

TM 9-2320-279-10-2

OPERATOR'S MANUAL

M977 SERIES, 8 x 8 HEAVY EXPANDED MOBILITY TACTICAL TRUCKS (HEMTT)

MODEL	NSN
TRUCK, CARGO, WITH WINCH, M977	2320-01-097-0260
TRUCK, CARGO, WITHOUT WINCH, M977	2320-01-099-6426
TRUCK, TANK, FUEL, WITH WINCH, M978	2320-01-097-0249
TRUCK, TANK, FUEL, WITHOUT WINCH, M978	2320-01-100-7672
TRUCK, TRACTOR, WITH WINCH, WITHOUT CRANE, M983	2320-01-097-0247
TRUCK, TRACTOR, WITH WINCH, WITH CRANE, M983	2320-01-099-6421
TRUCK, WRECKER-RECOVERY, M984	2320-01-097-0248
TRUCK, WRECKER-RECOVERY, M984E1	2320-01-195-7641
TRUCK, CARGO, WITH WINCH, M985	2320-01-097-0261
TRUCK, CARGO, WITHOUT WINCH, M985	2320-01-100-7673
TRUCK, CARGO, WITH WINCH, M985E1	2320-01-194-7032
TRUCK, CARGO, WITHOUT WINCH, M985E1	2320-01-194-7031

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HEADQUARTERS,
DEPARTMENT OF THE ARMY
JUNE 1987
CHANGE 3 DECEMBER 1998

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DEPARTMENT OF THE ARMY

No. 9-2320-279-10

Washington, DC, 15 June 1987

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) Web site. The Internet address is <http://aeprs.ria.army.mil>. If you need a password, scroll down and click on "ACCESS REQUEST FORM." The DA Form 2028 is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax, or e-mail your letter or DA Form 2028 direct to: AMSTA-LC-CI/TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0126 or Commercial (309) 782-0726.

M983 with crane and M985E1 without winch are no longer in the fleet. Ignore all references to these vehicles. The M984E1 and M984A1 are the same vehicle. All references to M984E1 shall be interpreted as the M984A1 model.

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***: Refer to Volume No. 1 (TM 9-2320-279-10-1) for the List of References, the Components of End Item and Basic Issue Items Lists, the Additional Authorization List, and the Expendable Supplies and Materials List for the M984A1 truck.

HOW TO USE THIS MANUAL

This manual is designed to help operate and maintain the M977 series vehicles, Volume 1 of this manual contains instructions that are common to the M984A1 and other M977 series vehicles. Volume 2 contains unique operator instructions for the M984E1 Wrecker-Recovery vehicle. In addition to this manual, TM 9-2320-355-10 provides unique operator instructions for the M985E1 Guided Missile Transporter (GMT) and TM 9-2320-354-10 provides unique operator instructions for the M984 wrecker vehicle. Listed below are some of the special features which have been included 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.
- Each chapter begins with a Table of Contents listing all paragraph headings in the chapter.
- Warning, caution, and note headings, subject headings, and certain other essential information are printed in bold type to make them easier to see.

FOLLOW THESE GUIDELINES WHEN USING THIS MANUAL:

- The driver must read through this manual and become familiar with the content before attempting to operate the vehicle.
- Read all WARNINGS and CAUTIONS before performing any procedures.

CHAPTER 1

INTRODUCTION (CONT)

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Section I. GENERAL INFORMATION

Vehicle Model

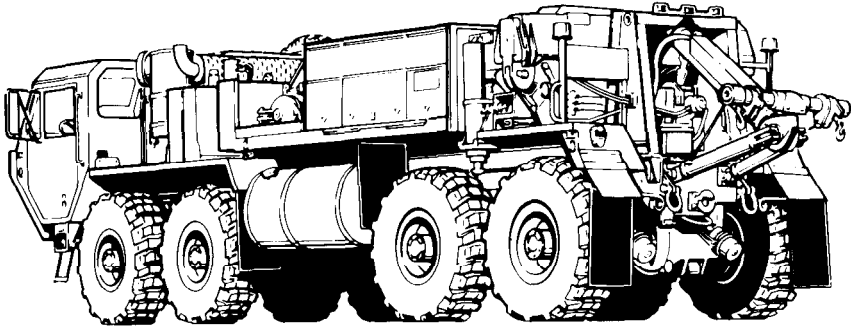
1-19. SCOPE. This volume is used for operation and operator-performed maintenance of the 95,000-lb (43 000 kg) GVWR, 8x8, M984E1 wrecker-recovery vehicle. Refer to Volume 1 of this manual for description of all other models of the M977 series vehicles.

Model Description

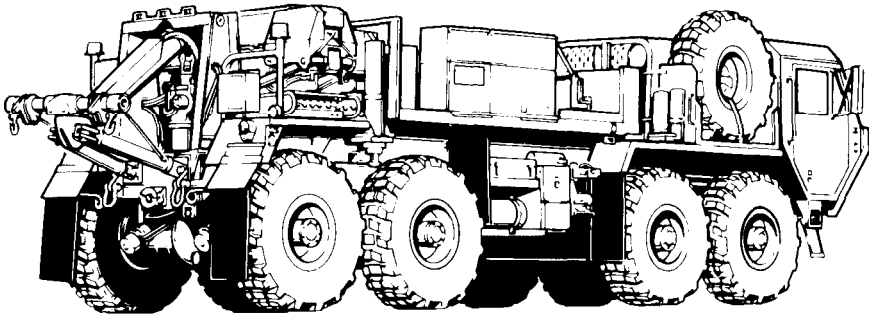
M984E1 Wrecker vehicle with 95,000-lb (43 000 kg) GVWR and 114,000-lb (51 700 kg) GCWR that can be increased to 155,000-lb (70 370 kg) GCWR under certain conditions. Vehicle is equipped with material handling crane with 6,000-lb (2 722 kg) load capacity at 18.2 ft (5.5 m) boom radius 60,000-lb (27 240 kg) recovery winch, and equipment body with 10 stowage compartments (fig. 1-21).

