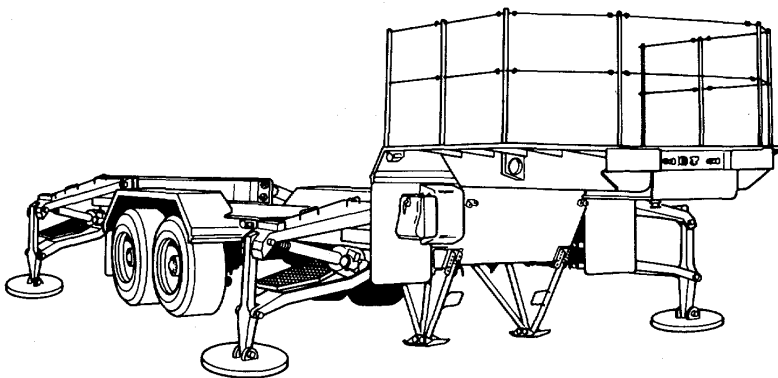


**TECHNICAL MANUAL
OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND
GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND
SPECIAL TOOLS LISTS)**

FOR

**SEMITRAILER, FLATBED: RADAR SET
AND LAUNCHING STATION
M860A1
(NSN 2330-01-117-3280)**



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This manual supersedes TM 9-2330-357-14&P, dated 17 December 1987,
and LO 9-2330-357-12, dated 12 June 1986.

Approved for public release: distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

MAY 1993

TECHNICAL MANUAL

TM 9-2330-357-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 4 May1993

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**FOR
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Current as of 29 December 1992

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 letter, 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, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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CHAPTER 1 INTRODUCTION

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1-1. SCOPE.

- a. **Type of Manual.** Operator's, Organizational, Direct Support, and General Support Maintenance (Including Repair Parts and Special Tools Lists).
- b. **Model Number and Equipment Name.** Semitrailer, Flatbed: Radar Set and Launching Station, M860A1.
- c. **Purpose of Equipment.** Used for the transport of the Patriot Missile System launching equipment and for the transport and operation of the search/track radar set.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, *The Army Maintenance Management System (TAMMS)*.

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

For destruction of Army materiel to prevent enemy use, refer to TM 750-2446.

1-4. PREPARATION FOR STORAGE AND SHIPMENT.

For information on preparing the semitrailer for storage and shipment, refer to Chapter 4, Section XIV.

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs).

If your semitrailer needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF Form 368 (*Product Quality Deficiency Report*). Mail it to us at: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MP, Warren, MI 48397-5000. We will send you a reply.

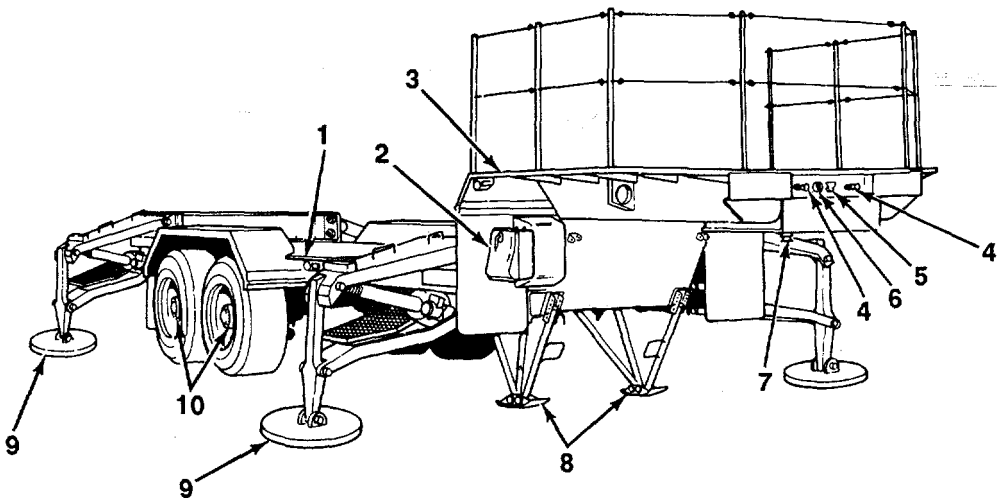
Section II. EQUIPMENT DESCRIPTION AND DATA

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1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

- a. The M860A1 Flatbed Semitrailer is designed to be towed by a 10 ton, 8x8, Tractor Truck (M983).
- b. The semitrailer is equipped:
 - (1) To transport either the Patriot Missile launcher or the search/track radar set.
 - (2) With outriggers to provide leveling of the semitrailer when the search/radar set is deployed on uneven ground.

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

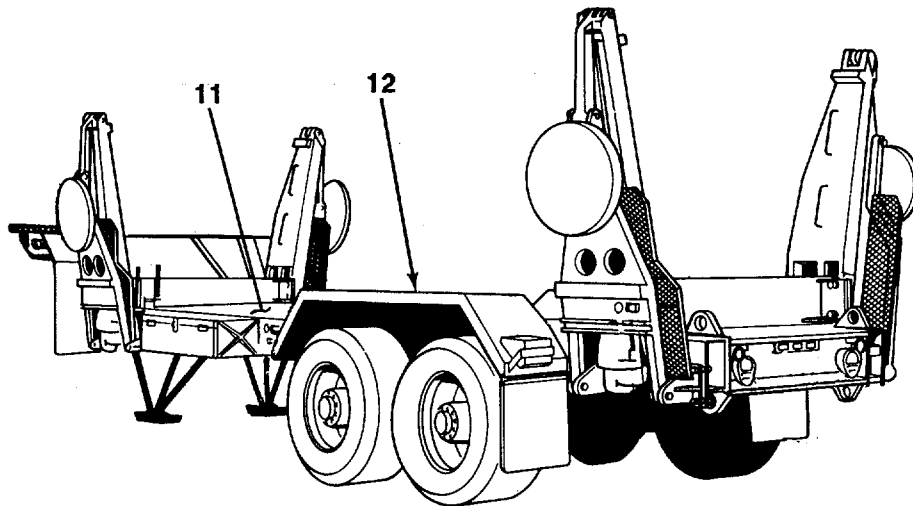


Key	Component	Description
1	Frame	Provides load bearing surface, mounting for axles and suspension, outriggers, landing gear, and kingpin. Constructed of steel.
2	Outrigger Control Box	Contains controls for operating outriggers.
3	Walkway	Provides crew with access to generator. Constructed of steel.
4	Air Couplings	Connect service and emergency airbrakes to tractor truck

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1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (Con't).

Key	Component	Description
5	Electrical Connector	Connects service lights electrical system to tractor truck.
6	Slave Cable Electrical Connector	Connects outrigger electrical system to tractor truck.
7	Fifth Wheel Kingpin	Couples semitrailer to fifth wheel of tractor truck.
8	Landing Gear	Supports front of semitrailer when uncoupled from tractor truck. Manually operated.
9	Outriggers	Extend to level semitrailer and retract for semitrailer movement. Electrically operated.
10	Tandem Axles	Arranged one behind the other, carrying the wheels and allowing the wheels to rotate. Consist of suspension system, brake system, axles, tires, and wheels.



Key	Component	Description
11	Floor	Provides mounting surface for launcher or radar set. Constructed of steel.
12	Fender	Prevents mud and water from being splashed off rear tires. Keeps most rocks from being thrown from rear tires during travel.

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