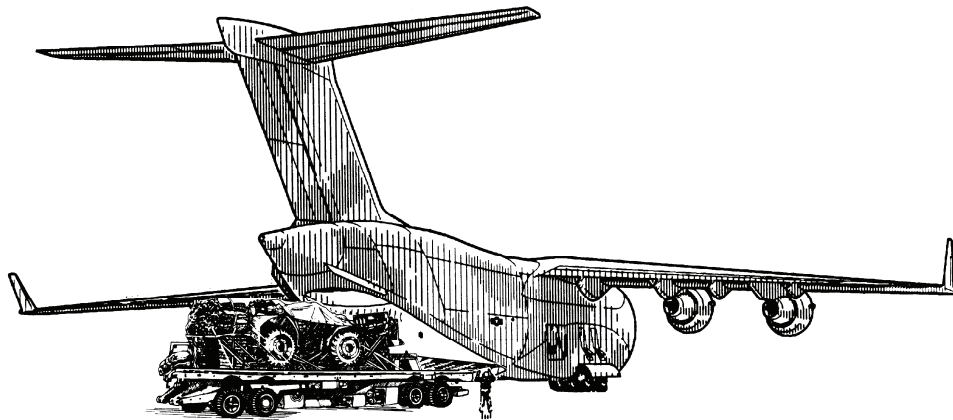


FM 4-20.152 (FM 10-552)
TO 13C7-22-61

**Airdrop of Supplies and Equipment:
Rigging Dragon and Javelin Missiles**

SEPTEMBER 2007



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No. 4-20.152 (10-552)
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Headquarters
Department of the Army
Department of the Air Force
Washington, DC, 6 September 2007

AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING DRAGON AND JAVELIN MISSILES

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Preface

SCOPE

This manual tells and shows how to prepare and rig the Dragon and Javelin antitank/assault missiles for low-velocity airdrop from C-130 or C-17 aircraft. This manual is designed for all parachute riggers.

USER INFORMATION

The proponent of this publication is the United States Training and Doctrine Command 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:

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This publication applies to the Active Army, the Army National Guard/Army National Guard of the United States, and the United States Army Reserve unless other stated.

Unless this publication states otherwise, masculine nouns and pronouns do not refer exclusively to men

Introduction

DESCRIPTION OF ITEMS

The descriptions of the items rigged in this manual are given below:

Dragon or Dragon II Missiles

- Nine one-round containers are rigged in an A-22 cargo bag on a standard skid for a low-velocity airdrop.
- One 15-round container is rigged in an A-22 cargo sling on a standard skid for a low-velocity airdrop.
- Thirty-six one-round containers are rigged on an 8-foot type V platform for a low-velocity airdrop.
- Four 15-round containers are rigged on an 8-foot type V platform for a low-velocity airdrop.
- Four A-22 cargo bags with nine one-round containers in each A-22 cargo bag are rigged on an 8-foot type V platform for low-velocity airdrop.
- Four A-22 cargo slings with four 15-round containers are rigged on an 8-foot type V platform for low-velocity airdrop.

Javelin Missiles

- Rigging Two-Round A-7A door bundle for low-velocity airdrop.
- Rigging Four-Round A-7A door bundle for low-velocity airdrop.
- Rigging Nine-Round Container Delivery System (CDS) rigged in an A-22 stretch container for low-velocity airdrop.
- Rigging Javelin Missile Containers (plastic) in an A-22 container cargo bag assembly for low-velocity airdrop.
- Rigging thirty-Six Javelin Rounds as a mass supply load on a 12-foot type V, platform for low-velocity airdrop.
- Rigging Javelin Missile Containers (plastic) on an 8-foot, type V platform for low-velocity airdrop.
- Rigging Javelin Missile Containers on a 16-foot, type V platform for low-velocity airdrop.

SPECIAL CONSIDERATIONS

Special considerations for this manual are given below.

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

CAUTION

Only ammunition listed in FM 4-20.153/MCRP 4-11.3B/TO 13C7-18-41 may be airdropped.

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

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Chapter 1

Rigging Dragon Missiles in an A-22 Cargo Bag

SECTION I-RIGGING NINE ONE-ROUND CONTAINERS

DESCRIPTION OF LOAD

1-1. Nine one-round containers (Figure 1-1) are rigged in an A-22 cargo bag on a standard skid. Each container is 47 ½ inches long, 16 inches wide, 16 inches high, and weighs 67 pounds. The rigged load uses either one G-12 or three G-14 cargo parachutes for low-velocity airdrop from a C-130 or C-17 aircraft.

