

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

ROCKET, HIGH EXPLOSIVE, 2.75-INCH; ROCKET, PRACTICE 2.75-INCH; ROCKET, TARGET MARKER 2.75-INCH; AND ROCKET, WHITE PHOSPHOROUS 2.75-INCH FOR ROCKET LAUNCHER XM3; DESCRIPTION AND USE

Headquarters, Department of the Army, Washington, D.C.
19 April 1965

TB9-1950/1, 22 January 1964, is changed as follows:

Page 1, change the title to read—

Rocket, High Explosive 2.75-Inch

Rocket, Practice 2.75-Inch:

Rocket, Target Marker 2.75-Inch:

and Rocket, White Phosphorous 2.75-Inch
for Rocket Launcher XM3;

Description and Use

3. Classification (Superseded). Ammunition for this rocket launcher consists of the following types which are classified according to the warhead as high-explosive (HE) and practice.

a. The high-explosive (HE) warhead (fig. 1 and fig. 1.1), which contains a high explosive charge is intended for blast, fragmentation, or demolition effect.

b. The practice warhead, which simulates the service warhead, has an inert warhead and inert fuze, and is intended for target practice purposes.

c. The target marker high-explosive (HE) warhead (fig. 1.1), which contains explosive and smoke dye is intended for blast, fragmentation and demolition effect and for target marking. Target marker heads are available in yellow and red smoke.

d. The white phosphorous (WP) warhead, which contains a burster charge of high explosive (HE) and white phosphorous, is used for marking targets with white smoke.

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4. Identification.

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b. Painting. Warheads are painted * * * marking in black.

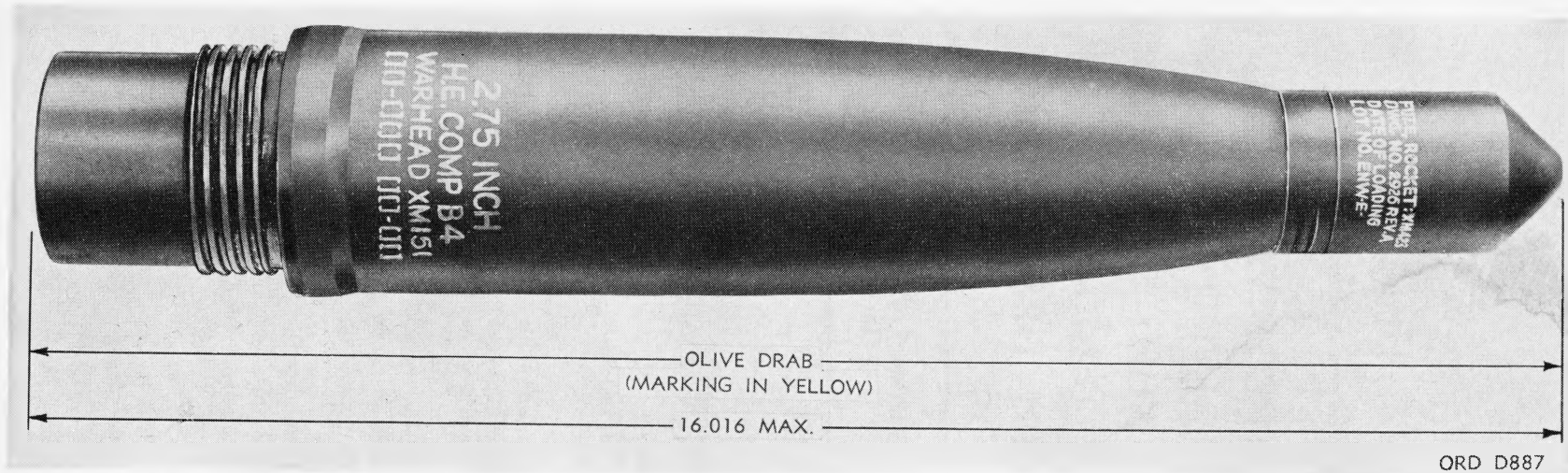
<i>Type of Warhead</i>	<i>Color and Marking</i>
High-Explosive	Green; marking in yellow
Practice	Blue; marking in white

6. Authorized Rounds (Superseded). Ammunition authorized for use in the rocket launcher XM3 is listed in Table I. Standard nomenclature, which is used in the listing completely identifies the ammunition except for ammunition lot number.

a. Warhead

(1) *High-explosive warhead Mk 2 and Mods.*

This high-explosive warhead (fig. 1) consists of a steel casing containing a 1.40 pound HBX-1 explosive charge. The warhead is internally threaded at the nose to receive the fuze and externally threaded at the base to engage the

