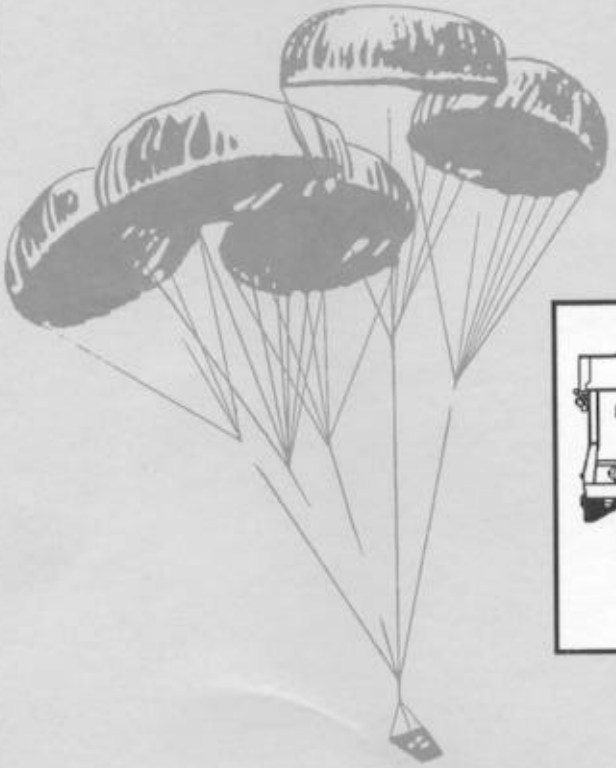
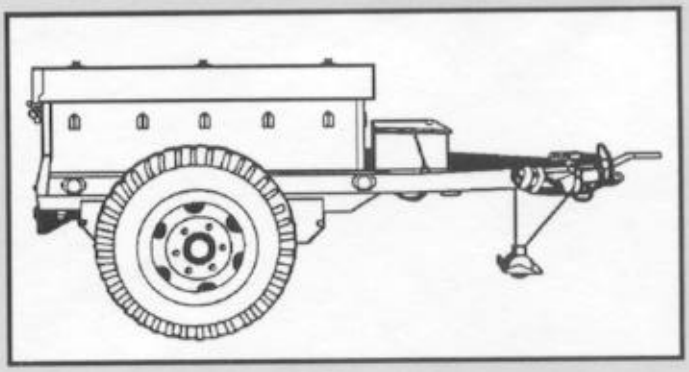
C2, FM 10-555/TO 13C7-3-401

AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING MUNITIONS TRAILERS





DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

HEADQUARTERS
DEPARTMENTS OF THE ARMY AND THE AIR FORCE

CHANGE
No. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
DEPARTMENT OF THE AIR FORCE
Washington, DC, 6 June 1997

AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING MUNITIONS TRAILERS

This change adds the procedures for rigging the mine-cleaning line charge on a 2 1/2-ton trailer on a type V platform for low-velocity airdrop. Also, the manual title and distribution restriction are changed.

FM 10-555/TO 13C7-3-401, 23 May 1986, is changed as follows:

1. New or changed material is identified by a vertical bar (▮) in the margin opposite the changed material.
2. File this transmittal page in front of the publication for reference purpose.
3. Remove old pages and insert new pages as indicated below:

Remove pages	Insert pages
Cover 1	Cover 1
i through iii	i through v
1-1	1-1
.....	5-1 through 5-27
Glossary- 1	Glossary-1
References-1	References- 1

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimted.

By Order of the Secretary of the Army:

DENNIS J. REIMER
General, United States Army
Chief of Staff

Official:

JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
03484

DISTRIBUTION:

Active Army, Army National Guard, and U.S. Army Reserve: To be distributed in accordance with the initial distribution number 113834, requirements for FM 10-555.

CHANGE
NO. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
DEPARTMENT OF THE AIR FORCE
Washington, DC, 17 March 1992

AIRDROP OF SUPPLIES AND EQUIPMENT
RIGGING 1 1/2-TON AMMUNITION TRAILER

This change adds the procedures for rigging the 1 1/2-ton ammunition trailer on a type V platform for low-velocity and LAPE airdrop. Also, with this change, the distribution restriction statement is changed to read as shown below. A destruction notice (as shown below) is now also required. Please mark the changes on the cover of the basic manual.

