DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

OPERATOR, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INFORMATION FOR CARTRIDGE, 60MM: TARGET PRACTICE (SR), M766 (NSN 1410-01-216-2706)

Approved for public release; distribution is unlimited.

Headquarters, Department of the Army, Washington, DC
31 March 1998

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. You may mail, e-mail, or FAX your response. Mall your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, U.S. Army TACOM, Armament Research, Development and Engineerin Center, ATTN: AMSTA-AR-WEL, Picatinny Arsenal, NJ 07806-5000. E-mail address is LSB@PICA.ARMY.MIL. FAX number is Commercial (973) 724-4633, DSN 880-4633. A reply will he furnished to you.

		Page
SECTION I	INTRODUCTION	
	1. Purpose	1
	2. General	1
SECTION II	INFORMATION AND PROCEDURES TO BE INCORPORATED INTO OPERATOR/MAINTENANCE TECHNICAL MANUALS	
	3. General	2
	4. Type Classification, Use, Description, Functioning and Tabulated Data	2
	5. Unit Maintenance	4
	6. Unit/Direct/General Support Maintenance	4
	7. Markings	5
	8. Operator Procedures	6

SECTION I. INTRODUCTION

1. Purpose. The purpose of this bulletin is to provide supplemental operator/maintenance level information for Cartridge, 60mm: Target Practice (SR), M766. This cartridge is a short range (SK) training round for use in the 60mm M224 Mortar System. The cartridge consists of a PD (practice) fuze, a hollow body with vent holes, a tin assembly, three increment plugs, three dud plugs, an obturating ring, and an ignition cartridge.

2. General. This bulletin contains data that will be incorporated into the following ammunition and weapon technical manuals:

a. TM 43-0001-28 - Army Ammunition Data Sheets, Artillery Ammunition for Guns, Howitzers, Mortars, Recoilless Rifles, Grenade Launchers, and Artillery Fuzes.

b. TM 9-1300-251-20 - Organizational Maintenance Manual Artillery Ammunition for Guns, Howitzers, Mortars, Recoilless Rifles, and 40mm Grenade Launchers.

c. TM 9-1300-251-34 - Direct Support and General Support Maintenance Manual, Artillery Ammunition for Guns, Howitzers, Mortars, Recoilless Rifles, and 40mm Grenade Launchers.

d. TM 9-1010-223-10 - Operator's Manual for Lightweight Company Mortar, 60mm: M224 (1010-01-020-5626).

SECTION II. INFORMATION AND PROCEDURES TO BE INCORPORATED INTO OPERATOR/MAINTENANCE TECHNICAL, MANUALS

3. General. The information in the following paragraphs will be incorporated as changes to the ammunition chapter of the effected manuals.

4. Type Classification, Use, Description, Functioning, and Tabulated Data.

a. Type Classification, Std. 29 May 93.

b. Use. This cartridge is a short range (SR) training round for use in the 60mm M224 Mortar System.

c. Description. The Cartridge, 60mm: Target Practice (SK), M766 (fig. 1) consists of a M779 PD (practice) fuze, a hollow body with vent holes, a fin assembly, three increment plugs, three dud plugs, an obturating ring, and an ignition cartridge.

d. Functioning. When the cartridge is loaded into the mortar tube, it slides down the tube until the primer in the ignition cartridge strikes the firing pin in the base cap of the mortar. The primer ignites the ignition cartridge, the gases generated propel the cartridge out of the barrel and the cartridge travels downrange. The distance depends on the number of plastic increments removed (before firing) and the amount of gas allowed to escape from the mortar tube through the projectile body. The fuze functions on impact with the ground or target. A pyrotechnic smoke cartridge in the fuze produces a flash, an audible sound and a cloud of smoke (simulation of the HE cartridge function). Upon fuze functioning, the dud plugs are expelled from the projectile body. Any dud plugs remaining in the projectile body indicate a possible dud.

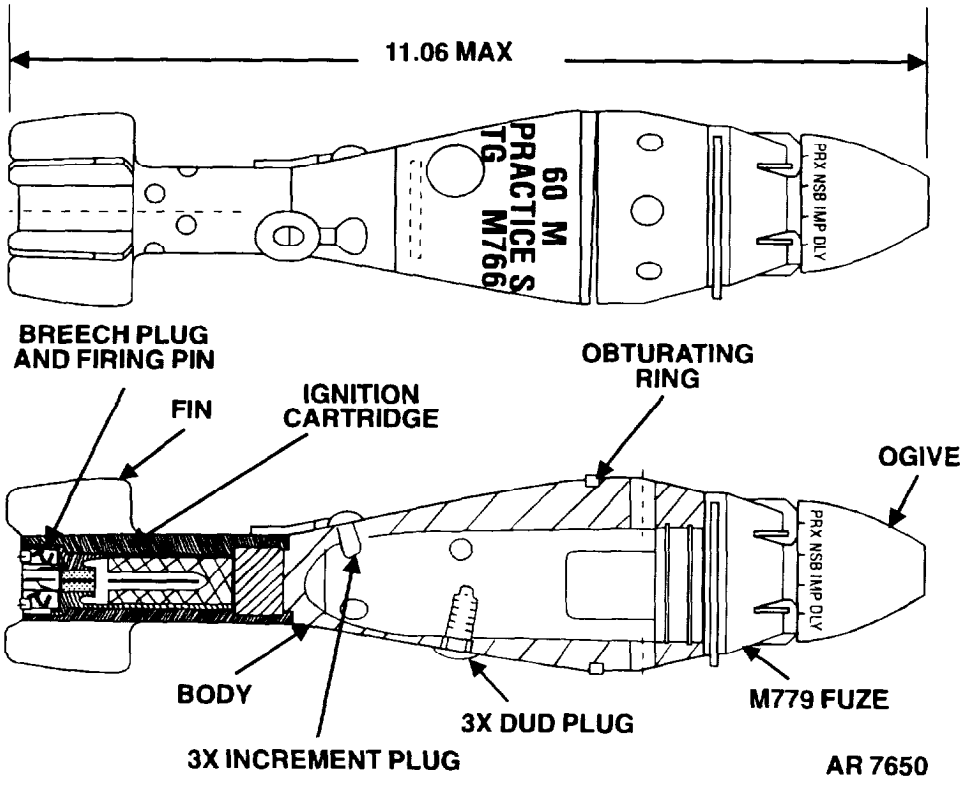

Figure 1. Cartridge, 60MM: Target Practice (SR), M766 with Fuze Point Detonating (PD), M779