

No. 5981

COMPLETE ROUND CHARTS





NOTES	DESIGNATION OF GUN	COMPLETE ROUND DRG. NO.	PROJECTILE										FUZE			CARTRIDGE CASE		PROPELLING CHARGE		PRIMER			PACKING BOXES					ASSEMBLY NO.																																																																																																																																																																																																																																																																																																																																																																																																																								
			Kind	Type	Designation	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Designation	Type	Drg. No.	Designation	Drg. No.	Nominal weight	Kind †	Type	Designation	Drg. No.	FUZE	CASE	PRIMER	ROUND																																																																																																																																																																																																																																																																																																																																																																																																																										
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S. = Issue.
M. = Manufacture.
B. D. = Base detonating.
FNH. = Flashless, nonhygroscopic powder.

Ψ Approximately 5,200 rounds of practice ammunition (black powder loaded), consisting of shell, Mk. II, Mod. I (Navy Drg. 50417), fuzed with base ignition fuze, Mk. VIII, Mod. 6 (Navy Drg. 56193), have been manufactured for practice.
NOTE.—For drill, use service ammunition, inert.

†N. C. powder is substitute standard.
Φ Shipped complete with red tracer in base of shot.
□ Drill cartridge made from standard service projectile Mk. II and cartridge case Mk. I.

Sheet No. 1

U. S. GOVERNMENT PRINTING OFFICE: 1932

Sheet No. 1B

NOTES	MARK OR MODEL OF GUN	COMPLETE ROUND DRG. NO.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER	CARTRIDGE CASE		PROPELLING CHARGE		PRIMER**			PACKING BOXES					ASSEMBLY NO.																																																																																																																																																																																																																																																																																																																																																																																										
			Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Mk. No.	Drg. No.	Mk. or Mod.	Type	Drg. No.	Drg. No.	Mk. or Type	Drg. No.	Nominal weight	Kind	Size	Mk. or Mod.	Drg. No.	Fuze	Case	Primer	Round																																																																																																																																																																																																																																																																																																																																																																																												
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S. = Issue.
M. = Manufacture.
P. D. = Point detonating.
Comb. = Combination time and percussion.
FNH = Flashless, nonhygroscopic powder.
Nitrocellulose or pyrocellulose powder may be used as a "substitute standard."

|| 49-grain primer, used with N. C. powder as substitute standard.
‡ Assembly of components on hand. No manufacture of Mk. I shell required.
* Some shell on hand are loaded with 50/50 amatol.
Δ Burned-out fuze parts that have been condemned, or parts rejected by inspectors of the regular 21 sec. comb. or 21 sec. A-A service fuzes may be used.
** Some rounds on hand have 49-grain percussion primer, Drg. 74-2-13, inserted in cartridge case.

‡ A substitute for steel shell in an emergency.
φ Drawing 76-1-66 with fiber container 76-1-40 for war time. Drawing 76-1-53 with no container, alternative for war time. Drawing 76-1-73 with slip type fiber container, alternative for peace time.
□ Inert fuze.
⊖ Adapter only.

Sheet No. 2B

Sheet No. 2C

Sheet No. 3

AMMUNITION (FIXED) FOR 3-INCH ANTIAIRCRAFT GUNS, MODELS 1917, 1918, M1, M2, M3, AND M4

3-inch

[illegible]

N. C.=Nitrocellulose or pyrocellulose.
S.=Issue.
M.=Manufacture.

* Some rounds on hand have 110-grain percussion primer, Drg. 74-2-3, and other rounds have 100-grain percussion primer, M1 Drg. 74-2-23, inserted in cartridge case.

φ N. C. powder is substitute standard.
 □ Alternative design of this shell, Mk. IXB, shown on Drg. 75-18-30.
 Δ The 1925 M1 guns have same chamber and characteristics as the 1917 A-A guns.
 ☆ Rounds assembled prior to January, 1932, contained 21-sec. A-A fuze, Mk. III, Drg. 73-3-111.

ISSUED—August 15, 1924.

REVISED—March 1, 1932.

AMMUNITION FOR 3-INCH TRENCH MORTAR, MK. I

3-inch

[illegible]

U. S. GOVERNMENT PRINTING OFFICE: 1932

S.=Issue.
M.=Manufacture.

* Packing box shown on Drawing 76-2-65 may be used.
† Propelling charge Mk. II shown on Drawing 71-12-3 may be used.

§ Existing charges consist of 3 propelling charge rings, each containing 100 grains of ballistite powder or 110 grains of M. R. No. 31, used to make one full charge for outer zone. For inner zones omit 1, 2, or 3 rings. For future production M. R. No. 31 only will be used.