FM 10-555/TO 13C7-3-401, 23 May 1986, 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:

Remove old pages	Insert new pages
i through iii	i through iv
	4-1 through 4-53
Glossary-1	Glossary-1
References-1	References-1

3. File this transmittal sheet in front of the publication for reference purposes.

DISTRIBUTION UNLIMITED

Field Manual
No 10-555
Technical Order
No 13C7-3-401

HEADQUARTERS
DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
Washington, DC, 23 May 1986

AIRDROP OF SUPPLIES AND EQUIPMENT

RIGGING MUNITIONS TRAILERS

TABLE OF CONTENTS

		Paragraph	Page
PREFACE			iv
CHAPTER 1	INTRODUCTION		
	Description of Item	1-1	1-1
	Special Considerations	1-2	1-1
CHAPTER 2	RIGGING AMMUNITION TRAILER FOR LOW-VELOCITYAIRDROP		
		2-1	2-1
		2-2	2-1
		2-3	2-3
		2-4	2-9
		2-5	2-10
		2-6	2-11
		2-7	2-12
		2-8	2-13
		2-9	2-14
		2-10	2-16
		2-11	2-18
		2-12	2-19
		2-13	2-20
		2-14	2-21
		2-15	2-21
		2-16	2-22
		2-17	2-23

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

		Paragraph	Page
CHAPTER 3	RIGGING AMMUNITION TRAILER FOR LAPE AIRDROP		
	REMOVED: 95 MESSAGE TERMINATION OF LAPES	3-1	3-1
		3-2	3-2
		3-3	3-3
		3-4	3-4
		3-5	3-11
		3-6	3-12
		3-7	3-13
		3-8	3-14
		3-9	3-14
		3-10	3-16
		3-11	3-17
		3-12	3-17
		3-13	3-17
		3-14	3-18
CHAPTER 4	RIGGING 1 1/2-TON AMMUNITION TRAILER ON A TYPE V PLATFORM		
Section I	LOW-VELOCITY AIRDROP		
	Description of Load	4-1	4-1
	Preparing Platform	4-2	4-1
	Stowing Accompanying Loads on Platform	4-3	4-4
	Building and Placing Honeycomb Stacks	4-4	4-13
	Preparing Trailer	4-5	4-14
	Stowing Accompanying Load in Trailer	4-6	4-15
	Installing Lifting Slings	4-7	4-16
	Positioning Trailer	4-8	4-17
	Lashing Trailer	4-9	4-18
	Installing and Safetying Suspension Slings	4-10	4-20
	Building and Securing Cargo Parachute Stowage Platform	4-11	4-21
	Stowing Cargo Parachutes	4-12	4-23
	Installing Release Assembly	4-13	4-24
	Installing Extraction System	4-14	4-25
	Installing Provisions for Emergency Restraints	4-15	4-26
	Placing Extraction Parachute	4-16	4-26
	Marking Rigged Load	4-17	4-26
	Equipment Required	4-18	4-26
Section II	LAPE AIRDROP		
	REMOVED: 95 MESSAGE TERMINATION OF LAPES	4-19	4-30
		4-20	4-30
		4-21	4-32

	Paragraph	Page
[redacted]	4-22	4-42
	4-23	4-43
	4-24	4-43
	4-25	4-43
	4-26	4-44
	4-27	4-45
	4-28	4-47
	4-29	4-49
	4-30	4-51
	4-31	4-51
	4-32	4-51

REMOVED: 95 MESSAGE TERMINATION OF LAPES

CHAPTER 5 RIGGING MINE-CLEARING LINE CHARGE ON 2 1/2-TON TRAILER FOR LOW-VELOCITY AIRDROP ON A TYPE V PLATFORM

Description of Load	5-1	5-1
Preparing Platform	5-2	5-2
Building and Placing Honeycomb Stacks	5-3	5-3
Preparing MICLIC and Trailer	5-4	5-10
Stowing the Accompanying Load on Platform	5-5	5-13
Lifting and Positioning MICLIC	5-6	5-15
Lashing MICLIC	5-7	5-16
Installing Load Cover and Suspension Slings	5-8	5-18
Building Cargo Parachute Stowage Platform	5-9	5-19
Stowing Cargo Parachutes	5-10	5-20
Installing Release Assembly	5-11	5-21
Installing Extraction System	5-12	5-22
Installing Provisions for Emergency Restraints	5-13	5-24
Placing Extraction Parachute	5-14	5-24
Marking Rigged Load	5-15	5-24
Equipment Required	5-16	5-24

