

TECHNICAL MANUAL

ARMY AMMUNITION DATA SHEETS

FOR

LAND MINES

(FSC 1345)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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HEADQUARTERS
 DEPARTMENT OF THE ARMY
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**ARMY AMMUNITION DATA SHEETS
 (LAND MINES (FSC 1345))**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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	<u>Page</u>
CHAPTER 1. INTRODUCTION	1-1
Purpose	1-1
Scope	1-1
Metric Conversion Chart.....	1-1
Key to Abbreviations and Symbols.....	1-1
Quantity-Distance Classes and Storage Compatibility Group.....	1-1
CHAPTER 2. ANTITANK MINES AND AERIALY DISPERSED ANTITANK/ANTIVEHICLE MINES	
Section I. Mines, Antitank	
Mine, Antitank: HE, Heavy, M15	2-3
Mine, Antitank: HE, Nonmetallic, M19	2-5
Mine, Antitank: HE, Heavy, M21	2-7
Mine, Antitank: HE, M24	2-9
Mine, Antitank: HE, M66	2-11
Mine, Antitank: HE, M75	2-13
Section II. Mines, Aerially Dispersed, Antitank/Antivehicle Mines	
Mine Dispersing Subsystem, Aircraft: M56	2-17
CHAPTER 3. ANTIPERSONNEL MINES	
Mine, Antipersonnel: M2A4 (M2A4B2).....	3-3
Mine, Antipersonnel: M3.....	3-5
Mine, Antipersonnel: M14.....	3-7
Mine, Antipersonnel: M16 (M16A1, M16A2)	3-9

*This manual supersedes TM 43-0001-36, 14 February 1977, including all changes.

CHAPTER 3.	ANTIPERSONNEL MINES (Continued)	
	Mine, Antipersonnel: M18A1	3-13
	Mine, Antipersonnel: M26.....	3-15
	Mine, Antipersonnel: HE, M74.....	3-17
	Mine, Antipersonnel: M86, Pursuit Deterrent Munition (PDM)	3-21
CHAPTER 4.	CHEMICAL AGENT MINES	
	Mine, Chemical Agent, VX: M23.....	4-3
CHAPTER 5.	PRACTICE, INERT, TRAINING, AND DUMMY ITEMS	
	Mine, Antipersonnel, Practice: M8 (M8A1).....	5-3
	Mine, Antitank, Practice, Light: M10	5-5
	Mine, Antitank, Practice: M12 Series.....	5-7
	Mine, Antipersonnel: M16A1, Inert	5-9
	Mine, Antipersonnel, Training: M81	5-11
	Mine, Antitank, Training: M80.....	5-13
	Mine, Antitank, Practice, Heavy: M20.....	5-15
	Mine, Antipersonnel, Practice: M35	5-17
	Mine, Antipersonnel, Practice: M68	5-19
	Mini, Antitank, Practice: M69.....	5-21
	Activator, Antitank Mine, Practice: M1.....	5-23
	Mine, Antitank, Practice: M79.....	5-25
	Fuze, Mine, Antitank: M603, Inert.....	5-27
	Fuze, Mine, Antitank, Practice: M604	5-29
	Fuze: M606, Inert.....	5-31
CHAPTER 6.	ACTIVATORS AND FUZES	
	Activator, Antitank: M1 (M2).....	6-3
	Burster, Field, Incendiary: M4.....	6-5
	Fuze, Mine, Combination: M6A1	6-7
	Fuze, Mine, Combination: M7A1	6-9
	Fuze, Mine, Combination: M10 (M10A1, M10A2)	6-11
	Fuze, Mine, AT: M603.....	6-13
	Fuze, Mine, Combination: M605.....	6-15
	Fuze, Mine, Antitank, Nonmetallic: M606	6-17
	Fuze, Mine, Antitank: M607.....	6-19
	Fuze, Mine, Antitank: M608.....	6-21
	Fuze, Mine: M624	6-23
CHAPTER 7.	PROJECTILES WITH ANTITANK MINES	
	Projectile, 155 Millimeter: AT, M718 and M718A1 with Antitank Mines	7-3
	Projectile, 155 Millimeter: AT, M741 and M741A1 with Antitank Mines	7-5
CHAPTER 8.	MINE CANISTERS	
	Canister, Mine: M87	8-3
	Canister, Mine: M87A1.....	8-5
	Canister, Mine, Practice: M88	8-7
CHAPTER 9.	DISPENSER AND MINES	
	Dispenser and Mines, Ground: M131.....	9-3

