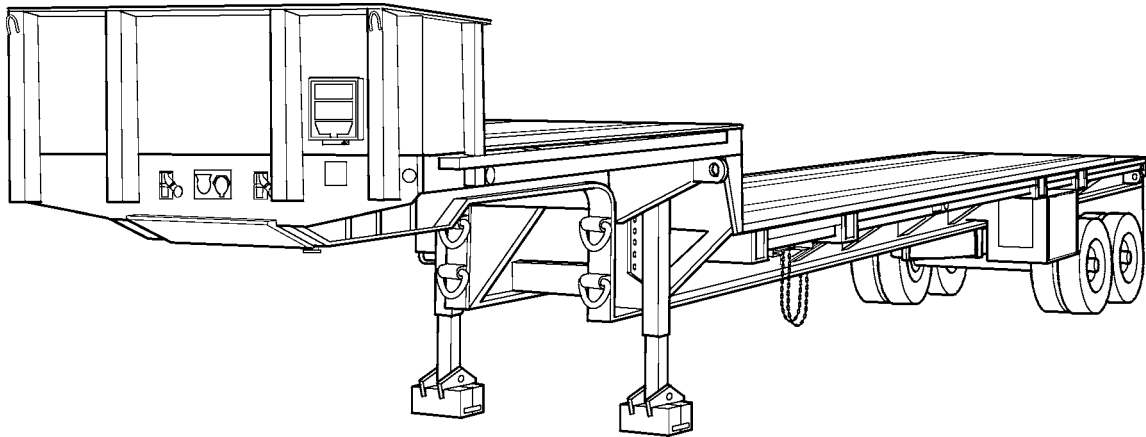


TM 9-2330-326-14&P

**TECHNICAL MANUAL
OPERATOR'S, UNIT, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)
FOR
SEMITRAILER, TACTICAL,
DROP DECK BREAKBULK/CONTAINER
TRANSPORTER, 22-1/2 TON, M871A3
NSN 2330-01-458-6865**



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HEADQUARTERS, DEPARTMENT OF THE ARMY

20 May 2003

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HOW TO USE THIS MANUAL

SCOPE

This manual provides you with the information you will need to operate and maintain the M871A3 Semitrailer.

MANUAL CONTENT

Front Matter

There are general warnings that start on the first right-hand page immediately after the cover that should be read before performing any maintenance on the Semitrailer.

The title block page includes the reporting of errors and recommending improvements statement.

The table of contents lists the chapters and appendixes in this manual.

Chapters/Appendices

- Chapter 1: provides general information, location and description of major components, equipment data, and warranty coverage.
- Chapter 2: provides Operator instructions.
- Chapter 3: provides Operator/Crew PMCS.
- Chapter 4: provides Unit PMCS.
- Chapter 5: provides Unit troubleshooting.
- Chapter 6: provides Unit maintenance instructions.
- Chapter 7: provides Direct Support and General Support maintenance instructions.
- Appendix A: provides the publications referenced in this manual.
- Appendix B: provides the MAC.
- Appendix C: provides lubrication instructions.
- Appendix D: provides the COEI and BII lists.
- Appendix E: provides the AAL.
- Appendix F: provides the expendable and durable items.
- Appendix G: provides converter box maintenance instructions.
- Appendix H: provides supplemental information.
- Appendix I: provides the RPSTL, CAGE codes, vendor list, NSN cross-reference index, and part number cross-reference index.

Alphabetical Index

An index is located at the end of this manual that provides an alphabetical listing of information and components/assemblies contained in this manual.

DA Form 2028-2

DA Form 2028-2 is used to report errors and to recommend improvements for the tasks in this manual.

Chapters/Appendices (Cont.)

Metric Conversion Chart

The metric conversion chart converts English measurements to metric equivalents. Measurements in this manual are provided in both English and metric units.

Warnings, Cautions, and Notes

You must read and understand this manual BEFORE operating the M871A3 Semitrailer.

