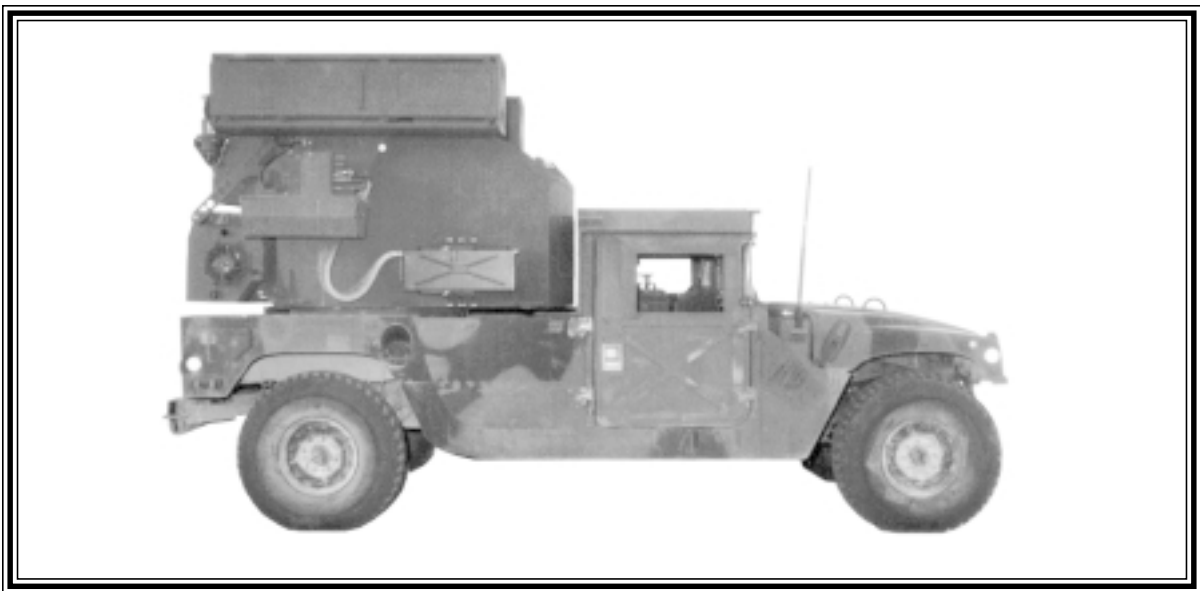


**AIRDROP OF SUPPLIES AND EQUIPMENT:**

# **RIGGING STINGER WEAPON SYSTEMS AND MISSILES**



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**HEADQUARTERS  
DEPARTMENT OF THE ARMY  
DEPARTMENT OF THE AIR FORCE**

FIELD MANUAL  
No. 10-550  
TECHNICAL ORDER  
No. 13C7-22-71

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DEPARTMENT OF THE ARMY  
DEPARTMENT OF THE AIR FORCE  
WASHINGTON, DC, 29 May 1984

**AIRDROP OF SUPPLIES AND EQUIPMENT:  
RIGGING STINGER WEAPON SYSTEMS AND MISSILES**

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## PREFACE

### SCOPE

This manual tells and shows how to prepare and rig the Stinger weapon systems and missiles in A-21 and A-22 cargo bags, and on the type II and type V platforms for low-velocity airdrop from C-5, C-130, C-141, and C-17 aircraft. It tells and shows how to rig the stinger weapon systems and missiles on LAPE and type V platforms for LAPE airdrop from C-130 aircraft. This manual tells and shows how to rig the Avenger air defense weapon system with the modified environmental control unit for low-velocity airdrop from the C-17, C-5, C-141, and C-130 aircraft. This manual is designed for use by all parachute riggers.

