

## TECHNICAL MANUAL

### OPERATOR'S, UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

#### FOR

### SEMITRAILER, LOWBED: 40-TON CONSTRUCTION EQUIPMENT

#### TRANSPORTER

#### M870 (CCE)

#### (CMI/LOAD KING MODEL 403LF)

#### (NSN 2330-00-133-1731)

### SEMITRAILER, LOWBED: 40-TON CONSTRUCTION EQUIPMENT

#### TRANSPORTER

#### M870A1 (NSN 2330-01-224-9245)

This publication supersedes TM 5-2330-378-14&P dated 18 May 1988  
and TM 5-2330-360-14&P dated 06 December 1984.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

**JUNE 1999**

TECHNICAL MANUAL  
NO. 9-2330-378-14&P

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, D.C., 17 June 1999

**OPERATOR'S, UNIT, DIRECT SUPPORT, AND  
GENERAL SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)  
FOR  
SEMITRAILER, LOWBED: 40-TON  
CONSTRUCTION EQUIPMENT TRANSPORTER  
M870 (NSN 2330-00-133-1731)  
M870A1 (NSN 2330-01-224-9245)**

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

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## HOW TO USE THIS MANUAL

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### SCOPE.

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1. This technical manual provides you with the information you will need to operate and maintain the M870 or M870A1 40-ton semitrailer. You must read and understand this manual BEFORE operating the M870 or M870A1 semitrailer.
2. The information contained in this manual is presented in five chapters and 11 appendixes, one of which is a repair parts and special tools list (RPSTL). Each chapter is divided into sections covering operating procedures and/or other information for specific systems or components.
3. Note that Appendix A of this manual gives the full title of every manual, form, pamphlet, or other document referenced in this manual.

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### INDEXING.

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Four indexing procedures are used to help you locate information quickly:

- Cover index. Lists chapter titles and important parts of this manual, with corresponding page numbers. Each chapter or part listed is boxed in, with a black outer edge that is in line with the first page of that chapter or part.
- Table of contents. The table of contents follows the summary of warnings. The table of contents lists all chapters and sections numerically, with corresponding page numbers.
- Section indexes. Each section starts with a numerical listing of all paragraphs in that section.
- Alphabetical index. The alphabetically arranged subject index starts on page Index-1.

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### TEXT AND ILLUSTRATIONS.

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1. Each chapter is divided into sections; each section begins with a numerical listing of all paragraphs.
2. Each paragraph in the maintenance chapters (3,4, and 5) contains the following information, as appropriate:
  - The common or special tools and test equipment required to perform the procedures are listed under the heading "Tools/Test Equipment." Information (e.g., part numbers and national stock numbers) for all common and special tools is given in Appendix B.
  - Materials and mandatory replacement parts that will be discarded during performance of the procedure are listed under the heading "Materials/Parts." A materials/parts list does not contain items that *may* be replaced if found defective during inspection. Also, the list does not contain the item cited in the paragraph title. Information on materials is in Appendix F, and information on the mandatory replacement parts is in Appendix I.
  - If more than one person is required to perform the procedure, the number is specified under the heading "Personnel Required."
  - Procedures that must be followed prior to performing a maintenance procedure are listed under the heading "Equipment Conditions."

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**TEXT AND ILLUSTRATIONS (continued).**

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3. Maintenance procedures are to be performed in the sequence given in the text and illustrations.
4. Illustration callouts are numbered in the order that the parts they identify are removed in the procedure. For example:

Remove screw (1), lockwasher (2), washer (3), and bracket (4) from crankcase (5).
5. Be sure to read the entire paragraph before beginning a maintenance procedure. Also, read the general information in Chapter 1 before beginning a procedure

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**WARNINGS, CAUTIONS, AND NOTES.**

---

1. 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.**

2. 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.
3. Notes may precede or follow the steps to which they pertain, depending on what makes the most sense.