CHAPTER 1 INTRODUCTION

1-1. Purpose

This manual is a reference handbook published as an aid in training, familiarization, and identification of land mines and mine fuzes. This manual is not authorization for requisition, stockage, maintenance, or issue of the materiel described herein.

1-2. Scope

a. For each item of materiel, there are illustrations and descriptions together with characteristics and related data. Included in the related data are weights, dimensions, performance data, packing, shipping and storage data, type classification, and logistics control codes (LCC).

b. Information concerning supply, operation, and maintenance of the items will be found in the publications referenced for those items. A complete listing of these publications is maintained in DA Pam 310 series indexes.

c. Within this manual, items with the following type-classifications are included:

- (1) Standard (LCC-A, LCC-B).
- (2) Contingency (CON).
- (3) Limited procurement (LP).
- (4) Reclassified obsolete (OBS) for regular Army use, but used by National Guard or Reserve units.
- (5) Reclassified OBS for all Army use, but used by Marine Corps, Air Force or Navy.
- (6) Reclassified OBS, no users, but US stocks remain. Items with the following type-classification are not included: Reclassified OBS for all U.S. use. No U.S. stocks remain. (Foreign use or stock may remain).

d. Numerical values, such as weights, dimensions, candlepower, etc., are nominal values, except when specified as maximum or minimum. Actual items may vary slightly from these values. Allowable limits can be obtained from the drawings indicated in the data sheets.

1-3. Metric Conversion Chart

For approximate conversions to/from metric measures see Table 1-1.

1-4. Key to Abbreviations and Symbols

AD	Anti-disturbance
AP.....	Armor piercing
APERS	Antipersonnel
AT/AV	Antitank/antivehicle
CON.....	Contingency
DCP.....	Dispenser control panel
E-CELL	Electrochemical cell
Frag.....	Fragmentation
HE	High-explosive
LCC	Logistics control codes
LP	Limited procurement
LVD.....	Low voltage detector
NM.....	Nonmetallic
OBS.....	Obsolete
SD	Self-destruct
VX.....	Persistent toxic (casualty) nerve gas

1-5. Quantity-Distance Classes and Storage Compatibility Groups

Quantity-Distance Classes and Storage Compatibility Groups. Quantity-Distance (QD) classes and Storage Compatibility groups (SCC) listed in this manual are changed. For conversion to new system see Table 1-2.

Table 1-1. Metric Conversion Chart

Approximate Conversions to Metric Measures				
Symbol	When You Know	Multiply By	To Find	Symbol
LENGTH				
in.	inches	2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	in.
mi	miles	1.6	kilometers	km
AREA				
in. ²	square inches	6.5	sq centimeters	cm ²
ft ²	square feet	0.009	sq meters	m ²
yd ²	square yards	0.8	sq meters	m ²
mi ²	sq miles	2.6	sq kilometers	km ²
	acres	0.4	hectares	ha
WEIGHT				
oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	tonnes	t
VOLUME				
tap	teaspoons	5	milliliters	ml
Tbsp	tablespoon	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft ³	cubic feet	0.03	cubic meters	m ³
yd ³	cubic yards	0.76	cubic meters	m ³
TEMPERATURE				
Symbol	When You Know	Subtract	Multiply To Find	Symbol
°F	Fahrenheit	32	by 0.55	Celcius ° C
Approximate Conversions from Metric Measures				
LENGTH				
mm	millimeter	0.04	inches	in.
cm	centimeters	0.4	inches	in.
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	miles	mi
AREA				
cm ²	square centimeters	0.16	square inches	in ²
m ²	square meters	1.2	square yards	yd ²
km ²	square kilometers	0.4	square miles	mi ²
ha	hectares (10,000m ²)	2.5	acres	

