TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

DEMOLITION MATERIALS

DEMOLITION KIT, CRATERING: M180
NSN 1375-00-148-7159
AND
DEMOLITION KIT, CRATERING, TRAINING: M270 (INERT)
NSN 6920-01-087-0038

HEADQUARTERS, DEPARTMENT OF THE ARMY
SEPTEMBER 1980

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HEADQUARTERS
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Washington, DC, 15 September 1980

OPERATOR'S AND UNIT MAINTENANCE MANUAL
(Including Repair Parts and Special Tools List)
FOR
DEMOLITION MATERIALS
DEMOLITION KIT, CRATERING M 180
NSN 1375-00-148-7159
AND
DEMOLITION KIT, CRATERING, TRAINING: M270 (INERT)

REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or know of a way to improved the procedures, please let us know. Mail your DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct , to Commander, US Army Armament Research, Development and Engineering Center, ATTN: SMCAR-LSB, Picatinny Arsenal. NJ 07806-5000. A reply will be furnished to you.

		Paragraph	Page
CHAPTER 1.	INTRODUCTION		
Section I.	General		
	Scope	1-1	1-1
	Forms, records, and reports	1-2	1-1
Section II.	Description, Functioning, and Data		
	Description	1-3	1-4
	Identification, demolition kit, M180	1-4	1-10
	Identification, demolition kit, M270	1-5	1-10
	Functioning	1-6	1-10
	Packing and marking	1-7	1-11
	Data	1-8	1-11
Section III.	Safety. Care. and Handling		
	General	1-9	1-15
	Safety	1-10	1-15
	Misfires	1-11	1-16
	Care	1-12	1-17
	Handling	1-13	1-17
CHAPTER 2.	OPERATING INSTRUCTIONS		
Section I.	Operation Under Usual Conditions		
	General	2-1	2-1
	Precautions	2-2	2-1
	Preparation for use	2-3	2-1
	Initial preparation	2-4	2-2
	Preparing field firing lead	2-5	2-7
	Hookup of single kit	2-6	2-8
	Multi-kit hookup of closely spaced kits (two, three or five kits)	2-7	2-12
	Multi-kit hookup of widely spaced kits (2 to 15 kits)	2-8	2-20
	Final preparations	2-9	2-22
	Operation	2-10	2-22
	Recovery of kit(s) prepared for use but not used	2-11	2-22
Section II.	Operation of Materiel Used in Conjunction with M180 Demolition Kit		
	General	2-12	2-25
	Related items	2-13	2-25

* This manual is a supplement to TM 9-1375-213-12, 30 March 1973.

		Paragraph	Page
Section III.	Operation Under Unusual Conditions		
	General	2-14	2-26
	Related items	2-15	2-26
CHAPTER 3.	MAINTENANCE INSTRUCTIONS		
Section I.	Service Upon Receipt of Materiel		
	Precaution	3-1	3-1
	Inspection	3-2	3-1
Section II.	Maintenance		
	General	3-3	3-3
	Containers and packing materials	3-4	3-3
	Tripod	3-5	3-3
	Electrical wire	3-6	3-3
	Detonating cord	3-7	3-3
CHAPTER 4.	SHIPMENT AND STORAGE		
Section I.	Shipment		
	Precautions	4-1	4-1
	Instructions	4-2	4-1
	Transportation	4-3	4-1
	Shipment data	4-4	4-1
Section II.	Storage		
	Precautions	4-5	4-1
	Storage data	4-6	4-2
	Procedures	4-7	4-2
APPENDIX A.	REFERENCES		A-1
APPENDIX B.	ORGANIZATIONAL MAINTENANCE REPAIR PARTS		B-1
APPENDIX C.	MAINTENANCE ALLOCATION CHART		C-1
APPENDIX D.	CONSUMABLE MATERIALS		D-1

