

**FM 4-20.153** (FM 10-500-53)

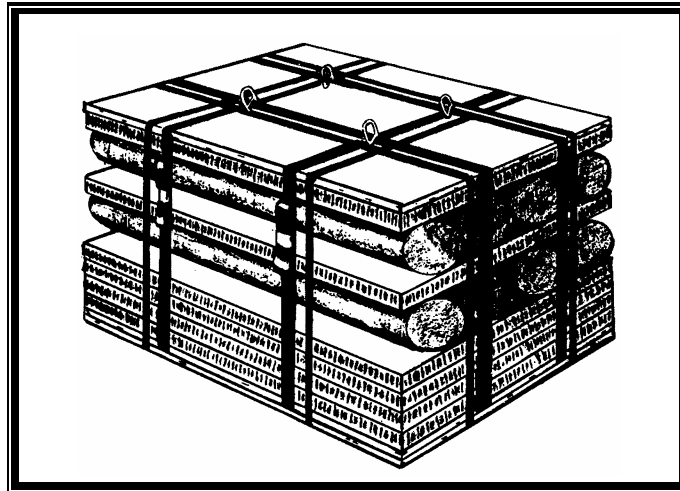
**MCRP 4-11.3B**

**TO 13C7-18-41**



**AIRDROP OF SUPPLIES AND EQUIPMENT:**

# **RIGGING AMMUNITION**



**MAY 2004**

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**HEADQUARTERS  
DEPARTMENT OF THE ARMY  
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# Airdrop of Supplies and Equipment: Rigging Ammunition

## Contents

	Page
<b>Preface</b> .....	iii
<b>Chapter 1    General</b>	
Special Instructions .....	1-1
Parachute Requirements .....	1-1
Equipment Required .....	1-1
Ammunition and Missile Rigging Tables Instructions .....	1-1
Additional Certified Munitions .....	1-1
<b>Chapter 2    Rigging Low-Velocity A-22 Cargo Bag Loads</b>	
Preparing A-22 Cargo Bags .....	2-1
Special Instructions .....	2-1
Parachute Requirements .....	2-1
<b>Chapter 3    Rigging High-Velocity A-22 Cargo Bag Loads</b>	
Preparing A-22 Cargo Bags .....	3-1
Special Instructions .....	3-1
Parachute Requirements .....	3-1

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\*This publication supercedes FM 10-500-53/MCRP 4-3.8/TO 13C7-18-41, 19 August 1996.

<b>Chapter 4</b>	<b>Rigging Low-Velocity A-7A Cargo Slings and A-21 Cargo Bag Loads</b>	
	Preparing A-7A Cargo Slings and A-21 Cargo Bags .....	4-1
	Special Instructions .....	4-1
	Parachute Requirements.....	4-1
<b>Chapter 5</b>	<b>Rigging High-Velocity A-7A Cargo Slings and A-21 Cargo Bag Loads</b>	
	Preparing A-7A Cargo Slings and A-21 Cargo Bags .....	5-1
	Special Instructions .....	5-1
	Parachute Requirements.....	5-1
<b>Appendix A</b>	.....	<b>A-1</b>
<b>Appendix B</b>	.....	<b>B-1</b>
<b>Glossary</b>	.....	<b>Glossary-1</b>
<b>References</b>	.....	<b>References-1</b>
<b>Tables</b>		
1-1	Parachute Requirements for Low-Velocity Airdrop .....	1-2
1-2	Parachute Requirements for High-Velocity Airdrop.....	1-2
1-3	Ammunition Rigging Table.....	1-3
1-4	Missile Rigging Table.....	1-45
1-5	Additional Certified Munitions Table .....	1-46

## PREFACE

### SCOPE

This manual tells and shows how to prepare and position certain types of ammunition and explosives in A-21 or A-22 cargo bags and A-7A cargo slings for low-velocity or high-velocity airdrop. This manual also lists the types of ammunition and explosives authorized to be airdropped with other low-velocity loads in FM 4-20.100/TO 13C7 (FM 10-500/TO 13C7) series manuals. These procedures apply only to items listed in this manual.