### USER INFORMATION

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions and to suggest ways to make 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:

Headquarters  
Air Mobility Command (AMC/DOKT)  
402 Scott Drive, Unit 3A1  
Scott AFB, Illinois 62225-5302

Air Force personnel in Special Operations Command, send your reports on AFTO Form 22 through:

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100 Bartley St., Suite 260  
Hurlburt Field, Florida 32544-5273

## CHAPTER 1

## INTRODUCTION

**1-1. Description of Items**

The description of the items covered in this manual is as follows:

- a. The Stinger missile, in a wooden box, weighs 74 pounds; it is 67 inches long, 14 inches wide, and 12 inches high.
- b. The Stinger weapon system, in a metal case, weighs 87 pounds; it is 66 inches long, 13 inches wide, and 13 inches high.
- c. The M151, 1/4-ton truck weighs 2,410 pounds. It is 133 inches long, 64 inches wide, and 71 inches high (reducible to 52 inches).
- d. The M416, 1/4-ton trailer weighs 570 pounds. It is 109 inches long, 61 inches wide, and 44 inches high.
- e. The M 998, 1 1/4-ton HMMWV-series truck weighs 5,500 pounds. It is 185 inches long, 85 inches wide, and 70 inches high.
- f. The M1097, 1 1/4-ton, HMMWV-series truck used in the Avenger air defense weapon system weighs between 5,750 pounds and 5,900 pounds. It is 188.5 inches long, 86 inches wide, and 72 inches high. This truck with the Avenger turret mounted is 104 inches high.

- g. The Avenger weapon system turret is 69.25 inches high, when removed from the truck. It is 85 inches wide and 86.6 inches long. The Avenger turret with the modified Environmental Control Unit (ECU) is 91 inches long.

**1-2. Special Considerations**

**CAUTION:** Only ammunition listed in FM 10-500-53/MCRP 4-3.8/TO 13C7-18-41 may be airdropped.

- 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. FM 10-517/TO 13C7-1-111 must be used to rig loads that include HMMWV series trucks.
- c. A copy of this manual must be available to the joint airdrop inspectors during the before- and after-loading inspections.

## CHAPTER 3

## RIGGING STINGER WEAPON SYSTEMS AND MISSILES IN AN A-22 CARGO BAG FOR LOW-VELOCITY AIRDROP

### 3-1. Description of Load

Four Stinger weapon systems and two missiles are rigged in an A-22 cargo bag with a G-12E cargo parachute.

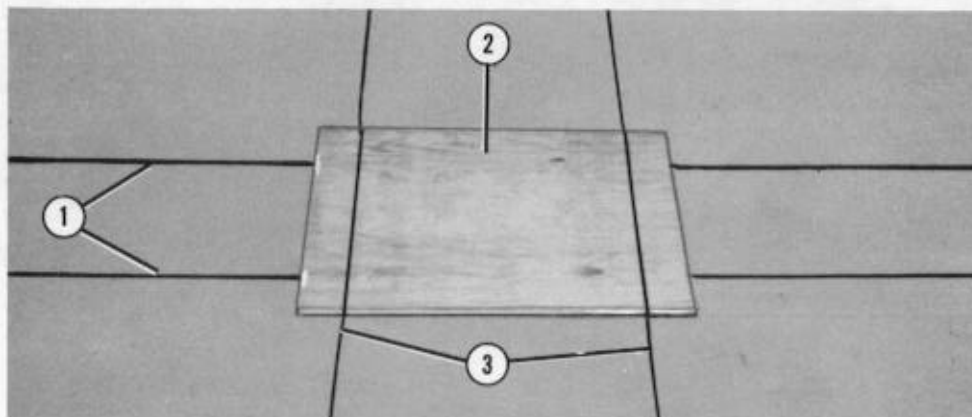
**NOTE:** This load can only be dropped in a single-stick configuration (non-CVRS).

### 3-2. Preparing Skid and Honeycomb

Prepare the skid and honeycomb as shown in Figures 3-1 through 3-6.

### 3-3. Positioning Weapons and Missiles

Position the weapons and missiles as shown in Figures 3-7 through 3-9.



- ① Place two 15-foot lengths of steel strapping 36 inches apart.

**NOTE:** Be sure that the steel strapping is 6 inches from the outside edges of the plywood, measured from the outside edge of the steel strapping. Failure to maintain these distances will result in rejection of the load.

- ② Place a 3/4- by 48- by 66-inch piece of plywood on top of and parallel to the steel strapping.
- ③ Place two 15-foot lengths of steel strapping on top of the plywood along the 48-inch sides and 56 inches apart.