¶ White phosphorus loaded in black iron container.

¶ Packing box contains 3 complete rounds.

ISSUED—August 15, 1924.
REVISED—March 1, 1932.

† Pyrocellulose powder is substitute standard.
S. = Issue.
M. = Manufacture.
△ Complete round with weights indicated shown on Drawing PX 13-76.
Sub. = Substitute standard for assemblies "1" and "A" so far as fuzing is concerned.

Sheet No. 6

AMMUNITION (SEPARATE LOADING) FOR 155-MM. GUN, MODEL 1918MI (FRENCH—G. P. F.)

155-mm.

NOTES	MARK OR MODEL OF GUN	COM- PLETE ROUND DRG. No.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER		CARTRIDGE BAG				PRIMER				PACKING BOXES					ASSEMBLY No.																																																																																																																																																																																																																																																																																																																																																																																						
			Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Mk. No.	Drg. No.	Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	Mk. or Type	Drg. No.	Nomi- nal weight charge	Kind (l)	Size	Mk. or Mod.	Drg. No.	FUZE	C. S. C. (¶)	PRIMER	PROJECTILE																																																																																																																																																																																																																																																																																																																																																																																									
								Wt.	Kind		Type	Drg. No.															Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.

S. = Issue.
M. = Manufacture.
C. S. C. = Cartridge storage case.
P. D. = Point detonating.

Comb. = Combination time and percussion.
N. H. = Nonhygroscopic powder.
B. & I. = Base and increment.

* Some shell on hand are loaded with 50/50 or 80/20 amatol.
† Mk. III fuze with "interrupter" shown on Drawing 73-2-39 should be used with adapter and booster.
‡ Use eyebolt lifting plug, Drg. 75-14-42.
¶ Drg. 76-10-15 with fiber container, Drg. 76-10-8, 9, and 14 for war-time production.
|| A charge of 25.2 lbs. of pyrocellulose powder may be used as substitute standard.

Sheet No. 9A

AMMUNITION (SEPARATE LOADING) FOR 8-INCH HOWITZERS, MK. VI (BETH.), MK. VII (BRITISH), AND MK. VIII½

8-inch

NOTES	MARK OR MODEL OF HOW.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER		CARTRIDGE BAG		PROPELLING CHARGE		PRIMER*			PACKING BOXES					ASSEMBLY No.								
		Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Mk. No.	Drg. No.	Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	Mk. or Type	Drg. No.	Nominal weight	Kind	Type	Mk. or Mod.	Drg. No.	FUZE	C. S. C.	PRIMER	PROJECTILE										
							Wt.	Kind		Type	Drg. No.															Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.
S. & M.	VI	Shell	H. E.	I	75-4-23	Lbs. 200.00	Lbs. 29.6	TNT †	Steel	Forg	75-20-5	IIA	73-1-122	III	P. D	73-2-39	IX	75-14-37		71-9-65	Lbs. oz. 10 12	N. C.	21-gr	IIA	74-2-21	76-7-245	76-5-52	76-8-16	(‡)	Unfuzed	1								
S. & M.	VI	Shell	II. E.	I	75-4-23	200.00	29.6	TNT †	Steel	Forg	75-20-5	IIA	73-1-122	IV	P. D	73-1-81	IX	75-14-37		71-9-65	10 12	N. C.	21-gr	IIA	74-2-21	76-7-246	76-5-52	76-8-16	(‡)	Unfuzed	2								
S. & M.	VII and VIII½	Shell	H. E.	I	75-4-23	200.00	29.6	TNT †	Steel	Forg	75-20-5	IIA	73-1-122	III	P. D	73-2-39	IX	75-14-37	Mk. I	71-9-80	20 14	N. C.	21-gr	IIA	74-2-21	76-7-245	76-5-52	76-8-16	(‡)	Unfuzed	3								
S. & M.	VII and VIII½	Shell	H. E.	I	75-4-23	200.00	29.6	TNT †	Steel	Forg	75-20-5	IIA	73-1-122	IV	P. D	73-1-81	IX	75-14-37	Mk. I	71-9-80	20 14	N. C.	21-gr	IIA	74-2-21	76-7-246	76-5-52	76-8-16	(‡)	Unfuzed	4								
S. & M.	All	Dummy	Drill	I	72-1-29	200.00			C. I., bronze, and steel.										I	72-2-29	11 00		21-gr	IIA	74-2-21			76-8-16			A								

S. = Issue.
M. = Manufacture.
P. D. = Point detonating.
C. S. C. = Cartridge storage case.
N. C. = Nitrocellulose or pyrocellulose powder.