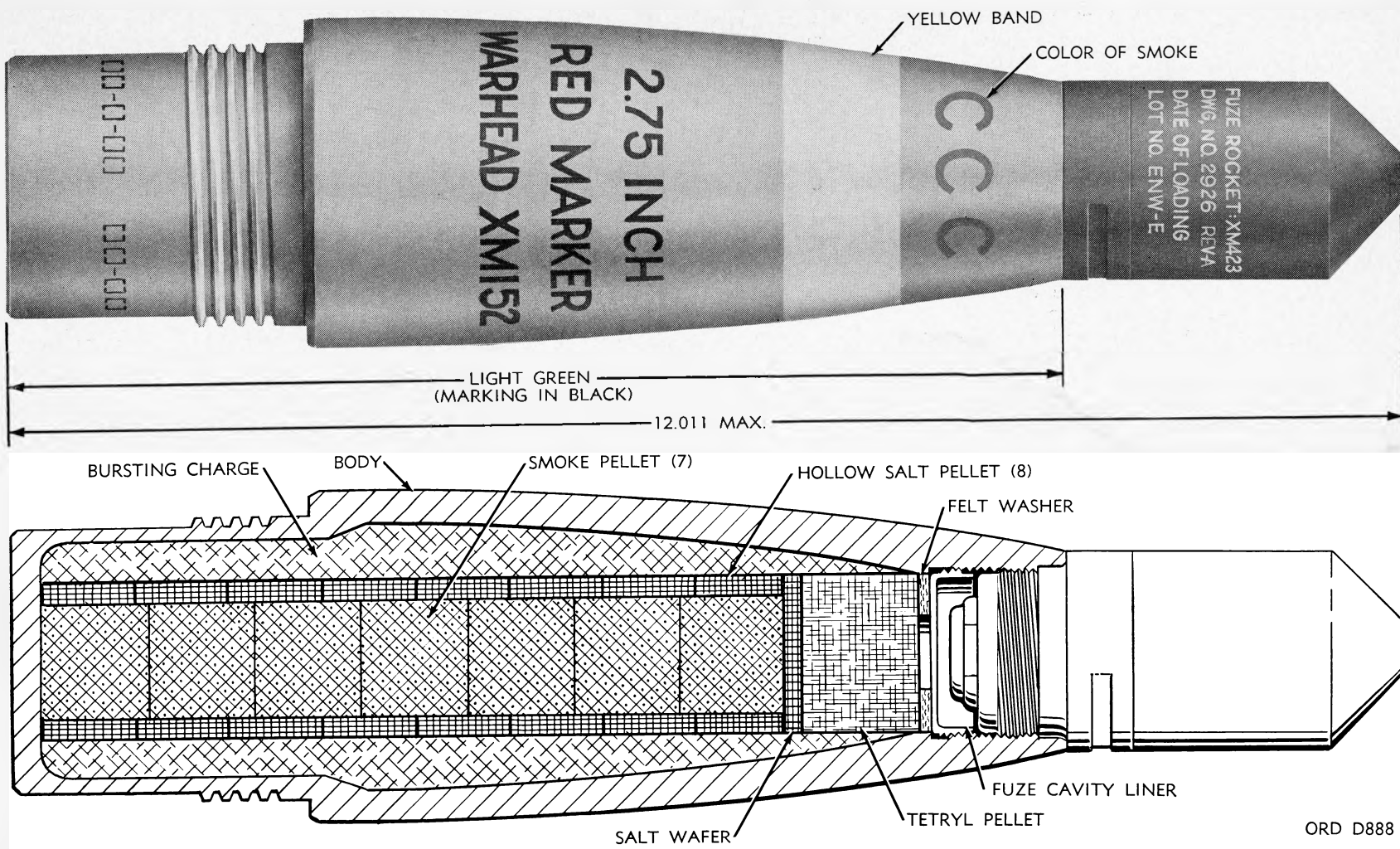


ORD D887

Figure 1.1 (added) Warhead 2.75-inch rocket, HE, XM151 with rocket fuze, PD, XM423E1.

TAGO 1486A

TAGO 1486A



ORD D888

Figure 1.2 (added) Target marker (HE) warheads XM152 or XM153.

motor. A threaded cup-shaped cavity liner is screwed in the nose.

Note. Warhead Mk 2 and Mods uses Mk 1 and Mods metal parts and is marked Mk 1 and Mods.

- (2) *High-explosive (HE) warhead XM151.* This high-explosive warhead (fig. 1.1), consists of a pearlitic malleable iron casing containing a charge of COMP B4 explosive. The warhead is internally threaded at the nose to receive the fuze and externally threaded at the base to engage the rocket motor.
- (3) *Practice warhead Mk 1 and Mods.* This practice warhead is similar to the high-

explosive warhead, except that it is inert loaded. The metal parts used are the Mk 1 and Mods parts.