GLOSSARY Glossary-1

REFERENCES References-1

PREFACE

SCOPE

This manual tells and shows how to prepare and rig the 1 1/2-ton ammunition trailer for low-velocity airdrop from the C-130 and C-141 aircraft on the type II and type V platforms. This manual tells and shows how to prepare and rig the 1 1/2-ton ammunition trailer on the type V platform for low-velocity airdrop from the C-5, and C-17 aircraft. This manual also tells and shows how to prepare and rig the 1 1/2-ton ammunition trailer for LAPE airdrop from the C-130 aircraft. This manual tells and shows how to prepare and rig the mine-clearing line charge (MICLIC) on a 2 1/2-ton trailer for low-velocity airdrop from C-130, C-141, C-17, and C-5 aircraft on the type V platform.

USER INFORMATION

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

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/DOTX)
402 SCOTT DRIVE UNIT 3A1
SCOTT AFB ILLINOIS 62225-5302

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

HQ ACC/DOTW
205 DODD BOULEVARD SUITE 101
LANGLEY AFB VIRGINIA 23665-2789

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

HQ AFSOC/DOXT
100 BARTLEY STREET SUITE 260
HURLBURT FIELD FLORIDA 32544-5273

to:

AERIAL DELIVERY AND FIELD SERVICES DEPARTMENT
USA QUARTERMASTER CENTER AND SCHOOL
1010 SHOP ROAD
FORT LEE VIRGINIA 23801-1502

Also send an information copy of AFTO Form 22 to:

SA-ALC/TILDP
485 QUENTIN ROOSEVELT ROAD
KELLY AFB TEXAS 78241-5000

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

CHAPTER 1
INTRODUCTION

1-1. Description of Load

The descriptions and unrigged data for the items covered in this manual are given below.

a. The unrigged 1 1/2-ton ammunition trailer weighs 2,660 pounds. It is 148 inches long, 95 inches wide, and 64 inches high. The height is reducible to 58 inches. The trailer may be dropped empty or with an accompanying load. The accompanying load may weigh up to a maximum of 3,300 pounds.

b. The mine-clearing line charge (MICLIC) in its container weighs 2,855 pounds. It is mounted on a 2 1/2-ton M200A1 trailer. The rocket projectile, in its shipping container, weighs 270 pounds and is rigged on the platform.

1-2. Special Considerations

Special considerations for this manual are described below.

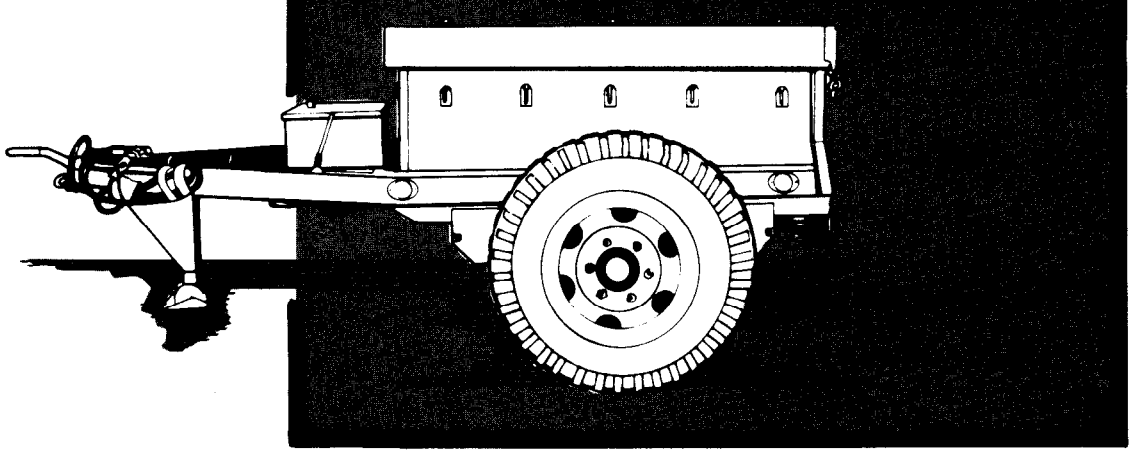
a. The loads covered in this manual will include hazardous materials as defined in AFJMAN 24-204/TM 38-250. The hazardous material must be packaged, marked, and labeled as required by AFJMAN 24-204/TM 38-250.