* Howitzers equipped with British firing mechanism take the "T" model friction primer Mk. IV, Drawing 74-4-26. This applies especially to Mk. VII and some Mk. VI howitzers. Mk. VIII½ howitzers are all equipped for 21-grain percussion primer Mk. IIA.
† Some shell on hand are loaded with 80/20 amatol.
‡ Use eyebolt lifting plug, Drawing 75-14-42.

8-inch

Sheet No. 11

240-mm.

Sheet No. 13

AMMUNITION (SEPARATE LOADING) FOR 10-INCH SEACOAST GUNS MODELS '88, '88MI, '88MII, '95, '95MI, AND '00

10-inch

NOTES	CANNON	COM- PLETE ROUND DRG. NO.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER		CARTRIDGE BAG			PRIMER			PACKING BOXES					ASSEMBLY NO.																																																																																																																																																																																																																																																																																																																																									
			Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Mk. No.	Drg. No.	Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	Mk. or Type	Drg. No.	Nominal weight charge	Type*	Mk. or Mod.	Drg. No.	Fuze	C. S. C.	PRIMER	PROJECTILE																																																																																																																																																																																																																																																																																																																																											
								Wt.	Kind		Type	Drg. No.														Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg

S= Issue.
M= Manufacture.
P. D.= Point detonating.
B. D.= Base detonating.

S. S. = Single section.
B. & I. = Base and increment.
C. S. C. = Cartridge storage case.

* Guns in emplacements fitted with electrical equipment use electric primer for sea-coast cannon, Drawing 74-5-18, with friction primer for emergency use.
† Use packing box shown on Drawing 76-8-8 for friction primer Mod. '14.
‡ Single-section charges shown on Drawings 71-9-18 and 19 and multisection charges for which there is no drawing were issued prior to 1920.

§ Mk. II service shell inert loaded used as target-practice projectile for this weight.
 || Use eyebolt lifting plug, Drawing 75-14-42, and rope grommet, Drawing 75-14-43.
 provided ogive is not attached to shell, otherwise use crate, Drawing 76-3-9.
 ¶ Packing box and can for medium caliber B. D. fuze, Mk. III, shown on Drawing 76-7-527.

ISSUED—August 15, 1924.
REVISED—January 2, 1936.
Sheet No. 14

AMMUNITION (SEPARATE LOADING) FOR 12-INCH MORTARS, MODELS '90, '90MI, '08, AND '12

12-inch

NOTES	CANNON	COM- PLETE ROUND DRG. No.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER		CARTRIDGE BAG			PRIMER*			PACKING BOXES					ASSEMBLY NO																																																																																																																																																																																																																																																																																																																																								
			Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING		Mk. No.	Drg. No.	Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	Mk. or Type†	Drg. No.	Nominal weight charge	Type	Mk. or Mod.	Drg. No.	FUZE		C. S. C.	PRIMER	PROJECTILE OR ROUND																																																																																																																																																																																																																																																																																																																																									
								Wt.	Kind		Type	Drg. No.														Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.

S. = Issue.
M. = Manufacture.
P. D. = Point detonating.
B. D. = Base detonating.

Al. pt. = Aliquot part.
B. & I. = Base and increment.
C. S. C. = Cartridge storage case.
S. S. = Single section.

* Guns in emplacements fitted with electrical equipment use electric primer for seacoast cannon, Drg. 74-5-18, with friction primer Mod. '14 for emergency use.
† Charges issued since January 1, 1923, approximately, for Mod. '90-'08 mortars have been aliquot part charges. Those issued prior were base and increment.
‡ Use packing box shown on Drawing 76-8-8 for friction primer Mod. '14.

§ With modified band for mortar.
|| Use eyebolt lifting plug, Drg. 75-14-42, and rope grommet, Drg. 75-14-43, provided ogive is not attached to shell, otherwise use crate, Drg. 76-3-9.
¶ D. P. shell issued since January 1, 1923, approximately, have been fitted with Mk. X B. D. fuze. Those issued prior were equipped with earlier types of fuzes.
° See also Drawings 75-12-29 and 30.
NOTE.—For primer protector cap see Drawing 71-9-34.

ISSUED—August 15, 1924.

REVISED—March 1, 1932.

