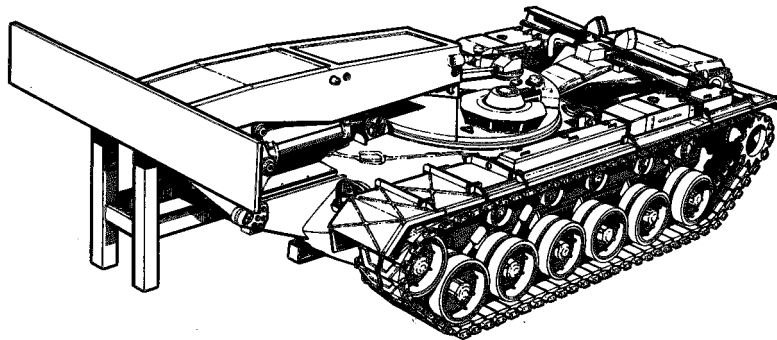


TECHNICAL MANUAL

**DIRECT SUPPORT AND
GENERAL SUPPORT
MAINTENANCE**



**M48A5 TANK CHASSIS,
TRANSPORTING:
FOR BRIDGE,
ARMORED-VEHICLE-LAUNCHED
SCISSORING TYPE, CLASS 60
[5420-01-076-6096]**

TA 248720

TECHNICAL MANUAL

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 27 February 1981

**Direct Support and General Support
Maintenance Manual**

**M48A5 TANK CHASSIS, TRANSPORTING FOR BRIDGE,
ARMORED-VEHICLE-LAUNCHED SCISSORING TYPE, CLASS 60
(5420-01-076-6096)**

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, directly 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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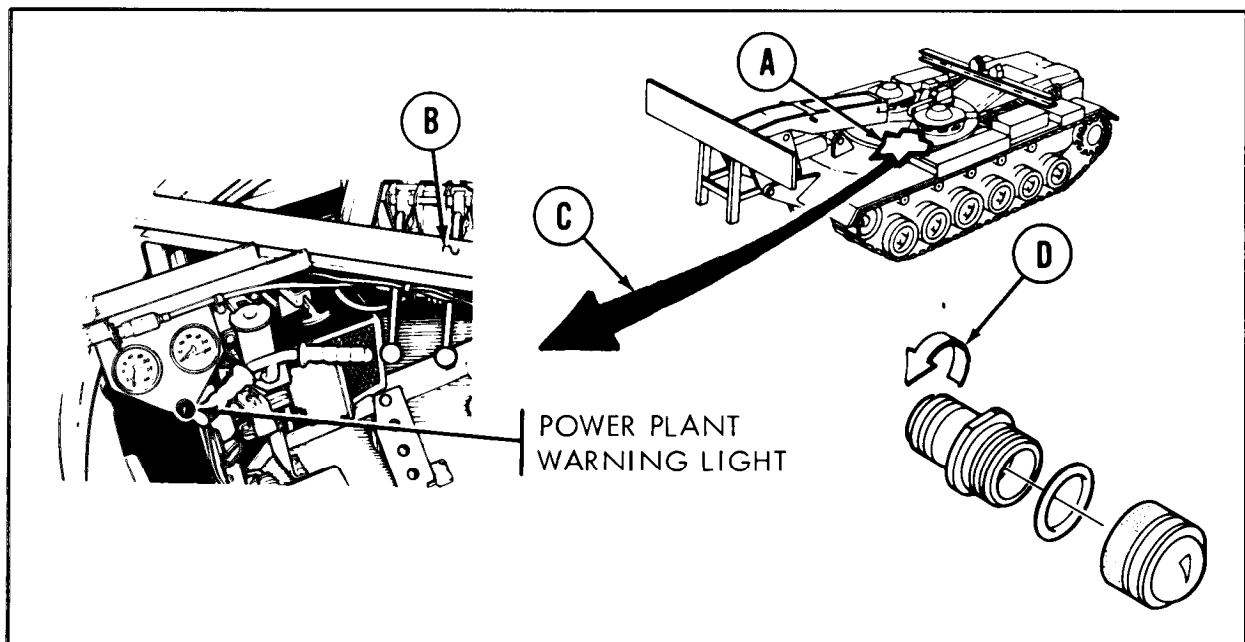
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HOW TO USE THIS MANUAL:

Manual is divided into chapters.

- Chapters are by functional group code and presented in same order as the RPSTL (Repair Parts and Special Tool List).
- All manual references refer to page numbers.
- Steps are numbered and are to be performed in that order.
- Be sure to read all NOTES, WARNINGS, and CAUTIONS.
- Locator views are included wherever necessary. These will help you locate the item which the procedure is referencing.
- Jagged circle (#) on locator (A) indicates a cutout and item is inside of tank.
- A (~) symbol represents the outside surface (B) of a piece of equipment that cannot be shown in its entirety.
- Callouts are shown by a circle with a letter inside.
- Locator arrows (C) are black and mechanical motion arrows (D) are white.



CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

SCOPE

Type of Manual: Direct Support and General Support Maintenance.

Model Number and Equipment Name: M48A5 Tank Chassis, Transporting, for Bridge, Armored-Vehicle-Launched Scissoring Type, Class 60.