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/ TO 13C7-18-41 may be dropped.

CHAPTER 4

RIGGING AMMUNITION TRAILER ON A TYPE V PLATFORM



Section I

LOW-VELOCITY AIRDROP

4-1. Description of Load

The 1 1/2-ton ammunition trailer (Figure 4-1) is rigged on a 12-foot, type V platform for low-velocity airdrop. The trailer may be rigged with or without an accompanying load. The accompanying load in the trailer may weigh a maximum of 3,000 pounds. The total weight of the accompanying loads in the trailer and on the platform must not exceed 5,090 pounds. The accompanying loads shown in this section—24 rounds of 155-millimeter projectiles, 24 powder canisters, and three boxes of primers and fuses—weigh 3,292 pounds. The load shown in this section requires two G-11B cargo parachutes.

4-2. Preparing Platform

Prepare a 12-foot, type V platform using four tandem links and 52 clevis assemblies as shown in Figure 4-2.

Notes: **1. The nose bumper may or may not be installed.**

2. Measurements given in this section are from the front edge of the platform, NOT from the front edge of the nose bumper.

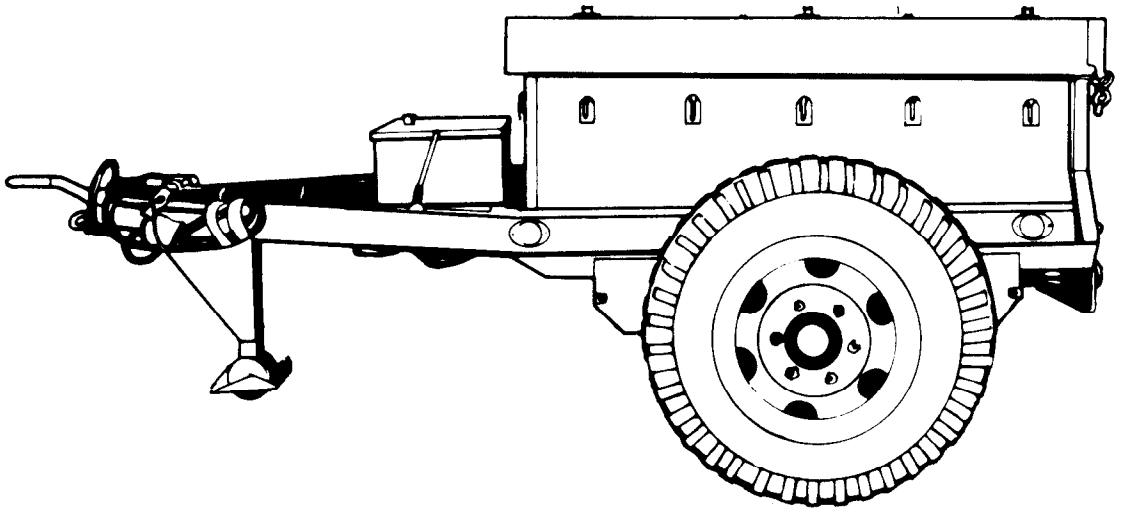
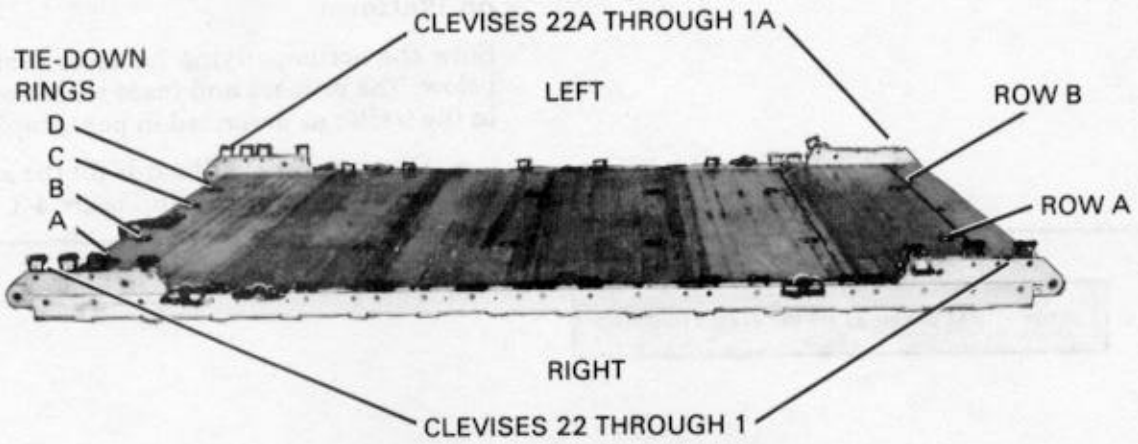