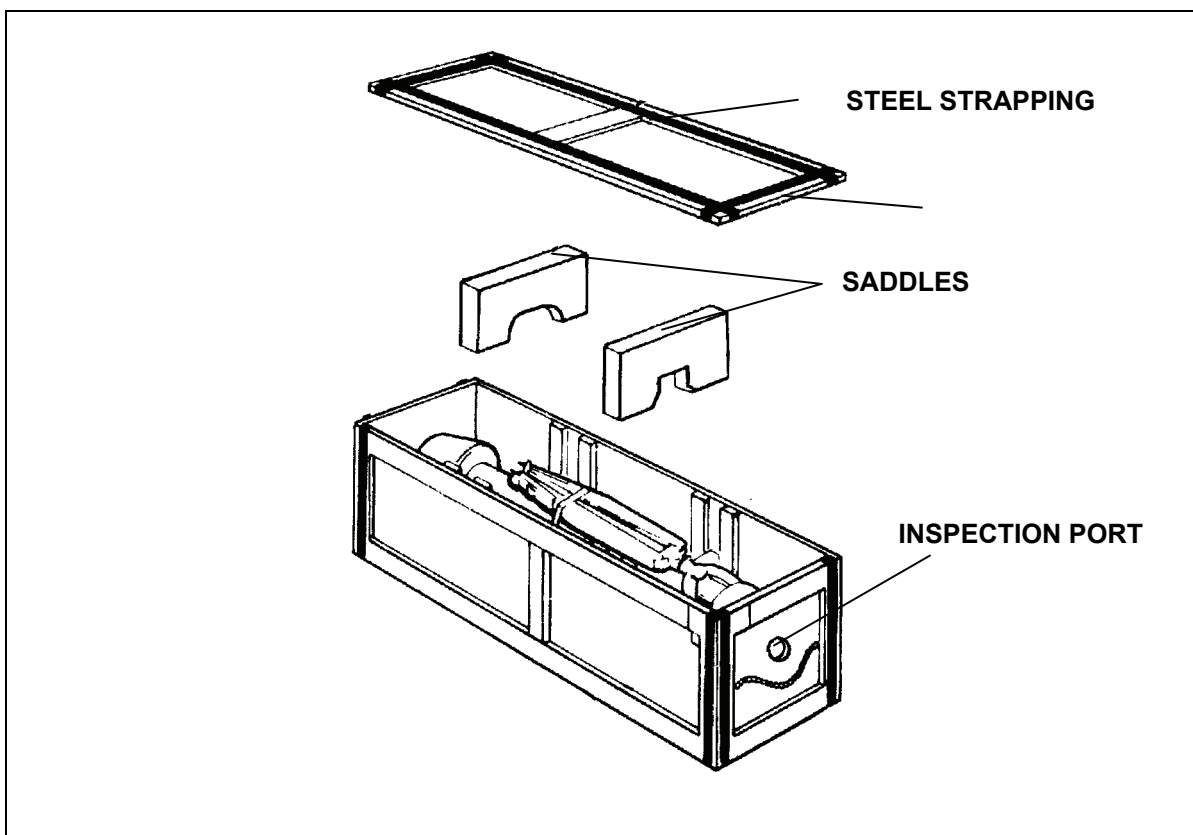
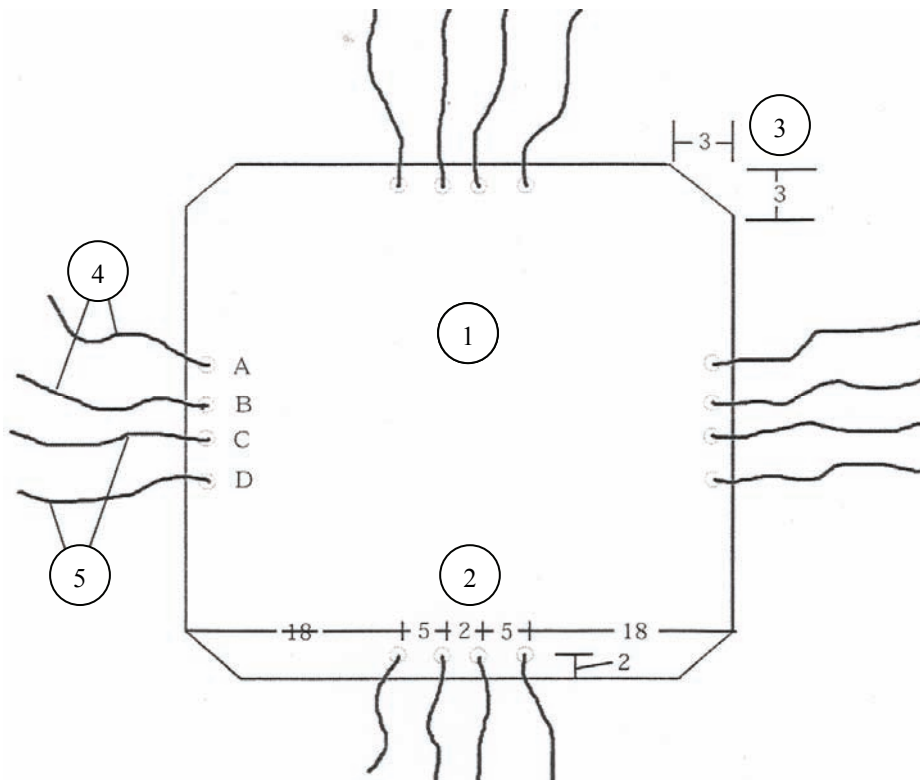