LIST OF ILLUSTRATIONS

FigureNo.	*Title*	*Page*
1-1	Demolition Kit, Cratering, M180, Components	1-2
1-2	Single Kit Operation Setup	1-3
1-3	Demolition Assembly, M180	1-5
1-4	Warhead	1-6
1-5	Rocket Motor, Rear View	1-7
1-6	Rocket Motor, Forward View	1-8
1-7	Demolition Circuit	1-9
1-8	Shipping Container, M180	1-12
1-9	Shipping Container, M270	1-13
1-10	Shipping Container, Opened	1-14
1-11	Kit Remove from Shipping Container	1-15
2-1	Temperature Firing Limits	2-2
2-2	Deployment Setups	2-3
2-3	Unpacked Kit, M270	2-5
2-4	Position Legs	2-6
2-5	Erecting Tripod	2-7
2-6	Tripod Erected	2-8
2-7	Removing Protective Disk from Warhead and Mating Rocket Motor to Warhead	2-9
2-8	Securing Rocket Motor to Warhead	2-10
2-9	Single Kit Hookup, Ready to Fire	2-11
2-10	Preparing Firing Field	2-13
2-11	Connecting Demolition Circuit	2-14
2-12	Removing Yellow Tagged Safety Plug	2-15
2-13	General Layout for Interconnecting Closely Spaced Kits	2-16
2-14	Multi-kit Hookup, Closely Spaced	2-17
2-15	Removing Continuity Plug	2-18
2-16	Securing Firing Connector	2-19
2-17	Multi-kit Hookup, Widely Spaced	2-21
2-18	Kit with Firing Circuit Taped	2-23
3-1	Inspection Flow Chart	3-2

LIST OF TABLES

No.	*Title*	*Page*
2-1	Operator's Checklist	2-24
2-2	Related Items	2-26

CHAPTER 1
INTRODUCTION

Section I. GENERAL.

1-1. Scope

a. This manual provides the user with operating instructions, operator and organizational maintenance procedures and description for the tactical Demolition Kit Cratering: M180 (fig. 1-1 and 1-2) and the inert Demolition Kit, Cratering Training: M270 together with information on their functioning , storage and use, Procedures for the M180 Demolition Kit are detailed in this manual. Procedures for the M270 demolition kits are not separately detailed since the basic operating and maintenance procedures are identical.

NOTE

Where differences exist between the tactical and training kits, they will be noted in this manual.

b. This kit is designed to produce a large crater in compacted soil or road surfaces, but not in reinforced concrete, arctic tundra, bedrock or sandy soil. The only exceptions are the tundra of the arctic and bed rock or sandy soil in other regions. The kit produces its crater in two stages. The shaped charge blows a pilot hole in the surface and the rocket propelled warhead enters the hole and detonates, enlarging the pilot hole. A number of kits may be fired together to produce an exceptionally large crater.

c. Kit(s) may be used in barrier, denial, flank security ambush, and retrograde, cratering operations. Because of the speed and ease of emplacement, the kit(s) may be used both in forward and rear areas for producing road and defile craters, destroying bridge abutments, destroying railroad beds, and pocking airfields in denial operations.

d. Refer to FM 5-25 for general demolition techniques and doctrine on demolition projects.

1-2. Forms, Records and Reports

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

b. *Field Report of Accidents.* Accidents involvin injury to personnel or damage to materiel will be reported on DA Form 286 (Accident Report) or DA Form 1051 (Record of Injury), in accordance with instructions in AR 385-40.

c. *Malfunction Reports.*

(1) *Definition of a malfunction.* A malfunction is a failure of the kit to perform as expected when fired. For reporting purposes, malfunctions do not include accidents and fires resulting from negligence, malpractice and the like, However, malfunctions do include abnormal or premature functioning if they occur in the course of normal handling, maintenance, storage, transportation and tactical deployment.

(2) *Malfunctions involving ammunnition.* Malfunction reports involving the kit must be forwarded to the Commander, US Army Armament Materiel Readiness Command, ATTN; AMSMC-QA, Rock Island, IL 61299. A preliminary report will be made by the most expeditious means (e.g. by telephone Autovon 793-4851/Commercial 309-782-4851). The report will conform to the requirements of AR 75-1.

