,925 fsiv 740 lb HC Projectile	30 Oct 44	R	
OP 1460.....	Range Table (Abridged) for 12"/50 Cal Gun, 2,425 fsiv, 1,140-lb AP Projectile	13 Mar 45	R	Supersedes Pages 74 and 75 of OP 789
*OP 1460A....	Range Table for 12"/50 Cal Gun.....		R	
OP 1461.....	Range Table (Abridged) for 12"/50 Cal Gun, 1,725 fsiv, 1,140-lb Target Projectile	13 Mar 45	R	Supersedes Page 71 of OP 789

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12" Range Tables				
*OP 1461A	Range Table for 12"/50 Cal Gun		R	
OP 1564	Range Table for 12"/50 Cal Gun, 1,965 fsiv, 940-lb HC Projectile	20 Jul 45	R	
14" Range Tables				
OP 1079	Range Table (Abridged) for 14"/45 and 50 Cal Gun, 1,965 fsiv, 1,275-lb HC Projectile	14 Mar 45	R	1st rev
OP 1544	Range Table for 14"/45 and 14"/50 Cal Guns—2,065 fsiv, 1,275-lb HC Projectile	21 Jun 45	R	
OP 924	Range Table for 14"/50 cal Gun 2,825 fsiv 1,275 lb HC Projectiles	11 Apr 44	R	1st rev. With Change 1 dated 3 Mar 45
OP 1080	AA Range Table for 14"/45 cal Gun 14"/50 cal Gun 1,925 fsiv 1,275 lb HC Projectile	11 Mar 44	R	
OP 1162	Range Table for 14"/50 cal Gun (Abridged) 2,750 fsiv 1,275 lb HC Projectile	6 Apr 44	R	
OP 1163	AA Range Table for 14"/50 cal Gun 2,750 fsiv 1,275 lb HC Projectile	17 Apr 44	R	
OP 1467	Range Table for 14"/50 Cal Gun, 1,860 fsiv, 1,500-lb Target Projectile	11 Aug 45	R	1st rev. Supersedes OP 754
OP 1468	Range Table for 14"/50 Cal Gun, 2,625 fsiv—1,500-lb AP Projectile	20 Aug 45	R	1st rev. Supersedes OP 752
OP 1554	Range Table for 14"/45 Cal Gun, 1,860 fsiv—1,500-lb Target Projectile	6 Aug 45	R	Supersedes OP 754
OD 5363	AA Ballistic Data for 14"/50 cal Gun 2,750 fsiv 1,275 lb HC Projectile, 45 Second Mechanical Time Fuze	28 Apr 44	R	
OP 923	Range Table for 14"/45 Cal Gun 2,735 fsiv 1,275 lb HC Projectiles	26 Apr 44	R	1st rev. With Change 1 dated 28 Feb 45
OP 1080	AA Range Table for 14"/45 cal Gun 14"/50 cal Gun 1,925 fsiv 1,275 lb HC Projectiles	11 Mar 44	R	
OP 1166	Range Table (Abridged) for 14"/45 cal Gun 2,660 fsiv 1,275 lb HC Projectiles	18 Apr 44	R	
OP 1167	AA Range Table for 14"/45 cal Gun 2,660 fsiv 1,275 lb HC Projectile	5 May 44	R	
OP 1556	Range Table for 14"/45 Cal Gun, 1,935 fsiv 1,500 lb Target Projectile Mk 21, USS NEW YORK and TEXAS	31 Jul 45	R	
OD 2742	14"/45 cal 2,700 fsiv (USS TEXAS)	Undated	D	
OD 5365	AA Ballistic Data for 14"/45 cal Gun 2,660 fsiv 1,275 lb HC Projectile, 45 Second Mechanical Time Fuze	25 Apr 44	R	
OP 964	Range Table 14"/45 cal Gun and 14"/50 cal Gun 2,000 fsiv 1,275 lb HC Projectile Mk 19	Apr 1943	R	With Change 1 dated 3 Mar 45 and OCL A100-43. Supersedes OP 917
16"/45 Range Tables				
OP 750	16" Range Table 2,520 fsiv to 40,600 Yds—AP Projectile (45 Cal)	Jun 1940	R	With Change 1 dated 24 Feb 45
OP 751	16" Range Table 1,935 fsiv to 25,300 Yds—AP Projectiles (45 Cal)	Jun 1940	R	With Change 1 dated 24 Feb 45, Change 2 dated 26 Jul 45
OP 757	16" Range Table 2,300 fsiv to 36,900 Yds AP Projectile (45 cal)	Oct 1940	R	With Change 1 dated 11 Apr 44, Change 2 dated 24 Feb 45 and OCL F8-43
OP 758	16" Range Tables 1,800 fsiv to 23,930 Yds—Target Projectile (45 Cal) (50 Cal)	Oct 1940	R	See remarks for OP 758 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
16"/45 Range Tables				
OP 916.....	16" Range Table (<i>Tentative</i>) 2,000 fsiv.....	Feb 1943	R	
OP 921.....	Range Table for 16"/45 cal Gun 2,635 fsiv 1,900 lb HC Projectile	22 Dec 43	R	1st rev. With Change 1 dated 28 Feb 45
OP 922.....	Range Table for 16"/45 cal Gun 2,525 fsiv 1,900 lb HC Projectiles	11 Mar 44	R	1st rev. With Change 1 dated 24 Feb 45
OP 969.....	Range Table 16"/45 Cal Gun, 2,000 fsiv 1,900 lb HC Projectile Mk 13	17 Oct 44	R	2nd rev. With Change 1 dated 27 Jul 45
OP 970.....	Range Table 16"/45 Cal Gun, 1,900 fsiv 1,900 lb HC Projectile Mk 13	25 Oct 44	R	2nd rev. With Change 1 dated 27 Jul 45
OP 1051.....	Range Table (Abridged) 16"/45 and 50 Cal Guns, 1,975 fsiv 1,900 lb HC Projectile	23 Mar 45	R	1st rev.
OP 1052.....	AA Range Table for 16"/45 cal Gun 16"/50 cal Gun 1,825 fsiv 1,900 lb HC Projectile	15 Apr 44	R	
OP 1109.....	Range Table for 16"/45 cal Gun 2,560 fsiv 1,900 lb HC Projectile (Abridged)	30 Nov 43	R	With Change 1 dated 24 Apr 44
OP 1110.....	AA Range Table for 16"/45 Cal Gun 2,560 fsiv 1,900 lb HC Projectile	11 Mar 44	R	
OP 1144.....	Range Table (Abridged) for 16"/45 cal Gun 2,450 fsiv 1,900 lb HC Projectile	11 Mar 44	R	
OP 1145.....	AA Range Table for 16"/45 cal Gun 2,450 fsiv 1,900 lb HC Projectile	11 Mar 44	R	
OP 1159.....	AA Range Table for 16"/45 cal Gun 1,900 fsiv 1,900 lb HC Projectile	18 Apr 44	R	
OP 1455.....	Range Table (Abridged) for 16"/45 Cal Gun, 2225 fsiv 2,700 lb AP Projectile	7 Mar 45	R	Supersedes OD 3456
OP 1456.....	Range Table (Abridged) for 16"/45 Cal and 16"/50 Cal Gun, 1,725 fsiv, 2,700 lb Target Projectile	7 Mar 45	R	Supersedes OD 3455
OP 1472.....	Range Table (Abridged) for 16"/45 Cal Gun, 1,869 fsiv, 2,240 lb Target Projectile	23 Mar 45	R	Supersedes OD 3457
OP 1473.....	Range Table (Abridged) for 16"/45 Cal Gun 2,445 fsiv 2,240 lb AP Projectile	23 Mar 45	R	Supersedes OD 3458
OP 1543.....	Range Table for 16"/45 and 16"/50 Cal Guns 2,075 fsiv 1,900 lb HC Projectile	21 Jun 45	R	
OP 1553.....	Range Table for 14"/45 Cal Gun, 2,525 fsiv, 1,500 lb AP Projectile Mk 16	10 Jul 45	R	Supersedes OP 746 (1st rev) and OD 3717
OP 1555.....	Range Table for 14"/45 Cal Gun 2,600 fsiv 1,500 lb AP Projectile Mk 20, USS NEW YORK and TEXAS	13 Jul 45	R	
16"/50 Range Tables				
OP 758.....	16" Range Table for 1,800 fsiv to 23,930 Yds, Target Projectile (45 Cal) (50 Cal)	Oct 1940	R	See remarks for OP 758 in Part 1.
OP 770.....	16" Range Table 2,500 fsiv (50 cal) to 42,345 Yds....	Oct 1941	R	With Change 1 dated 11 Apr 44, Change 2 dated 24 Feb 45
OP 970.....	Range Table 16"/45 Cal Gun, 16"/50 Cal Gun, 1,900 fsiv 1,900 lb HC Projectile Mk 13	25 Oct 44	R	2nd rev. With Change 1 dated 27 Jul 45
OP 1051.....	Range Table (Abridged) 16"/45 and 50 Cal Guns, 1,975 fsiv 1,900 lb HC Projectile	23 Mar 45	R	1st rev.
OP 1052.....	AA Range Table for 16"/45 cal Gun 16"/50 cal Gun 1,825 fsiv 1,900 lb HC Projectile	15 Apr 44	R	
OP 1090.....	Range Table (Abridged) for 16"/50 cal Gun 2,615 fsiv 1,900 lb HC Projectile	30 Oct 43	R	With Change 1 dated 24 Apr 44
OP 1091.....	AA Range Table for 16"/50 cal Gun 2,615 fsiv 1,900 lb HC Projectile	11 Mar 44	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
16"/50 Range Tables				
OP 1100.....	Range Table for 16"/50 cal Gun 2,690 fsiv 1,900 lb High-Capacity Projectile	8 Dec 43	R	With Change 1 dated 24 Mar 44 and Change 2 dated 24 Feb 45
OP 1456.....	Range Table (Abridged) for 16"/45 Cal and 16"/50 Cal Gun, 1,725 fsiv 2,700 lb Target Projectile	7 Mar 45	R	Supersedes OD 3455
OP 1457.....	Range Table (Abridged) for 16"/50 Cal Gun, 2,425 fsiv, 2,700 lb AP Projectile	7 Mar 45	R	Supersedes OD 3593
TABLES, RANGE, MORTAR				
OP 1499.....	Range Table (Elevation above 45°) for 4"2 Mortar Assembly Mk 1 Mod 0, 24.25 lb Shell HE M3 (TNT) with Fuze M3 and Propelling Charge M6, 25.5 lb Shell M2 (WP) with Fuze M2 and Propelling Charge M6	25 Apr 45	R	
TABLES, RANGE—ROCKETS				
OP 1004.....	Index of Ballistic Information for Projectiles, Rockets, and Bombs	7 Mar 45	C	2nd rev. See remarks for OP 1004 in Part 1
OP 1135.....	Rocket Launcher Mk 30 Mod 0 (T-Slot Launcher for Fin Stabilized Rocket) (Preliminary) Description and Instructions for Use	10 Nov 44	R	
OP 1157.....	Rocket Ammunition, 3"5 and 5"0 Aircraft Rockets (3"25 Motor), Description and Instructions for Use	23 Mar 45	R	1st rev. See remarks for OP 1157 in Part 1
OP 1255.....	Range Table for 2"25 Rockets (Sub-Caliber) Used with Aircraft Launchers Mk 6 and Mods (Preliminary)	14 Sep 44	R	See remarks for OP 1255 in Part 1
OP 1175.....	3"25 Rockets, Target.....	31 Jul 44	R	See remarks for OP 1175 in Part 1
OP 1176.....	Range Table for 3"5 and 5"0 Aircraft Rockets (3"25 Motors) Used with Launchers Mk 4 and Mk 5	2 May 44	R	See remarks for OP 1176 in Part 1
OP 1223.....	Range Table for 3"5 and 5"0 Aircraft Rockets, British, 3"25 Motor No 1 Mk 2 (11-lb Cruciform Grain)	17 Jul 44	R	Superseded by OP 1296 for Angle of Attack Data for Corresponding Aircraft
OP 1244.....	Rocket Launchers Mk 50 Mods 0 and 1—Description and Instructions for Use	26 Oct 45	R	2nd rev. See remarks for OP 1244 in Part 1
OP 1296.....	Boresighting and Effective Angle of Attack Data for Aircraft	29 Dec 44	R	See remarks for OP 1296 in Part 1
OP 1353.....	Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft FM-2	22 Dec 44	R	With Change 1 dated 1 Jun 45. See remarks for OP 1353 in Part 1
OP 1354.....	Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft F4U-1, F4U-1D, and FG-1	22 Dec 44	R	See remarks for OP 1354 in Part 1
OP 1355.....	Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft F6F-3 and F6F-5	22 Dec 44	R	See remarks for OP 1355 in Part 1
OP 1356.....	Range Table for 2"25 Aircraft Rockets (Subcaliber) 3"5 and 5"0 Aircraft Rockets (with 3"25 Motors) and 5"0 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft TBM-1 and TBF-1	9 Apr 45	R	See remarks for OP 1356 in Part 1

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
TABLES, RANGE, ROCKETS				
OP 1357.....	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft TBM-1C and TBF-1C	16 Mar 45	R	See remarks for OP 1357 in Part 1
OP 1358.....	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 High Velocity Aircraft Rockets Used with Post-type (Zero Length) Launchers, Aircraft SB2C-1, SB2C-1C, SB2C-3, SB2C-4; and SB2C-5	29 Dec 44	R	With Change 1 dated 18 Apr 45. See remarks for OP 1358 in Part 1
OP 1437.....	Range Table for 772 Shipboard Rockets, Rocket Launchers Mks 20 and 22	14 Apr 45	R	Supersedes OP 1002 (1st rev) for Ballistic Data for 772 Shipboard Rockets
OP 1371.....	Range Table for 11775 Aircraft Rockets Fired From F4U and F6F Type Aircraft Using Drop Launchers (Preliminary)	2 Mar 45	R	
*OP 1498.....	Range Table for 5" Spin Stabilized Rockets Fired From Rocket Launchers Mk 50 and Mk 102		R	
OP 1524.....	Range Table for 2725 Aircraft Rockets (Subcaliber) 375 and 570 Aircraft Rockets (with 3725 Motors) and 570 HV Aircraft Rockets used with Post-type (Zero Length) Launchers, Aircraft PV-1	4 Jul 45	R	
*OP 1565.....	Range Table for 475 Rockets Mk 3.....		R	
*OP 1594.....	AA Range Table 475 Spin Rocket M16.....		R	
*OP 1595.....	AA Range Table 570 High Capacity Spin Stabilized Rockets		R	
*OP 1597.....	Range Table for Aircraft Rockets Used with Post-Type Launchers Fired From F7F Aircraft		R	
*OP 1598.....	Range Table for Aircraft Rockets Used with Post-Type Launchers Fired From F8F Aircraft		R	
*OP 1599.....	Range Table for Aircraft Rockets Used with Post-type Launchers from PV-2 Aircraft		R	
TABLES, SIGHT ANGLE				
OP 1421.....	Sighting Data for Fixed-Gun Strafing, Caliber .50 and 20-mm Fixed Machine Guns	28 Apr 45	R	1st rev
TACHOMETERS				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
TANKS				
OP 1219 O....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219 O in Part 1
Tanks, Chemical				
OP 878.....	General Data on Navy, AN-Standard, Army, and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1
OP 1125.....	Aviation Ordnance, Chemical Spraying Equipment.....	29 Sep 44	R	Supersedes OP 723. See remarks for OP 1125 in Part 1
OP 1361.....	Napalm Bombs (Aircraft Jettisonable Fuel Tanks Used as Incendiary Bombs) (Preliminary)	21 Apr 45	R	See remarks for OP 1361 in Part 1
Tanks, Powder See CONTAINERS, AMMUNITION				

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Tanks, Smoke				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1125.....	Aviation Ordnance, Chemical Spraying Equipment.....	29 Sep 44	R	Supersedes OP 723. See remarks for OP 1125 in Part 1
OP 1219C....	Ammunition Code Catalog Class C, Chemicals.....	1 Oct 44	R	See remarks for OP 1219C in Part 1
OMI V18-44..	Valve, Carbon Dioxide Regulator for Smoke Tanks, Installation of Outlet Fitting Adapter	26 Jul 44	D	
OMI V13-45..	Smoke Screen Tank Mk 5 and Mods, (Discharge Valve Release Lever Assembly)	11 Jul 45	R	
TARGETS				
See also	ADAPTERS LEADERS MESSENGERS REELS RELEASES RINGS WINDLASS			
TM9-855	Targets, Target Material and Training Course Layouts..	17 Aug 44	R	War Dept Publication
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1141.....	Aerial Targets and Associated Equipment, Description and Instructions for Use (Anti-aircraft Mk 15 and Mods, Mk 17 and Mods, Mk 18, 19, 21 and 22 and Mods, Aircraft Mk 7 Mods 5 and 6, Mk 8, 9, 20 and Mods) (AA Banner Type A6A and A10)	20 Nov 44	R	See remarks for OP 1141 in Part 1
*OP 1636.....	Glider Target Mk 16.....		R	
OP 1175.....	3" 25 Rockets, Target.....	31 Jul 44	R	See remarks for OP 1175 in Part 1
OD 2364.....	Instructions for Assembly of Radar Reflector and Installation on Target Sleds Series 40 and 60	30 Mar 44	D	
TELESCOPES				
See also	SIGHTS			
OP 482.....	Turret Sight, Optical Instruments.....	26 Apr 44	R	3rd rev. OP 482 superseded OPs 345, 345A and 345B
OD 2878.....	List of Telescopes, Sights, and Mounts for 3-Pdr., 6-Pdr., 3"/23, 3"/50, 4"/50, 5"/38, 5"/50, 5"/51, 6"/50 and 6"/53 Guns. Telescopes for Torpedo Tube Sights Mk 1, Mk 1 Mod 1, Mk 2 and Torpedo Directors Mk 25, 25 Mod 1 and Mk 27 and Mods	27 Feb 42	R	Rev A
OD 4455.....	Telescope for 8.8 cm Deck Gun (German Type)—Description	7 Aug 42	R	With Change 1 dated 9 Jul 45
OP 426.....	Spotting Telescopes Mk 1 to 4 Description, Care and Operation	Jun 1923	R	
*OP 1449.....	5"/38 Boresight Mk 38 and Mods and Boresight Telescopes Mk 8 and 75 and Mods		R	
OP 481.....	Broadside Gun Mount Telescopes (Preliminary).....	19 Sep 44	R	1st rev. Supersedes OD 780 and OP 349