AMMUNITION (SEPARATE LOADING) FOR 12-INCH SEACOAST GUNS, MODELS '88, '88MI, '88MI½, '88MII, '95, '95MI, AND '00

12-inch

NOTES	CANNON	COM- PLETE ROUND DRG. No.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER		CARTRIDGE BAG			PRIMER			PACKING BOXES					ASSEMBLY No.																																																																																																																																																																																																																																																																																																																																										
			Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING		Mk. No.	Drg. No.	Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	Mk. or Type	Drg. No.	Nomi- nal weight charge	Type*	Mk. or Mod.	Drg. No.	FUZE		C. S. C.	PRIMER	PROJECTILE																																																																																																																																																																																																																																																																																																																																											
								Wt.	Kind		Type	Drg. No.														Drg. No.	Drg. No.			Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.

S.=Issue.

M.=Manufacture.

P. D.=Point detonating.

B. D.=Base detonating.

C. S. C.=Cartridge storage case.

B. & I.=Base and increment.

M. S.=Multisection.

* Guns in emplacements fitted with electrical equipment use electric primer for seacoast cannon, Drawing 74-5-18, with friction primer Mod. '14 for emergency use.

† Use packing box shown on Drawing 76-8-3 for friction primer Mod. '14.

‡ For use against land targets (railway mount).

§ Shipped uncanted with rope grommet.

|| For other details of manufacture see Drawings 75-10-19 and 20. Earlier models are also on hand in seacoast defenses.

¶ A. P. shot and shell issued since January 1, 1923, approximately, have been fitted with Mk. X. B. D. fuzes. Those issued prior were equipped with earlier types of fuzes.

° Single section charges shown on Drawings 71-9-16 and 17 were issued prior to 1920.

△ Approximately 10,000 loaded and fuzed projectiles received from the Navy Dept. (Mk. VII; VIII; VIII Mods. 1, 4, 5; Mk. XII; Mk. XIII; Mk. XIV Mods. 4, 5B, 5D, 8; Mk. XV Mods. 1, 2, 3, and 5).

U. S. GOVERNMENT PRINTING OFFICE: 1937

** For other details of manufacture see Drawing 75-10-22. Earlier models are also on hand in seacoast defenses.

†† For other details of manufacture see Drawings 75-10-35, 36, 37, 39, 40, 42, 43, 44, and 45.

‡‡ No provision has been made for 975-lb. target practice projectile. If required, see Drawing 75-10-38.

NOTE.—For primer protector cap see Drawing 71-9-34.
ISSUED—August 15, 1924. REVISED—March 1, 1932.

AMMUNITION (SEPARATE LOADING) FOR 14-INCH SEACOAST GUNS, MODELS '07, '07MI, '09, '10, '10MI, '20MI, AND MII

14-in. Gun

NOTES	CANNON	COM- PLETE ROUND DRG. No.	PROJECTILE										ADAPTER AND BOOSTER OR DETONATOR		FUZE			BASE COVER		CARTRIDGE BAG		PROPELLING CHARGE		PRIMER			PACKING BOXES					ASSEMBLY NO.																																																																																																																																																																																																																																																																																																																																						
			Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING				Mk. No.	Drg. No.	Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	Mk. or Type*	Drg. No.	Nominal weight	Kind	Type †	Mk. or Mod.	Drg. No.	FUZE		C. S. C.		PRIMER	PROJECTILE OR ROUND																																																																																																																																																																																																																																																																																																																																				
								Wt.	Kind		Type	Drg. No.	Drg. No.	Drg. No.															Drg. No.	Drg. No.				Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.

S. = Issue.
M. = Manufacture.
B. D. = Base detonating.
C. S. C. = Cartridge storage case.
N. C. = Nitrocellulose or pyrocellulose powder.
Elec. = Electric.
Comb. = Combination electric and percussion.

*Charges issued since 1920 for 14-inch guns have been multisectional charges. Those issued prior were single-section charges.
†Guns in emplacements fitted with electrical equipment use electric primer for seacoast cannon. Drawing 74-5-18, with friction primer for emergency use.
‡Use packing box shown on Drawing 76-8-8 for friction primer Mod. '14.
§Common steel shell are normally assigned to railroad mounts only, but may be used in certain cases for land defense purposes with fixed mounts.
¶A. P. shot and shell issued since January 1, 1923, approximately, have been fitted with Mk. X B. D. fuze. Those issued prior were equipped with earlier types of fuzes.