- (4) *Target Marker (HE), red smoke warhead XM152.* This target marker (fig. 1.2), loaded with Baratol bursting charge, red smoke dye pellets, salt pellets and a tetryl pellet, uses modified Mk 1 and Mods metal parts.
- (5) *Target marker (HE), yellow smoke XM153.* This target marker (fig. 1.2), loaded with Baratol bursting charge, yellow smoke dye pellets, salt pellets, and a tetryl pellet, uses modified Mk 1 and Mods metal parts.

Table I (Superseded) Authorized Rounds

Standard nomenclature	Warhead		Motor		Fuze action	Fuze	
	Weight (lb)	Length (in.)	Weight (lb)	Length (in.)		Weight (lb)	Length (in.)
ROCKET, HIGH EXPLOSIVE, 2.75-INCH: LSFFAR (unassembled) consists of: Warhead, 2.75-inch Mk 2 and mods (HBX-1 loaded) w/Fuze, PD, Mk 178 and mods or Mk 176 and mods and Rocket motor, 2.75-inch, Mk 40 and mods w/ propellant grain, Mk 31 and mods or Mk 43 and mods.	5. 72	8. 88	12. 70	39. 92	Delay (Mk 176) Superquick (Mk 178).	0. 75	2. 98
ROCKET, HIGH EXPLOSIVE, 2.75-INCH: LSFFAR (unassembled) consists of: Warhead, 2.75-inch Rocket, HE: XM151 (COMP B4 loaded) w/Fuze, Rocket, PD, XM423E1.	8. 60	12. 90	12. 70	39. 92	Superquick (XM 423E1).	1. 00	4. 03
ROCKET, PRACTICE, 2.75-INCH: LSFFAR (unassembled) consists of: Warhead, 2.75-inch, Mk 1 and inert loaded and Rocket motor, 2.75-inch Mk 40 and mods w/ propellant grain, Mk 31 and mods or Mk 43 and mods.	5. 72	8. 88	12. 70	39. 92	Dummy nose fuze for 2.75-inch rocket warhead.	. 75	2. 83
ROCKET, TARGET MARKER, HIGH EXPLOSIVE, 2.75-INCH: LSFFAR (unassembled) consists of: Warhead, 2.75-inch XM152 Baratol loaded yellow smoke w/Fuze, Rocket, PD, XM423E1.	5. 90	8. 88	12. 70	39. 92	Superquick (XM 423 or XM423E1).	1. 00	4. 03
ROCKET, TARGET MARKER, HIGH EXPLOSIVE, 2.75-INCH: LSFFAR (unassembled) consists of: Warhead 2.75-inch XM153 Baratol loaded yellow smoke w/Fuze, Rocket, PD, XM423E1.	5. 90	8. 88	12. 70	39. 92	Superquick (XM 423 or XM423E1).	1. 00	4. 03
ROCKET, WHITE PHOSPHOROUS (WP) 2.75-INCH: LSFFAR (unassembled) consists of: Warhead 2.75-inch E12 high-explosive and White Phosphorous loaded w/Fuze, Rocket, PD, XM423E1.	6. 00	8. 88	12. 70	39. 92	Superquick (XM 423 or XM423E1).	1. 00	4. 03

- (6) *White phosphorous (WP) warhead E12.*
This warhead, filled with white phosphorous and COMP B bursting charge, uses modified Mk 1 and Mods metal parts.

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7. Fuzes.

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c. *Fuze, PD: Mk 176 and Mods*

* * * * *

- (2) *Preparation for firing.* No preparation of * * * firing is required.

Page 2.

e. (Added) *Fuze, PD: XM423 and XM423E1*

- (1) *Description.* This fuze is of the acceleration-arming, point-detonating type.

By Order of the Secretary of the Army:

Official:

J. C. LAMBERT,
Major General, United States Army,
The Adjutant General.

This fuze is designed for superquick action; there is no delay element in the rotor, between the primer and the detonator. The fuze incorporates a rotor, an unbalanced escapement in the timing mechanism, a booster cup, and a cylindrical outer ogive and striker to assure functioning at low angles of impact. The fuzes XM423 and XM423E1 have a short arming time for use at short ranges by helicopters, etc. Fuze XM423 and XM423E1 differ internally, externally the fuzes are the same. Fuze XM423 uses Primer Mk125 while fuze XM423E1 uses Primer XM94E1.

- (2) *Preparation for firing.* No preparation of the fuze for firing is required.

HAROLD K. JOHNSON,
General, United States Army,
Chief of Staff.

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Units organized under following
TOE's:
9-500(Tms BB,IA,KA,KB,KC)
(1)

NG: State AG (3); Units—Same as Active Army except allowance is one copy to each unit.

USAR: None.

For explanation of abbreviations used see AR 320-50.