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
TELESCOPES				
#OP 573.....	Director Firing Installation AA Battery (Synchro Type) Gun Director Mk 33 and Mods 1 to 8, Detail Description	Feb 1938	R 1st rev.	Supersedes OD 2091
OD 4533.....	Telescopes Mk 39, 48, 49, 78 and Mods—For Submarine Gun Mounts—Instructions for Testing for Pressure Tightness	20 Mar '43	R Rev A	
OP 582.....	Antiaircraft Gun Mount Telescopes.....	13 Oct '44	R 1st rev.	Supersedes ODs 4610 and 4611
OD 3562.....	Optical Equipment—Telescope Mk 48 and 49—Description and Care	6 Sep 40	R	
OD 4436.....	Instructions for Installation of Electric-Hydraulic Drive Equipment for 5" Training Gear Mk 6 Mods 6, 7, 9, 10, 17-20 5" Elevating Gear Mk 6 Mods 6, 7, 17, 18 and Telescopes Mk 61 and Mods, 62 and Mods on 5"/38 cal Single AA Gun Mounts—including Instructions for Testing After Installation	29 Jan 43	R	
OD 2942.....	Heaters for Use with Window Wiper Attachments for Telescopes Mk 61, 62, 67, 68 on 5"/38 Cal AA Gun Mounts—Instructions for Installing	30 Nov 42	R With Change 1 dated 26 Dec 45	
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries, 38 Cal DP, Single, Open, Base Ring Type, Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49 (Telescopes Mk 61, 62, 77, 79, 83)	11 Apr 44	R	Issued with OTI G7-44. See remarks for OP 1013 in Part 1
OD 4685.....	5"/38 cal Mounts Mk 30 Mods 45, 46, 48 and 49 Equipped with 5" Sight Mk 31 Mod 8—Replacement of Telescope Mk 77 or 79 and Adapter with Telescopes Mk 61 or Mods or Mk 83 or Mods and Mk 62 or Mods—Instructions for Making the Change	25 Jan 44	R	
OD 3658.....	Telescopes Mk 67 and Mk 68 for 5"/38 cal AA Twin Gun Mounts Mk 28, Mk 28 Mod 1, Mk 31, Mk 31 Mod 1, Mk 32 and Mk 32 Mods 1 and 2 for BBs 36 to 46, 48 and 55 to 66, CBs 1 to 6, CVs 9 to 24, CLs 51 to 58, 60, 62 to 67, 77 to 83, 85 to 87, 89 to 102, CAs 68 to 75, ANs 1 to 4—Installation Instructions	27 Feb 42	R	
OP 811.....	3" Gun Mounts Mk 20 and Mods, Mk 21 and Mods, Mk 22 and Mods (Telescopes Mk 74 and 78)	22 Dec 43	R 1st rev.	See remarks for OP 811 in Part 1
OP 984.....	3" Gun Mounts, 50 Cal DP Pedestal Type Mk 24 and Mk 24 Mod 1 (Telescope Mk 77)	27 Jan 44	R	See remarks for OP 984 in Part 1
OP 1440.....	472 Mortar Assembly Mk 1 Mod 0 (Telescope Mk 77)	25 Apr 45	R	
*OP 1398.....	Telescopes Mk 90 and 91.....			
TERMINALS				
OD 1861.....	Gun Firing Circuits—Instructions for Installing Firing Cables and Cable Terminals on Guns	13 Sep 29	D	
TEST PANELS				
OD 3491.....	Description and Operation of Synchro Test Panel Mk 1 and Mk 1 Mod 1	19 May 41	R	
OTI T11-44...	Standard Torpedo Test Panel, Strainer Body.....	16 Dec 44	R	
TEST SETS				
OP 986.....	Auto Pilot Amplifiers Test Set.....	Jun 1943	R	
OP 1219E....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R 1st rev.	See remarks for OP 1219E in Part 1

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TEST SETS				
OP 1219D.....	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories	25 Jun 45	R 1st rev.	See remarks for OP 1219D in Part 1
OP 1425.....	Use of Depth Charge Test Sets Mk 34 Mods 0 and 1 with Depth Charge Mk 8	12 Feb 45	R	Supersedes OCL M40-43
*OP 1577.....	Depth Charge Mk 14 Mod 0 and Depth Charge Test Set Mk 45, Instructions (Tentative)		R	
OP 1266.....	Depth Charge Test Set Mk 70 Mod 0	9 Feb 45	R	
OD 717.....	Torpedo Tubes—Tube Testing Sets Mk 1, Mk 1 Mods 1, 2 and 3, and Mk 2 and Mods—Description and Instructions	17 Feb 44	R Rev G	
TESTERS and TESTING				
OP 1164.....	Ballistic Testing of Rocket Propellants	26 Aug 44	R	
OD 750.....	Description and Instructions for Use of Torpedo Workshop Testing Equipment and Tools	May 1942	R 1st rev.	See remarks for OD 750 in Part 1
OP 1284.....	Instructions for the Overhaul, Inspection and Test of Gun, Browning Aircraft Machine Cal .50 AN-M2	Dec. 1944	R	For Shop Use only. Not issued to the Fleet
*OP 1303A...	Synchro Tester Mk 3 Mod 2, Description		R	
OD 2104.....	Electronic Tube Tester Mk 1 Theory, Operation and Maintenance	Undated	D	
*OD 2651.....	Arma Tube Tester			
OD 2652.....	Circuit Tester Description Test and Maintenance	26 Mar 40	R Rev A	
OTI V23-44...	Tester, Interval and Dwell, Type WA-2300 Use of for Testing Intervalometers	18 Aug 44	R	Issued with OPs 1053, 1099
TESTS				
See also	ORDNANCE EQUIPMENT, REPORTS ON			
OP 5.....	Ammunition Ashore Vol 1	10 Jun 44	R 1st rev.	See remarks for OP 5 in Part 1
OD 2355.....	Tests and Procedure for Fitting out 5"/38 cal Battery	1 Sep 44	R Rev A	
OD 3682.....	Report of Shock Tests on Fire Control Equipment	13 Aug 41	R	
OD 3684.....	Shock Test of Synchro Transmission Units—Report of Examination After Tests	25 Aug 41	R	
OD 4659.....	Ordnance Data Test of 16" Projectile Hoist Mk 8 Mod 2	12 Feb 44	R	
OD 4665.....	Test of Worm and Worm Wheel Submitted by Professor Earle Buckingham (Wildhaber Type) for 5"/38 cal Mount Training Gear	24 Feb 44	R	
OD 4679.....	Report of Tests and Inspection of Synchro Motors Type 5F Mk 4 Mod 2, Volts 115/90 AC Submitted for Type Approval by the GE Co	10 Jan 44	R	
OD 4691.....	Tests of Gas Seal for Gun Director Mk 37	21 Feb 44	R	
OD 4720.....	Report of Test and Inspection of Continuous Duty High Speed Tests on Synchro Units	18 Jul 44	R	
OD 4721.....	Report of Test and Inspection Synchro Generators Type 7G Mk 3 Mod 4, V115/90 AC Serial Nos. A and B	28 Nov 44	R Rev A	
OD 4727.....	Operational Tests of Gun Director Mk 33 Mod 5 Serial No. 20 with Shield Mk 10 Mounted on Tilting Platform Mk 1 Mod 1 Installed on Navy Barge YC301 at Navy Yard, Washington, D C	28 Jul 44	R	
OD 4731.....	Report of Test and Inspection Synchro Differential Generator Type 1 DG Mk 1 Mod 1 to replace Differential Motor Type 1D and Tests of other Synchro Systems	8 Aug 44	R	

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TESTS				
OP 4733.....	Report of Test to Determine Voltage Gradients and Harmonic and Quadrature Voltage at Correspondence of Synchro Control Transformers	24 Aug 44	R	
OP 4735.....	Report of Test and Inspection Synchro Control Transformers Type ICT Mk 5 Mod 6	24 Aug 44	R	
OD 4737.....	Report of Tests to Check the Synchronizing Times of Synchro Systems Specified in OS 671	24 Aug 44	R	
OD 4749.....	Ordinance Data Type Approval Test of 40-mm Twin Gun Mount Mk 1 Mod 2 with GE Amplidyne Power and Control System under the Provisions of OD 4667	25 Jan 45	R	
OTI F13-43...	Periodic Tests on Gun Sight Mk 14 Mods 2, 3, 4.....	22 Dec 43	R	Issued with OD 4429
OTI F19-44...	Gun Sight Mk 14—Change in Characteristic Time Test Tolerances	16 Aug 44	R	
OTI M11-44...	Auxiliary Tests to be Run on Delay Arming Clocks Prior to Installation in Mines	26 Sep 44	R	Issued with OPs 901, 902, 905 and 954
THERMITE				
OP 1219E....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
TIMERS & TIMING				
OP 1178.....	Demolition Material	8 Dec 44	R	
OP 1219E....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OD 2873.....	Interval Timers (To replace Mk 11 clock on Bombing Trainer)	Undated	D	
OD 3637.....	Interval Timer Mk 1 Mod 2 (110 V—25 Cycle Motor)—for use with Bombing Trainers Description, Operation and Maintenance	13 Jun 41	R	
OD 3687.....	Report of Tests on Proposed Mine Laying Timing Device	12 Sep 41	D	
TOOLS				
OP 5.....	Ammunition Ashore Vol 1.....	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1
OP 1013.....	5" Gun Mounts for Merchantmen and Auxiliaries, 38 Cal DP, Single, Open, Base Ring Type, Mk 30 Mods 20, 38, 39, 40, 45, 46, 48, and 49	11 Apr 44	R	Issued with OTI G7-44. See remarks for OP 1013 in Part 1
OP 1219A....	Ammunition Code Catalog Class A, Bombs and Accessories.	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
SNL A-35 (ORD 6)	Tools, Maintenance, for Repair of Group A Material, Section 1, 3, 4			War Dept publication. See remarks for SNL A-35 (ORD 6) in Part 1
SNL P-11 (ORD 5)	Special Ammunition Surveillance, Testing, Inspection, and Renovation Tools and Supplies			War Dept publication
TB CW 15....	Kit, Tool, Bomb Venting E 1.....	2 Sep 44	R	Do
TB ORD 2....	Use of Trigger Spring Removing Tool.....	22 Dec 43	R	Do
OP 1219D....	Ammunition Code Catalog Classes D and U, Depth Charges and Accessories	25 Jun 45	R	1st rev. See remarks for OP 1219D in Part 1
OTI G9-44....	Cartridge Case Extractor Tools for 3"/50, 5"/25, 5"/38 and 6"/47 cal Guns with Sliding Breech Blocks	3 Jun 44	R	
OP 1284.....	Instructions for the Overhaul, Inspection, and Test of Gun, Browning Aircraft Machine Cal .50 AN-M2	Dec 1944	R	For Shop Use only. Not issued to the Fleet
OTI V25-44...	Wrench, Special for AN-E10 Gun Mount Adapter Mk 15 BAM Gun cal .50 Instructions for Manufacture of	9 Sep 44	R	

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TOOLS				
OTI G2-44....	Barrel Removing Wrench for 20-mm AA Gun.....	14 Feb 44	R	
OTI GV3-44...	20-mm Aircraft Automatic Guns, Breechblock Assembly Tool for	27 May 44	R	
OTI G8-43....	1"10 Machine Gun Mechanism Mk 1 and Mk 1 Mods 1 and 2 Modification of Retracting Tool	26 Mar 43	D	Issued with OP 806 1st rev
OTI G5-44....	1"10 Machine Gun Mechanism Mk 1 and Mk 1 Mods 1 and 2, Carrier Retracting Tool	17 Apr 44	R	Issued with OP 806 1st rev
OD 2779.....	4"/50 cal Ammunition—Withdrawing and Reloading Tool Description and Method of Operation	25 May 36	R	
OD 2700.....	5"/25 cal and 5"/38 cal AA Guns—Special Tools and Directions for Assembling Breech Block in Housing	16 Nov 34	D	
OD 2778.....	5"/25 cal Anti-aircraft Ammunition—Withdrawing, Reforming and Reloading Tool—General Description and Operation	26 Aug 36	R	
OTI V44-43...	Bomb Rack and Shackle Latching Tools.....	24 Apr 44	R	
OHI A6-45....	5"0 Rocket (5"0 Motor) Spin Stabilized.....	2 Aug 45	R	Supersedes OHI A12-44
OP 1219B....	Ammunition Code Catalog Class B, Pyrotechnics.....	13 Jun 45	R	1st rev. See remarks for OP 1219B in Part 1
OTI F15-44...	Gunsight Mk 15, Modification of Tools in Ships' Spares (A) Adjusting Wrench for Telescope Filter Control Packing Gland (B) Adjusting Wrench for Telescope Spotting Control Gland	29 Jul 44	R	
OTI F14-44...	Gun Sight Mk 15, Telescope Boresight Adjusting Wrench Modification	18 Jul 44	R	Issued with OP 1098
OTI F21-44...	Gunsight Mk 14, Modification of Repair Shop Tools and Fixtures	25 Sep 44	R	Issued with OD 4369
OTI F24-44...	Gun Sight Mk 14 Mod 6, Modification of Repair Shop Tools and Fixtures (A) Pressing, Drilling and Pinning Fixture for Train Mirror Assembly (B) Range Spring Clamp Wrench	9 Oct 44	R	Issued with OD 4369
OD 750.....	Description and Instructions for Use of Torpedo Workshop Testing Equipment and Tools	May 1942	R	1st rev. See remarks for OD 750 in Part 1
*OD 5500.....	Torpedo Workshop Equipment and Tool Catalogue.....			
OTI T3-43....	Instructions for Use of Tool for Removing Booster From Torpedo War Head	4 Jun 43	R	
OTI T7-44....	Torpedo Exercise Heads, Tool for Unseating Air Release Mechanism	26 Apr 44	R	
OTI T2-45....	Depth Steering Line, Tool for Centering.....	29 Mar 45	R	
SNL B-20 (ORD 6)	Tools, Maintenance, for Repair of Small and Hand Arms, and Pyrotechnic Projectors			War Dept publication
TORCHES				
See also.....	PYROTECHNICS			
OTI A2-43....	Drawing 330025, Torch, Indicator Float Mk 1 Mod 1 To Float Indicator Mk 1 Mod 1	23 Feb 43	R	
TORPEDOES				
See also.....	BANDS BOOSTERS CHARGES COMPUTERS, TORPEDO DATA CONTROLS, TORPEDO DETONATORS			