Purpose of Equipment: Launch, retrieve, and transport scissoring type bridge.

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).

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S)

If your M48A5 AVLB 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 our equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, U.S. Army Tank-Automotive Command, AMSTA-Q, Warren, Michigan 48397-5000. We'll send you a reply.

CALIBRATION

There are no calibration requirements for the maintenance of any component of the hull.

ENGLISH AND METRIC SYSTEM UNITS

Torque values specified in this manual are expressed in pound feet (lb-ft) or pound inches (lb-in.) followed by the metric equivalent in parentheses. The metric equivalent is expressed in system international units Newton meters (N•m). There is a metric equivalents chart located on the inside rear cover of this manual.

Section II. EQUIPMENT DESCRIPTION AND DATA

DESCRIPTION

Refer to TM 5-5420-226-10.

DATA

Refer to TM 5-5420-226-10.

CHAPTER 2

HULL MAINTENANCE INSTRUCTIONS

Section I. REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

Special tools for direct support and general support maintenance are listed and illustrated in TM 5-5420-226-24P which is the authority for requisitioning replacements.

ENGINE

- | | |
|--|--------------------------------|
| 1. Engine and Transmission Sling
(12257229) | Remove and install powerplant. |
|--|--------------------------------|
-

TRANSMISSION

- | | |
|---------------------------------------|---|
| 2. Puller Adapter
(7082774) | Used with puller (item 3) to disengage transmission input shaft from engine flywheel. |
| 3. Slide Hammer Puller
(7082201) | Disengage transmission input shaft from engine flywheel. |
| 4. Lifting Sling
(7081593) | Lift transmission. |
| 5. Pinion Turning Wrench
(7081564) | Turn transmission gearing. |
-

FINAL DRIVE

- | | |
|---------------------------------------|---|
| 6. Box Wrench
(12251988) | Remove and install final drive output shaft nut. |
| 7. Bearing Removal Tool
(12291062) | Remove bearings from final drive output shaft and drive gear. |
| 8. Seal Insertter
(8355822) | Install final drive output shaft seal. |

SUSPENSION

- | | | |
|-----|---|--|
| 9. | Shock Absorber Bearing Replacer
(11654533) | Remove and replace bearings in shock absorber mount. |
| 10. | Bearing Tool Assembly
(12325917) | Remove No. 1 left and right roadwheel arm track adjusting bearing. |
| 11. | Bearing Driver (12290993) | Remove and replace bearing in track adjusting link mount. |

SMOKE GRENADE LAUNCHER

- | | | |
|-----|--------------------------------------|--|
| 12. | Locating Fixture Assembly (12257682) | Position stowage box mounting bracket. |
|-----|--------------------------------------|--|
-

SPARE AND REPAIR PARTS

Spares and repair parts required for direct support and general maintenance of this vehicle are listed and illustrated in TM 5-5420-226-24P which is the authority for ordering replacement parts.

Section II. SERVICE UPON RECEIPT

1. This section contains information on services to be performed upon issue of the vehicle to the using organization. Where practicable, the crew will assist in services described. Some of the services contained herein may not be required, depending upon the degree of preservation provided by the shipper and the planned use of the vehicle.
2. Cut hold-down straps and remove wooden boxes, containers of equipment, and any other vehicle components secured to the exterior or interior of the vehicle.
 - a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on DD Form 6, Packaging Improvement Report.
 - b. Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with the instructions of DA PAM 738-750.
3. Conduct service upon receipt of the chassis in accordance with the procedures specified on pages 2-3 and 2-4. For services to be performed on launcher and bridge components, refer to TM 5-5420-227-24 and TM 5-5420-203-14.

