TECHNICAL MANUAL

OPERATOR'S MANUAL

DEMOLITION KIT

PROJECTED CHARGE

M173

(NSN 1375-00-812-3972)

HEADQUARTERS, DEPARTMENT OF THE ARMY
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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. Mail your DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS-MA, Dover, New Jersey 07801. A reply will be furnished to you.

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*This manual supersedes TM 9-1375-202-10, 22 September 1966,

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CHAPTER 1
INTRODUCTION

Section I. GENERAL

1-1. SCOPE

a. This manual contains a description of and instructions for towing, inspection and operation of projected charge demolition kit M173.

b. Appendix A contains a list of current references including supply catalogs, technical manuals, forms, and other available publications applicable to the demolition kit.

c. Appendix B contains an abbreviated check list (table B-1) for preparing the kit for firing.

1-2. RESPONSIBILITIES

Responsibility of operating personnel is limited to inspection, attachment of accessories, and operation of the demolition kits as described in this technical manual. Operations above and beyond the scope of those described herein must not be attempted by operating personnel.

1-3. 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 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 DD Form 6 in accordance with AR 700-58. 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 AR 75-1.

(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 materiel 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 malfunction facts.

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 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.

Section II. DESCRIPTION AND DATA

1-4. DESCRIPTION

a. General. Projected charge demolition kit F173 (fig. 1-1) is an antitank minefield clearing device designed to be towed (dragged by means of a tow cable) by a vehicle to the edge of a minefield. The kit, an expendable item is used to clear a path in antitank minefields emplanted with single-impulse, pressure-type mines. It may be towed (over land or water) by any adequate land or amphibious vehicle containing a suitable 24-volt direct current, bayonet-type receptacle. Firing of the kit (fig. 1-2) is accomplished by remote control from the towing vehicle, by means of a firing control switch included with the kit.

b. Demolition Kit M173. Each demolition kit fig. 1-3) is fundamentally composed of a waterproof skid M3, a linear charge propulsion system, a linear demolition charge, and necessary accessories to tow and fire the kit. These are described in paragraph 1-5.

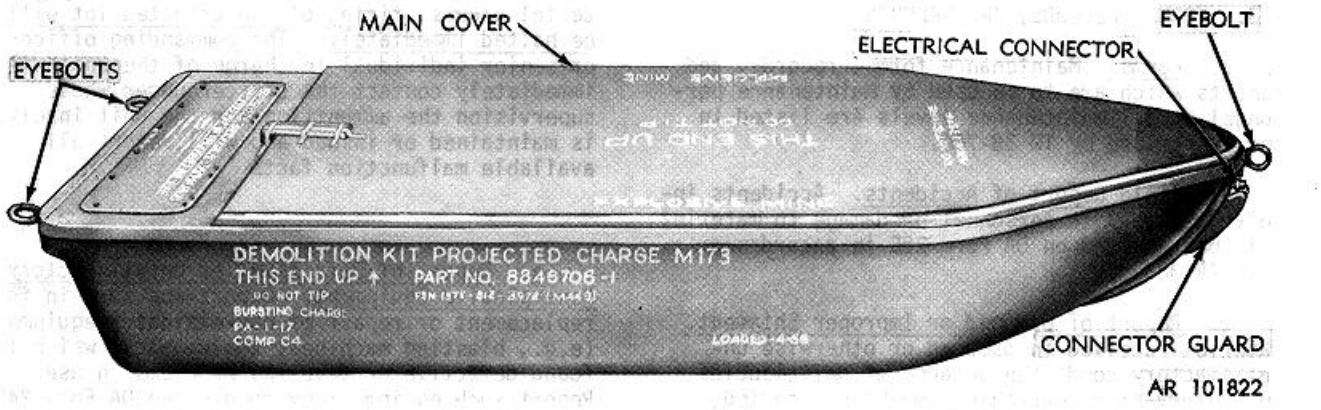

Figure 1-1. Projected charge demolition kit M173.