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
TORPEDOES				
See also	DIRECTORS, TORPEDO FLASKS			
	INDICATORS, TORPEDO COURSE			
	MECHANISMS, EXPLODER			
	RACKS			
	SKIDS			
	SOLVERS			
	TRUCKS			
OP 324D	Annual Torpedo Record USN 1925.....	1 Jul 25	C	Formerly Registered. Issued by NTS only on Bureau approval
OP 324E	Annual Torpedo Record USN 1926.....	1 Jul 26	C	Do
OP 324F	Annual Torpedo Record USN 1927.....	1 Jul 27	C	Do
OP 324G	Annual Torpedo Record USN 1928.....	1 Jul 28	C	Do
OP 324H	Annual Torpedo Record USN 1929, 1930, and 1931....	1 Jul 31	C	Do
OP 324I	Annual Torpedo Record USN 1932.....	1 Jul 32	C	Do
OP 324K	Annual Torpedo Record USN 1933 and 1934.....	1 Jul 34	C	Do
#OP 663.....	Description, Adjustment, Care and Operation and Shop Tests of Torpedo Warhead Attachments	Nov 1942	R	Issued with OP 663
OP 663A	Supplement to OP 663.....	Feb 1943	R	Issued with OP 663
OP 1120.....	Care of Ammunition at Advanced Bases.....	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1330.....	Mine Disposal Handbook.....	1 Nov 44	C	Accountable, Distribution limited to Mine Disposal Personnel
OP 1507.....	Japanese Underwater Ordnance.....	20 Apr 45	R	
OP 1631.....	Ammunition Hazard Classification List.....	21 Sep 45	R	See remarks for OP 1631 in Part I
OP 1634.....	U. S. Navy Torpedoes, General Data.....	15 Oct 45	R	
OD 3447.....	Standard Fire Control and Torpedo Control Symbols (For use in the Study and Preparation of Ordnance Data and Ordnance Pamphlets)	30 Aug 39	R	
OD 3849.....	Description and Instructions for Use of the Leak Meter	14 Mar 44	R	
*OD 6270.....	Torpedo Work—Water Compartments.....			
OTI T2-43....	Instructions for Use of Rust Preventative Compound, Polar, Type Grade III, in Preservation of Torpedoes	31 May 43	R	
OTI T15-43....	Submarine Torpedoes, Prevention of Sea-Water Leakage in	15 Oct 43	R	Issued with OTI T15a-43
OTI T15a-43..	Submarine Torpedoes, Prevention of Sea-Water Leakage in	30 Nov 43	R	Issued with OTI T15-43
OTI T5-44....	Gyro Mechanisms with Movable Top Plates, Adjustment of Clearance Between Pallet and Pallet Pawls	12 Apr 44	R	Issued with OPs 627A, 635, 642, 946, 950
OP 606.....	Torpedoes Bliss-Leavitt, 21' x 21" Mk 8 Mods 3C and 3D	1933	R	With Change 1 dated 8 Aug 40. Formerly Registered Confidential
OD 3839.....	Adjustment and Tests Mk 8 3C and 3D Torpedoes....	Undated	R	
QD 4444.....	Tactical Data for Torpedoes Mk 8 Mods 3C, 3D, 4, 5 and 8 Destroyer Firing	17 May 44	R	
OD 3625.....	Instructions for Use of Angle Firing Diagram for Torpedo Mk 10 Mod 3	25 Aug 41	R	
OD 3698.....	Tactical Data for Torpedo Mk 10 Mod 3.....	5 Feb 42	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
TORPEDOES				
OTI T6-44....	Torpedo Mk 10 Mod 3, Distance Gear Index Modifications	24 Apr 44	R	Issued with OP 806
OD 3825.....	Starting Gears, Mk 13 Type Torpedoes—Instructions for Changing Design of Connection Lever Catch and for Fitting New Toggles	15 Sep 42	R	Supersedes OP 3825
OD 6224.....	Torpedoes Mk 13 Type, Water Trip Valve.....	Undated	D	
OD 6226.....	Torpedoes Mk 13 Type, Starting and Reducing Valve	Undated	D	
OD 6233.....	Torpedoes Mk 13 Type, Spinning and Unlocking Mechanism SG 3916	2 Nov 45	D	Rev A
*OD 6266.....	Gyro Mechanism Driving Gear Assembly, S. G. 7987—Torpedoes Mk 13 Type			
OP 950.....	Torpedo Mk 13 Type.....	30 Nov 44	R	1st rev. See remarks for OP 950 in Part I
OD 6275.....	Torpedoes Mk 13 Type—Afterbody Leakage Tests.....	3 Dec 45	D	Supersedes Paragraphs 204 and 204.10 of OD 3815 Rev M
OD 3815.....	Specifications for Torpedo Mk 13 Mod 1.....	14 Sep 43	R	Rev G. Supersedes ODs 3801, 3807 and AX 200
OD 6135.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Static Balancing of Propellers	4 Sep 45	D	
OD 6223.....	Torpedoes Mks 13, 14, 15, 16, 17, 18, and 23 Types—War Heads, War Head Extension, Exercise Heads, Exercise Head Extensions	15 Oct 45	D	Rev A
OD 6225.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Standard Leakage Stand for New Manufacture Testing	10 Oct 45	D	Rev A
OD 6267.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Pressure Tests for Hand Hole Covers, Top Bearing Access Hole Covers and Access Hole Covers	1 Oct 45	D	
OD 6227.....	Torpedoes Mks 13, 14, 15, 16, 17, 18, and 23 Types—Vertical Steering Engines	Undated	D	
OD 6228.....	Torpedoes Mks 13, 14, 15, 16, 17, 18, and 23 Types—Horizontal Steering Engines	Undated	D	
OD 6229.....	Torpedoes Mks 13, 14, 15, and 23 Types—Stop and Charging Valves	Undated	D	
OD 6231.....	Torpedoes Mks 13, 14, 15, and 23 Types—Oil Pumps...	Undated	D	
OD 6232.....	Torpedoes Mks 13, 14, 15, and 23 Types—Air Check Valves and Delivery Check Valves	Undated	D	
OD 6235.....	Torpedoes Mks 13, 14, 15, 16, 17, 18, and 23 Types—Gyro Air Reducing Valve S. G. 3690 and S. G. 9925	Undated	D	
*OD 6236.....	Torpedoes Mks 13, 14, 15, and 23 Types—Starting Gear			
OD 6237.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Blow Valve S. G. 3349	Undated	D	
*OD 6240.....	Torpedoes Mks 13, 14, 15, and 23 Types—Oil Tanks....			
*OD 6241.....	Torpedoes Mks 13, 14, 15, and 23 Types—Turbine Bulkheads			
*OD 6242.....	Torpedoes Mks 13, 14, 15, and 23 Types—Superheaters			
*OD 6243.....	Torpedoes Mks 13, 14, 15, and 23 Types—Fuel Flasks			
*OD 6245.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—After Bulkhead Bearings			
OD 6246.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types.....	9 Nov 45	D	Rev A

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
TORPEDOES				
*OD 6247.....	Torpedoes Mks 13, 14, 15, 16, 17, 18, and 23 Types, Mk 2 Mod 0 Depth and Roll Recorder			
*OD 6248.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Air Straiger Bodies			
*OD 6249.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Torpedo Igniters			
OD 6251.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Pressure Tests for Synthetic Rubber Gaskets—Stock Parts 7057, 11606, 12078, 17341, 18787 and Stock Group 4667	7 Nov 45	D	Rev A
OD 6260.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Pallet Mechanism	3 Oct 45	D	
OD 6269.....	Torpedoes Mks 13, 14, 15, and 23 Types—Air Flasks...	18 Oct 45	D	
OD 6273.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Gyro Door Frame	3 Dec 45	D	
OD 6276.....	Torpedoes Mks 13, 14, 15, and 23 Types—Gyro and Depth Mechanism Torque Test	3 Dec 45	D	Supersedes Paragraphs 208 of OD 3815; 425.30 and 426.80 of OD 3827; 425.30 and 426.80 of OD 3828
OD 6277.....	Torpedoes Mks 13, 14, 15, 16, 17, and 23 Types—Bulkhead for Forward Dome Assembly—SG 12544 (Welded Type)	30 Nov 45	D	
NavOrd Chart T1-45	Torpedo Mk 13 Type.....			
NavOrd Chart T5-45	Torpedo Mk 13 Type.....			
OD 4410.....	Data for Use with Torpedo Directors Mk 28 and Mk 28 Mod 2 in the Launching of Torpedoes Mks 13, 13 Mod 1, and 13 Mod 2	4 Jun 42	R	Amended by OCL FV6-43
*OD 6230.....	Torpedoes Mk 14 Type, Starting and Reducing Valve			
*NavOrd Chart T2-45	Torpedo Mk 14 Type.....			
*NavOrd Chart T6-45	Torpedo Mk 14 Type.....			
OD 3699.....	Tactical Data for Torpedoes Mk 14 and Mk 14 Mod 1 (High Power, Low Power)	4 Dec 41	R	Issued with Change 1 dated 9 Jul 45 and OCL T17-44
OD 3808.....	Mk 14 Mod 1 Torpedo—Range Tests.....	23 Mar 43	R	Rev A
OD 3811.....	Mk 14 Mod 1 Torpedoes—Shop Tests.....	14 Dec 40	R	
OP 635.....	Torpedoes Mks 14 and 23 Types.....	24 Mar 45	R	1st rev. Supersedes OP 635A; ODs 3834 and 3842
OD 3827.....	Mk 14 Mod 3 Torpedoes Mk 14 Mod 3A Torpedoes Specifications	8 Apr 43	R	Rev H
OD 3805.....	Mk 14 Torpedo, Mk 15 Torpedo, Mk 15 Mod 1 Torpedo Shop Tests	14 Dec 40	R	Rev A
OD 6153.....	Torpedoes Mks 14, 15, 16, 17, and 23 Types—Afterbody Pressure Tests	12 Oct 45	C	
OD 6234.....	Torpedoes Mks 14, 15, 16, 17, 18, and 23 Types—Spinning and Unlocking Mechanism S. G. 3363	5 Nov 45	D	Rev A
*OD 6268.....	Torpedoes Mks 14, 15, and 23 Types, Governor S.G. 6974			
OTI T1-45.....	Torpedoes Mks 14, 15 and 23 Types—Ball Bearings.....	12 Jan 45	R	
OD 3700.....	Tactical Data for Torpedo Mk 15—High Power, Intermediate Power and Low Power for Submarine Firing	18 Mar 42	R	
OD 3826.....	Mk 15 Modification Torpedoes Instructions for Deep Running Adjustments	Nov 1942	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
TORPEDOES				
OD 3840.....	Instructions for Changing Sprays and Reducing Valve Plugs in Mk 15 Modification Torpedoes when used with a 50% Alcohol and Water Mixture in the Water Compartment	Oct 1943	R	
OD 3806.....	Torpedo Mk 15, Torpedo Mk 15 Mod 1—Range Tests	12 Jun 40	R	Rev A
OD 3828.....	Torpedoes Mk 15 Mod 1—Specifications	14 Jun 43	R	Rev I. Paragraphs 425.30 and 426.80 superseded by OD 6276
OP 642.....	Description, Adjustment, Care, and Operation of U. S. Navy Torpedoes Mk 15 Mods 1, 2, and 3	Jul 1942	R	See remarks for OP 642 in Part 1
*OD 6258.....	Torpedoes Mk 15 Type—Starting and Reducing Valve			
*NavOrd Chart T3-45	Torpedo Mk 15 Type			
*NavOrd Chart T7-45	Torpedo Mk 15			
OD 3843.....	Adjustments and Tests for Mk 15 Mods 1 and 2 Torpedoes	14 Mar 44	R	Rev A
OD 4496.....	Tactical Data for Torpedo Mk 15 Mod 3 for Destroyer Firing	22 Sep 44	R	
OD 6220.....	Torpedoes Mk 15 Mod 3—Proving Service Trials	26 Dec 45	R	
OP 1345.....	Torpedoes Mk 16 and Mk 17 Types (Preliminary)	16 Jan 45	C	See remarks for OP 1345 in Part 1
*OD 6120.....	Torpedoes Mk 16 and 17 Types, Determination of Overall Characteristics		R	
*OD 6121.....	Torpedoes Mk 16 and 17 Types, Running Test of Main Engine in Afterbody		R	
OD 6123.....	Torpedoes Mk 16 and Mk 17 Types—Test of Regulator Valve and Starting Valve in Combination	23 Jul 45	R	
*OD 6154.....	Torpedoes Mk 16 and 17 Types Procedure and Requirements for Adjustment and Running-in of "H" Type			
*OD 6244.....	Torpedoes Mk 16 and 17 Types—Turbine Bulkheads			
OD 6131.....	Torpedoes Mk 16 Mods 0, 1, 2, and Mk 17 Mods 1 and 2—Functional Test and Adjustments for Superheater Assemblies (S. G.'s 7048, 7084, and 9853)	11 Sep 45	C	Rev A
OD 6132.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Specifications for Test of Starting Valve (S. G. 9884)	17 Aug 45	R	
OD 6136.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Functional and Leakage Tests for Stop and Charging Valve Assemblies G-8816 and G-8858	24 Sep 45	R	
OD 6137.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"F" and "C" Air Check Valve Assembly Stock Group G-8810—Functional and Leakage Tests	27 Sep 45	C	
OD 6138.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Hydrostatic Pressure Test for "F" and "C" Air Check Valve Body Assembly—Stock Group G8811	27 Sep 45	C	
OD 6139.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"F" and "C" Check and Strainer Body Assembly—Stock Group G-8854—Hydrostatic Pressure Test	27 Sep 45	C	
OD 6140.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"N" Air Check and Relief Valve Body Assembly—Stock Group G-8815—Hydrostatic Pressure Test	27 Sep 45	C	

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TORPEDOES				
OD 6141.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"F" and "C" Check and Strainer Assembly—Stock Group G-8853—Functional and Leakage Tests	27 Sep 45	C	
OD 6142.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—"N" Air Check and Relief Valve Assembly—Stock Group G-8814—Functional and Leakage Tests	27 Sep 45	C	
OD 6143.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Functional and Leakage Test for "N" Check Valve Assembly—Stock Group G-8812	1 Oct 45	C	
OD 6144.....	Torpedoes Mk 16 Mods 0 and 1 and Mk 17 Mod 1—Hydrostatic Test "N" Check Valve Body Assembly—Stock Group G-8813	1 Oct 45	C	
OD 6128.....	Torpedoes Mk 16 Mods 1 and 2 and Mk 17 Mods 1 and 2—Dynamometer Test Specifications	23 Nov 45	C Rev D	
OD 6133.....	Torpedoes Mk 16 Mods 1 and 2 and Mk 17 Mods 1 and 2—Procedures and Requirements for Adjustment and Test of Depth Steering Line and Depth Setting Socket	22 Aug 45	R	
OD 6134.....	Torpedoes Mk 16 Mods 1 and 2 and Mk 17 Mods 1 and 2—Procedures and Requirements for Adjustment and Test of Gyro Steering Line and Angle Setting Sockets	22 Aug 45	R	
OD 6169.....	Torpedoes Mk 16 Mods 1 and 2 and Mk 17 Mods 1 and 2—Test and Acceptance Requirements for "N" Tank Assembly S. G. 9876 and 9877	20 Nov 45	C	
*OD 6122.....	Torpedoes Mk 16 Mod 0, 16 Mod 1, 16 Mod 2, 17 Mod 1, 17 Mod 2, Pilot-type Regulating Valve, (S. G. 9870) Acceptance Test Requirements		R	
*OD 6126.....	Torpedoes Mk 16 Mod 0, Mk 16 Mod 1, Mk 17 Mod 1, Hydrostatic and Functional Tests for "N" Check Valve Assembly, G-12529		C	
*OD 6129.....	Torpedoes Mk 16 Mod 0, Mk 16 Mod 1, Mk 17 Mod 1, Liquid Calcium Permanganate Catalyst (Properties of and Preparation and Handling Procedures for)		C	
*OD 6125.....	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2, Starting Gear and Governor (S. G. 7072)		C	
OD 6130.....	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Specifications for Test of Starting Valve (S. G. 9898)	10 Sep 45	R	
OD 6124.....	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Functional and Leakage Tests of Afterbody Valve System	27 Jul 45	C	
OD 6145.....	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—"N" Air Check Valve Complete Assembly—Stock Group G-8888—Functional and Leakage Test	1 Oct 45	C	
OD 6146.....	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—"C" Delivery and Selector Valves Assembly—Stock Group G-8892—Functional and Leakage Tests	1 Oct 45	C	
OD 6147.....	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—"N" and "F" Delivery Valve Assembly—Stock Group G-8891—Functional and Leakage Tests	1 Oct 45	C	
OD 6149.....	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Hydrostatic Test for "N" Air Check Body Assembly G-8889	1 Oct 45	C	
OD 6150.....	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Functional and Leakage Tests for "C" and "F" Air Check Valve Complete Assembly—Stock Group G-8885	2 Oct 45	C	

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TORPEDOES				
OD 6152.....	Torpedoes Mk 16 Mod 2 and Mk 17 Mod 2—Hydrostatic Test—Dump Valve Body—Stock Part 27628	11 Oct 45	C	
*NavOrd Chart T4-45	Torpedoes Mk 16 and 17 Types			
*NavOrd Chart T8-45	Torpedoes Mk 16 and 17 Types			
OD 5268.....	Torpedoes Mk 18, Mk 18 Mod 2, Mk 18 Mod 1—Specifications	18 Jan 45	R	Rev I
OP 946.....	Torpedo Mk 18 and Mk 18 Mod 1.....	29 Jul 44	R	1st rev. With Change 1 dated 14 Nov 44 and OTI T5-44. Supersedes OD 3830
*NavOrd Chart T9-45	Torpedo Mk 18 Type (Parts 1, 2, 3, and 4).....			
*NavOrd Chart T10-45	Torpedo Mk 18 Type (Small Chart).....			
TORPEDOES, AIRCRAFT				
OP 878.....	General Data on Navy, AN-Standard, Army, and British Bombs	21 Sep 44	R	2nd rev. See remarks for OP 878 in Part 1
OP 1207.....	U.S. Navy Aircraft Torpedoes, General Information....	27 Jun 44	R	With Change 1 dated 16 Oct 44. Supersedes OD 3816
TORPEDOES, BANGALORE				
OP 1219E....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
TORPEDO AIRFLASKS, See FLASKS				
TORPEDO ANGLE SOLVERS, See SOLVERS				
TORPEDO BOOSTERS, See BOOSTERS				
TORPEDO CONTROLS, See CONTROLS, TORPEDO				
TORPEDO DATA COMPUTER, See COMPUTER, TORPEDO DATA				
TORPEDO DIRECTORS, See DIRECTORS, TORPEDO				
TORPEDO EXERCISE HEADS				
OD 3824.....	Torpedoes—Exercise Head Characteristics.....	17 Oct 45	R	Rev D
OD 3837.....	Use of Solutions or Suspensions in Torpedo Exercise Heads to Obtain Warhead Weight Specifications	10 Aug 43	R	
OTI T9-43....	Torpedo Exercise Heads—Adjustment and Maintenance of Air Blow Mechanisms	5 Aug 43	R	
OTI T19-43...	Torpedo Exercise Heads, Operational Test for.....	22 Dec 43	R	Issued with OD 750
OTI T3-44....	Torpedo Exercise Heads, Air Releasing Mechanism Mk 3	4 Apr 44	R	
OTI T7-44....	Torpedo Exercise Heads, Tool for Unseating Air Release Mechanism	26 Apr 44	R	
OP 606.....	Torpedoes, Bliss-Levitt, 21' x 21" Mk 8 Mods 3C and 3D (Exercise Head Mk 17 Mods 1 and 2)	1933	R	With Change 1 dated 8 Aug 40. Formerly Registered Confidential
OP 950.....	Torpedo Mk 13 Type.....	30 Nov 44	R	1st rev. See remarks for OP 950 in Part 1
OP 1207.....	U.S. Navy Aircraft Torpedoes, General Information (Exercise Head Mk 26 Mod 4)	27 Jun 44	R	With Change 1 dated 16 Oct 44. Supersedes OD 3816
OP 635.....	Torpedoes Mk 14 and 23 Types.....	24 Mar 45	R	1st rev. Supersedes OP 635A, ODs 3834 and 3842
OD 3832.....	Description of, and Instructions for the Use of Mk 30 Mod 2 Exercise Head	31 Jan 44	R	Rev A

