

TECHNICAL MANUAL
 TRANSPORTABILITY GUIDANCE

HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMTT), 10-TON, 8x8
 TRUCK, CARGO, TACTICAL, 10-TON, 8x8, WITH LIGHT CRANE, M977
 WOWN (NSN 2320-01-099-6426)
 WWN (NSN 2320-01-097-0269)

TRUCK, FUEL-SERVICING, 10-TON, M978
 WOWN (NSN 2320-01-100-7672)
 WWN (NSN 2320-01-097-0249)

TRUCK, TRACTOR, 10-TON, 8x8, M983
 WITH 2-INCH FIFTH WHEEL (NSN 2320-01-099-6421) (W/CRANE)
 WITH 3.5-INCH FIFTH WHEEL (NSN 2320-01-097-0247) (W/O CRANE)

TRUCK, WRECKER, RECOVERY, 10-TON, 8x8, M984E1
 (NSN 2320-01-195-7641)

TRUCK, CARGO, TACTICAL, 10-TON 8x8, WITH MEDIUM CRANE, M985
 WOWN (NSN 2320-01-100-7673)
 WWN (NSN 2320-01-097-0261)

TRUCK, WRECKER, RECOVERY, 10-TON, 8x8, M984
 (NSN 2320-01-097-0248)

TRUCK, CARGO, TACTICAL, 10-TON, 8x8, M985E1,
 GUIDED MISSILE TRANSPORTER (GMT)
 WOWN (NSN 2320-01-194-7031)
 WWN (NSN 2320-01-194-7032)

TECHNICAL MANUAL }
 No. 55-2320-279-14 }

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON, DC, 29 January 1987

**TECHNICAL MANUAL
 TRANSPORTABILITY GUIDANCE**

HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMTT), 10-TON, 8x8

TRUCK, CARGO, TACTICAL, 10-TON, 8x8, WITH LIGHT CRANE, M977

WOWN (NSN 2320-01-099-6426)

WWN (NSN 2320-01-097-0269)

TRUCK, FUEL-SERVICING, 10-TON, M978

WOWN (NSN 2320-01-100-7672)

WWN (NSN 2320-01-097-0249)

TRUCK, TRACTOR, 10-TON, 8x8 M983

WITH 2-INCH FIFTH WHEEL (NSN 2320-01-099-6421) (W/CRANE)

WITH 3.5-INCH FIFTH WHEEL (NSN 2320-01-097-0247) (W/O CRANE)

TRUCK, WRECKER, RECOVERY, 10-TON, 8x8, M984E1

(NSN 2320-01-195-7641)

TRUCK, CARGO, TACTICAL, 10-TON, 8x8, WITH MEDIUM CRANE, M985

WOWN (NSN 2320-01-100-7673)

WWN (NSN 2320-01-097-0261)

TRUCK, WRECKER, RECOVERY, 10-TON, 8x8, M984

(NSN 2320-01-097-0248)

TRUCK, CARGO, TACTICAL, 10-TON, 8x8, M985E1 ,

GUIDED MISSILE TRANSPORTER (GMT)

(WOWN (NSN 2320-01-194-7031)

(WWN (NSN 2320-01-194-7032)

	Paragraph	Page
CHAPTER 1. INTRODUCTION		
Purpose and Scope	1-1	1-1
Safety	1-2	1-1
Definitions of Warnings, Cautions, and Notes	1-3	1-1
Reporting of Recommendations and Comments	1-4	1-1
CHAPTER 2 TRANSPORTABILITY DATA		
SECTION I. GENERAL		
Scope	2-1	2-1
Description	2-2	2-1
Transportability Drawings	2-3	2-3
II. CHARACTERISTICS AND RELATED DATA		
General Transportability Characteristics	2-4	2-8
Unusual Characteristics	2-5	2-10
Hazardous and Dangerous Characteristics	2-6	2-11
CHAPTER 3. SAFETY		
CHAPTER 4. AIR TRANSPORTABILITY GUIDANCE		
Scope	4-1	4-1
Maximum Utilization of Aircraft	4-2	4-1
Applicability	4-3	4-1
Safety	4-4	4-1
Preparation of Equipment	4-5	4-1
Transport by US Air Force Aircraft	4-6	4-2
Internal and External Transport by US Army Aircraft	4-7	4-6
CHAPTER 5. HIGHWAY TRANSPORTABILITY GUIDANCE		
SECTION I. GENERAL		
Scope	5-1	5-1
Safety	5-2	5-1
General	5-3	5-1
II. SELF-PROPELLED MOVEMENT		
US Highways	5-4	5-1
European Highways	5-5	5-1
Other Countries	5-6	5-1
III. TRANSPORT BY SEMITRAILER		
General	5-7	5-1
Preparation for Transport	5-8	5-2
Loading and Tiedown on semitrailer	5-9	5-2
CHAPTER 6. MARINE AND TERMINAL TRANSPORTABILITY GUIDANCE		
SECTION I. GENERAL		
Scope	6-1	6-1
Safety	6-2	6-1
Water Shipment	6-3	6-1
II. LOADING AND SECURING		
General Rules for Stowing	6-4	6-1
Special Design Ships	6-5	6-7
Barges and Lighters	6-6	6-7
Landing Ships, Landing Craft, and Amphibious Vehicles	6-7	6-7
CHAPTER 7. RAIL TRANSPORTABILITY GUIDANCE		
SECTION I. GENERAL		
Scope	7-1	7-1
Maximum Utilization of Railcars	7-2	7-1
Safety	7-3	7-1
II. TRANSPORT OF CONUS RAILWAYS		
General	7-4	7-1
Preparation for Loading	7-5	7-1
Loading on General Purpose Flatcars	7-6	7-1
Loading on Special (Chain Tiedown) Flatcars	7-7	7-4
III. TRANSPORT ON FOREIGN RAILWAYS		
General	7-8	7-9
Transport on Foreign-Service Flatcars	7-9	7-9