(3) *Report of defective or unsatisfactory non-explosive equipment.* Report and turn-in for replacement or repair, non-explosive equipment (e.g., blasting machines, tools, etc.) which is found defective or develops problems in use. Report such equipment by completing DA Form 2407 as prescribed in TM 38-750. forward completed DA Form 2407 to managing activity having managing supply responsibility for the equipment. Managing activity is specified in SC 1375-94-CL-P02.

d. *Report of Damage or Improper Shipment.* Damage or improper sipments will be reported immediately on DD Form 6 in accordance with items attributable to shippers report (AR 735-11-2), of transportation discrepancies in shipments (AR 55-38).

e. *Equipment/Improvement Recommendations (EIR).* If your demolition kit need improvement, let us know. Send us and EIR. You, the user, are

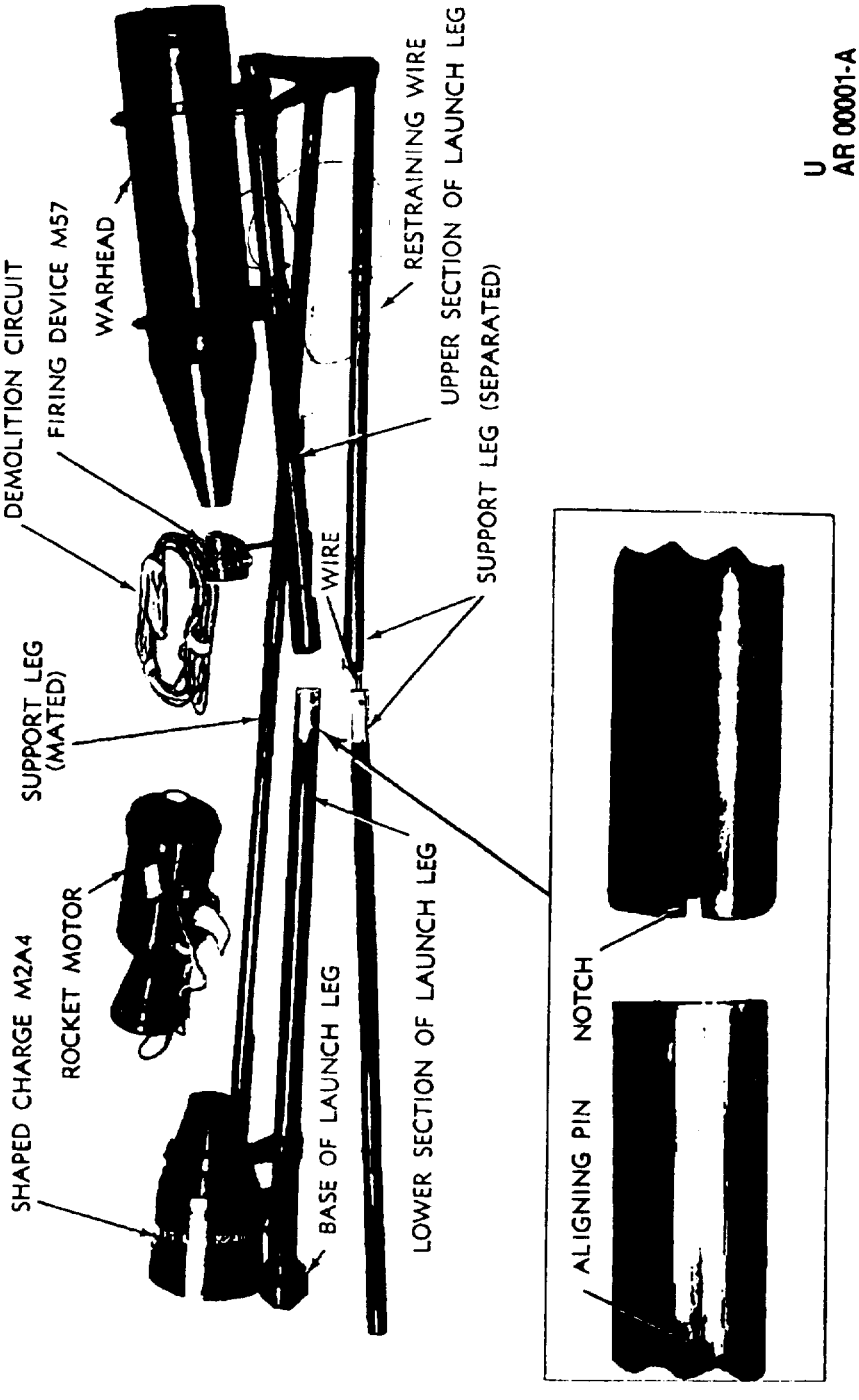

Figure 1-1. Demolition Kit, cratering, M180 components.

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