Figure 4-1. Left side of unrigged 1 1/2-ton ammunition trailer



Step:

1. Inspect, or assemble and inspect, the platform according to TM 10-1670-268-20&P/TO 13C7-52-22.
2. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
3. Install a tandem link on the rear of each platform side rail using holes 22, 23, and 24.
4. Install a clevis on bushings 1 and 3 on each front tandem link.
5. Install a clevis on bushings 1, 2, 3, and 4 on each rear tandem link.
6. Starting at the front of each platform side rail, install clevises on each platform side rail using the bushings bolted on holes 4, 5, 7, 8, 11, 16, 18, and 20.
7. Install a clevis on bushing 4 in an inverted position on each front tandem link. Install a clevis on bushings 6, 19, and 21 in an inverted position on each side rail. Bolt two clevises to each inverted clevis.

Note: When numbering the clevises, disregard the inverted clevises.

8. Starting at the front of each platform, number the clevises bolted to the right side from 1 through 22 and those bolted to the left side from 1A through 22A.
9. Starting at the front of the platform, label the two tie-down rings in the first five panels A and B from right to left. Label the four tie-down rings in the last panel A, B, C, and D from right to left. Starting with the first panel, number the tie-down rings 1 through 6.

Figure 4-2. Platform prepared

4-3. Stowing Accompanying Loads on Platform

Stow the accompanying loads as described below. The primers and fuses will be stowed in the trailer as described in paragraph 4-6.

a. Construct the endboards for the accompanying loads as shown in Figure 4-3.

