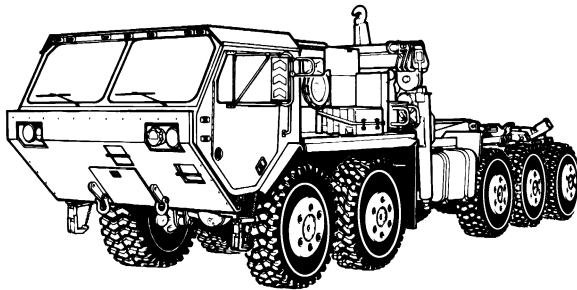


TECHNICAL MANUAL UNIT MAINTENANCE VOLUME V

PALLETIZED LOAD SYSTEM



MODEL M1074/M1075

NSN 2320-01-304-2277

NSN 2320-01-304-2278

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Unit Maintenance Manual PALLETIZED LOAD SYSTEM

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Current as of 01 August 1999

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

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HOW TO USE THIS MANUAL

This manual is designed to help maintain the Model M1074/M1075 Palletized Load System (PLS) truck. Listed below are some special features included in this manual to help locate and use the needed information:

- A front cover table of contents is provided for quick reference to chapters and sections that will be used often.
- **WARNING, CAUTION, and NOTE** headings, subject headings, and other essential information are printed in bold type making them easier to see.
- The maintenance tasks describe what must be done to the truck before starting the task (Equipment Condition), and what must be done to return the vehicle to operating condition after the task is finished (Follow-On Maintenance).
- The Appendixes are located at the end of the manual. They contain a reference guide to other manuals, the Maintenance Allocation Chart (MAC), a list of expendable supplies and materials, and other material for maintaining the PLS truck.
- In addition to text, there are exploded-view illustrations showing how to take a component off and put it back on. Cleaning and inspection procedures are also included as required.
- Chapters 13 through 24 of this manual cover Unit Maintenance for each PLS truck system.

Follow these guidelines when using this manual:

- Read all **WARNINGS** and **CAUTIONS** before performing any procedure.
- The equipment conditions found in the maintenance procedures are of a general nature and the mechanic may be able to perform only certain steps within a procedure to accomplish the equipment condition.

CHAPTER 13

WHEEL AND TIRE MAINTENANCE

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13-1. INTRODUCTION.

This chapter contains maintenance instructions for removing, replacing, installing and adjusting wheel and tire components as authorized by the Maintenance Allocation Chart (MAC) at the Unit Maintenance level.

13-2. WHEEL/TIRE ASSEMBLY REPAIR.

This task covers:

- a. Disassembly
- b. Cleaning/Inspection
- c. Assembly
- d. Follow-On Maintenance

INITIAL SETUP

Tools and Special Tools

Tool Kit, General Mechanic's: Automotive (Item 74, Appendix G)
Multiplier, Torque (Item 45, Appendix G)
Repair Tool, Pneumatic Tire, Valve (Item 56, Appendix G)
Socket Set, 3/4 in. (Item 61, Appendix G)
Socket Set, 3/8 in. (Item 62, Appendix G)
Wrench, Torque (0 to 300 lb-ft [0 to 407 N·m]) (Item 96, Appendix G)
Wrench, Torque (0 to 60 N·m) (Item 98, Appendix G)
Lifting Device
(Minimum Capacity 600 lbs [272 kg])
Wooden Block (Appendix D)

Materials/Parts

Lubricant, Tire and Rim (Item 53, Appendix C)
Sealing Compound (Item 74, Appendix C)
Grommet (2) (Item 72, Appendix F)
Locknut (4) (Item 122, Appendix F)
Packing, Preformed (Item 246, Appendix F)
Packing, Preformed (2) (Item 262, Appendix F)
Valve Core (Item 342, Appendix F)

References

TM 9-2610-200-14

Equipment Condition

Engine OFF, (TM 9-2320-364-10)
Wheel and tire removed from truck, (TM 9-2320-364-10)

a. *Disassembly.*

WARNING

- Wheel/tire assembly must be deflated in a safety cage or personal injury or death may result.
- Wheel/tire assembly weighs 523 lbs (237 kg). Attach suitable lifting device prior to moving to prevent possible injury to personnel.