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SUBJECT INDEX

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TORPEDO EXERCISE HEADS				
OP 1345.....	Torpedoes Mk 16 and Mk 17 Types (<i>Preliminary</i>)	16 Jan 45	C	See remarks for OP 1345 in Part 1
OP 642.....	Description, Adjustment, Care, and Operation of U. S. Navy Torpedoes Mk 15 Mods 1, 2, and 3	Jul 1942	R	See remarks for OP 642 in Part 1
OP 946.....	Torpedo Mk 18 and Mk 18 Mod 1	29 Jul 44	R	1st rev. With Change 1 dated 14 Nov 44 and OTI T5-44. Supersedes OD 3830.
TORPEDO EXPLODER MECHANISMS, See EXPLODERS				
TORPEDO HOISTING BANDS, See BANDS				
TORPEDO IGNITERS, See IGNITERS				
TORPEDO IMPULSE CHARGES, See CHARGES				
TORPEDO SKIDS, See SKIDS				
TORPEDO TUBES, See TUBE, TORPEDO				
TORPEDO WARHEADS				
OP 663.....	Description, Adjustment, Care, Operation and Shop Tests of Torpedo Warhead Attachments	Nov 1942	R	Issued with OP 663A, OTIs T10-43, T17-43, T2-44
OP 663A.....	Supplement to OP 663	Feb 1943	R	Issued with OP 663
OP 1120.....	Care of Ammunition at Advance Bases	18 Mar 44	R	Supersedes OCLs A34-43 and A34a-43
OP 1219F.....	Ammunition Code Catalog Class F, Torpedo Warheads and Accessories	5 Nov 45	R	1st rev. See remarks for OP 1219F in Part 1
OD 733.....	Description and Instructions for the Manufacture and Installation of Tetryl Boosters for Torpedo Warheads	29 May 30	D	
OD 3823.....	Torpedoes—War Head Characteristics	17 Oct 45	R	Rev D
OTI T3-43....	Instructions for Use of Tools for Removing Booster from Torpedo War Heads	4 Jun 43	R	
OP 606.....	Torpedoes, Bliss-Leavitt, 21' x 21" Mk 8 Mods 3C and 3D	1933	R	Issued with Change 1 dated 8 Aug 40
OP 950.....	Torpedo Mk 13 Type	30 Nov 44	R	1st rev. See remarks for OP 950 in Part 1
OP 1207.....	U. S. Navy Aircraft Torpedoes, General Information (<i>Warheads Mk 13 Mods 1, 2 and 3</i>)	27 Jun 44	R	With Change 1 dated 16 Oct 44. Supersedes OD 3916
OP 1365.....	Torpedo Exploder Mechanism Mk 9 Mod 0	13 Mar 45	C	
OP 635.....	Torpedoes Mk 14 and 23 Types	24 Mar 45	R	1st rev. Supersedes OP 635A, ODs 3834 and 3842
OP 642.....	Description, Adjustment, Care, and Operation of U. S. Navy Torpedoes Mk 15 Mods 1, 2, and 3	Jul 1942	R	See remarks for OP 642 in Part 1
OP 1345.....	Torpedoes Mk 16 and Mk 17 Types (<i>Preliminary</i>)	16 Jan 45	C	See remarks for OP 1345 in Part 1
OP 946.....	Torpedo Mk 18 and Mk 18 Mod 1 (<i>Warheads Mk 18 and 18 Mods 1 and 2</i>)	29 Jul 44	R	1st rev. With Change 1 dated 14 Nov 44 and OTI T5-44. Supersedes OD 3830.
TOWING EQUIPMENT, See TARGETS				
TRACERS				
See also AMMUNITION				
#OP 4.....	Ammunition Instructions for the Naval Service Afloat	4 May 43	R	See remarks for OP 4 in Part 1
OP 5.....	Ammunition Ashore Vol 1	10 Jun 44	R	1st rev. See remarks for OP 5 in Part 1

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TRACERS				
OP 1219 O....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
OD 743.....	Materials Used in Manufacture of Fuzes, Tracers, Igniters, Primers, etc.	20 Jul 38	R	Rev A
TRACK LAYING EQUIPMENT, See EQUIPMENT, TRACK LAYING				
TRACKING SHEETS				
OD 2075.....	3"/50 Tracking Sheet.....	Undated	R	
OD 2096.....	3"/50 Anti-aircraft Tracking Sheet for Torpedo Plane Attacks, 21 Second Fuze Mk 11 Mods 2 and 3	4 Jan 34	R	
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See also	CHARGES, DEPTH GEAR, DEPTH CHARGE RELEASE			
OP 721.....	Depth Charge Release Gear Mk 3—Description and Operation	Feb 1938	R	See remarks for OP 721 in Part 1
OD 4427.....	Depth Charge Release Tracks General Features.....	15 Jul 42	R	
OD 4428.....	Operating Controls for Depth Charge Release Tracks General Description	15 Jul 42	D	
OP 35.....	Depth Charge Release Gear Mk 1, Description and Operation	Feb 1930	R	2nd rev. Issued with OCLs M15-42 and M5-43
TRACTORS				
OP 865.....	Aviation Ordnance Equipment Catalog (Gasoline).....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
TRAILERS				
OP 865.....	Aviation Ordnance Equipment Catalog (Bomb and Torpedo)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1073.....	Bomb and Torpedo Skids, Trucks and Trailers.....	29 Sep 43	R	See remarks for OP 1073 in Part 1
TRAINERS				
OP 480.....	Submarine Attack Teacher Mk 1 Mod 1 Care and Operation	May 1922	R	Supersedes OD 488
OP 862.....	Bombing Trainer Mk 2 Instructions and Syllabus for....	May 1942	R	
#OP 973.....	Machine Gun Trainer Mk 1.....	Oct 1943	R	Issued with Change 1 dated 1 Mar 45, Change 2 dated 24 May 45
*OP 973A.....	Machine Gun Trainer Mk 1 Parts List.....			
*OP 1628.....	Gunnery Trainer Mk 2 and Mods.....			
OP 1200.....	Gunnery Trainer Mk 3.....	26 Feb 45	R	With Change 1 dated 18 Jun 45, Change 2 dated 13 Sep 45
OP 1263.....	Gunnery Trainer Mk 5 Mod 1.....	18 May 45	R	With Change 1 dated 10 Sep 45, Change 2 dated 9 Jan 46. For use with Gun Sight Mk 14
*OP 1201.....	Gunnery Trainer Mk 6.....			
OP 588.....	Stereoscopic Training Instrument Mk 2.....	Dec 1935	R	With Addenda A. Will be superseded by OP 1009
*OP 1009.....	Instruction Manual for Stereo Trainers Mk 2 and 3.....			Will supersede OP 588
*OP 1010.....	Instruction Manual for Stereo Trainer Mk 6.....			
*OP 1011.....	Instruction Manual for Stereo Trainer Mk 7.....			

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TRAJECTORIES				
OP 348.....	Ballistic (Projectile) Underwater Trajectories and Behavior on Impact with Water	Jul 1912	D	
OP 1207.....	U.S. Navy Aircraft Torpedoes, General Information....	27 Jun 44	R	With Change 1 dated 16 Oct 44. Supersedes OD 3816
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 44	R	See remarks for OP 1233 in Part 1
OTI MV2-44..	Calculated Air Trajectories of Aircraft Laid Mines Mk 12 Mod 1, Mk 25, AN-Mk 26 Mod 1 and Mk 13 Type	24 Apr 44	R	Issued with OP 1118. Supersedes OTI MVI-44
OP 1157.....	Rocket Ammunition, 375 and 570 Aircraft Rockets (3725 Motor) Description and Instructions for Use	23 Mar 45	R	1st rev. See remarks for OP 1157 in Part 1
OP 1175.....	37/25 Rockets, Target.....	31 Jul 44	R	See remarks for OP 1175 in Part 1
OP 945.....	Range Table for 20-mm AA Gun 2,725 fsiv.....	25 Aug 43	R	With Change 1 dated 6 Dec 44
OP 867.....	AA Range Table for 40-mm AA Guns, 2800 fsiv, AA Projectile Mk 2 with Tracer Mk 11	28 May 45	R	1st rev
OP 861.....	Range Table for 37/50 Cal AA Gun, 2700 fsiv, 13 lb AA Projectile	23 May 44	R	1st rev. With Change 1 dated 11 Jan 45
OP 1224.....	Range Table for 47/50 cal Gun, 2,900 fsiv 33 lb HC and Common Projectiles	16 Sep 44	R	
OP 1225.....	AA Range Table for 47/50 cal Gun 2,800 fsiv 33 lb HC Projectile	21 Aug 44	R	
OP 1285.....	Range Table for 57/38 cal Gun 1200 fsiv AA Common Projectile Mk 35	26 Sep 45	R	1st rev
OP 1293.....	Range Table for 57/51 cal Gun 3,150 fsiv 50 lb HC Projectile	31 Oct 44	R	
OP 1294.....	Range Table for 57/51 cal Gun 2,300 fsiv 50 lb HC Projectile	4 Nov 44	R	
OP 1359.....	AA Range Table for 57/51 cal Gun 3,050 fsiv 50 lb HC Projectile	16 Dec 44	R	
OP 1360.....	AA Range Table for 57/51 cal Gun 2,200 fsiv 50 lb HC Projectile	29 Dec 44	R	
OP 1008.....	Range Table for 67/47 cal Gun 2,665 fsiv 105 lb HC Projectile	12 Jul 43	R	With Change 1 dated 30 Dec 44
OP 1041.....	Range Table for 87/55 Cal Gun, 260 lb HC Projectile, IV 2700 and 2800 fs	1 Mar 44	R	1st rev. With Change 1 dated 16 Jun 45. Supersedes OP 1095 and OCL A21-43
OP 1186.....	AA Range Table for 87/55 cal Gun 2,200 fsiv 260 lb HC Projectile	14 Oct 44	R	
OP 1229.....	Range Table 87/55 cal Gun 2,300 fsiv 260 lb HC Projectile	15 Sep 44	R	
OP 1333.....	Range Table for 87/55 cal Gun, 2,220 fsiv 260 lb HC Projectile	27 Nov 44	R	With Change 1 dated 16 Jun 45
OP 1335.....	AA Range Table 87/55 cal Gun 2,150 fsiv 260 lb HC Projectile	27 Nov 44	R	
OP 789.....	Range Table for 127/50 cal Gun 1,140 lb AP and Target Projectiles 1,800 fsiv 2,300 fs, 2,500 fs	4 Mar 44	R	Issued with Change 1 dated 23 Jan 45. Supersedes Abridged Range Tables OPs 938, 939 and 940
OP 1230.....	Range Table for 127/50 cal Gun, 1,850 fsiv, 940 lb HC Projectile	22 Sep 44	R	With Change 1 dated 19 Jun 45
OP 1232.....	AA Range Table for 127/50 cal Gun 1,775 fsiv 940 lb HC Projectile	9 Oct 44	R	
OP 1241.....	Range Table for 127/50 cal Gun 2,650 fsiv 940 lb HC Projectile	15 Sep 44	R	With Change 1 dated 23 Jan 45

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TRAJECTORIES				
OP 1243.....	AA Range Table for 12"/50 cal Gun 2,575 fsiv 940 lb HC Projectile	22 Sep 44	R	With Change 1 dated 23 Jan 45
OP 1281.....	Range Table for 12"/50 cal Gun 3,000 fsiv 740 lb HC Projectile	17 Oct 44	R	With Change 1 dated 7 Feb 45
OP 1283.....	AA Range Table for 12"/50 cal Gun 2,925 fsiv 740 lb HC Projectile	30 Oct 44	R	With Change 1 dated 7 Feb 45
OP 923.....	Range Table for 14"/45 cal Gun 2,735 fsiv 1,275 lb HC Projectile	26 Apr 44	R	1st rev. With Change 1 dated 28 Feb 45
OP 924.....	Range Table for 14"/50 cal Gun 2,825 fsiv 1,275 lb HC Projectiles	11 Apr 44	R	1st rev. With Change 1 dated 3 Mar 45
OP 921.....	Range Table for 16"/45 cal Gun 2,635 fsiv 1,900 lb HC Projectile	22 Dec 43	R	1st rev. With Change 1 dated 28 Feb 45
OP 922.....	Range Table for 16"/45 cal Gun 2,525 fsiv 1,900 lb HC Projectiles	11 Mar 44	R	1st rev. With Change 1 dated 24 Feb 45
OP 969.....	Range Table 16"/45 cal Gun 2,000 fsiv 1,900 lb HC Projectile Mk 13	17 Oct 44	R	2nd rev. With Change 1 dated 27 Jul 45
OP 970.....	Range Table 16"/45 cal Gun, 16"/50 cal Gun 1,900 fsiv 1,900 lb HC Projectile Mk 13	25 Oct 44	R	2nd rev. With Change 1 dated 27 Jul 45
OP 1100.....	Range Table for 16"/50 cal Gun 2,690 fsiv 1,900 lb HC Projectile	8 Dec 43	R	With Change 1 dated 24 Mar 44 and Change 2 dated 24 Feb 45
TRANSFORMERS				
OD 1028...	General Instructions for Testing Zero Setting and Phase Rotation of Selsyn Generators Motors and Transformers <i>USS PENSACOLA</i> and <i>SALT LAKE CITY</i>	24 Apr 32	D	5th rev.
OD 4687.....	Report of Test and Inspection Lighting Transformers Type SL Volts 115/6 AC	22 May 44	R	
OD 2121.....	Illumination Transformer Mk 1 Mods 3 to 5 Description <i>Cruisers 32 and 35</i>	12 Aug 32	D	
OD 2342.....	Illumination Transformer Mk 10 Mod 8—Description...	30 Nov 41	D	
OD 938.....	Fire Control Equipment, Instructions for Tests of Selsyn Generators, Motors, and Transformers	30 May 27	R	
OD 1045.....	Selsyn Generators, Motors, and Transformers, Instructions for Testing Zero Setting and Phase Rotation of Selsyn Generators, Motors, and Transformers, <i>USS WEST VIRGINIA</i>	13 May 29	R	3rd rev.
OD 1764.....	Description of Selsyn Transformer Model 81E120 Frame 07 Flange Mounted	23 Nov 33	R	2nd rev.
OD 1767.....	Description of Selsyn Transformer Model 81E115, Frame 65 Flange Mounted	23 Nov 33	R	2nd rev.
OD 1768.....	Description of Selsyn Transformer Model 81E117 Frame 77 Flange Mounted	18 Oct 43	R	4th rev.
OD 2706.....	Instructions for Setting Electrical Zero, Selsyn Generators, Motors, Transformers, and Receiver Regulators, General Electric	11 Jul 33	R	
OD 4733.....	Report of Test to Determine Voltage Gradients and Harmonic and Quadrature Voltage at Correspondence of Synchro Control Transformers	24 Aug 44	R	
OD 4798.....	Report of Tests Determining the Static Accuracy of Synchro Control Transformers Using an Auto Transformer	19 May 45	R	
OD 4811.....	Report of Voltage Gradient Tests of Synchro Control Transformers	29 Jun 45	R	