CHAPTER 1

INTRODUCTION

1-1. Purpose and Scope

a. This manual provides transportability guidance for logistical handling and movement of the heavy expanded mobility tactical truck (HEMTT), models M977, M978, M983, M984, M984E1, M985, and M985E1 (GMT). It contains information considered appropriate for safe transport of the trucks. Included are technical data, as well as safety considerations, which will be useful in planning for worldwide movement by the various transportation modes. Where considered appropriate, metric equivalents are given in parentheses following the dimensions or other measurements.

b. This manual is intended for transportation of officers and other personnel responsible for movement of HEMTTs or for providing transportation services.

1-2. Safety

Precautionary measures required during movement of the HEMTT are contained in chapter 3.

1-3. Definitions of Warnings, Cautions, and Notes

Throughout this manual, warnings, cautions, and notes emphasize important or critical guidance. They are used for the following conditions:

a. Warning. Instructions that, if not followed, could result in injury to or death of personnel.

b. Caution. Instructions that, if not strictly observed, could result in damage to or destruction of equipment.

c. Note. An operating procedure or condition that must be emphasized.

1-4. Reporting of Recommendations and Comments

Users of this manual are encouraged to submit comments and make recommended changes for its improvement. Comments and recommendations should be prepared on DA Form 2028 (Recommended Changes to DA Publications and Blank Forms) and forwarded to Commander, Military Traffic Management Command Transportation Engineering Agency, ATTN: MTT-TRS, PO Box 6276, Newport News, VA 23606-0276. Electrically transmitted messages should be addressed to CDR MIMCTEA FT EUSTIS VA//MTT-TRS//. A reply will be furnished by this command.

CHAPTER 2

TRANSPORTABILITY DATA

Section I. GENERAL

2-1. Scope

This chapter provides a general description and identification photographs of the HEMTTs, as well as tabulated data that will assist in the movement of the vehicles.

2-2. Description

a. *General.* The HEMTT is a 10-ton, 8x8 truck with a diesel engine, an automatic transmission,

and an 11-ton load capacity. Each vehicle, except for the M983 truck tractor (PATRIOT) and the M978 fuel-servicing truck, is equipped with a crane for self-loading and unloading.

b. *M977 Truck, Cargo, 10-Ton, 8x8.* This HEMTT is equipped with a 7-ton capacity crane and is shown in figure 2-1.

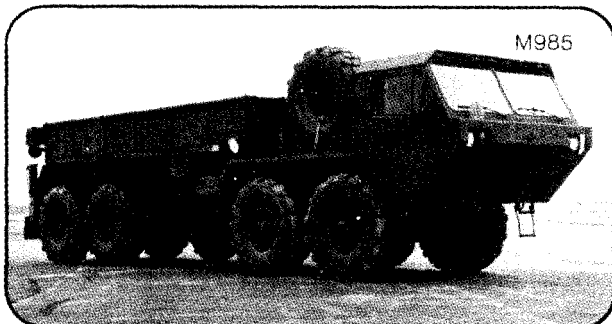
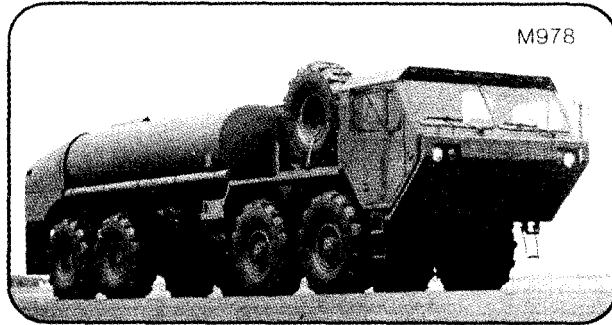


Figure 2-1. HEMTT family of 10-ton, x8 vehicles.

c. M978 Truck, Fuel-Servicing, 10-Ton, 8x8. This HEMTT has a 2,500-gallon capacity and is shown in figure 2-1.

d. M983 Truck, Tractor, 10-Ton, 8x8. This HEMTT is issued with two different fifth wheels. The tractor (NSN 2320-01-099-6421) with crane and 2-inch fifth wheels is used with the PER-SHING II missile system and semitrailers with 2-inch kingpins. The tractor (NSN 2320-01-097-0247) without crane and with the 3.5-inch fifth wheels is used with the PATRIOT missile system and semitrailers with 3.5-inch kingpins (fig 2-1).

e. M984E1 Truck, Wrecker, Recovery, 10-Ton, 8x8. This HEMTT has a crane with a 14,000-pound capacity at 9 feet and a cargo bed (fig 2-1).

f. M985 Truck, Cargo, 10-Ton, 8x8. This HEMTT has a crane with a 5,400-pound capacity at 16.5 feet (fig 2-1).

g. M985E1 Truck, Cargo, 10-Ton, 8x8, Guided Missile Transporter (GMT). The M985E1 is the same as the M985 except that the length is 420.5 inches. The bed is lengthened to receive PATRIOT missile rounds.

2-3. Transportability Drawings

Detailed transportability drawings of the HEMTTs, with dimensions and tiedown and lifting provision load-rating capacities, are shown in figures 2-2 through 2-5.