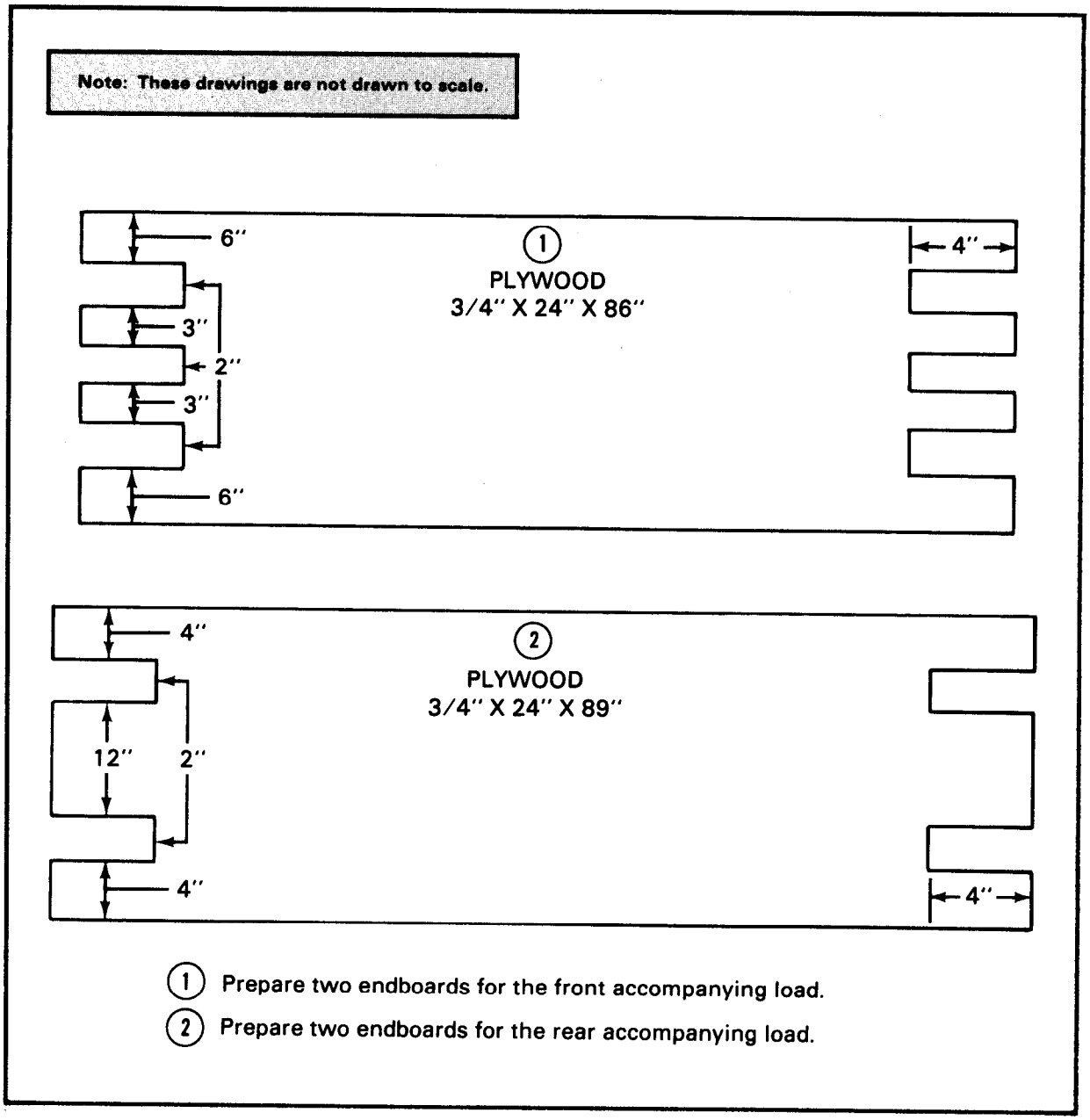
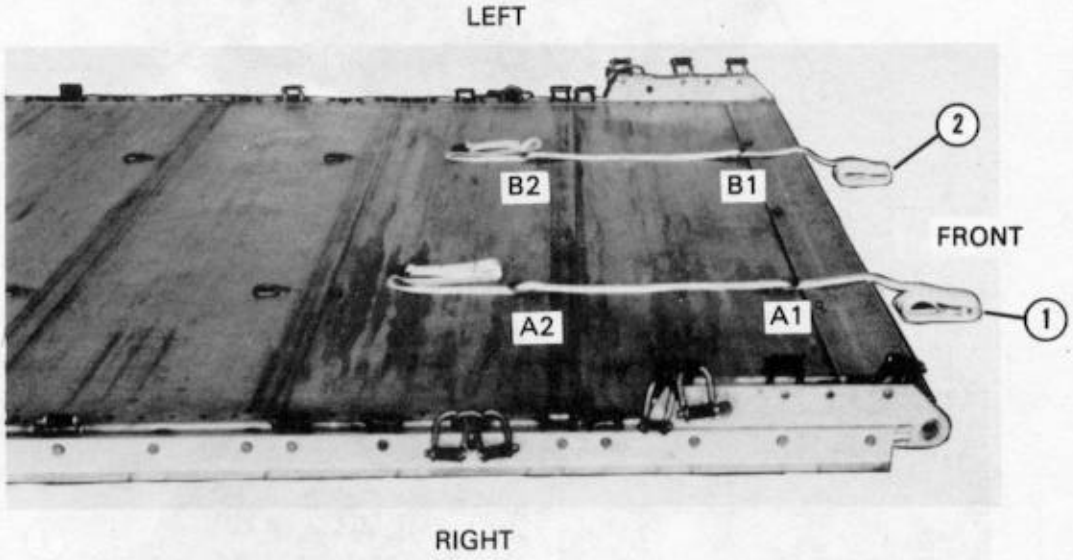