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TRANSFORMERS				
OP 989.....	Antenna Train Drive Mk 3.....	21 Sep 44	R	
OD 3672.....	Report of Tests and Inspection Synchro Control Transformers Type 1CT Mod 2.....	16 Oct 42	R Rev A	
OD 3883.....	Description of Synchro Control Transformer Type 1CT Mod 2.....	8 Nov 43	D 9th rev	
OD 4806.....	Report of Test and Inspection of Power Drive Mk 4, Using Synchro Control Transformers Type 1CT Mod 2, Type 1CT Mk 5 Mod 3A, and Type 1CT Mk 5 Mod 4.....	10 May 45	R	
OD 4650.....	Report of Test and Inspection of Control Transformer Type 1CT Mk—, Mod 3 Volts 90/45-AC.....	14 Oct 43	R	
OD 4652.....	Report of Test and Inspection Control Transformers Type 1CT Mk—, Mod 3A, 90/55 Volts AC.....	14 Oct 43	R	
OD 3884.....	Description of Synchro Control Transformer Type 1 CTB Mod 2.....	1 Nov 43	D 8th rev	
OD 4617.....	Report of Test and Inspection Control Transformers Type 1 CTB Mk—, Mod 2.....	3 Jun 43	R	
OD 4740.....	Report of Tests and Inspection, Synchro Control Transformers Type 1CT Mk 5 Mod 1, Volts 90/55 Submitted for Type Approval by the Arma Engr Corp.....	28 Sep 44	R	
OD 4696.....	Report of Test and Inspection Synchro Control Transformers, Type 1CT Mk 5 Mod 4, Volts 90/55 AC Serial Nos. A and B.....	4 Mar 44	R	
OD 4735.....	Report of Test and Inspection Synchro Control Transformers Type 1CT Mk 5 Mod 6.....	24 Aug 44	R	
OD 4716.....	Report of Test and Inspection Synchro Control Transformers Type 3CT Mk 7 Mod 3, Volts 90/55 AC Serial Nos. 1 and 2.....	20 Jun 44	R	
OD 4812.....	Report of Test and Inspection Synchro Control Transformer Type 1HCT Mk 11 Mod 2, Volts 90/55 AC Cycle.....	14 Sep 45	R	
OD 4829.....	Report of Test and Inspection Synchro Control Transformer Type 3HCT Mk 7 Mod 2, Volts 90/55 AC Cycle.....	14 Sep 45	R	
*OD 4781.....	Report of Test and Inspection Synchro Control Transformers Type 3HCT Mk 7 Mod 4.....			
OD 4795.....	Report of Test and Inspection Synchro Control Transformer Type 3HCT Mk 7 Mod 4, Volts 90/55 AC Cycle.....	21 Nov 45	R Rev A	
OD 2101.....	Fire Control Equipment Arma Synchro Control Transformer Type SCT—Mod 1.....	30 Jun 43	R	
OD 3406.....	Report of Tests and Inspection 6DG Synchro Differential Generator Mk 5 Mod 3 5CT Synchro Control Transformer Mk 1 Mod 3.....	23 Jan 39	R	
OD 4664.....	Report of Test and Inspection Control Transformers Type 5CT Mk 1 Mod 4 Volts 90/60 AC.....	9 Nov 43	R	
OD 3213.....	Description of Synchro Control Transformer 5CT Mk 3 Mod 2.....	7 Jun 42	R 7th rev	
OD 4747.....	Report of Test and Inspection Synchro Control Transformer Type 5CT Mk 3 Mod 5, Volts 90/55 AC, Submitted for Type Approval by the Control Instrument Co.....	31 Mar 45	R	

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TRANSFORMERS				
OD 3927.....	Description of Synchro Control Transformer 5CT Mk 6 Mod 2	23 Nov 44	R	Rev A
OD 4718.....	Report of Test and Inspection Synchro Control Transformers Type 5CT Mk 6 Mod 2, Volts 90/55 AC	23 Nov 44	R	Rev A
OD 4715.....	Report of Test and Inspection Synchro Control Transformers Type 5CT Mk 6 Mod 3A—Volts 90/55 AC Serial Nos. 2 and 3	29 Nov 44	R	Rev A
OD 4697.....	Report of Test and Inspection Synchro Control Transformers Type 5CT Mk 6 Mod 4, Volts 90/55 AC Serial Nos. A and B	4 Mar 44	R	Rev A
OD 4725.....	Report of Test and Inspection Synchro Control Transformers Type 5HCT Mk 6 Mod 6, Volts 90/55 AC, Submitted for Type Approval by the Diehl Manufacturing Co	25 Apr 45	R	Rev B
OD 2571.....	Fire Control Equipment—Arma Synchro Control Transformer Type 5CTB Mod 1	23 Dec 42	R	Rev A
OD 4766.....	Report of Test and Inspection of Synchro Transformers Type 5CTB Mk 8 Mod 2 Volts 90/55 Submitted for Type Approval by General Electric Co	24 Feb 45	R	Rev A
OD 3870.....	Description of Synchro Control Transformer Mk 8 Mod 2 (5CTB)	24 Feb 45	D	4th rev
OD 3911.....	Description of Synchro Control Transformer Type 5SCT Mod 2	1 Sep 43	D	1st rev
OD 4717.....	Report of Test and Inspection Synchro Control Transformers Type 5SCT Mk—Mod 2—Volts 90/22.5 AC	26 Jun 44	R	Rev A
OD 4719.....	Report of Test and Inspection Synchro Control Transformers Type 5SCT Mk—Mod 4—Volts 90/22.5 AC Serial Nos. A and B	26 Jun 44	R	Rev A
OD 2502.....	Description of Synchro Control Transformer Frame 6CT Mk 2 Mod 2	11 Mar 41	R	9th rev
OD 3679.....	Report of Tests and Inspection Synchro Control Transformer Type 6CT Mk 2 Mod 2A	21 Aug 41	R	Rev A
OD 3880.....	Description of Synchro Control Transformer Frame 6CT Mk 2 Mod 2A	14 Apr 42	R	1st rev
OD 4788.....	Report of High Impact Shock Test of Type SL Transformers	25 Apr 45	R	Rev A
TRANSMISSION				
OD 2667.....	Transmission of Level and Cross Level to an Aloft Station from a Stabilized Element at a Remote Point	2 Dec 36	R	Rev A
OD 4653.....	Test of Hydraulic Variable Speed Transmission.....	23 Oct 45	R	Rev A
OD 4832.....	Suitability Test of Vickers Variable Speed Hydraulic Transmission Type A-16801	29 Oct 45	R	Rev A
TRANSMITTERS				
OD 1603.....	Anti-Aircraft Instruction Book—Step-by-Step Transmitters and Motors	15 Dec 26	R	Rev A
OD 4737.....	Report of Tests to Check Synchronizing Times of Synchro Systems Specified in OS 671	24 Aug 44	R	Rev A
*OP 1465.....	Remote Transmitter for Attack Plotter Mk 1 Mod 2.....		R	Rev A
Transmitters, Battle Order				
OD 1653.....	Description—Main Battery Fire Control System, Battle Order Transmitter Mk 15 (USS PENSACOLA and USS SALT LAKE CITY)	Oct 1928	R	Rev A

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Transmitters, Battle Order				
OD 1749.....	Description of Battle Order Transmitter Mk 17—Main Battery Fire Control System	26 Feb 30	R 1st rev	
OD 1779.....	Description of Battle Order Transmitter Mk 18—Main Battery Fire Control System	25 Apr 32	R 6th rev	
OD 1778.....	Description of Battle Order Transmitter Mk 18 Mod 1—Main Battery Fire Control System	26 Apr 32	R 3rd rev	
OD 2157.....	Battle Order Transmitter Mk 19 and Mk 19 Mod 1—Description CAs 33 and 35	Undated	R	
*OD 2324.....	Battle Order Transmitter Mk 20—Description			
*OD 2320.....	Battle Order Transmitter Mk 21—Description			
*OD 2321.....	Battle Order Transmitter Mk 21 Mod 1—Description			
OD 3216.....	Description of Battle Order Transmitter Mk 26 (DDs 409 to 420)	20 Mar 40	R 7th rev	
OD 2601.....	Battle Order Transmitter Mk 27	3 May 39	R	
OD 2591.....	Battle Order Transmitter Mk 27 Mod 1	25 Mar 40	R	
OD 3171.....	Instruction Book for Battle Order Transmitter Mk 29...	21 May 41	R	
OD 4235.....	Starshell Spot Transmitter Mk 1 or Spot Transmitter Mk 1 or Battle Order Transmitter Mk 29—Instructions for Replacement of Handcrank Detent Spring	12 Dec 42	R	
OD 3859.....	Description of Battle Order Transmitter Mk 31 (AD-14, AV-4, AS-11, AS-24 and AVPs 10 to 13 incl)	31 Mar 44	R 9th rev	
OD 3914.....	Description of Battle Order Transmitter Mk 31 Mod 1 for Fire Control System for ADs 16-19, ANs 1-4, AOs 24, 26, ARs 6-7, ARH 1, ASs 15-19, AVs 7, 11-13, AVPs 33-57, Cms 6-7	22 Mar 44	D 4th rev	
Transmitters, Bearing				
OP 1446.....	Target Acquisition Unit Mk 1 Mods 1, 2, 3, and 4 (Transmitter Mk 10 Mod 1)	10 Jul 45	R	
*OP 1563.....	Bearing Transmitter Mk 11 Mod 0			
Transmitters, Designation				
OD 3932.....	Instructions for the Addition of a Level Designation Transmitter to Gun Director Mk 34 Mods 0 and 1, CLs, 40, 41, 42, 43, 46, 47, 48	15 May 45	D 1st rev	
*OP 1545.....	Target Designation Transmitter and Receiver Mk 1 Mods 26 and Up		R	
OD 2338.....	Searchlight Train Order Corrector Mk 4 Mod 1; Searchlight Elevation Order Corrector Mk 4 Mod 1; Searchlight Elevation Order Corrector Mk 4 Mod 2; Searchlight Train Order Corrector Mk 4 Mod 2; Elevation Designator Mk 2 and Mk 2 Mods 1, 2, and 3; Train Designator Mk 2 and Mods 1, 2, and 3; Target Designator Transmitter Mk 3 and Mk 3 Mod 1	Undated	R	
OTI F2-44....	Gun Train Indicator Mk 52 Mods 1 and 2, Target Designation Transmitter Mk 8 Mods 1 and 2 (A) Loosening of Dial and Gear Clamps, (B) Increasing Clearance between Mk 52 Case and Anti-Vibration Mount	2 Feb 44	R Issued with OP 972	
OP 972.....	Gun Train Indicator Mk 52 Mods 1, 2, and 3, Target Designation Transmitter Mk 8 Mods 1, 2, 3, and 4, for Projectors Mk 10 and 11	26 Jul 44	R Supersedes OCL F10-43	
OP 1001.....	Projectors Mk 10, Mk 10 Mod 1 and Mk 11 and Ammunition—Description and Instructions for Use	25 Jul 44	R 1st rev. With Change 1 dated 24 Oct 44. Supersedes OCLs A113-43 and G12-44	

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Transmitters, Designation				
*OP 1639.....	Target Designation Transmitter Mk 11 Mod 1.....		C	
OP 1412.....	Target Designation Transmitter Mk 12 Mod 1.....	20 Jan 45	C	
Transmitters, Differential				
OD 2164.....	Differential Transmitter D-1.....	18 Nov 30	R	
Transmitters, Gun Elevation				
OD 4197.....	Range Keepers Mk 8 Mods 14 and 19—Instructions for Alteration, Ship Speed Gearing Additional Gun Elevation Transmitter—Modification Designation	27 Aug 42	D Rev A	
OP 1308.....	Gun Elevation Order Transmitter Mk 2 Mods 0 and 1	27 Jun 45	R	
OD 1801.....	Description of Gun Elevation Transmitter Mk 2—Main Battery Fire Control System	5 Nov 34	R 7th rev	
*OP 1382.....	Gun Elevation Order Transmitter Mk 4.....		R	
Transmitters, Gun Train Order Relay				
OD 2494.....	Description of Gun Train Order Relay Transmitter Mk 1 Description, Main Battery Fire Control System	2 May 35	R	
OD 2493.....	Description of Gun Train Order Relay Transmitter Mk 1 Mod 1 Main Battery Fire Control System	2 May 35	R 1st rev	
OD 3211.....	Description of Gun Train Order Relay Transmitter Mk 2 CLs 49 and 50	Undated	R	
OD 3207.....	Description of Gun Order Relay Transmitter Mk 3....	Undated	R	
OD 4169.....	Instruction Book for Gun Train Order Relay Transmitter Mk 3	20 May 42	R	
Transmitters, Gun Training Indicator				
*OP 1381.....	Gun Train Indicator & Transmitter Mk 25 Mod 7.....			
Transmitters, Radar				
OP 1238.....	Radar Equipment Mk 28 Mod 2.....	28 Dec 44	R	See remarks for OP 1238 in Part 1
Transmitters, Range				
OD 3783.....	Ordnance Data—Range Transmitter Mk 1.....	28 Apr 42	R	
OD 2573.....	Range Transmitter Mk 2, Mk 3 and Mk 3 Mod 1—Including Selector Switch	29 May 44	R Rev C	
Transmitters, Range Spot				
OD 3170.....	Instruction Book for Range Spot Transmitter Mk 2.....	12 May 41	R	
OD 2583.....	Range Spot Transmitter Mk 3.....	6 Aug 40	R	
Transmitter, Relay				
OD 2648.....	Description and Operation of Sperry Relay Converter and Transmitter for USS CALIFORNIA and USS TENNESSEE	16 Aug 33	D	
Transmitters, Searchlight				
OTI F6-44....	Relocation of Starshell Spot Transmitter Mk 1 and Searchlight Control Transmitter Mk 1 and Mods	10 Jun 44	R	Issued with Ordalts 1971 and 2003
OD 3886.....	Description of Searchlight Control Transmitter Mk 1, Mk 1 Mod 1 and Synchro Exciter Assembly Mk 14 and Mk 27, Fire Control System	3 Aug 45	R 13th rev	
OD 3929.....	Description of Searchlight Control Transmitter Mk 1 Mod 3, Main and Secondary Fire Control Systems	3 Aug 45	R 3rd rev	

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Transmitters, Searchlight				
OD 3920.....	Description of Searchlight Control Transmitter Mk 1 Mod 4—Fire Control System for <i>British Vessels</i>	1944	R	
OD 3913.....	Description of Searchlight Control Transmitter Mk 2 for Fire Control System for ADs 16 to 19, ANs 1 to 4, AOs 24-26, ARs 6-7, ARH 1, ASs 15-19, AVs 7, 11-13, AVPs 33-57, CMs 6-7	1943	R	
Transmitters, Selsyn Commutator				
OD 2614.....	Self Synchronous Commutator Transmitter Types T-4, T-5, T-6, T-7	28 Feb 33	R	
Transmitters, Sight Angle & Deflection				
OD 1784.....	Description of Sight Angle and Deflection Transmitter Mk 1—Main Battery Fire Control System	26 May 33	R	4th rev
OD 1800.....	Description of Sight Angle and Deflection Transmitter Mk 1 Mod 1—Secondary Battery Fire Control System	26 May 33	D	3rd rev
Transmitters, Sound Range				
OD 2659.....	Sound Range Transmitter Mk 1.....	18 Jul 39	R	Rev A
Transmitters, Spot				
OD 3186.....	Spot Transmitter Mk 1—Instruction Book.....	7 Jul 42	R	Issued with Change 1 dated 22 Jun 45
OD 4235.....	Starshell Spot Transmitter Mk 1 or Spot Transmitter Mk 1 or Battle Order Transmitter Mk 29—Instruction for Replacement of Handcrank Detent Spring	12 Dec 42	R	
OTI F7-44....	Relocation of Starshell Spot Transmitter Mk 1 and Searchlight Control Transmitter Mk 1 and Mods	10 Jun 44	R	Issued with Ordalts 1971 and 2003
*OP 1570.....	Instruction Book for Spot Transmitter Mk 4.....			
Transmitters, Star Shell Spot				
OD 3191.....	Instruction Book for Star Shell Spot Transmitter Mk 1	7 Jan 42	R	
OD 4235.....	Starshell Spot Transmitter Mk 1 or Spot Transmitter Mk 1 or Battle Order Transmitter Mk 29—Instructions for Replacement of Handcrank Detent Spring	12 Dec 42	R	
OTI F7-44....	Relocation of Starshell Spot Transmitter Mk 1 and Searchlight Control Transmitter Mk 1 and Mods	10 Jun 44	R	Issued with Ordalts 1971 and 2003
Transmitters, Synchro				
OD 2308.....	Description of Self-Synchronous Transmitter.....	18 Sep 38	R	
OD 2598.....	Fire Control Equipment Synchro Transmission Units—Description	14 Jun 40	R	Rev A. Supersedes ODs 3440 to 3445 incl
OD 2615.....	Synchronous Transmitter Type B-4.....	17 Apr 33	R	
OD 4594.....	Report of Tests to Determine Loading Characteristics of a Type 1-F Synchro as a Transmitter	28 Feb 33	R	
Transmitters, Target Bearing				
OP 1122.....	Gun Director Mk 55 Mod 0.....	30 Jul 45	R	
OD 1017.....	Description of Target Bearing Transmitter for Gun Director Mk 20 and Mk 20 Mod 1—USS <i>NEW YORK</i> and <i>TEXAS</i> —Main Battery Fire Control System	11 Jan 27	R	
OD 1018.....	Description of Target Bearing Transmitter for Gun Director Mk 21—USS <i>NEW YORK</i> and <i>TEXAS</i> —Main Battery Fire Control System	11 Jan 27	R	