Throughout this manual you will see **WARNING**, **CAUTION**, and **NOTE** headings. There are good reasons for every one of these notices:

WARNING

A warning is used to alert the user to hazardous operating and maintenance procedures, practices, or conditions that could result in injury or death. Warnings must be strictly observed.

CAUTION

A caution is used to alert the user to hazardous operating and maintenance procedures, practices, or conditions that could result in damage to, or destruction of, equipment or mission effectiveness. Cautions must be strictly observed.

NOTE

A note highlights an essential operating or maintenance procedure, condition, or statement.

Warnings and cautions appear immediately preceding the step to which they pertain. It is important to read and thoroughly understand the warnings and/or cautions before beginning maintenance. Notes may precede or follow the steps to which they pertain, depending on what makes the most sense.

CHAPTER 1

INTRODUCTION

1-1. TYPE OF MANUAL

This manual is a Commercial Off-The-Shelf (COTS) Technical Manual (TM).

1-2. MODEL NUMBER AND EQUIPMENT NAME

M871A3 22-1/2 Ton, Drop Deck Breakbulk/Container Transporter Tactical Semitrailer.

1-3. TRANSPORTABILITY

NOTE

Specific tiedown transportability data for rail, truck, and fixed wing air movement can be found in MTMCTEA Pam 55-19, MTMCTEA Pam 55-20, and MTMCTEA Pam 55-24, respectively.

1. The M871A3 is transportable in a C-141 at the load master's discretion dependant on bulkhead height and height of cargo.

NOTE

The bulkhead is removable.

2. The M871A3, loaded/unloaded, is transportable by C-5 and C-5A fixed wing aircraft.
3. The M871A3, loaded/unloaded, is transportable by C-17 fixed wing aircraft.
4. The M871A3, loaded/unloaded, is transportable by rail and with ISO container (CONUS).
5. The M871A3, loaded/unloaded, is transportable by ship.
6. The M871A3, loaded/unloaded, is able to be loaded/off loaded onto roll-on/roll-off ships using 15 degree ramps.
7. The M871A3, loaded/unloaded, is transportable by barge as dictated by the length of the semitrailer and barge load capacity.
8. The M871A3, unloaded, is transportable by rotary wing aircraft. Reference FM 10-450-5.
9. The M871A3, unloaded, is transportable in C-130 fixed wing aircraft,

1-4. OPERATING UNDER UNUSUAL CONDITIONS

1. Extreme Cold.

Startup:

- a. Be careful when placing the semitrailer in motion after a shutdown. Congealed lubricants can cause part failure.
- b. Tires may freeze to the ground or have a flat spot if under inflated.
- c. Brake shoes may freeze to the brake drums and need to be heated to prevent damage to mating surfaces.
- d. Refer to FM 9-207 and FM 21-305 for special instructions on driving hazards in snow and ice that may be encountered during extreme cold weather conditions.

Shutdown:

- a. For short periods, park in a sheltered spot out of the wind; for longer shutdown periods, if high, dry ground is not available, prepare a footing of planks or brush.
- b. Remove all buildup of ice and snow as soon as possible after shutdown.
- c. Cover and shield the semitrailer with canvas covers if available. Keep the ends of covers off the ground to keep them from freezing to the ground. Drain air/moisture from air tanks.

2. Extreme Heat.

- a. Refer to TB 43-0239 and FM 90-3 for maintenance and operations, respectively, under desert conditions.
- b. Do not park the semitrailer in the sun for long periods of time. Heat and sunlight shorten the life of tires.
- c. Park the semitrailer where it will get maximum protection from heat, sun, and dust.

3. Rainy or Humid Conditions.

Frequently inspect, clean, and lubricate inactive equipment to prevent rust and fungus accumulation.

4. Operation in Salt Water Areas.

Salt water will cause rapid corrosion of metal parts. After operation, wash the semitrailer with fresh water. Clean, inspect, and lubricate equipment frequently.

5. Operation in Snow.

Refer to FM 21-305 for special instructions on operation in snow.