NOTE

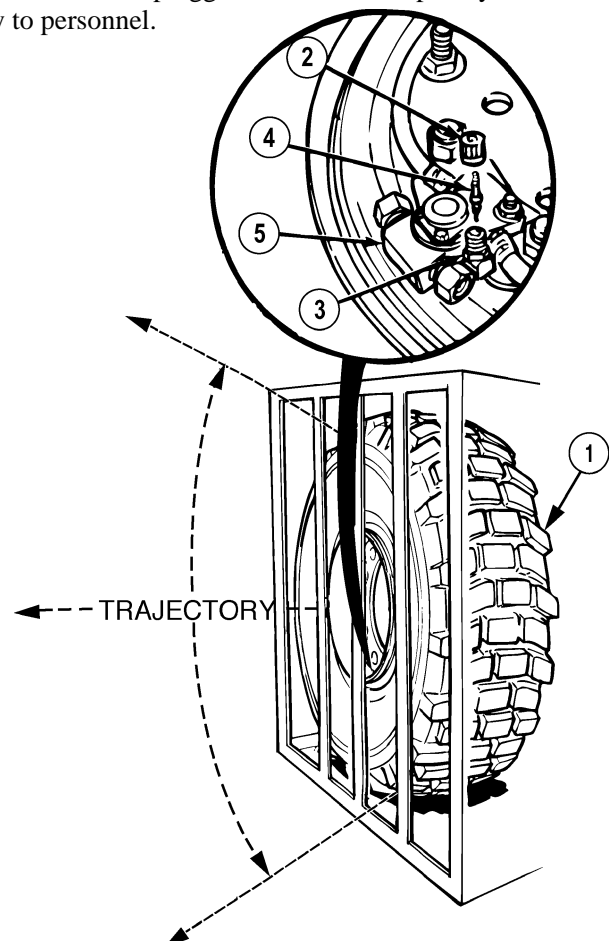
Refer to TM 9-2610-200-14 for construction of safety cage.

- (1) Using lifting device, position wheel/tire assembly (1) in a safety cage.
- (2) Remove valve cap (2) from valve stem (3).

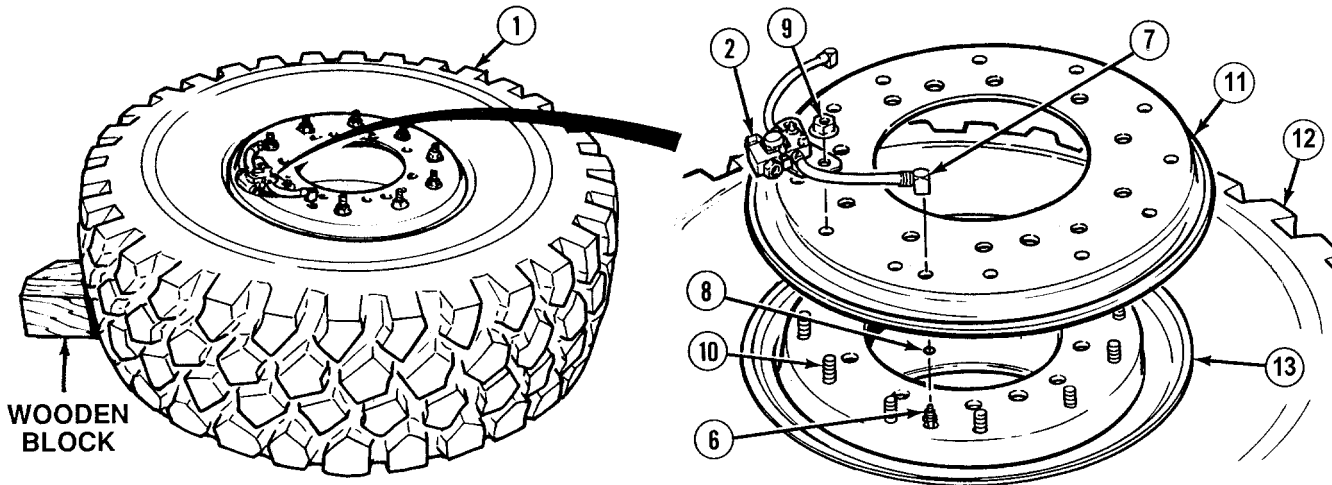
WARNING

- Stand clear of trajectory area during deflation or personal injury or death may result.
- High air pressure will be released from valve stem when valve core is removed. Stay clear of valve stem after core is removed. Ensure all personnel wear suitable eye protection. Failure to comply may result in injury to personnel.
- Always completely deflate tire by removing valve core from valve stem before attempting demounting operation. After air has finished exhausting from valve stem, carefully run a piece of wire through valve stem to ensure it is not plugged and tire is completely deflated. Failure to comply may result in injury to personnel.