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Transmitters, Target Bearing				
OD 1785.....	Description of Target Bearing Transmitter Element for Gun Director Mk 21 Mod 3—Main Battery Fire Control System	15 Jun 33	D 2nd rev	
OD 656.....	Target Bearing Transmitter Mk 5—Description	19 Nov 29	D	
OD 657.....	Target Bearing Transmitter Mk 5 and Mod 1	23 Nov 29	D Rev A	
OD 1789.....	Description of Target Bearing Transmitter Unit (For Target Bearing Transmitter Mk 5 Mod 2) Main Battery Fire Control System	15 Jun 33	R 2nd rev	
OP 1189.....	Target Bearing Transmitter Mk 8 Description and Instructions for use Including Parts Catalog	27 Sep 44	R	
*OP 1448.....	Target Bearing Transmitter Mk 9		R	
Transmitters, Torpedo Target Bearing				
OD 2165.....	Torpedo Tube Train Order Transmitter and Torpedo Target Bearing Transmitter for Torpedo Director Mk 26 CAs 33 and 35	Nov 1930	C	
Transmitters, Torpedo Tube Train Order				
OD 2165.....	Torpedo Tube Train Order Transmitter and Torpedo Target Bearing Transmitter for Torpedo Director Mk 26 CAs 33 and 35	Nov 1930	C	
Transmitters, Train				
OD 3094.....	Fire Control Equipment—Train Designation and Level Relay Transmitters Mk 1 and Mk 1 Mod 1, Mk 2 and Mk 3—Gun Order Relay Transmitters Mk 1 and 2—Description	30 Nov 37	D	
OD 3206.....	Description of Train Designation and Level Relay Transmitter Mk 4	Undated	R 5th rev	
OP 912.....	Train Indicator and Transmitter Mk 44 Mods 0 to 11	13 Apr 45	R	
OP 914.....	Train Indicator and Transmitter Mk 45 Mods 0 to 5	18 May 45	R With Change 1 dated 12 Sep 45	
OP 1122.....	Gun Director Mk 55 Mod 0	30 Jul 45	R	
Transmitters, Turret Train				
OD 1016.....	Description of Turret Train Transmitters Mk 4—USS NEW YORK and TEXAS—Main Battery Fire Control System	11 Jan 27	R	
OD 1794.....	Description of Turret Train Transmitter Mk 6—Main Battery Fire Control System	16 Jun 33	R 3rd rev	
OP 851.....	Turret Train Indicator and Transmitter Mk 37 Mods 0 to 6	11 May 45	R With Change 1 dated 10 Sep 45	
Transmitters, Wind				
OP 1323B.....	Gun Fire Control System Mk 57—Installation, Maintenance, and Accuracy Tests—(Preliminary)	31 Oct 45	R	See remarks for OP 1323B in Part 1
OP 1233.....	Gun Fire Control System Mk 63 (Less Radar Equipment Mk 28 Mod 2) (Preliminary)	15 Nov 44	R	See remarks for OP 1233 in Part 1
OP 1323A.....	Gun Fire Control System Mk 57—Maintenance—Less Radar Equipment	25 Jul 45	R	See remarks for OP 1323A in Part 1
TRAP AND SKEET EQUIPMENT				
OP 865.....	Aviation Ordnance Equipment Catalog	4 May 44	R 2nd rev	See remarks for OP 865 in Part 1

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TRIGGERS				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
TRIGGER MECHANISMS, See MECHANISMS, TRIGGER				
TRIGGER MOTORS, See GUNS BY CALIBER MOTORS, TRIGGER				
TRUCKS				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1073.....	Bomb and Torpedo Skids, Trucks and Trailers.....	29 Sep 43	R	See remarks for OP 1073 in Part 1
OTI V6-44....	Bomb and Torpedo Trucks Mk 2 Mod 2 Adaptation of for Use as an Aid in Boresighting Fixed Aircraft Machine Guns	18 Feb 44	R	Issued with OP 1073
OMI V7-44...	Truck, Bomb and Torpedo Mk 5 Mod 1, Modification of to Include Torpedo Tilting Adapter	24 Apr 44	R	Issued with OP 1073
OMI V11-44..	Truck, Bomb and Torpedo Mk 5 Mod 1 Installation of Steering Knuckle Pin Setscrews	9 May 44	D	Issued with OP 1073
OTI V5-44....	Truck, Bomb and Torpedo Mk 5 Mod 2.....	16 Feb 44	R	Issued with OP 1073
TM9-762	Lift Truck M22.....	31 May 43		War Dept Publication
TUBES				
See also	TUBES, TORPEDO			
OP 1219A.....	Ammunition Code Catalog, Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
OP 865.....	Aviation Ordnance Equipment Catalog (<i>Exhaust Tubes</i>)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1125.....	Aviation Ordnance Chemical Spraying Equipment.....	29 Sep 44	R	Supersedes OP 723. See remarks for OP 1125 in Part 1
OP 1219O.....	Ammunition Code Catalog, Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See remarks for OP 1219O in Part 1
OP 1219M....	Ammunition Code Catalog, Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1122.....	Gun Director Mk 55 Mod 0 (<i>Rotating Head and Cable Tubes</i>)	30 Jul 45	R	
Tubes, Torpedo				
OD 717.....	Torpedo Tubes—Tube Testing Sets Mk 1, Mk 1 Mods 1, 2 and 3 and Mk 2 and Mod—Description and Instructions	17 Feb 44	R	Rev G
OD 3696.....	Test of Brake Bands and Drums of Various Materials in Automatic Gas Brake—Quintuple Torpedo Tube	15 Oct 41	R	
OD 4661.....	AW Torpedo Tubes—Method of Inspecting Barrel Shell Plates Specification (48-S-5) Steel Plate, Hull, Structural	19 Oct 43	D	
Tubes, Torpedo—21"				
OD 4389.....	21" AW Torpedo Tubes (Quadruple and Quintuple)—Instructions for Preservation at Navy Yards	22 Jun 42	D	
OD 4695.....	21" AW Torpedo Tubes Heating Equipment, Tests of Insulation for Barrel Heaters	29 Mar 45	R	Supersedes OD 4470
OTI T1-43....	21" Submarine Torpedo Tubes Gyro Setting Mechanisms, Spindle Packing Rings	27 May 43	R	

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Tubes, Torpedo—21"				
*OD 4049.....	21" Torpedo Tube Mk 7, Electric Hydraulic Training Drives DDs 445 to 648		R	
OD 3338.....	Results of Firing Tests of 21" AW Torpedo Tube with Mk 8 Mod 3D Dummy Torpedo and Sodium Nitrate Powder	21 Jun 37	R	REPLACES 3338 H330011
OP 577.....	21" AW Torpedo Tubes (Quad) Mks 11, 12 and 13 and Mods Description (DDs 348-420)	Dec 1939	R	4th rev. Issued with OCLs T4-43, T10-44
OD 2883.....	21" AW Torpedo Tubes Mk 11 and Mk 12 and Mk 12 Mods 1, 2 and 3, Mk 13 and Mk 13 Mods 1, 2 and 3 (for Destroyers 348 to 420 incl and CLs 51 to 54)—Instructions for Repairing and Straightening Torpedo Tube Barrels	15 Mar 40	R	
OD 3329.....	21" AW Torpedo Tubes Mk 12 Mod 2 and Mk 13 Mod 2 (Quadruple Tube for DDs 380 to 420)—Method of Testing the Equipment after Installation Aboard Ship	23 Jan 40	R	Rev B
OD 4633.....	21" AW Torpedo Tubes Mk 12 Mod 7 and Mk 13 Mod 7—Method of Testing the Equipment After Installation Aboard Ship (for Electric Hydraulic Equipment Mk 7 and Mk 7 Mod 1)	16 Jun 43	R	
OP 764.....	21" AW Torpedo Tubes Mk 14 and Mods, Mk 15 and Mods (Quintuple Tubes) (Preliminary)	29 Mar 44	R	1st rev. Issued with OCL T10-44. Supersedes OCL T8-43
OD 3746.....	21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4, 5, 8 and 9, Mk 15 Mods 1, 2, 3, 4, 5, 8 and 9—Method of Testing the Equipment after Installation Aboard Ship (For Electric Hydraulic Equipment Mk 6, Mk 6 Mod 1, Mk 7 and Mk 7 Mod 1)	6 Dec 44	R	Rev C
*OD 4584.....	Report of Tests 21" AW Torpedo Tube Mk 14 Mod 2 Quintuple Gyro Setting Mechanism Mk 5 Gas Operated Spindle Retractor (Experimental)			
*OD 2914.....	21" AW Torpedo Tubes Mk 14 and Mk 14 and Mods Instructions for Loading Torpedo Impulse Charges			
OD 3532.....	21" AW Torpedo Tubes Mk 14, Mk 15 and Mods—Methods of Manufacture and Assembly	26 Feb 43	R	Rev E
OD 3533.....	Requirements for Acceptance Tests for 21" AW Torpedo Tubes Mk 14 and Mk 15 and Mods	20 May 42	R	Rev E
OD 3551.....	21" AW Torpedo Tubes Mks 14 and 15 and Mods Method of Testing the Equipment After Installation Aboard Ship	29 Aug 40	R	
OD 4438.....	Requirements for Acceptance Tests for 21" AW Torpedo Tubes Mk 20	25 Aug 42	R	
OD 5771.....	21" AW Torpedo Tubes, Ordnance Installation Test Data for BD(M-1)	Undated	R	For Design and Research use only. Not for distribution
OD 5772.....	21" AW Torpedo Tubes, Ordnance Installation Test Data for BD(M-2)	Undated	R	Do
OD 5773.....	21" AW Torpedo Tubes, Ordnance Installation Test Data for BD(M-3)	Undated	R	Do
OD 5020.....	USS DE51, 21" AW Torpedo Tubes Mk 20—Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
OD 5064.....	DE 53, 21" AW Torpedo Tubes Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks (Ref)
Tubes, Torpedo—21"				
OD 5040.....	USS DE54, 21" AW Torpedo Tubes Mk 20—Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
OD 5065.....	DE 56, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Mar 44	R	Do
OD 5063.....	USS DE 57, 21" AW Torpedo Tubes Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R	For design and research use only. Not for distribution
OD 5042.....	USS DE59, 21" AW Torpedo Tubes Mk 20—Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
OD 5043.....	USS DE 60, 21" AW Torpedo Tubes Mk 20—Report of Shipboard Tests and Inspections of Ordnance Equipment	29 Dec 43	R	Do
OD 5047.....	USS DE 62, 21" AW Torpedo Tubes Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R	Do
OD 5048.....	USS DE 63, 21" AW Torpedo Tubes Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R	Do
OD 5061.....	DE 68, AW Torpedo Tubes Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Mar 44	R	Do
OD 5069.....	USS DE 70, 21" AW Torpedo Tubes Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
OD 5637.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 99	Undated	R	Do
OD 5638.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 100	Undated	R	Do
OD 5639.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 101	Undated	R	Do
OD 5640.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 103	Undated	R	Do
OD 5641.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 105	Undated	R	Do
OD 5750.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 214	Undated	R	For design and research use only. Not for distribution
OD 5751.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 215	Undated	R	Do
OD 5752.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 216	Undated	R	Do
OD 5753.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 217	Undated	R	Do
OD 5754.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 218	Undated	R	Do
OD 5755.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 219	Undated	R	Do
OD 5756.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 220	Undated	R	Do
OD 5757.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 221	Undated	R	Do
OD 5758.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 222	Undated	R	Do
OD 5759.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 223	Undated	R	Do
OD 5760.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 224	Undated	R	Do

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Tubes, Torpedo—21"				
OD 5761.....	21" AW Torpedo Tubes—Ordnance Installation Test Data for USS DE 225	Undated	R Do	
OD 5440.....	DE 340, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Nov 44	R Do	
OD 5441.....	DE 341, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Nov 44	R Do	
OD 5442.....	DE 342, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R Do	For design and research use only. Not for distribution
OD 5391.....	DE 345, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R Do	
OD 5443.....	DE 347, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Nov 44	R Do	
*OD 5652.....	DE 350, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20		R Do	
*OD 5653.....	DE 351, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20		R Do	
*OD 5654.....	DE 352, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20		R Do	
*OD 5655.....	DE 353, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20		R Do	
*OD 5656.....	DE 355, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20		R Do	
OD 5657.....	DE 358, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
OD 5693.....	DE 360, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R Do	
OD 5694.....	DE 361, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R Do	
OD 5695.....	DE 362, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R Do	
OD 5421.....	DE 402, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R Do	
OD 5422.....	DE 403, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R Do	
OD 5435.....	USS DE 404, 21" AW Torpedo Tubes Mk 20 Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R Do	
OD 5658.....	DE 405, 21" AW Torpedo Tube Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Tubes, Torpedo—21"				
OD 5659.....	DE 406, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
*OD 5423.....	DE 407, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
OD 5660.....	DE 408, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
OD 5661.....	DE 409, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
*OD 5662.....	DE 410, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	22 Dec 44	R Do	
*OD 5663.....	DE 411, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	22 Dec 44	R Do	For design and research use only. Not for distribution.
*OD 5664.....	DE 413, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	22 Dec 44	R Do	
*OD 5665.....	DE 414, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	22 Dec 44	R Do	
*OD 5666.....	DE 415, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	22 Dec 44	R Do	
OD 5667.....	DE 416, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Dec 44	R Do	
OD 5392.....	DE 418, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R Do	
OD 5668.....	DE 419, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
OD 5669.....	DE 420, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
OD 5670.....	DE 421, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
OD 5671.....	DE 422, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	22 Dec 44	R Do	
*OD 5696.....	USS DE 423, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	22 Dec 44	R Do	
OD 5379.....	DE 531, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R Do	
OD 5424.....	DE 532, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R Do	
OD 5445.....	DE 533, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R Do	
OD 5446.....	DE 534, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	25 Nov 44	R Do	
OD 5447.....	DE 535, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R Do	
OD 5401.....	DE 576, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R Do	
OD 5402.....	DE 577, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R Do	
OD 5425.....	DE 578, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Nov 44	R Do	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Tubes, Torpedo—21"				
OD 5403.....	DE 579, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5416.....	DE 580, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	For design and research use only. Not for distribution
OD 5417.....	DE 581, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
OD 5418.....	DE 582, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
OD 5419.....	DE 583, 21" AW Torpedo Tube Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
OD 5420.....	DE 584, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
OD 5436.....	USS DE 585, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
OD 5437.....	USS DE 586, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
OD 5448.....	DE 587, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
OD 5449.....	DE 589, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
OD 5444.....	DE 666, 21" AW Torpedo Tube Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Nov 1944	R	Do
OD 5066.....	USS DE 675, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R	Do
OD 5041.....	USS DE 676, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
OD 5062.....	DE 679, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Mar 44	R	Do
OD 5073.....	USS DE 681, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
OD 5082.....	USS DE 682, 21" AW Torpedo Tubes, Mk 20 Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
OD 5081.....	USS DE 683, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
OD 5091.....	USS DE 684, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
OD 5404.....	DE 686, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5087.....	USS DE 696, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
OD 5083.....	USS DE 697, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	For design and research use only. Not for distribution
OD 5093.....	USS DE 698, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
OD 5411.....	DE 700, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5438.....	USS DE 702, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
OD 5390.....	DE 706, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
*OD 5697.....	USS DE 707, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 20	.....	..	Do

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Tubes, Torpedo—21"				
OD 5698.....	DE 708, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R	Do
OD 5699.....	DE 709, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	31 Jan 45	R	Do
OD 5092.....	USS DE 789, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
OD 5094.....	USS DE 790, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	10 Mar 44	R	Do
OD 5405.....	DE 791, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5412.....	DE 794, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	Do
OD 5413.....	DE 795, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	Do
OD 5414.....	DE 796, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	Do
OD 5415.....	DE 798, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	Do
OD 5439.....	USS DE 800, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
OD 5003.....	USS DD 472, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	2 Oct 43	R	Do
OD 5004.....	USS DD 473, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R	Do
OD 5010.....	USS DD 474, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R	Do
OD 5019.....	DD 475, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Dec 43	R	For design and research use only. Not for distribution
OD 4162.....	USS DD 476, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R	Do
OD 4155.....	DD 511, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	20 Sep 43	R	Do
OD 5009.....	USS DD 514, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R	Do
OD 5007.....	USS DD 515, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Oct 43	R	Do
OD 5012.....	USS DD 516, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	23 Oct 43	R	Do
OD 5017.....	DD 517, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Dec 43	R	Do
OD 5034.....	USS DD 581, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	Dec 1943	R	Do
OD 5030.....	USS DD 582, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R	Do
*OD 5036.....	USS DD 583, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 & 5, Mk 15 Mods 1, 2, 3, 4 & 5	.....	.....	Do
OD 5053.....	USS DD 584, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	4 Feb 44	R	Do
*OD 5059.....	USS DD 585, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 15 Mods 1, 2, 3, 4 & 5, Mk 14 Mods 1, 2, 3, 4 & 5			Do

*Under preparation.