Figure 1-1. Dragon Missile in a One-Round Container

RIGGING LOAD

1-2. Rig nine one-round containers in an A-22 cargo bag according to FM 4-20.103/MCRP 4-11.3C/TO 13C7-1-11 and as shown in Figures 1-2 through 1-4.

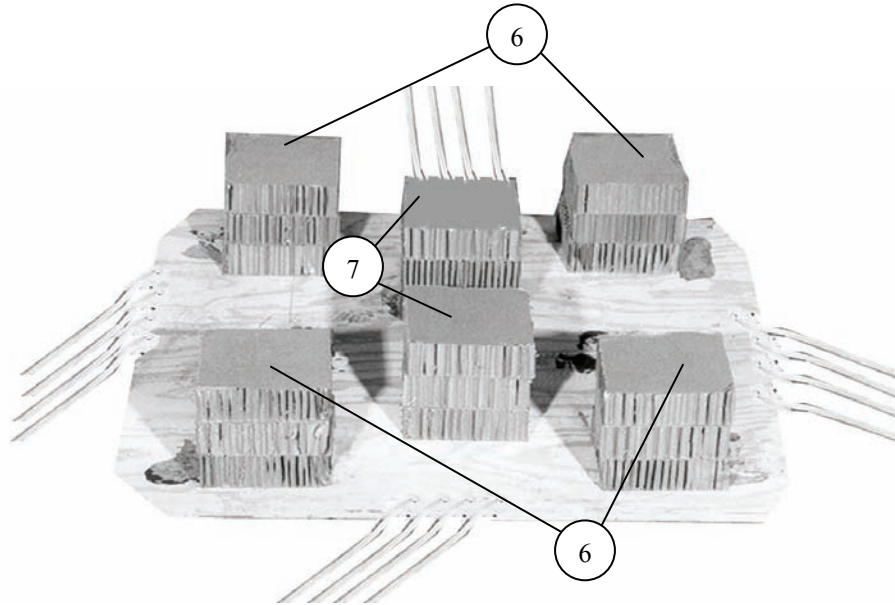
- Notes.** 1. All dimensions are in inches.
2. This drawing is not drawn to scale.



1. Place a 3/4- or 1- by 48- by 48-inch piece of plywood on a flat surface.
2. Drill four 1/2-inch holes on each side as shown above.
3. Measure 3 inches in from each corner of the skid board and make a diagonal cut.
4. Cut eight 8-foot lengths of 1/2-inch tubular nylon webbing. Route one length through hole A from the bottom and the other end through hole B from the bottom. Even the ends.
5. Repeat step 4 for holes C and D and remaining sides.

Figure 1-2. Skid Prepared and Honeycomb Stacks Positioned

Note. All dimensions are in inches.



6. Make six honeycomb stacks using three layers of 9- by 9-inch honeycomb, and glue the layers together. Position and glue the corner stacks 3 inches in from the sides of the skid.
7. Position the center stacks 10 inches in from the skid board edges and center between the sides. Glue the stacks in place.

Figure 1-2. Skid Prepared and Honeycomb Stacks Positioned (Continued)