- (3) Remove valve core (4) from valve stem (3). Discard valve core.
- (4) Remove wheel/tire assembly (1) from safety cage and position on wooden block on flat surface with Central Tire Inflation System (CTIS) wheel valve assembly (5) facing up.



13-2. WHEEL/TIRE ASSEMBLY REPAIR (CONT).



- (5) Disconnect two valve stems (6) from fittings (7).
- (6) Remove and discard two preformed packings (8) from valve stems (6).
- (7) Remove twelve lug nuts (9) from studs (10).
- (8) Remove CTIS wheel valve assembly (2) from outer wheel (11).

WARNING

Keep hands clear of studs and outer face of wheel to prevent injury to personnel.

NOTE

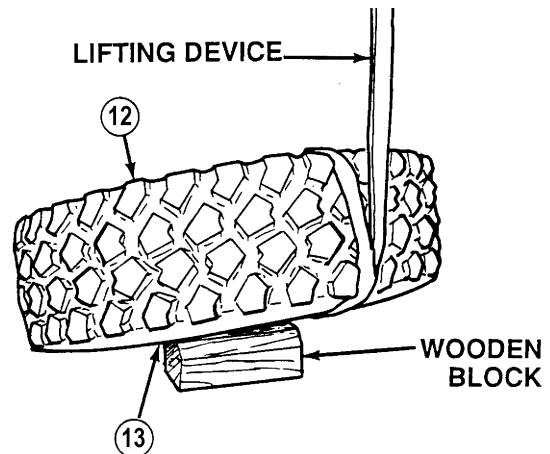
A tire iron can be used to lift the outer wheel.

- (9) Pry outer wheel (11) and tire (12) apart.
- (10) Remove outer wheel (11) from inner wheel (13).

WARNING

Wheel/tire assembly weighs 523 lbs (237 kg). Attach suitable lifting device prior to moving to prevent possible injury to personnel.

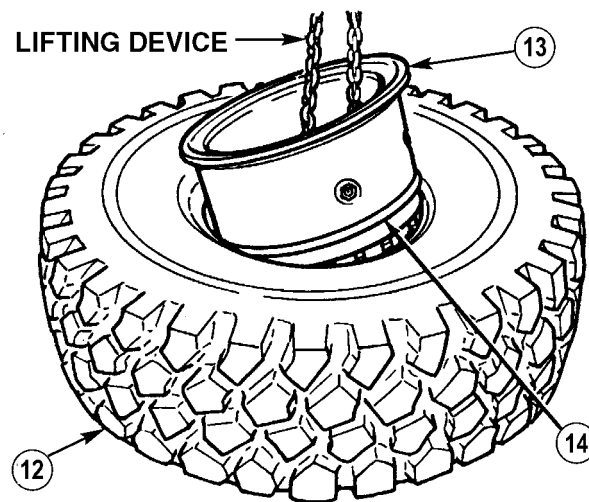
- (11) Attach lifting device to wheel/tire assembly (1).
- (12) Raise and turn wheel/tire assembly (1) over so inner wheel (13) center rests on wooden block. Lower tire (12).
- (13) Remove lifting device from wheel/tire assembly (1).
- (14) Pry inner wheel (13) and tire (12) apart.



WARNING

Inner wheel weighs 105 lbs (48 kg). Attach suitable lifting device prior to moving rim to prevent possible injury to personnel.

- (15) Attach lifting device to inner wheel (13).
- (16) Remove inner wheel (13) from tire (12).
- (17) Remove and discard preformed packing (14) from inner wheel (13) and cut in two.
- (18) Remove two nuts (15), valve stems (6) and grommets (16) from inner wheel (13). Discard grommets.

**NOTE**

If studs are damaged, perform Steps (19) through (25). If studs are not damaged, perform Steps (20) through (25).

- (19) Remove damaged studs (17) from inner wheel (13). Discard damaged studs.

