

TM 9-1375-213-12

TECHNICAL MANUAL

**OPERATORS AND ORGANIZATIONAL MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)**

DEMOLITION MATERIALS

HEADQUARTERS, DEPARTMENT OF THE ARMY

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TECHNICAL MANUAL
OPERATOR'S AND UNIT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)
for
DEMOLITION MATERIALS

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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*This manual supersedes TM 9-1375-200, dated 28 January 1964, including all changes; and together with TM 9-1375-213-34, 30 March 1973 and TM 750-244-5-1, 12 May 1972 supersedes TM 9-1375-203-15, 18 July 1969, including all changes.

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CHAPTER 1

INTRODUCTION

Section 1. GENERAL

1-1. Scope

a. This manual provides the user with operating instructions, operator and organizational maintenance procedures,

b. Refer to FM 5-25 for calculation and placement of charges, and doctrine on demolition projects.

1-2. Forms, Records, and Reports

a. Forms. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. Field Report of Accidents. Accidents involving injury to personnel or damage to materiel will be reported on DA Form 285, US Army Accident Investigation Report, in accordance with AR 385-40.

c. Report of Damaged or Improper Shipment. Materiel received in damaged or otherwise unsatisfactory condition because of deficiencies in preservation, packaging, marking, loading, storage, or handling will be reported on SF 364, Report of Discrepancy, in accordance with AR 735-11-2. Reports of improper shipment or damage caused by transportation discrepancies will be reported on SF 361 in accordance with AR 55-38.

d. Malfunctions Involving Explosives.

(1) Ammunition malfunction reports from Army activities will be reported as prescribed in AR75-1.

(2) A malfunction is the failure of a demolition charge, item or device to function in accordance with the expected performance when fired, or when explosive components function during a nonfunctional test. A critical malfunction is one which may cause a hazard in the circumstances described above. Malfunctions do

not include accidents and incidents resulting from negligence, malpractice, or implication in other situations such as vehicle accidents or fires. However, malfunctions do include abnormal or premature function of explosive items during normal handling, maintenance, storage, transportation, and tactical deployment.

(3) If a malfunction involving this material occurs, *firing of the affected lot will be halted immediately.* The commanding officer or senior individual in charge of the unit will immediately contact the officer under whose supervision the ammunition for the unit involved is maintained or issued and will report all available facts concerning the malfunction.

e. Report of Defective or Unsatisfactory Nonexplosive Equipment. Report and turn-in for replacement or repair of non-explosive equipment (e. g., blasting machines, tools, etc.) which is found defective or develops problems in use. Report such equipment by completing SF 368 as prescribed in TM 38-750. Forward completed SF 368, Quality Deficiency Report, to managing activity having managing supply responsibility for the equipment. Managing activity is specified in SC 1375-95-CL-P02.

1-3. Reporting of Errors

Deleted.

1-4. Destruction of Ammunition to Prevent Enemy Use

Destruction of demolition materials when subject to capture or abandonment will be undertaken by the user only when, in the judgment of the unit commander concerned, such action is necessary in accordance with orders of, or policy established by, the Army Commander. (Refer to TM 750-244-5-1).

Section II. DESCRIPTION AND DATA

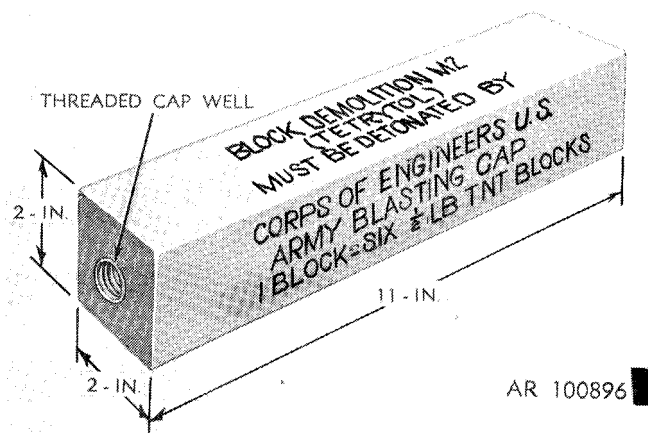


Figure 1-1. Block demolition charge M2.

1-5. General

Demolition materials described in this section consist of items listed in table 1-1.

1-5A. Color Coding

a. Ammunition is color coded to identify content or functioning. (For example, high-explosive-loaded items are painted olive drab and marked with yellow lettering.)

b. Color coding standards have been altered over the years, one reason being to achieve international standardization. This has resulted in more than one version of an item in the field; e.g., in the case of inert, practice, and training items there are three distinct generations in the field:

(1) The oldest, designated “inert,” was painted black. The black color was also used on inert sections (projectiles) of fixed artillery rounds which had live, loaded cartridge cases.

(2) The second generation, designated “training” or “practice,” was painted blue. Training items are completely inert and practice items may or may not contain explosive sections such as propellant charges or spotting charges. Practice items containing such explosive sections are indicated by an olive drab band.

(3) The newest generation merely has the inert, training items painted bronze, while practice items are blue, or blue with a brown or yellow stripe.

c. The color of an ammunition item is never to be changed without specific authorization for the items and lot(s) involved. Such authorization will not normally be given to maintenance levels below depots except for non-explosive items.

1-6. General Use—Demolition Charges

(Refer to table 1-2 for additional characteristics.)

a. Charge, Demolition: Block, M2 (2½-Pound).

(1) *Description.* This charge is a block of 75-25 tetrytol with a tetryl booster pellet and a threaded metal cap well cast in each end. Each block is wrapped in olive-drab, asphalt-impregnated paper.

(2) *Uses.* Tetrytol is more powerful and more brilliant than TNT and is effective as a cutting or breaching charge. It may be used as an alternate to TNT in general demolition work.

Table 1-1. Demolition Material Data

Description	Model designation	Department of Defense identification code (DODIC)	Color coding
Charge, Demolition: block	M2	M036	Olive drab w/yellow markings
	M3	M037	
	M5A1	M038	White or gray w/black markings
	M112	M023	Gray or olive drab w/yellow markings
	M118	M024	Olive drab w/yellow and black markings
block, TNT: ¼-pound		M030	Olive drab w/yellow markings (Yellow plastic is an alternate container material for ¼ lb TNT block.)
½-pound		M031	
1-pound		M032	
block, 40-pound, cratering		M039	

Table 1-1. Demolition Material Data - Continued

Description	Model Designation	Department of Defense Identification Code (DODIC)	Color Coding
roll	M186	M060	Olive drab w/yellow and black markings
shaped	M2A3 and M2A4	M420	Olive drab w/yellow markings
	M3 and M3A1	M421	
Charge Assembly, Demolition: Dynamite, Military	M183	M757	Olive drab w/black markings
	M37	M756	Tan w/black markings
	M1	M591	
Explosive Demolition Accessories:			
Cap, Blasting:	J-2, type II	M130	Unpainted
electric	M6		
Booster:			
Demolition Charge			
10 ft PETN Detonating Cord	M151	MN68	Black
30 ft PETN Detonating Cord	M152	MN69	Black