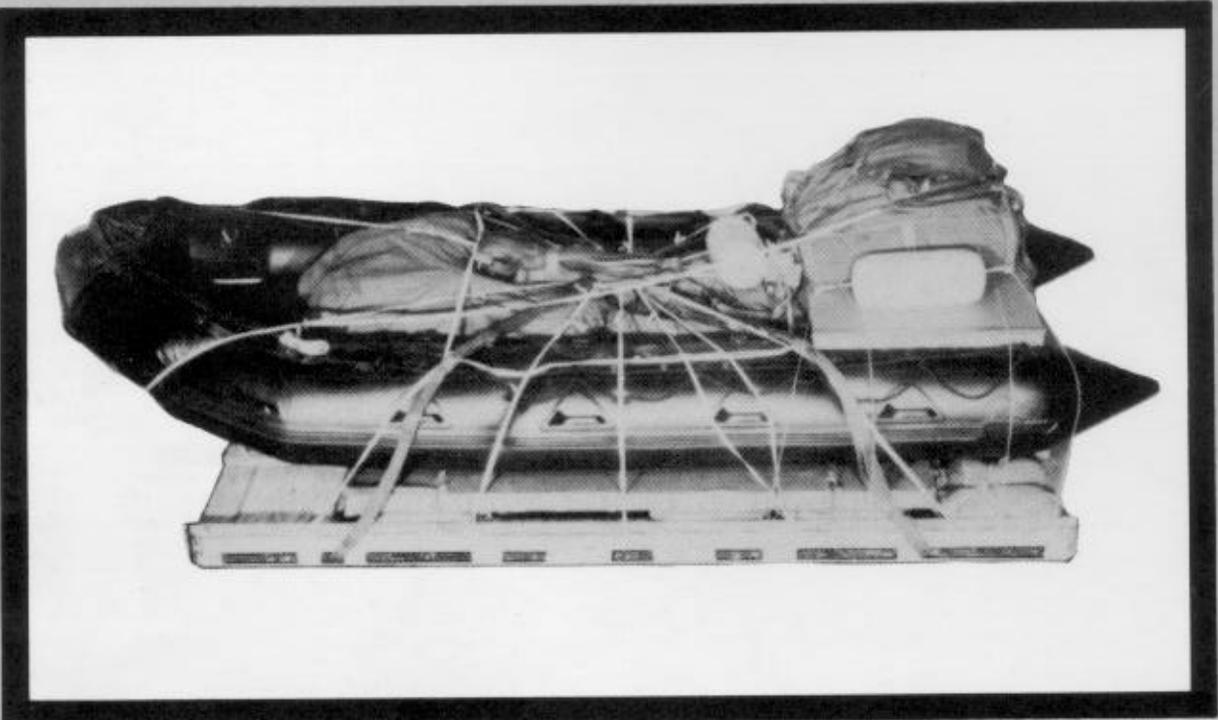


ARMY FM 10-542 AIR FORCE TO 13C7-51-21



AIRDROP OF SUPPLIES AND EQUIPMENT RIGGING LOADS FOR SPECIAL OPERATIONS



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AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING LOADS FOR SPECIAL OPERATIONS

This change modifies the procedures for rigging double F470U boats. It also adds procedures for rigging the F470U boat in an A-22 cargo bag. Also included in this change are the service publication numbers for the Marine Corps (FMFM 7-51) and the Navy (NAVSEA SS400-AD-MMO-010). Make this change throughout the manual.

FM 10-542/TO 13C7-51-21, 7 October 1987, is changed as follows:

1. New or changed material is identified by a vertical bar in the margin opposite the changed material.
2. Remove old pages and insert new pages as indicated below:

<u>Remove pages</u>	<u>Insert pages</u>
i through v	i through vi
1-1 and 1-2	1-1 and 1-2
2-7 and 2-8	2-7 and 2-8
3-5 and 3-6	3-5 and 3-6
3-9 and 3-10	3-9 and 3-10
3-35 and 3-36	3-35 and 3-36
3-67 and 3-68	3-67 and 3-68
3-71 through 3-78	3-71 through 3-78
	3-90 through 3-134
Glossary-1	Glossary-1
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AIRDROP OF SUPPLIES AND EQUIPMENT RIGGING LOADS FOR SPECIAL OPERATIONS

This change adds procedures for rigging the Mobile Over Snow Transport (MOST) for low-velocity airdrop. Also included in this change is Appendix A, checklists for Joint Airdrop Inspections.

1. New or changed material is identified by a vertical bar in the margin opposite the changed material.
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Remove pages	Insert pages
i through vi	i through vii
1-1 and 1-2	1-1 and 1-2
	4-1 through 4-23
	A-1
Glossary-1	Glossary-1
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C2, FM 10-542/FMFM 7-51/NAVSEA SS400-AD-MMO-010/TO 13C7-51-21
***FM 10-542/FMFM 7-51/NAVSEA SS400-AD-MMO-010/TO 13C7-51-21**

FIELD MANUAL
 NO 10-542
 FLEET MARINE FORCE MANUAL
 NO 7-51
 NAVAL SEA COMMAND
 NO SS400-AD-MMO-010
 TECHNICAL ORDER
 NO 13C7-51-21

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 Washington, DC, 7 October 1987

AIRDROP OF SUPPLIES AND EQUIPMENT RIGGING LOADS FOR SPECIAL OPERATIONS

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*This publication supersedes FM 10-542/TO 13C7-51-21, 31 August 1979.