TABLE I. SERVICE UPON RECEIPT

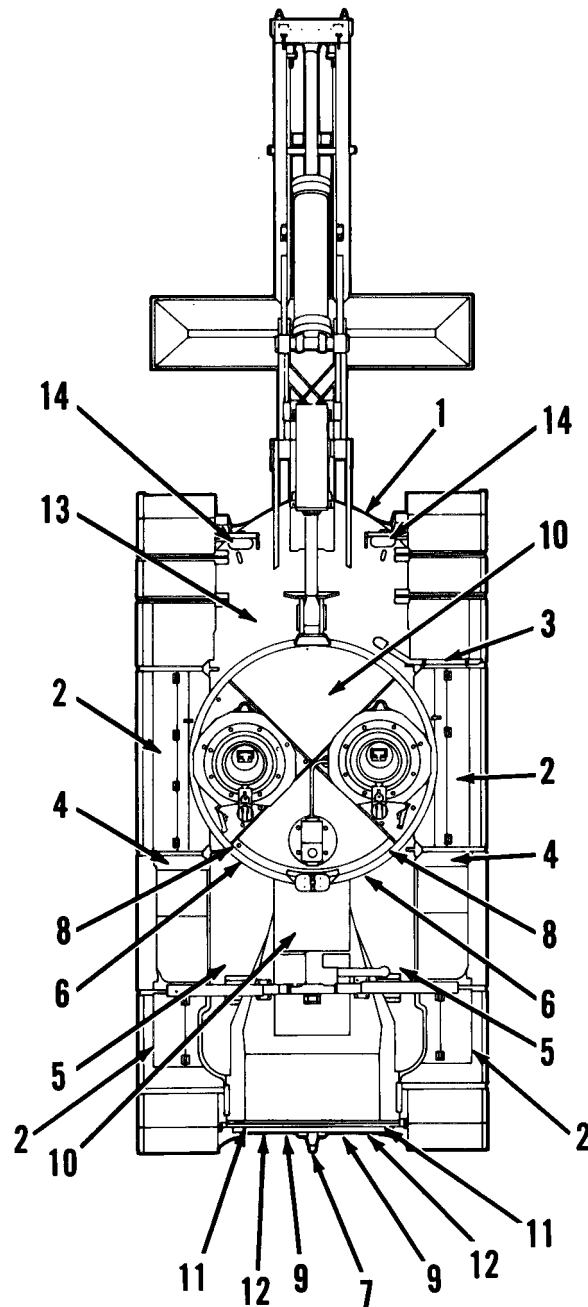
	Step	Item	Action	Remarks
1.	Hull	Exterior	Check vehicle hull for damage.	Item 1, Page 2-6
2.	Hull	Fender stowage boxes	Inspect for water in two center and two rear fender stowage boxes.	Item 2, Page 2-6 Para. 4a.
3.	Hull	Optical glass	Remove wrapping, barrier material, and tape.	- - -
4.	Hull (right side)	Personnel heater exhaust assembly	Remove tape.	Item 3, Page 2-6
5.	Hull (right and left sides)	Air cleaner (precleaned) centrifugal fan (blower motor) exhaust elbows	Remove tape and protective barrier plugs.	Item 4, Page 2-6 Para. 4b.
6.	Hull (top deck)	Turbosupercharger and tubes	Open two top deck hatch door assemblies and remove tape and plugs from two turbosuperchargers and two tubes.	Item 5, Page 2-6 Para. 4c.
7.	Hull (top deck)	Air cleaner inlet screens	Open two top deck hatch door assemblies and remove tape from two air cleaner inlet screens at bulkhead.	Item 6, Page 2-6
8.	Hull (rear)	Pintle	Remove pintle stowed inside of hull. Install pintle at rear of tank.	Item 7, Page 2-6 Para. 4d.
9.	Hull (under-side)	Fuel tank drain access openings	Remove two screens at two fuel tank drain access openings.	Item 8, Page 2-6 Para. 4e.
10.	Hull (under-side)	Brake control access openings	Remove two screens at two brake control access openings.	- - -
11.	Hull (under-side)	Brake control access covers	Remove two brake control access covers stowed inside hull and install on access openings.	Item 9, Page 2-6 Para. 4f.

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TABLE I. SERVICE UPON RECEIPT Continued

	Step	Item	Action	Remarks
12.	Hull (under-side)	Front and rear drain valve openings	Remove screens from front and rear drain valve openings.	Item 10, Page 2-6 Para. 4g.
13.	Hull (rear)	Engine exhaust outlet doors	Open engine exhaust outlet doors and remove tape from engine exhaust outlet pipes.	Item 11, Page 2-6
14.	Hull (rear)	Taillights	Remove wrapping and tape from two taillight lenses.	Item 12, Page 2-6
15.	Hull (front)	Fire extinguisher handles	Remove tape from fire extinguisher handles protective shield.	Item 13, Page 2-6 Para. 4h.
16.	Hull (interior)	C O ₂ cylinder plastic blow-off cap or shrink tube	Check for presence of plastic blow-off cap or shrink tube on service valve of CO ₂ cylinder, located near vehicle's batteries.	- - - Para. 4i.
17.	Hull (front)	Headlight mounting receptacles	Remove dust covers from two hull headlight mounting receptacles.	Item 14, Page 2-6 Para. 4j

TABLE I. SERVICE UPON RECEIPT Continued



4. Corrective action for items listed in paragraph 3 found deficient will be as follows:

- a. Water in fender strorage boxes should be drained by removing drain plugs (two in each box) as required to allow water to drain. After water has drained, reinstall and tighten plugs.
- b. Protective barrier plugs should be reinstalled and tightened after water has drained.
- c. Connect tubes to turbosupercharger. Refer to TM 5-5420-226-20.

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TM 5-5420-226-34

- d. Refer to TM 5-5420-226-20 for installation of pintle.
- e. Loosen two fuel tank drain plugs and allow water in fuel tanks to drain. After water has drained, tighten drain plugs. Refer to TM 5-5420-226-20.
- f. Refer to TM 5-5420-226-20.
- g. Refer to TM 5-5420-226-20.
- h. Check that lead seals on both handles are intact. If lead seal is broken, service fire extinguisher cylinders. Install new exterior fire extinguisher handle lead seal. Refer to TM 5-5420-226-20.
- i. If missing, service CO₂ cylinder (page 11-2).
- j. Remove headlights from stowage brackets in operator's compartment. Install dust covers on stowage brackets. Install headlights on hull mounting receptacles. Refer to TM 5-5420-226-10.