° See also Drawings 75-11-32, 36, and 39.
See also Drawings 75-11-12, 15, 17, and 44. } Other models also on hand in seacoast defenses.
** See also Drawings 75-11-11 and 16.
‡ A supply of approximately 700 Class B Navy projectiles, Mk. IX Mod. 2, Drg. 54671, are on hand to be used as a substitute for 75-11-48 for target practice.
NOTE.—For primer protector cap see Drawing 71-9-34.

ISSUED—August 15, 1924.
REVISED—March 1, 1932.

Sheet No. 18

AMMUNITION (SEPARATE LOADING) FOR 16-INCH SEACOAST GUNS, MODELS '95, '19, '19MII, '19MIII, AND MK. II (NAVY)

16-in. Gun

NOTES	CAN- NON	COMPLETE ROUND DRG. NO.	PROJECTILE										FUZE			BASE COVER		CARTRIDGE BAG		PROPELLING CHARGE		PRIMER			PACKING BOXES						ASSEMBLY NO.																																																																																																																																																																																																																																																																																																																																								
			Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	Mk. or Type	Drg. No.	Nominal weight	Kind	Type†	Mk. or Mod.	Drg. No.	FUZE		C. S. C.	PRIMER		PROJECTILE OR ROUND																																																																																																																																																																																																																																																																																																																																									
								Wt.	Kind		Type	Drg. No.													Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.

S. = Issue. B. D. =
M. = Manufacture. C. S. C.
S. S. = Single section.
N. C. = Nitrocellulose or pyrocellulose powder.

B. D.=Base detonating.
C. S. C.=Cartridge storage case.

* A. P. projectiles issued since January 1, 1923, approximately, have been fitted with Mk. X B. D. fuze. Those issued prior were equipped with earlier types.
† See also Drawings 75-11-37 and 43.
‡ For primer protector cap see Drawing 71-9-34.
§ Guns in emplacements fitted with electrical equipment, use electric primer for sea-coast cannon, Drg. 74-5-18, with friction primer for emergency use.

¶ A supply of Mk. II drill projectiles, Drg. 72-1-49, is on hand and will be issued until exhausted.

▽ This design is obsolete, but replacement parts may be ordered from this drawing.

⊕ Unserviceable A. P. projectiles may be used for target practice in lieu of cast-iron projectiles.

ISSUED—August 15, 1924.

ISSUED—August 15, 1924.
REVISED—March 1, 1932.
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NOTE.—Assemblies 1 to 3, inclusive, each require one (1) swivel loop, Drg. 82-3-135.
Assemblies 1 and 3 each require, in addition, one (1) safety clip; assembly 2, two (2) safety clips, Drg. 82-3-155.
Assemblies 1 to 3, inclusive, each require an 0.064 dia. hard drawn, low brass wire of the following lengths:
Assemblies Nos. 1 and 3, 30 inches.
Assembly No. 2, 56 inches.
△ Two primer-detonators, 1 instantaneous and 1 delay, are to be supplied for assemblies 1 and 3; 3 primer-detonators, 1 instantaneous and 2 delay, are to be supplied for assembly No. 2; 1 delay primer-detonator always to be used in the tail of bomb. Either an instantaneous or delay primer-detonator to be used in nose.

ISSUED—August 15, 1924.
REVISED—March 1, 1932.

NOTES.—Assemblies 1 to 8, inclusive, each require one (1) swivel loop, Drg. 82-3-135, and two (2) safety clips, Drg. 82-3-155. In addition to the above, an 0.064 dia. hard drawn, low brass wire of the following lengths is required:
Assemblies Nos. 1 and 2, 60 inches.
Assemblies Nos. 3 and 4, 74 inches.
Assembly No. 5, 84 inches.
Assemblies Nos. 6, 7, and 8, 127 inches.

S. = Issue.
M. = Manufacture.

U. S. GOVERNMENT PRINTING OFFICE: 1933

ISSUED—August 15, 1924.
REVISED—March 1, 1932.

S.—Issue.
M.—Manufacture.

* From stock of unloaded demolition bombs, Mk. I series.
** Primer-detonator assembly, Mk. I.
*** .22 cal. commercial blank cartridge which is part of fuze.
† 4 lbs. (2 standard 2-lb. charges) authorized under conditions where 2-lb. charge gives insufficient visibility.
‡ Primer-detonator assembly, Mk. I, practice.
§ Packing box for tail adapter-booster.
♠ Mk. II, instantaneous primer-detonator, Drg. 75-14-97, may be used when Mk. IIB is not available.
° Held in place by disk and spacer.
ª From stock of 40-lb., Mk. I, empty incendiary bombs.
« From stock of 40-lb., Mk. II, empty incendiary bombs.