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PREFACE

SCOPE

This manual is designed for use by all parachute riggers. This manual shows and tells how to prepare and rig the following airdrop loads for special operations:

- Four different HSSLADS containers or loads rigged for airdrop from the MC-130 aircraft.
- Six different inflated, rubber raiding crafts rigged on SOCEPs for low-velocity airdrop from a C-130, or C-141 aircraft. In addition, a rubber raiding craft and a small inflatable boat are rigged as airdrop bundles.
- The Mobile Over Snow Transport (MOST) for low-velocity airdrop.

USER INFORMATION

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions and suggest ways for improving this manual. Army personnel, send your comments on DA Form 2028 directly to:

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CHAPTER I

INTRODUCTION

1-1. Description of Items

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

a. HSSLADS Container. The HSSLADS container is an adjustable container made of an A-21 cargo cover and other airdrop items. Its size and weight are determined by the load.

b. Zodiac Mark III Boat. The inflated Zodiac Mark III boat is 75 inches wide, 18 inches high, and 180 inches long. The boat weighs 240 pounds.

c. Mark III Futura Boat. The inflated Mark III Futura boat is 75 inches wide, 26 inches high, and 185 inches long. The boat weighs 250 pounds.

d. Z-Bird Boat. The inflated Z-Bird boat is 75 inches wide, 18 inches high, and 180 inches long. The boat weighs 250 pounds.

e. Zodiac K40 Boat. The inflated Zodiac K40 boat is 82 inches wide, 29 inches high, and 159 inches long. The boat weighs 60 pounds.

f. Zodiac K50 Boat. The inflated Zodiac K50 boat is 82 inches wide, 29 inches high, and 195 inches long. The boat weighs 80 pounds.

g. Zodiac F47OU Boat. The inflated Zodiac F47OU boat is dropped singly or in pairs. Each boat is 75 inches wide, 22 inches high, and 185 inches long. Each boat weighs 250 pounds.

h. Small Inflatable Boat. The IBS is airdropped partially inflated in a bundle. The uninflated boat is 32 inches wide, 32 inches high, and 38 inches long. The boat weighs 150 pounds.

i. Mobile Over Snow Transport. The MOST consists of two snow machines and two sleds.

1-2. Special Considerations

CAUTION: ONLY AMMUNITION AND SUPPLIES APPROVED FOR HIGH-VELOCITY OR HSSLADS AIRDROP MAY BE AIRDROPPED BY HSSLADS.

When a dangerous material is being rigged, the container must be marked and labeled according to AFR 71-4/TM 38-250. Only ammunition listed in FM 10-553/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 inspections.

a. HSSLADS Container. The following items apply to the HSSLADS container:

- A multiple drop of four HSSLADS containers may be airdropped on one pass provided the total weight does not exceed 2,200 pounds.
- The type XXVI nylon webbing used to band multiple HSSLADS loads will be furnished by the US Army.
- The HSSLADS containers are airdropped from the MC-130 aircraft only.

NOTE: FOR AIR FORCE USE ONLY. A HSSLADS CONTAINER WEIGHING AT LEAST 250 POUNDS MAY BE AIRDROPPED FOR CONTINUANCE TRAINING PURPOSES ONLY, PROVIDED THE 35 POUNDS PER SQUARE FOOT MINIMUM IS MAINTAINED. FOR UNILATERAL TRAINING LOADS, HONEYCOMB IS NOT REQUIRED.

b. Boats and Parachutists. The following items apply to boats and parachutists:

- One boat may be airdropped from a C-130 aircraft and followed by parachutists.
- Two boats and two groups of parachutists may be airdropped from a C-130 in a single pass.
- Boats airdropped from C-141 aircraft cannot be followed by a parachutist on a static line. Nonstatic line parachutists may follow the load after retrieval of the deployment bags.
- The total rigged weight of rubber raiding craft loads on SOCEPs must be a minimum of 2,100 pounds. Sandbags or other ballast may be added to the platform for this purpose.

c. Joint Airdrop Inspection Record Checklists. Joint Airdrop Inspection Record checklists are provided for local reproduction in Appendix A. Use these checklists for joint airdrop inspections with DD Form 1748-4 as follows:

- Fill in the heading of the DD Form 1748-4.
- Cross out blocks 12 and 13.
- Write in "See Attached Checklist" in block 16 remarks.
- Make three copies of the checklist and attach them to the DD Form 1748-4.
- Use the checklist, as required.
- Sign DD Form 1748-4.
- Keep each DD Form 1748-4 and each checklist together as a complete record.