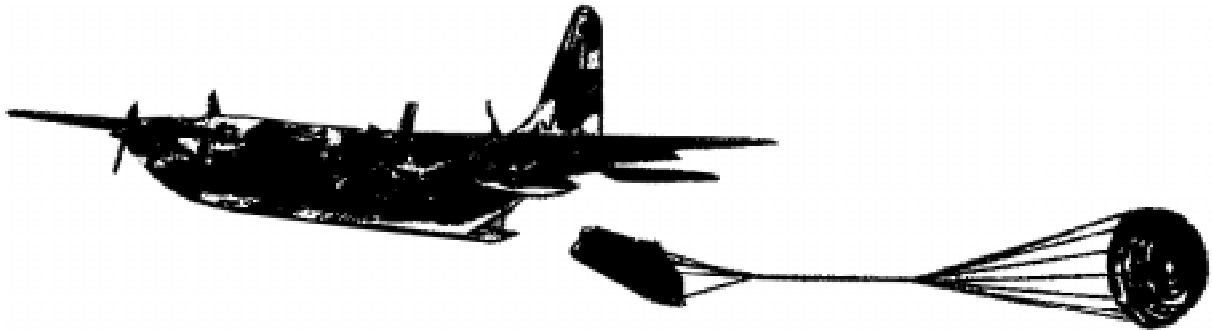
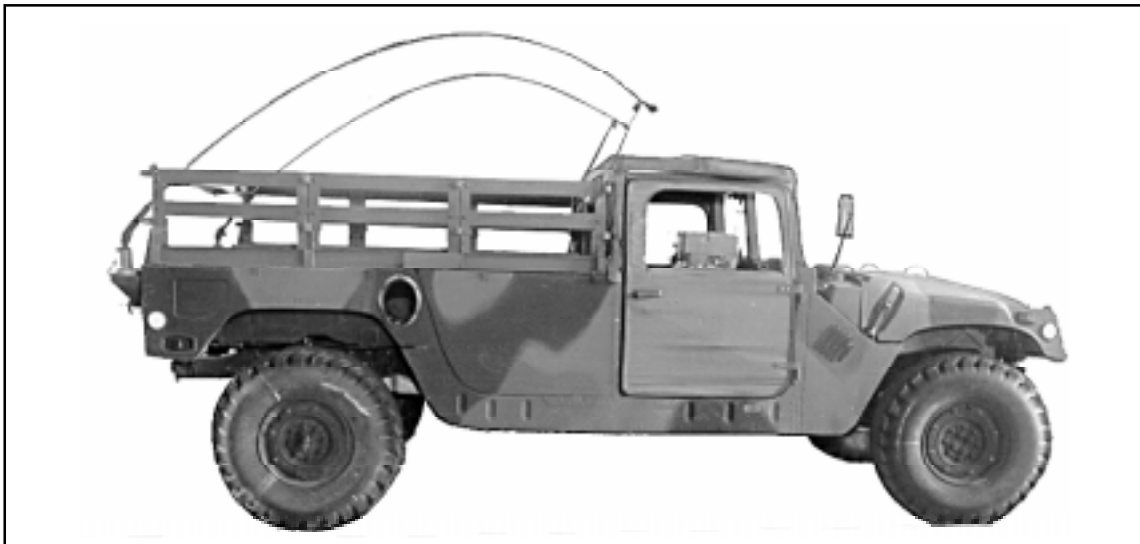


**ARMY FM 4-20.117 (FM 10-517)
AIR FORCE TO 13C7-1-111**



AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING HIGH-MOBILITY MULTIPURPOSE WHEELED VEHICLES



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DEPARTMENT OF THE AIR FORCE**

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NO 4-20.117

TECHNICAL ORDER
NO 13C7-1-111

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DEPARTMENT OF THE AIR FORCE
Washington,DC, 1 October 2001

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*This publication supercedes FM 10-517/TO 13C7-1-5, 14 November 1989.

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PREFACE

SCOPE

This manual tells and shows how to rig HMMWV-series trucks in the Army inventory at the time of publication for low-velocity parachute airdrop. Some specialized truck configurations and loads are included.

USER INFORMATION

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions and to suggest ways of making this a better manual.

Army personnel, send your comments on DA Form 2028 directly to:

Director
Aerial Delivery and Field Services Department
USA Quartermaster Center and School
1010 Shop Road
Fort Lee, Virginia 23801-1502

Air Force personnel, send your reports on AFTO Form 22 through:

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Scott AFB, Illinois 62225-5302

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1010 Shop Road
Fort Lee, Virginia 23801-1502

Also send an information copy of AFTO Form 22 to:

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460 Richard Ray Blvd
Warner Robbins AFB, GA 31098-1640

CHAPTER 1

INTRODUCTION

DESCRIPTION OF ITEMS

1-1. The HMMWV-series trucks that can be rigged using the procedures in this manual are listed below.

a. M998 Cargo/Troop Carriers. The M998 truck weighs 5,200 pounds. It is 180 inches long and 85 inches wide. The reduced height of the truck is 54 inches.

The M998A1 truck weighs 5,380 pounds. Its length is 180 inches and its width is 86 inches. The reduced height is 56 inches.

b. M1038 Cargo/Troop Carriers With Winch. The M1038 truck weighs 5,327 pounds. It is 186 inches long and 85 inches wide. The reduced height of the truck is 54 inches.

The M1038A1 truck weighs 5,507 pounds. Its length is 186 inches and its width is 86 inches. The reduced height is 56 inches.

c. M1025 Armament Carriers, Armored. The M1025 truck weighs 5,960 pounds. It is 180 inches long and 85 inches wide. The reduced height of the truck is 74 inches.