NOTES.—Assemblies 1 to 9, inclusive, each require one (1) swivel loop, Drg. 82-3-135.
Assembly No. 1 requires in addition one (1) safety clip, Drg. 82-3-155.
Assemblies 1 to 9 inclusive, each require in addition to the above an 0.036 dia. hard drawn, low brass wire of the following lengths:
Assemblies Nos. 1, 3, and 4, 28 inches.
Assembly No. 2, 21 inches.
Assemblies Nos. 5, 6, and 7, 32 inches.
Assemblies Nos. 8 and 9, 20 inches.

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Sheet No. 23

U. S. GOVERNMENT PRINTING OFFICE: 1632

U. S. GOVERNMENT PRINTING OFFICE: 1932

SUBCALIBER AMMUNITION FOR FIELD ARTILLERY AND SEACOAST GUNS AND MORTARS

NOTES	CANNON SUB-CALIBERED	SUBCALIBER GUN OR MOUNT			PROJECTILE										FUZE			CARTRIDGE CASE		WEIGHT OF PROPELLING CHARGE	PRIMER			PACKING BOX			ASSEMBLY NO.	REMARKS	
		Caliber	Designation	Drg. No.	Kind	Type	Designation	Drg. No.	Wt. loaded and fuze	CHARGE		Material	FORGING OR CASTING		Designation	Type	Drg. No.	Designation	Drg. No.		Type □	Designation	Drg. No.	PRIMER		ROUND			
										Wt.	Kind		Type	Drg. No.										Drg. No.	Drg. No.	Drg. No.			Drg. No.
¶S. & M.	37-mm., 1916, tank	.30	M 1903	63-41-1	Bullet			B10986	Grs. 174									B45	Grs. 50			A131		76-6-44	Fixed	1			
¶S. & M.	2.24-in., Mk. II., Br. (6-pdr.).	.30	M1	63-40-1	Bullet			B10986	174									B45	50			A131		76-6-44	Fixed	2			
S. & M.	2.95-in., V. M.	×.30	Drillcartridge. M3	72-3-15	Bullet			B10986	174 Lbs.	Lbs. 0.034	Black powder.	Steel	Bar	Stock	Mk. I.	B. P.	73-2-42	Mk. I.	B6145	35			A34367		76-6-44	Fixed	3		
☒S. & M.	2.95-in., V. M.	37-mm.		63-46-1	Shell	L. E.	Mk. I.	75-2-166	1.097	0.034	Black powder.	Steel	Bar	Stock	Mk. I.	B. P.	73-2-42	Mk. I.	71-2-73	500	20-gr. perc.	Mk. IIAI.	74-2-25	76-8-9	76-1-38	Fixed	4		
☒S. & M.	75-mm. pack how., M1.	37-mm.	M5	63-53-1	Shell	L. E.	Mk. I.	75-2-166	1.097	0.034	Black powder.	Steel	Bar	Stock	Mk. I.	B. P.	73-2-42	Mk. I.	71-2-73	500	20-gr. perc.	Mk. IIAI.	74-2-25	76-8-9	76-1-38	Fixed	5		
S.	75-mm., 1897.	φ ⊙ 22.			Bullet																						6		
S. & M.	75-mm., '97, '16, and '17.	×.30		63-36-1	Bullet			B10986	Grs. 174 Lbs.										B6145	35			A34367		76-6-44	Fixed	7		
S. & M.	75-mm., '16 and '17.	37-mm.	1916A1	63-28-1	Shell	L. E.	Mk. I.	75-2-166	1.097	0.034	Black powder.	Steel	Bar	Stock	Mk. I.	B. P.	73-2-42	Mk. I.	71-2-73	500	20-gr. perc.	Mk. IIAI.	74-2-25	76-8-9	76-1-38	Fixed	8		
☒S. & M.	75-mm., 1897.	37-mm.	M2	63-45-1	Shell	L. E.	Mk. I.	75-2-166	1.097	0.034	Black powder.	Steel	Bar	Stock	Mk. I.	B. P.	73-2-42	Mk. I.	71-2-73	1,275	20-gr. perc.	Mk. IIAI.	74-2-25	76-8-9	76-1-38	Fixed	9		
S. & M.	6-in., 1897, '97MII, '08, '08MII and MII.	1.457-in.		63-7-11	Shell			75-13-2	1.057			Steel	Bar	Stock					71-2-48	1,110	20-gr. ignit.	Mk. I.	74-3-1	76-8-9	76-1-48	Fixed	10		