Vehicle Model (Cont)

1-19. SCOPE (CONT).



LEFT REAR VIEW



RIGHT REAR VIEW

TA475463

Figure 1-21. M984E1 Wrecker-Recovery Vehicle.

Equipment and Maintenance Reports

1-20. MAINTENANCE FORMS AND RECORDS. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by PAM 738-750, The Army Maintenance Management System (TAMMS).

1-21. EQUIPMENT IMPROVEMENT REPORT AND MAINTENANCE DIGEST (EIR MD) AND EQUIPMENT IMPROVEMENT REPORT AND MAINTENANCE SUMMARY (EIR MS). The quarterly Equipment Improvement Report and Maintenance Digest, TB 43-0001-39 series contains valuable field information on equipment covered in this manual. Information in the TB 43-0001-39 series is compiled from some of the Equipment Improvement Reports that have been prepared on vehicles covered in this manual. Many of these articles result from comments, suggestions, and improvement recommendations that were submitted to the EIR program. The TB 43-0001-39 series contains information on equipment improvements, minor alterations,

Equipment and Maintenance Reports (Cont)

proposed Modification Work Orders (MWO's), warranties (if applicable), actions taken on some of the DA Form 2028's (Recommended Changes to Publications), and advance information on proposed changes that may affect this manual. Significant maintenance articles, including minor alterations and field-fixes, are republished in the Equipment Improvement Report and Maintenance Summary (EIR MS) for TACOM Equipment (TM 43-0143). Refer to the TB 43-0001-39 series and TM 43-0143 periodically for the most current and authoritative information on the equipment. The information will help to do a better job and will advise of the latest changes to this manual. Also refer to DA Pam 25-30, Consolidated Index of Army Publications and Blank Forms, and Appendix A, References, of this manual.

1-22. HAND RECEIPT (HR) MANUALS. This manual has a companion document with a TM number followed by "-HR" (Hand Receipt). The TM 9-2320-279-10-HR consists of preprinted hand receipts (DA Form 2062) that list end item related equipment (COEI, BII, and AAL) which must be accounted for. As an aid to property accountability, additional -HR manuals may be requisitioned from the following source in accordance with procedures in Chapter 12, AR 25-30:

Commander
US Army Adjutant General Publications Center
ATTN: AGDM-OD
2800 Eastern Blvd.
Baltimore, MD 21220

1-23. SUBMITTING QUALITY DEFICIENCY REPORTS (QDR). If your vehicle needs improvement, let us know. Send us a QDR. 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 or performance. Put it on an SF368 (Quality Deficiency Report). Mail it to Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630. You can also provide information to TACOM via datafax or e-mail. TACOM's datafax number is: DSN 793-0726 or (309) 782-0726. E-mail address: amsta-ac-nml@ria-emhl.army.mil

1-24 WARRANTY INFORMATION. The M977 series vehicles are warranted by Oshkosh Truck Corporation for 12 months or 12,000 miles (19 308 km), whichever comes first. The warranty starts on the date found in block 23, DA Form 2408-9, in the logbook. Report all defects in material or workmanship to the supervisor, who will take appropriate action through the organizational maintenance shop. Refer to TB 9-2320-279-14 for more information on the warranty procedures for the M977 series vehicles.

1-25. METRIC SYSTEM. The equipment described in Volume 1 contains metric components and requires metric, common, and special tools. Therefore, metric units and English units will be used throughout this publication. An English-to-metric conversion table is included as the last page of this manual inside the back cover.

Abbreviation References

1-26. REFERENCE INFORMATION. This listing includes the nomenclature cross-reference list and a list of abbreviations used in this manual.

a. Nomenclature Cross-Reference List.

Common Name	Official Nomenclature
Engine Coolant	- Antifreeze, ethylene glycol mixture
Cold Start System	- Ether quick-start system
Cable	- Wire rope
Jacobs® Brake	- Engine retarder
Glad Hand	- Quick disconnect coupling

b. Abbreviations.

AAL	Additional Authorization List
BII	Basic Issue Items
BL	Bottom Load
C	Celsius
CID	Cubic Inch Displacement
COEI	Components of End Item
EIR's	Equipment Improvement Recommendations
F	Fahrenheit
FHTV	Family of Heavy Tactical Vehicles (with electronic engine and transmission controls)
GCWR	Gross Combination Weight Rating
GPFU	Gas Particulate Filter Unit
GVWR	Gross Vehicle Weight Rating
kg	Kilogram
kPa	Kilopascals
Kmh	Kilometer per hour
KW	Kilowatt
L	Liter
LH	Left hand
mm	Millimeter
NBC	Nuclear, Biological, Chemical
N•m	Newton meter
O/R	Outrigger
PMCS	Preventive Maintenance Checks and Services
PTO	Power takeoff
RH	Right hand
XHD	Extra heavy-duty