WEIGHT				
g	grams	0.035	ounces	
	oz			
kg	kilograms	2.2	pounds	
	lb			
t	tonnes	1.1	short tons	
VOLUME				
ml	milliliters	0.03	fluid ounces	fl oz
1	liters	2.1	pints	
	pt			
1	liters	1.06	quarts	
	qt			
1	liters	0.26	gallons	
	gal			
ms	cubic meters	35	cubic feet	ft
ma	cubic meters	1.3	cubic yards	yd ³
TEMPERATURE				
Symbol	When You Know	Multiply	Add	To Find
°C	Celcius	by 1.8	32	Fahrenheit
Symbol	When You Know	Multiply	Add	To Find
°C	Celcius	by 1.8	32	Fahrenheit

Table 1-2. Quantity-Distance Classes and Storage Compatibility Groups

Quantity-distance hazard class ^{1/}	Storage compatibility group ^{1/3/}
Old	New v
8	6.1
7	1.1
6	1.2 (18)
5	1.2 (12)
4	1.2 (08)
3	1.2 (04)
2	1.3
1	1.4
	Typical - New
	D
	E
	F
	G
	C
	S

Notes:

^{1/} New QD and SCG's are compatible with classes used by NATO nations.

^{2/} Numbers in parenthesis are minimum distance x 100 feet to protect against specific fragment hazards and vary with items and types of ammunition. (Refer to TM 9-1300-206.)

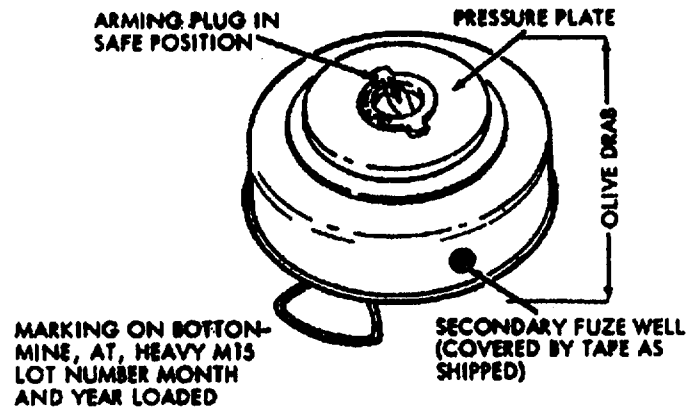
^{3/} There is no simple conversion from old SCG's to new system. The SCG groups listed in this column are typical for the majority of items in the corresponding listed QD class but do not apply to every individual item in the class. For SCG of individual items refer to TM 9-1300-206.