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Tubes, Torpedo—21"				
*OD 5080.....	DD 586, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 & 5, Mk 15 Mods 1, 2, 3, 4 & 5	.....	Do	
OD 5691.....	DD 613, 21" AW Torpedo Tubes (After Damage Repairs) Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R Do	
OD 4160.....	USS DD 616, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	8 Oct 43	R Do	
OD 5015.....	USS DD 617, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Oct 43	R Do	
OD 5676.....	DD 623, 21" AW Torpedo Tubes (After Damage Repairs) Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R Do	
OD 5022.....	DD 629, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Dec 43	R Do	
OD 5024.....	DD 630, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	11 Dec 43	R Do	
OD 5026.....	USS DD 631, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	27 Oct 43	R Do	
*OD 5031.....	USS DD 642, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 & 5, Mk 15 Mods 1, 2, 3, 4 & 5	.....	Do	
OD 5058.....	USS DD 643, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	4 Feb 44	R Do	
OD 5038.....	USS DD 644, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Dec 43	R For design and research use only. Not for distribution	
OD 5046.....	USS DD 650, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	4 Feb 44	R Do	
OD 5051.....	USS DD 651, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	4 Feb 44	R Do	
*OD 5055.....	DD 652, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 & 5, Mk 15 Mods 1, 2, 3, 4 & 5	.....	Do	
OD 5433.....	USS DD 662, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R Do	
*OD 5100.....	DD 663, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 & 5, Mk 15 Mods 1, 2, 3, 4 & 5	.....	Do	
OD 5432.....	USS DD 664, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R Do	
OD 5049.....	USS DD 677, 21" AW Torpedo Tubes Mk 20, Report of Shipboard Tests and Inspection of Ordnance Equipment	Feb 1944	R Do	
OD 5068.....	USS DD 688, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R Do	
*OD 5076.....	DD 690, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 & 5, Mk 15 Mods 1, 2, 3, 4 & 5	.....	Do	
OD 5378.....	USS DD 691, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R Do	
*OD 5090.....	DD 722, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 & 5, Mk 15 Mods 1, 2, 3, 4 & 5	.....	Do	

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Tubes, Torpedo—21"				
*OD 5097.....	DD 723, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 Mods 1, 2, 3, 4 & 5, Mk 15 Mods 1, 2, 3, 4 & 5			Do
OD 5406.....	DD 724, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5407.....	DD 725, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5408.....	DD 727, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	29 Sep 44	R	Do
OD 5409.....	DD 728, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5410.....	DD 729, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	30 Sep 44	R	Do
OD 5434.....	USS DD 730, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Oct 44	R	Do
OD 5677.....	DD 731, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R	Do
OD 5678.....	DD 732, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R	Do
OD 5679.....	DD 733, 21" AW Torpedo Tubes, Report of Shipboard Tests and Inspection of Ordnance Equipment	24 Jan 45	R	Do
*OD 5680.....	DD 734, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15			Do
*OD 5692.....	USS DD 741, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15			Do
*OD 5716.....	DD 742, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15			For design and research use only. Not for distribution
*OD 5717.....	DD 743, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15			Do
*OD 5722.....	DD 805, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 14 and 15			Do
*OD 5725.....	DD 806, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 15			Do
*OD 5727.....	DD 807, Report of Shipboard Tests and Inspection of Ordnance Equipment 21" AW Torpedo Tubes Mk 15			Do
*OD 5731.....	DD 808—Report of Shipboard Tests and Inspection of Ordnance Equipment—21" AW Torpedo Tubes Mk 15			For design and research use only. Not for distribution
*OD 5733.....	DD 829—Report of Shipboard Tests and Inspection of Ordnance Equipment—21" AW Torpedo Tubes Mk 15			Do
OD 5749.....	USS DD 836—21" AW Torpedo Tubes Mk 14—Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Sep 45	R	Do
OD 5871.....	USS DD 837—21" AW Torpedo Tubes Mk 14—Report of Shipboard Tests and Inspection of Ordnance Equipment	19 Sep 45	R	Do
OD 5873.....	USS DD 838—21" AW Torpedo Tubes Mk 15—Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Jan 46	R	Do

*Under preparation.

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Tubes, Torpedo—21"				
OD 5875.....	USS DD 839—2170 AW Torpedo Tubes Mk 14—Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Jan 46	R Do	
OD 5882.....	USS DD 840—2170 AW Torpedo Tubes Mk 14—Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Jan 46	R Do	
OD 5884.....	USS DD 841—2170 AW Torpedo Tubes Mk 14—Report of Shipboard Tests and Inspection of Ordnance Equipment	18 Jan 46	R Do	
*OD 5889.....	DD 842—Report of Shipboard Tests and Inspection of Ordnance Equipment—2170 AW Torpedo Tubes Mk 14		R Do	
*OD 5897.....	DD 843—Report of Shipboard Tests and Inspection of Ordnance Equipment—21" AW Torpedo Tubes		R Do	
*OD 5891.....	DD 850—Report of Shipboard Tests and Inspection of Ordnance Equipment—21" AW Torpedo Tube Mount Mk 14		R Do	
OTI T4-44....	2170 Submerged Torpedo Tubes SS170 ET SEQ Graduation of Depth Setting Mechanism Index Dial	6 Apr 44	R Do	
OP 1085.....	21" Submerged Torpedo Tube Mk 32 to 39 and Modifications as in SS 198 and up	Jun 1944	R	Supersedes OP 586 for Tubes Mk 32 to 39 incl
Tubes, Torpedo 22½"				
OP 968.....	Torpedo Tubes 22½" Torpedo Tubes Mk 1 and Mk 1 Mod 1 and Auxiliary Equipment, Operating and Installation Instructions	May 1943	R	Issued with OCL T4-43
TUBES, VACUUM				
OP 703.....	Theory and Description of Arma Vacuum Tube Triple Follow-up Circuits	Aug 1937	R	
TURRETS				
See also	GUNS INSTALLATION, FIRE CONTROL MOUNTS			
OP 18.....	Turret Guns and Sights, Instructions for Installation and Test of	Apr 1921	D	1st rev. Where instructions conflict with OP 762 the latter governs
OP 239.....	Firing Locks, General Description of all Mk and Mods	Jan 1941	R	3rd rev
OP 762.....	Alignment of Ordnance Installation Aboard Ship General Instructions	Sep 1942	R	1st rev. With Supplement dated Sep 1942. Supersedes Ch 16 of Gunnery instructions (1933)
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1112.....	Gun Mount and Turret Catalog.....	7 Mar 45	R	2nd rev
*OP 1533.....	Instructions for the Installation, Adjustment and Maintenance of Oscillating Bearing Assemblies for All Turrets Having Automatic Control			
OD 2846.....	Instructions for Balancing Oscillating Parts Enclosed Mounts and Turrets	3 Mar 39	D	

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Turrets, 6"				
OP 1069.....	Training and Elevating Receiver Regulators for 6"/47 Cal Triple Gun Turret	Aug 1944	R	Supersedes OD 2570. Supplements OP 833
OD 3340.....	6"/47 Cal Turret Assemblies for CLs 40 to 43 and 46-50 Aboard Ship	14 Sep 37	R	
*OD 3655.....	Electric Hydraulic Equipment for 6" Slide Mk 20 and Mk 20 Mod 1 and 6" Housing Mk 3 and Mk 3 Mod 1 for 6"/47 Cal 2 Gun Turrets DP			
OD 4061.....	Electric Hydraulic Power Equipment for Training Gear Mk 2 Mod 1 for 6"/47 Cal Three Gun Turrets	31 Dec 42	D	
#OP 592.....	6"/47 Cal Triple Gun Turrets for CLs 40-43 and 46-50 Description and Instructions	May 1941	R	With Change 1 dated 27 Jan 45, Change 2 dated 7 Feb 45 and OCL G31-43. Supersedes OD 3376
*OD 5605.....	CL 42, 6"/47 Cal Triple Turrets Assembly, Ordnance Installation Test Data			For design and research use only. Not for distribution
OD 5470.....	6"/47 Cal Turret—Ordnance Installation Test Data for USS (CL46)	Undated	R	Do
OD 5477.....	6"/47 Cal Triple Turret Ordnance Installation Test Data for USS (CL47)	Undated	R	Do
#OP 833.....	6"/47 Cal Triple Turrets CL 55 Class.....	Jun 1942	R	With Change 1 dated 27 Jan 45, Appendix 1 and OCL G31-43
OD 4403.....	6"/47 Cal Triple Turret Assemblies for CLs 55-58, 60, 62-67, 79-83, 86-87, 99-111, 116-118 Method of Testing the Equipment After Installation Aboard Ship	4 Jan 45	R	Rev A
OD 5478.....	6"/47 Cal Triple Turret, Ordnance Installation Test Data for USS (CL55)	Undated	R	For design and research use only. Not for distribution
OD 5479.....	6"/47 Cal Triple Turret Ordnance Installation Test Data for USS (CL56)	Undated	R	Do
*OD 4658.....	USS MONTPELIER (CL57)—Main Battery and AA Directors and 6"/47 Cal Turrets—Report of Vibration Tests—Gun Directors Mks 34 and 37 and 6"/47 Cal Turrets			
OD 5480.....	6"/47 Cal Triple Turret Ordnance Installation Test Data for USS (CL 57)	Undated	R	Do
OD 5481.....	6"/47 Cal Triple Turret Ordnance Installation Test Data for USS (CL 58)	Undated	R	Do
OD 5471.....	6"/47 Cal Triple Turret Ordnance Installation Test Data for USS (CL 60)	Undated	R	Do
OD 5614.....	Test Sheets, Mounts and Turrets, CL 67.....	Undated	R	For design and research use only. Not for distribution
OD 5784.....	6"/47 Cal Triple Turret Assembly, Ordnance Installation Test Data for USS CL 103	Undated	R	Do
Turrets, 8"				
*OD 3563.....	Train Test of 8"/55 Cal 3 Gun Turret with Ford Receiver Regulator and Waterbury Speed Gear			
OD 4202.....	Electric Hydraulic Control and Drive Gear for Training Gear Mk 18 Mod 1 and Elevating Gear Mk 19 Mods 3, 4, 5 Instruction Book (Preliminary)	Undated	R	

*Under preparation. ‡Under revision.

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Turrets, 8"				
OD 4638.....	8"/55 Cal Triple Turret Assemblies for CAs 24-31, 33 and 35--Method of Testing the Equipment on Spare Turrets	10 Aug 43	R	
OD 2044.....	USS NEW ORLEANS (CA 32), ASTORIA (CA 34) and MINNEAPOLIS (CA 36)--8" Triple Turrets--Multiple Rotary Transfer Switch--Terminal Markings	13 Sep 32	D	
OD 4636.....	8"/55 Cal Triple Turret Assemblies for CAs 32 and 36--Method of Testing the Equipment on Spare Turrets	16 Oct 43	R Rev A	
OD 4637.....	8"/55 Cal Triple Turret Assemblies for CAs 37 and 38--Method of Testing the Equipment on Spare Turrets	16 Oct 43	R Rev A	
*OD 4657.....	USS QUINCY (CA 39)--8" Turrets Nos 1 and 3--Report of Vibration Tests (8"/55 Cal Turrets)			
#OP 704.....	8" Triple Gun Turrets for CA 45.....	Oct 1941	R	Supersedes earlier blueprint copies
*OD 3536.....	Train Test of 8" WICHITA Turret, Arma Regulator and Waterbury Speed Gear			
*OD 3541.....	Train Test on 8" WICHITA Turret General Electric Regulator, Waterbury Speed Gear			
OP 834.....	8" Triple Gun Turrets, USS BALTIMORE Class, CAs 68 to 75, 122 to 138 (Preliminary)	Apr 1943	R	See remarks for OP 834 in Part 1
*OP 1180.....	8" Three Gun Turrets for CA 134 and Class.....			
*OP 1180A.....	8" Triple Gun Turrets--Turret Description and Operation			
*OP 1180B.....	8" Triple Gun Turrets--Guns and Slides.....			
*OP 1180C.....	8" Triple Gun Turrets--Elevating and Training Gears..			
*OP 1180D.....	8" Triple Gun Turrets--Ammunition Handling Equipment			
*OP 1180E.....	8" Triple Gun Turrets--Fire Control and Electrical Installations			
*OP 1180F.....	8" Triple Gun Turrets--Tools and Accessories and Turret Ordnance--General Instructions			
OD 4423.....	Hydraulic Power Equipment for Projectile Hoists and Door Operating Equipment 8"/55 Cal 3 Gun Turrets Mk 27 Mods 3, 4, 5 (CAs 68-75)	15 Apr 43	D	
OD 4534.....	8"/55 Cal Triple Turret Assemblies for CAs 68 to 75--Method of Testing the Equipment after Installation Aboard Ship	27 Jul 44	R Rev A	
OD 5768.....	8"/55 Cal Triple Gun Turrets--Ordnance Installation Test Data for USS CA 135	Undated	R	For design and research use only. Not for distribution
OD 5769.....	8"/55 Cal Triple Gun Turrets--Ordnance Installation Test Data for USS CA 136	Undated	R	Do
*OD 5307.....	8" Projectile Hoist Mk 31 and Mk 31 Mods 1 and 2 for 8" Powder Hoist Mk 36 and Mk 36 Mod 1 in 8"/55 Cal 3 Gun Turrets (CA 139 Class)			
Turrets, 12"				
OP 835.....	12" Triple Gun Turrets, Main Armament for USS ALASKA, GUAM and HAWAII (Preliminary)	25 Oct 44	R	
OD 4684.....	12"/50 Cal Triple Turret Assemblies for CBs 1 to 3 incl Method of Testing after Installation Aboard Ship	24 May 44	D Rev B	
OD 5608.....	12"/50 Cal Triple Turret Assembly, Ordnance Installation Test Data for USS CB 1	Undated	R	For design and research use only. Not for distribution
*OD 5770.....	12"/50 Cal Triple Turrets Ordnance Installation Test Data for USS CB 2			Do

*Under preparation. #Under revision.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
Turrets, 14"				
OD 57.....	14" Turret Assemblies Nos. 27-46 incl Weights and Centers of Gravity	13 Aug 14	R	
OD 3222.....	Main Battery Turret Firing Stop Mechanism Mk 1, Mk 1 Mod 1	4 Mar 44	D	
Turrets, 16"				
OP 755.....	16" Triple Turret for BBs 55 to 60 (45 Cal)—Description and Instructions	Dec 1941	R	1st rev. See remarks for OP 755 in Part 1
OD 2879.....	Gas Ejector Tests for 16"/45 Turrets for BBs 55-60	21 Jun 41	R	
OD 3633.....	16"/45 Cal Triple Turret Assemblies for BBs 55 to 60, Method of Testing the Equipment after Installation Aboard Ship	29 Aug 41	R	Rev A and
*OD 4654.....	USS NORTH CAROLINA (BB 55)—Main Battery Directors and 16" Turrets—Report of Vibration Tests—Gun Directors Mk 38 Mods and 16"/45 Cal Turrets			
*OD 4655.....	USS WASHINGTON (BB 56) Main Battery Directors and 16" Turrets—Report of Vibration Tests—Gun Directors Mk 38 Mods and 16"/45 Cal Turrets			
*OD 3510.....	Description of Elevation Receiver Regulator for 16" Turrets BBs 57 to 60			
*OD 3511.....	Description of Training Receiver Regulator 16" Turrets BBs 57 to 60			
OD 5489.....	16"/54 Cal Triple Turret Ordnance Installation Test Data for USS (BB57)	Undated	R	For design and research use only. Not for distribution
*OD 4666.....	USS INDIANA (BB 58) Main Battery Directors and 16" Turrets, Report of Vibration Tests			
OP 769.....	16" Triple Gun Turrets, Main Armament for USS IOWA Class (BBs 61 to 66), 16"/50 Cal (Preliminary)	Jun 1943	R	See remarks for OP 769 in Part 1
OD 3008.....	USS NEW JERSEY, BB 62, Report of Main Battery Ordnance Installation Tests 16"/50 Cal Triple Turret Assemblies	2 Dec 43	R	For design and research use only. Not for distribution
OD 4515.....	16"/50 Cal Triple Turret Assemblies for BBs 61-66 incl Method of Testing the Equipment after Installation Aboard Ship	21 Dec 42	R	
OD 5491.....	16"/50 Cal Triple Turret Ordnance Installation Test Data for USS (BB64)	Undated	R	For design and research use only. Not for distribution
UNITS				
OTI T2-44....	Exploder Mechanisms Mk 6 Mods 1, 1A and 1B, Mk 4 Mod 1, ACM Units	28 Mar 44	R	Issued with OP 663. Supersedes OTIs T14-43 and T16-43
OP 1478.....	Rocket Sight (Aircraft) Mk 1 Mod 0 (Altitude Unit Mk 3 Mod 0)	10 Jul 45	C	
*NavOrd Chart F15-45	Amplifier Supply Units.....			
OP 1291.....	Computer Mk 14 Mod 0 (AN/APA-30) (Control Unit)	23 Jan 45	C	
*OP 1676.....	Torpedo Data Computer Remote Indicating Equipment (Preliminary) (Control Unit Mk 25 Mod 0)		R	
*OP 1512.....	Optics Filming Units, Mks 1 to 6.....			
OP 1219C.....	Ammunition Code Catalog Class C, Chemicals.....	1 Oct 44	R	See remarks for OP 1219C in Part 1
OP 896.....	Portable 25 KW Gasoline Driven Generator Unit.....	Apr 1944	R	

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Subjects and Publication Numbers	Equipment	Date	Class	Remarks
UNITS				
OD 3933.....	Description of Follow-The Pointer Cross Level Indicator Unit to be Added to Existing Mk 34 Gun Directors Mods 0 and Up, CAs, CLs, BBs	3 Feb 45	D	
OP 1210.....	Aircraft Machine Gun Boresighting Kit Mk 2 Mod 0 (Power Supply Unit)	9 Apr 45	R	
OP 1238.....	Radar Equipment Mk 28 Mod 2.....	28 Dec 44	R	See remarks for OP 1238 in Part I
*NavOrd Chart F11-45	Radar Range Unit Gearing.....			
OP 1070.....	Gun Mount Adapter, Navy Type (Shock Absorbing and Resistance Unit)	19 Jan 45	R	Supersedes OHLs VI-43, V4-43, V5-43 and OTI V18-43. Now issued by BuAer, NAVAER No. 11-10-502
*OP 1637.....	Test Unit (Visual Checksight) Mk 1 Mod 0.....		R	
OP 1478.....	Rocket Sight (Aircraft) Mk 1 Mod 0.....	10 Jul 45	C	
*OP 1605.....	Aviation Ordnance Gun Sight Test Units Mk 2 Mod 0 (Preliminary)		R	
*OP 1605A....	Aviation Ordnance Gun Sight Test Units Mk 3 Mod 0 (Preliminary)		R	
*OP 1605B....	Aviation Ordnance Gun Sight Units Mk 4 Mod 0 (Preliminary)		R	
*OP 1605C....	Aviation Ordnance Gun Sight Units Mk 5 Mod 0 (Preliminary)		R	
*OP 1605D....	Aviation Ordnance Gun Sight Test Units Mk 6 Mod 0 (Preliminary)		R	
OP 1446.....	Target Acquisition Unit Mk 1 Mods 1, 2, 3, and 4.....	10 Jul 45	R	
*OP 1575.....	Target Acquisition Unit Mk 2 Mod 1.....		R	
OP 1650.....	Test Unit Mk 13 Mod 0 (Computer Mk 17)—Installation and Operation	5 Dec 45	R	Will be superseded by OP 1546
VALVES				
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part I
OP 1143.....	Cal .50 Hydraulic Gun Charger AN-Mk 2 and AN-Mk 2 Mod. 1; Hydraulic Control Valve AN-Mk 1 and AN-MK 1 Mod 1 and Hydraulic Control Valve Part No. 79720.	9 Oct 44	D	Supersedes OPs 827 and 828. Now issued by BuAer, NAVAER No. 11-10b-502
OMI V18-44..	Valve, Carbon Dioxide Regulator for Smoke Tanks—Installation of Outlet Fitting Adapter	26 Jul 44	D	
VESSELS				
*OP 1658.....	Issue Loading Fleet Ammunition Ships.....		R	
*OD 4425.....	Operation Training Vessels AVP 23.....			
VIALS				
OP 865.....	Aviation Ordnance Equipment Catalog (Inclinometer Vials)	4 May 44	R	2nd rev. See remarks for OP 865 in Part I
VIEWING INSTRUMENTS				
OP 779.....	Viewing Instruments Mk 3, Description.....	Sep 1941	R	
WARHEADS, See TORPEDO WARHEADS				
WEDGE, OFFSETS, See ATTACHMENTS, OFFSET WEDGE				
BINOCULARS				
MECHANISMS, BREECH				

*Under preparation.