S. & M.	6-in., 1900 and 1903.	1.457-in.		63-7-21	Shell			75-13-2	1.057			Steel	Bar	Stock					71-2-48	1,110	20-gr. ignit.	Mk. I.	74-3-1	76-8-9	76-1-48	Fixed	11		
☒S. & M.	155-mm. how.	37-mm.	M4	63-51-1	Shell	L. E.	Mk. I.	75-2-166	1.097	0.034	Black powder.	Steel	Bar	Stock	Mk. I.	B. P.	73-2-42	Mk. I.	71-2-73	500	20-gr. perc.	Mk. I.	74-2-25	76-8-9	76-1-38	Fixed	12		
☒S. & M.	155-mm. gun	37-mm.	M1	63-42-1	Shell	L. E.	Mk. I.	75-2-166	1.097	0.034	Black powder.	Steel	Bar	Stock	Mk. I.	B. P.	73-2-42	Mk. I.	71-2-73	500	20-gr. perc.	Mk. I.	74-2-25	76-8-9	76-1-38	Fixed	13		
S. & M.	8-in., 1888 gun	1.457-in.		63-8-1	Shell			75-13-2	1.057			Steel	Bar	Stock					71-2-48	1,110	20-gr. ignit.	Mk. I.	74-3-1	76-8-9	76-1-48	Fixed	14		
S. & M.	10-in., 1888 and 1895.	1.457-in.		63-9-1	Shell			75-13-2	1.057			Steel	Bar	Stock					71-2-48	1,110	20-gr. ignit.	Mk. I.	74-3-1	76-8-9	76-1-48	Fixed	15		
S. & M.	10-in., 1900.	1.457-in.		63-9-5	Shell			75-13-2	1.057			Steel	Bar	Stock					71-2-48	1,110	20-gr. ignit.	Mk. I.	74-3-1	76-8-9	76-1-48	Fixed	16		
S. & M.	12-in., 1888 and 1895.	1.457-in.		63-10-1	Shell			75-13-2	1.057			Steel	Bar	Stock					71-2-48	1,110	20-gr. ignit.	Mk. I.	74-3-1	76-8-9	76-1-48	Fixed	17		
S. & M.	12-in. mortar, '90, '90M1, '08, and '12.	2.95-in.	Type 1B	63-12-11	Shot	Solid		75-13-6	18.00			Cast iron							71-2-11	(i) Lbs. .45	110-gr. ignit.		74-3-2	76-8-9	76-1-31	Fixed	18		
Δ#S. & M.	12-in. mortar, '90, '90M1, '08, and '12.	2.95-in.	Type 1B	63-12-11	Shell	H. E.	Mk. I.	75-2-164	12.18	1.75	Sand	Steel	Forg.	75-20-1	Mk. IV	P. D.	73-1-81		71-2-11		110-gr. ignit.		74-3-2	76-8-9	76-1-66	Fixed	19		
☒ΔS. & M.	12-in., 1895, '95 M1	75-mm.	M1	15-13-17	Shell	II. E.	Mk. I.	75-2-164	12.18	1.75	Sand	Steel	Forg.	75-20-1	Mk. IV	P. D.	73-1-81		71-2-71		100-gr. perc.	M1	74-2-23	76-8-29	76-1-66	Fixed	20		
S. & M.	12-in., 1900.	1.457-in.		63-10-16	Shell			75-13-2	1.057			Steel	Bar	Stock					71-2-48	Grs. 1,110	20-gr. ignit.	Mk. I.	74-3-1	76-8-9	76-1-48	Fixed	21		
S. & M.	14-in., '07, '07MII, '09, '10M1, '20.	1.457-in.		63-24-1	Shell			75-13-2	1.057			Steel							71-2-48	Lbs. 1.72	20-gr. ignit.	Mk. I.	74-3-1	76-8-9	76-1-48	Fixed	22		
ΔS. & M.	14-in., 1910 M1	75-mm.	T1	63-48-1	Shell	H. E.	Mk. I.	75-2-164	12.18	1.75	Sand	Steel	Forg.	75-20-1	Mk. IV	P. D.	73-1-81		71-2-71		100-gr. perc.	M1	74-2-23	76-8-29	76-1-66	Fixed	23		
☒ΔS. & M.	14-in., M1920 MII	75-mm.	T4	15-13-23	Shell	H. E.	Mk. I.	75-2-164	12.18	1.75	Sand	Steel	Forg.	75-20-1	Mk. IV	P. D.	73-1-81		71-2-71		100-gr. perc.	M1	74-2-23	76-8-29	76-1-66	Fixed	24		
S. & M.	16-in., 1895.	1.457-in.	Type 2F	63-24-6	Shell			75-13-2	1.057			Steel							71-2-48	Grs. 1,110 Lbs.	20-gr. ignit.	Mk. I.	74-3-1	76-8-9	76-1-48	Fixed	25		
☒ΔS. & M.	16-in., 1919, MII and MIII.	75-mm.	M2	15-13-21	Shell	H. E.	Mk. I.	75-2-164	12.18	1.75	Sand	Steel	Forg.	75-20-1	Mk. IV	P. D.	73-1-81		71-2-71		100-gr. perc.	M1	74-2-23	76-8-29	76-1-66	Fixed	26		