The M1025A1 truck weighs 6,140 pounds. Its length is 180 inches and its width is 86 inches. The reduced height is 74 inches.

The M1025A2 truck weighs 6,780 pounds. Its length is 191 inches and its width is 86 inches. The reduced height is 74 inches.

d. M1025A2 Armament Carrier (Modified), With Winch. This is NOT the same carrier as the M1025A2. External and internal modifications have been made to support special operations. The M1025A2 (modified) carrier weighs 7,020 pounds. It is 191 inches long and 86 inches wide.

e. M1026 Armament Carriers, Armored With Winch. The M1026 truck weighs 6,087 pounds. It is 186 inches long and 85 inches wide. The reduced height of the truck is 74 inches.

The M1026A1 truck weighs 6,267 pounds. Its length is 186 inches and its width is 86 inches. The reduced height is 74 inches.

f. M1026 Armament Carrier (Modified). This is NOT the same carrier as the M1026. External and internal modifications have been made to support special operations. The M1026 (modified) carrier weighs 6,087 pounds. It is 185 inches long and 85 inches wide. The reduced height of the truck is 69 inches.

g. M966 TOW Carriers, Armored. The M966 truck weighs 6,051 pounds. It is 180 inches long and 85 inches wide. The reduced height of the truck is 74 inches.

The M966A1 truck weighs 6,231 pounds. Its length is 180 inches and its width is 86 inches. The reduced height is 74 inches.

h. M1036 TOW Carrier, Armored With Winch. The M1036 truck weighs 6,178 pounds. It is 186 inches long and 85 inches wide. The reduced height of the truck is 74 inches.

i. M1121 TOW Carrier, Armored. The M1121 truck weighs 7,900 pounds. It is 180 inches long and 85 inches wide. The reduced height of the truck is 74 inches.

j. M1043 Armament Carriers, With Supplemental Armor. The M1043 truck weighs 6,411 pounds. It is 180 inches long and 85 inches wide. The reduced height of the truck is 74 inches.

The M1043A1 truck weighs 6,591 pounds. Its length is 180 inches and its width is 86 inches. The reduced height is 74 inches.

The M1043A2 truck weighs 7,230 pounds. Its length is 191 inches and its width is 86 inches. The reduced height is 74 inches.

k. M1044 Armament Carriers, With Supplemental Armor and Winch. The M1044 truck weighs 6,411 pounds. It is 186 inches long and 85 inches wide. The reduced height of the truck is 74 inches.

The M1044A1 truck weighs 6,718 pounds. Its length is 186 inches and its width is 86 inches. The reduced height is 74 inches.

l. M1045 Armament Carriers, With Supplemental Armor. The M1045 truck weighs 6,438 pounds. It is 180 inches long and 85 inches wide. The reduced height of the truck is 74 inches.

The M1045A1 truck weighs 6,618 pounds. Its length is 180 inches and its width is 86 inches. The reduced height is 74 inches.

The M1045A2 truck weighs 7,258 pounds. Its length is 191 inches and its width is 86 inches. The reduced height is 74 inches.

m. M1046 TOW Carriers, With Supplemental Armor and Winch. The M1046 truck weighs 6,565 pounds. It is 186 inches long and 85 inches wide. The reduced height of the truck is 74 inches.

The M1046A1 truck weighs 6,745 pounds. Its length is 186 inches and its width is 86 inches. The reduced height is 74 inches.

n. M1037 S250 Shelter Carrier. The M1037 truck weighs 5,425 pounds. It is 191 inches long and 85 inches wide. The reduced height, without the shelter, is 54 inches.

o. M1037 Cargo/Troop Carrier (Modified), With Winch. This is NOT the same carrier as the M1037. External and internal modifications have been made to support artillery operations. The M1037 (modified) is 185 inches long and 85 inches wide. The reduced height of the truck is 70 inches.

p. M1042 S250 Shelter Carrier, With Winch. The M1042 truck weighs 5,551 pounds. It is 197 inches long and 85 inches wide. The reduced height, without the shelter, is 54 inches.

q. M1097 Truck, Utility, Heavy Variant. The M1097 truck weighs 5,600 pounds. It is 191 inches long and 86 inches wide. The reduced height of the truck is 56 inches.

The M1097A1 truck weighs 5,600 pounds. Its length is 191 inches and its width is 86 inches. The reduced height is 56 inches.

The M1097A2 truck weighs 5,900 pounds. Its length is 191 inches and its width is 86 inches. The reduced height is 56 inches. This truck may have a winch.

r. M1113 Truck, Utility, Expanded Capacity. The M1113 truck weighs 6,190 pounds. It is 197 inches long and 86 inches wide. The reduced height of the truck is 56 inches. This truck may have a winch.

s. M1114 Armament Carrier, Expanded Capacity, Up-Armored, With Winch. The M1114 truck weighs 9,800 pounds. It is 197 inches long and 86 inches wide. The reduced height of the truck is 74 inches.

SPECIAL CONSIDERATIONS

1-2. Special considerations for this manual are listed below.

a. The loads covered in this manual may include hazardous materials as defined in AFJMAN 24-204/TM 38-250. If included, the hazardous material must be packaged, marked, and labeled as required by AFJMAN 24-204/TM 38-250.

b. A copy of this manual must be available to the joint airdrop inspectors during the before- and after-loading inspections.

CAUTION
Only ammunition listed in FM 10-500-53/MCRP
4-3.81/TO 13C7-18-41 may be airdropped.