Subjects and Publication Numbers	Equipment	Date	Class	Remarks
WEIGHTS				
See also	EQUIPMENT LISTS, ORDNANCE			
OD 2790.....	Weights & Dimensions of Ammunition Components and their Containers	Dec 1943	R	
OD 2846.....	Instructions for Balancing Oscillating Parts of Enclosed Mounts and Turrets	3 Mar 39	D	
OD 3784.....	Weights of Gun Barrel Forgings (for new construction)	6 Apr 42	R	
Weights, AC				
OD 4494.....	Preliminary Ordnance Weights for Auxiliary Aircraft Carriers (ACV 10)	17 Nov 42	R	
OD 3798.....	Preliminary Ordnance Weights for Auxiliary Aircraft Carriers (ACVs 31-54)	17 Nov 42	R	Superseded by OD 4626 as to ACV 31
Weights, B's				
OD 3349.....	Preliminary Ordnance Weights for BBs 55 and 56....	20 Nov 39	R	Rev B. Will be superseded by OD 6324
Weights—SSs				
OD 2749.....	Preliminary Ordnance Weights SS 182 to 197.....	29 Apr 37	R	Rev B
Weights, YF, YN				
OD 3732.....	Preliminary Ordnance Weights for Fuel Oil Barges (YOs 65-79-5000 bbl)	28 Nov 41	R	
WHEELS				
OP 865.....	Aviation Ordnance Equipment Catalog (Track Laying Wheel Mk 1)	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
WINDOWS				
OD 2910.....	Instructions for Handling Plastic, Transparent, Flame Resisting Sheet Used for Windows in Fire Control Instruments and Director Shields	21 May 41	D	Rev B
WIRE				
OP 1219A.....	Ammunition Code Catalog Class A, Bombs and Accessories	9 Jul 45	R	1st rev. See remarks for OP 1219A in Part 1
#OP 1178.....	Demolition Material	8 Dec 44	R	
OP 1219E.....	Ammunition Code Catalog Class E, Demolition Material	20 Jul 45	R	1st rev. See remarks for OP 1219E in Part 1
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
WORKSHOP EQUIPMENT, See EQUIPMENT, TORPEDO WORKSHOP				
WRENCHES				
See also	TOOLS			
OP 865.....	Aviation Ordnance Equipment Catalog.....	4 May 44	R	2nd rev. See remarks for OP 865 in Part 1
OP 1219M.....	Ammunition Code Catalog Class M, Projector Charge and Rocket Ammunition Components	6 Dec 45	R	2nd rev. See remarks for OP 1219M in Part 1
OP 1219O.....	Ammunition Code Catalog Class O, Gun Ammunition Components and Miscellaneous Items	9 Jul 45	R	1st rev. See Remarks for OP 1219O in Part 1

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PART 3

CHECK LIST OF OPs, NAVORD ODs, AND WAR DEPARTMENT PUBLICATIONS FOR SHIPS ARMED WITH 5-INCH OR SMALLER CALIBER GUNS

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INTRODUCTION

Part 3 contains a check-off list, to provide in convenient form a quick means of identifying the Ordnance Pamphlets, Ordnance Data, and Army publications most frequently requested and required by ships armed with 5-inch or smaller caliber guns. These publications are included in the commissioning allowance lists of Ordnance publications for applicable vessels, and are automatically furnished on commissioning. Additional copies of the publications may be obtained as outlined in the Introduction to OP 0 (23rd Rev.).

Publications applicable to Guns and Mounts are listed by Gun Caliber. Fire Control, Torpedo, Depth Charge, and Rocket publications are listed by type of equipment. Also listed are basic OPs and NAVORD ODs applicable to all such vessels. Aviation Ordnance and Submarine Ordnance publications are not included.

For a complete subject index of all Bureau of Ordnance publications by type of equipment, Part 2 should be consulted.

OPs and NAVORD ODs APPLICABLE TO ALL SHIPS

—	BUORD Manual
OP 0	Index of Ordnance Publications
Ordalt 00	Index of Ordnance Alterations
OP 4	Ammunition Afloat
OP 546	Cal. 45 Line-Throwing Gun
OP 762	Alignment of Ordnance Equipment on Board Ship
OP 1004	Index of Ballistic Information
OP 1014	Gunnery Safety Precautions, Origin and Necessity
OP 1042	Ships Chemical Smoke Munitions
OP 1140	Basic Fire Control Mechanisms
OP 1177	Ships Pyrotechnics
OP 1178	Demolition Equipment
OP 1303	Navy Synchros
OD 3000	Lubrication of Ordnance Material
OD 4486	Comments on Ordnance Equipment

SMALL ARMS

TM	SNL	FM	
9-215	A-32		Submachine Gun Thompson, Cal. .45 M1 and M1A1
9-1215	A-32	23-40	Submachine Gun Thompson, Cal. .45 M1928A1
9-1211	A-4	23-15	Rifle, Automatic Browning, Cal. .30
9-1295	B-6	23-35	Pistol, Automatic Cal. .45 M1911
9-285	B-9		Shotgun (Riot) 12 Gauge
9-1276	B-28	23-7	Carbine, Cal. .30 M1
9-2210			Small Arms Accidents and Malfunctions
9-850			Preserving and Lubricating Materials
OP 1427			Shotgun Mount Assembly Mk 1 Mod 0

MACHINE GUNS, CALIBER .30 AND .50

Caliber .30

TM	SNL	FM	
9-205 & 9-1205	A-28		M2
9-1205	A-6	23-45	M1919 (All Types)

Mount (Shipboard)

OP 1088 Mark 21 and Mods

Caliber .50

TM	SNL	FM	
9-225 & 9-1225	A-38		M2 (Aircraft)
9-1225	A-39	23-65	M2 (Heavy Barrel)
9-226 & 9-1225			M2 (Watercooled)
TM9-219			T36 and T25E3(M3) Aircraft

Mounts (Shipboard)

OP 893 Mk 17 Mod 0

OP 951 Mk 17 Mods 1 and 2

OP 919 Mk 30

20-mm BATTERY

Gun

OP 911 Complete Description of Guns

Mount

OP 909 Description of Mks 2, 4, 5, 6, 10 and Mods

OP 1439 20-mm AA Assemblies (Twin)

Gun Sight Mark 14

OD 4429 Gun Sight Mk 14 Mod 2 100-2-200-000

OP 1040 Gun Sight Mk 14 Mod 6 2051-2

Ballistics

OP 945 Range Table

LUBRICATION CHARTS, As Specified in OD 3000

40-mm BATTERY (Single, Army-Type) (M3)

Gun

OP 820 (Not completely applicable)

Mount¹

TM9-252	Description

TM9-1252 Maintenance

SNL A-50 Parts List

Ballistics

OP 867 Ballistic Data, AA

OP 867A Range Table, Surface

OP 867B Range Table, Surface

NOTE

The Mount M3, is substantially the upper portion of the Mobile Army AA Gun Carriage M2. Mount publications listed above include data on the gun.

40-mm BATTERY (Twins and Quad Mounts)

Gun

OP 820

Mount

¹OD 3782 Twin ¹OD 4391 Quad

Power Drive

OP 821A Mk 4

OD 4408 Mk 5 (York) (Use for Mk 6 also)

OD 4690 Mk 5 (York) Trouble Shooting

(Use for Mk 6 also)

OP 1289 Mk 10 Mods 0, 1, and 2

Ballistics

OP. 867 Ballistic Data, AA

OP 867A Range Table, Surface

OP 867B Range Table, Surface

LUBRICATION CHARTS, As Specified in OD 3000

¹NOTE

1.....Addenda "D" to these ODs contains instructions for "Manufacture and Installation of the Firing Stop Mechanism Cam Plate."

3"/50 BATTERY**Gun and Mount**

OP 811 Description of Mounts Mk 20-22
 OP 984 Description of Mount Mk 24

Fuze Setters (Possible Installations)

OD 3645 Mk 10 Mod 0 OP 1046 Mk 12
 OD 3714 Mk 10 Mod 1 OD 4577 Mk 13
 OP 808 Mk 11 and Mods

Ballistics (See Also OP 1004)

OP 861 Surface Range Table
 OP 824 AA Range Table

Miscellaneous

OP 887 Loading Machine Mk 7 and Mods
 OP 1081 Computer Mk 12 Mod 1

LUBRICATION CHARTS, As Specified in OD 3000

¹NOTE: Change 1 to OP 861 includes Erosion & Wear Curves

4"/50 BATTERY (Mounts Mk 12)**Gun and Mount**

OP 165

Ballistics

Publication ¹ Number	Projectile	Initial Velocity	Type of Range Table
OP 1224	HC, & Mk 16 Com	2,900	Surface
OP 1225	HC	2,800	AA

LUBRICATION CHARTS, As Specified in OD 3000

¹NOTE: Applicable Erosion and Wear Curves are included in these OPs or in changes thereto.

5"/38 BATTERY (Merchantman and Auxiliary Types)

Gun and Mount

OP 868 Mount Mk 37 and Mods
 OP 895 Mount Mk 30 Mod 50
 OP 1013 Mount Mk 30 Mods 20, 38-40, 45, 46, 48, 49

Ballistics (See also OP 1004.)

OP 551 Range Table 2,600 fsiv (Includes Erosion and Wear Curves)
 OD 3326 AA Safety Data (Minimum Fuze Settings)

Miscellaneous

OP 1161 Fuze Setting Indicator Mk 12 Mods 0 and 1
 OP 1451 5"/38 Window Projectiles
 OD 4577 Fuze Setter Mk 13
 OD 2913 Filling Recoil and Charging Counter Recoil Cylinders
 OD 2071 Firing Stop Mechanism

LUBRICATION CHARTS, As Specified in OD 3000

5"/38 BATTERY (Combatant Type Mounts, Single and Twin)

Guns and Mounts

SINGLE MOUNTS		TWIN MOUNTS		
(Mk 24)	(Mk 30)	(Mks 28, 32, 38)		
OP 700	OP 735	OP 805		Gun and Mount
—	—	OP 1103		Electric-Hydraulic Drives
OD 2071	OD 2071	OD 3486		Firing Stop Cam
—	OP 775	OP 783		Loading Machines
—	OD 2355	—		Fitting Out Tests

Ballistics (See Also OP 1004.)

¹OP 551 Range Table 2,600 fsiv
¹OP 1285 Range Table 1,200 fsiv
 OP 1042 (Page 72) Range Table (W.P.)
 OD 3326 AA Safety Data (Minimum fuze settings)

Miscellaneous

OP 582 Telescopes
 OP 1451 5"/38 Window Projectiles
 OD 2913 Filling Recoil and Charging Counter Recoil Cylinders

LUBRICATION CHARTS, As Specified in OD 3000

¹NOTE: Applicable Erosion and Wear Curves are included in these OPs or in changes thereto.

MANUALLY CONTROLLED GUN DIRECTORS AND ASSOCIATED COMPONENTS

OD 4424	Director Mk 51 Mods 1 and 2
OP 1119	Director Mk 51 Mod 3
OP 1097	Director Mk 52 Mods 2 and 3
OP 1154	Radar Equipment Mk 26
OP 1233	Gun Fire Control System Mk 63
OP 1238	Radar Equipment Mk 28 Mod 2
OP 1221	Train Parallax Corrector Mk 2 Mods 1 and 2
OP 1222	Gun Order Corrector Mk 2 Mods 0 and 1
OD 4429	Gun Sight Mk 14 Mods 2-4, 9-11
OP 1040	Gun Sight Mk 14 Mods 6-8, 12-15
OP 1098	Gun Sight Mk 15 Mods 2, 3, 11
OD 4365	Train Indicator Mk 23 Mods 3-12
OD 4367	Elevation Indicator Mk 21 Mods 3 and 4
OD 4211	Computer Mk 6 Mods 2, 7, 11-13

FIRE CONTROL, GUN DIRECTOR MK 37 SYSTEMS

Director (Mk 37 and Mods)	
OP 756	Director
OP 756A	Optical Alignment
Control Mechanisms	
OD 4693	Arma Drive Power Head
OD 2577	Slewing Sight Mk 2
OP 1062	GE Drive (Amplidyne) (Includes Slewing Sight Mk 3)
Computer (Mk 1 Mods 6, 7 and 13)	
Mod 6 (Mk 1) Mods 7 & 13	
Serials	
Below 101	101 and Above
OD 3183	OD 3185
OD 4185	OD 4186
All Mods	Adjustment Procedure
OD 5157	

UNITS ASSOCIATED WITH VARIOUS 5"/38 COMBATANT TYPE MOUNTS AND GUN DIRECTOR MK 37 SYSTEMS

OP 1063	Stable Element Mk 6
OPs 597 and 597A	Rangefinder Mk 42
OP 1248	Target Course Indicator Mk 1
OD 3156	Time of Flight Clock Mk 2
OD 3170	Range Spot Transmitter Mk 2
OD 3886	Searchlight Control Transmitter Mk 1
OD 2569	Fuze Setting Indicator Regulator Mk 9
OD 2573	Range Transmitter Mk 2 and 3
OD 2589	Sight Setters Indicator Mk 4
OD 3171	Battle Order Transmitter Mk 29
OD 3186	Spot Transmitter Mk 1
OD 3191	Star Shell Spot Transmitter Mk 1
OD 4236	Selector Drive Mk 1
OD 2580	Searchlight Train Indicator Mk 14 Mod 1
OD 2581	Searchlight Elevation Indicator Mk 7 Mod 1
OD 3172	Searchlight Corrector Mk 5
OD 3190	Searchlight Trunnion Tilt Corrector Mk 1
OD 3864	Searchlight Elevation Indicator Mk 4 Mod 5
OD 3865	Searchlight Train Indicator Mk 12 Mod 6
OP 657	Radar Equipment Mk 3 and 4
OP 1076	Radar Equipment Mk 12
OP 1153	Radar Equipment Mk 22

TORPEDO BATTERIES AND FIRE CONTROL, ABOVE WATER.*Destroyers*

Publication Mk

OP 764	14, 15	Tubes
ODY 3627	6	Electric Hydraulic Equipment
OD 4059	7	Electric Hydraulic Equipment
OP 585	27	Torpedo Director

DDs and DEs

OP 960		Torpedo Tube Sight Mk 5
OD 4656		Torpedo Angle Solver Mk 7
OP 642		Torpedo Mk 15
OP 627A		Gyros
OPs 663 and 663A		Warheads and Exploder Mechanisms

DEPTH CHARGES AND RELATED EQUIPMENT**Depth Charges**

OP 747		Depth Charges Mks 6 and 7
OP 662A		Depth Charge Mk 8
OP 866		Depth Charge Mk 9
OP 908		Depth Charge Mk 10
OP 831		Depth Charge Projector Mk 6 and Mods
OP 35		Depth Charge Release Gear Mk 1
OP 721		Depth Charge Release Gear Mk 3

Projectors and Launchers

OP 831		Projector Mk 6
OP 1001		Projectors Mks 10 and 11
OP 972		Gun Train Indicator Mk 52 & Target Designation Transmitter Mk 8
OP 1101		Attack Plotter Mk 1 and Mods
OP 1002		Rocket Launchers Mks 20, 21, 22
OP 1017		Special Fuzes for Ammunition for above-mentioned Projectors and Launchers