### CAUTION

Explosives and ammunition must be handled with care at all times. The explosive elements in primers and fuzes are sensitive to shock and high temperatures. Rigging personnel will make sure that boxes or containers of explosives and ammunition are not dropped, thrown, tumbled, or dragged. These loads contain hazardous materials, explosives or ammunition, as defined in AFMAN 24-204(I)/TM 38-250/ NAVSUP PUB 505/MCO P 4030.19F/DLAI 4145.3 December 2001. Complete Round Rigging, (CRR), encompasses all necessary munitions for mission completion (for example; primers, propelling charges, projections, fuzes) rigged on an airdrop platform or in a container. CRR is authorized only during wartime or periods of increased readiness. CRR will not be authorized during exercises. Hazardous materials must be packed, marked, and labeled according to AFMAN 24-204(I)/TM 38-250/ NAVSUP PUB 505/MCO P 4030.19F/DLAI 4145.3 December 2001. Ammunition and explosives damaged by airdrop must be disposed of by qualified personnel. Follow these guidelines for hazardous materials.

a. **Boxed Ammunition.** Boxed ammunition should be rigged in the position that it is normally shipped with the box lid on top.

b. **Proximity Fuze.** Proximity fuzes must be rigged in the "nose-down" position. If the fuze boxes are damaged, the fuzes should not be used.

### USER INFORMATION

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## Chapter 1

# General

### SPECIAL INSTRUCTIONS

1-1. The A-22 cargo bag loads shown in this manual will be rigged according to FM 10-500-3/FMFM 7-47/TO 13C7-1-11.

### PARACHUTE REQUIREMENTS

1-2. The parachute requirements for low-velocity and high-velocity airdrop are given below.

- a. **Low-Velocity Airdrop.** The G-12E and G-14 cargo parachutes used for low-velocity airdrop do not require special preparation. These parachutes are packed according to specific manuals listed in the References. Parachute requirements are listed in Table 1-1.
- b. **High-Velocity Airdrop.** The primary parachutes for high-velocity airdrop are the 68-inch pilot parachute and the 12-foot or 26-foot-diameter canopy high-velocity cargo parachute. These parachutes require no special preparation and are packed according to specific manuals listed in the references. The 15-foot and 22-foot extraction cargo parachutes are authorized substitutes for the 12-foot and 26-foot high-velocity parachutes. The parachutes are prepared according to FM 10-500-3/FMFM 7-47/TO 13C7-1-11. Requirements for the parachutes are listed in Table 1-2.

### EQUIPMENT REQUIRED

1-3. The equipment required for rigging container loads is listed in Appendix A.

### AMMUNITION AND MISSILE RIGGING TABLES INSTRUCTIONS

1-4. Ammunition items are listed by type, DODIC or NALC, and NSN order in Table 1-3. The numbers under the low-velocity and high-velocity airdrop columns reference a figure number that shows how to arrange container loads. Items certified for airdrop on platforms for low-velocity airdrop are rigged according to specific FM 4-20.100/TO 13C7 (FM 10-500/TO 13C7) series manuals. Missiles are listed in Table 1-4.

### ADDITIONAL CERTIFIED MUNITIONS

1-5. The munitions listed in Table 1-5 are certified for airdrop when rigged according to procedures in specific FM 4-20.100/TO 13C7 (FM 10-500/TO 13C7) series manuals.

**Table 1-1. Parachute Requirements for Low-Velocity Airdrop**

Parachute	Suspended Weight (Pounds)	
	Minimum	Maximum
One 68-inch pilot	30	50
Three 68-inch pilot	51	200
One G-14	200	500
Two G-14	501	1,000
*Three G-14	1,001	1,500
One G-12E	501	2,200

\* Loads must be dropped one at a time.

**Note:** Clustering G-14 cargo parachutes should be used **only** when a G-12E cargo parachute is not available.

**Table 1-2. Parachute Requirements for High-Velocity Airdrop**

Parachute	Suspended Weight (Pounds)	
	Minimum	Maximum
* One 68-inch pilot	75	150
Three 68-inch pilot	151	500
*One 12-foot high-velocity	151	500
One 15-foot cargo extraction	151	500
*One 26-foot high-velocity	501	2,200
One 22-foot cargo extraction	501	2,200

\*Primary parachute