S. = Issue.
M. = Manufacture.
L. E. = Low explosive.
H. E. = High explosive.
Perc. = Percussion.
Ignit. = Igniting.
B. P. = Base percussion.
P. D. = Point detonating.

Zone 1. — 550 f/s., 4¼ oz.
Zone 2. — 625 f/s., 5 oz.
Zone 3. — 700 f/s., 6 oz.
‡ Issued in three zones.
Δ Mk. I shrapnel, Drg. 75-2-163, may be used if available.
⊖ For issue to National Guard only.
× Barrel chambered same as U. S. rifle M1898.

‡ Barrel shown on Drawing 42-5-5; adapter on Drawing 63-36-1.
Subcaliber gun mounted on Mod. 1917 barbette carriage.
⊖ Rounds with igniting primers take, in addition, the regular service primer for that weapon.
‡ Older type ammunition M1900, Drg. B44, may be used.
φ 22-cal. long rifle, commercial ammunition used.
‡ Primer fired with elongated firing pin.

ISSUED—August 29, 1924.

REVISED—March 1, 1932.

BLANK AMMUNITION

NOTES	NOMENCLATURE	COMPLETE ROUND DRG. NO.	CARTRIDGE CASE			PRIMER			BAG		CUP		PACKING BOX		REMARKS	ASSEMBLY No.
			Mark or Type	Drg. No.	Weight of charge	Type	Mark or Model	Drg. No.	Material	Drg. No.	Material	Drg. No.	No. of rounds	Drg. No.		
S. & M.....	37-mm. field gun (model of 1916).....	75-1-28	I.....	71-2-73	Oz. 1.5	20-gr. perc.....	IIAI.....	74-2-25	(†)		Chip board	75-1-28	100	76-1-148		1
S. & M.....	2.24-inch tank gun, Mk. II (British).....			71-5-5	Lbs. 1.0	20-gr. saluting†.....		74-2-2	(†)		Chip board					2
S. & M.....	2.95-inch mountain gun.....			71-2-11	1.0	20-gr. saluting†.....	I.....	74-2-2	(†)		Chip board					3
																4
S. & M.....	75-mm. field gun (model of 1897, 1916, and 1917).....	75-1-30		71-2-99	1.0	49-gr. perc.....	I.....	74-2-18	(†)	75-1-30	Chip board	75-1-30	20	76-1-159		5
S. & M.....	75-mm. pack howitzer, M1.....	75-1-30		71-2-99	1.0	49-gr. perc.....	I.....	74-2-18	(†)	75-1-30	Chip board	75-1-30	20	76-1-159		6
S. & M.....	3-inch W. I. saluting gun (2.24-inch case).....	75-1-29	III.....	71-5-5	1.0	20-gr. saluting†.....	I.....	74-2-2	(†)	75-1-29	Chip board	75-1-29	20	76-1-152		7
																8
S. & M.....	3-inch field gun.....	75-1-31		71-2-66	1.0	20-gr. saluting†.....	I.....	74-2-2	(†)	75-1-31	Chip board	75-1-31	20	76-1-159		9
																10
S. & M.....	3-inch 15-pdr. and A. A. gun (model of 1903 and 1917).....	75-1-32		71-6-19	1.0	20-gr. saluting†.....	I.....	74-2-2	(†)	75-1-32	Chip board	75-1-32	10	76-1-141		11
																12
S. & M.....	3-inch 15-pdr. and A. A. gun (model of 1898, 1902, and 1918).....	75-1-33		71-5-6	1.0	20-gr. saluting†.....	I.....	74-2-2	(†)	75-1-33	Chip board	75-1-33	10	76-1-145		13
																14
																15
																16
																17
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																24

† Flare is held by side clip in vertical position before being released by Air Corps special launching device, or is held horizontally by two suspension bands, Drg. 78-2-143, before being released from standard bomb racks.

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