CHAPTER 2

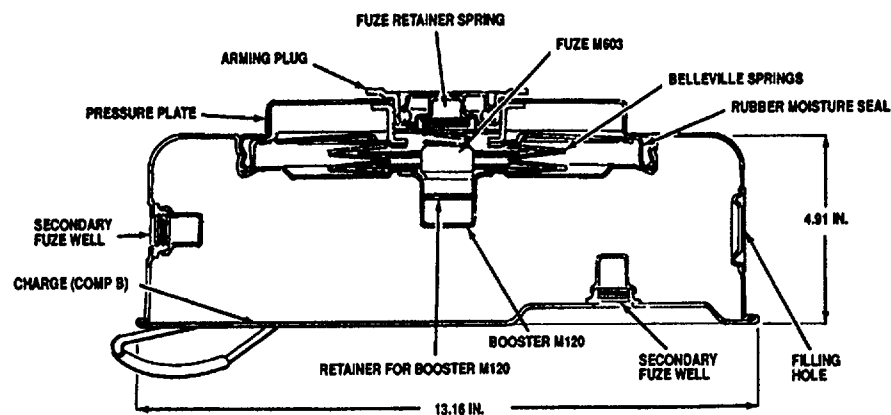
ANTITANK MINES AND AERIALLY DISPERSED ANTITANK/ANTIVEHICLE MINES

Section I. MINES, ANTITANK

MINE, ANTITANK: HE, HEAVY, M15



AR102193

U
AR 102194**Type Classification:**

S 37119 (LCC-A)

Use:

Antitank mine M15 is intended for use against heavy tanks and other types of heavy tracked and wheeled vehicles.

Description:

The mine is a flat, steel cylinder with the fuze and most of the other components located concentrically with the vertical axis. Two secondary fuzing wells, threaded to accept M1 activators, are located, one in the side and one in the bottom, to provide for alternate fuzing and booby trapping arrangements. The mine, as shipped, has these wells covered with tape. The recessed knob in the M4 arming plug, located top, center, carries an arrow, and may be set to indicate Safe, Danger, or Armed, as indicated on the rim of the plug. A carrying handle, attached to the underside of the mine, is provided. The mine body houses the arming plug, pressure plate, multiple element belleville

spring primary fuze, M120 booster, and main explosive charge. The mine is shipped with fuze not assembled, with the fuze packed separately in a metal can in the packing box. Arming of the mine requires the use of the M20 wrench, with which the arming plug is unscrewed, permitting insertion of the fuze. Following removal of the safety for the fuze is inserted in the well. After verifying that the setting knob and shutter are in the Safe position, the arming plug is screwed into place and wrench-tight. The mine is armed by rotating the setting knob to the Armed position with the M20 wrench.

Functioning:

When the shutter of the arming plug is in the Armed position, a force of 350 to 750 pounds on the pressure plate of the mine will allow the load to be transferred to the fuze. This force activates the fuze mechanism, driving the firing pin into the detonator. This initiates the M120 booster in the bottom of the fuze well, which, in turn, detonates the main charge.

Tabulated Data:

Model numberM15
 TypeAT-Heavy

Drawings:

Assembly.....82-0-189

Weight - fuze31.46 lb

Dimensions:

Height.....4.91 in.

Max diameter13.25 in.

Material Steel

Threads:

Arming plug well.....2.313-14NS-1A

Secondary fuze well0.75-12NS

Fuze (see separate

write-up)M603

Temperature Limits:

Firing - lower-40°F

- upper.....+125°F

Storage lower-60°F

- upper.....+ 160°F

Shipping and Storage Data:

Packing arrangement1 mine w/fuze, 1 activ in
 can, & 1 wrench, all in
 wooden box

Weight.....49 lb

Dimensions18 x 15-1/8 x 7-1/2 in.

Cube1.17 cu ft

Hazard class/division and
 storage compatibility

group1.1D
 UNO serial number- 0137
 UNO proper shipping
 nameMines
 DOT shipping class - Class A Explosive
 IDOT marking.....EXPLOSIVE MINES
 DODAC1345-K180
 PaintingOlive Drab
 MarkingYellow

Explosive Data:

Item	Type	Weight	
		AV	Metric
M603 Fuze -			
M45 Det	PA #100	1.85 gr	120 mg
Lead Az	4.24 gr	272 mg	
RDX	1.85 gr	120 mg	
M120 Boost	RDX	172.5 gr	11.18 gm
M15 Mine -			
Main chg	Comp B	22.75 lb	10.33 kg
M1 Activator	(if used)		
M31 Det	Ar Ign Mx	2.3 gr	150 mg
Lead Az	3.9 gr	250 mg	
Tetryl	4.2 gr	270 mg	
Booster	Tetryl	36 gr	2.3 gm

Reference:

TM 9-1345-203-12&P