Figure 4-3. Endboards constructed

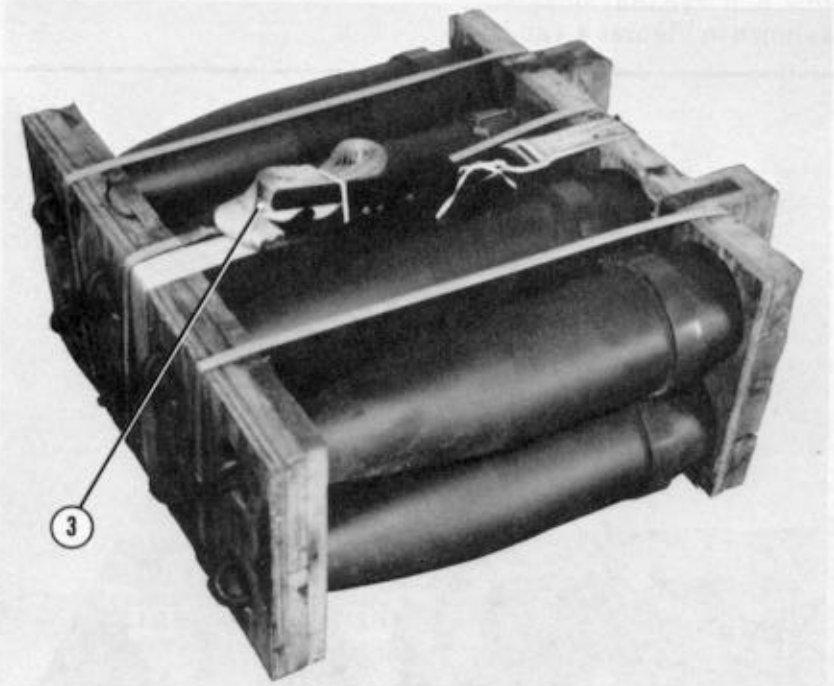
b. Prepare, stow, and lash the front accompanying load as shown in Figures 4-4 and 4-5.

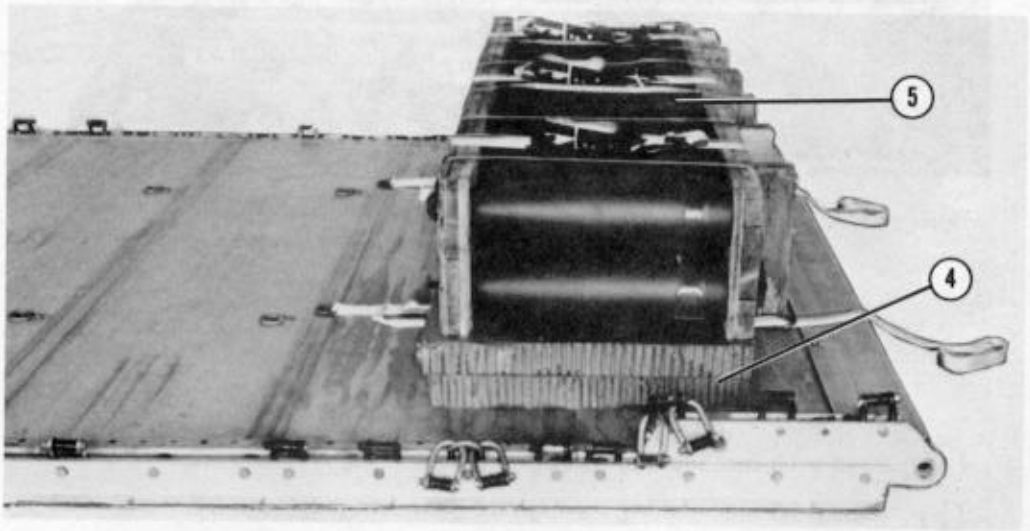


(1) Pass a 15-foot lashing through tie-down rings A1 and A2.

(2) Pass a 15-foot lashing through tie-down rings B1 and B2.

Figure 4-4. Front accompanying load prepared and stowed on platform



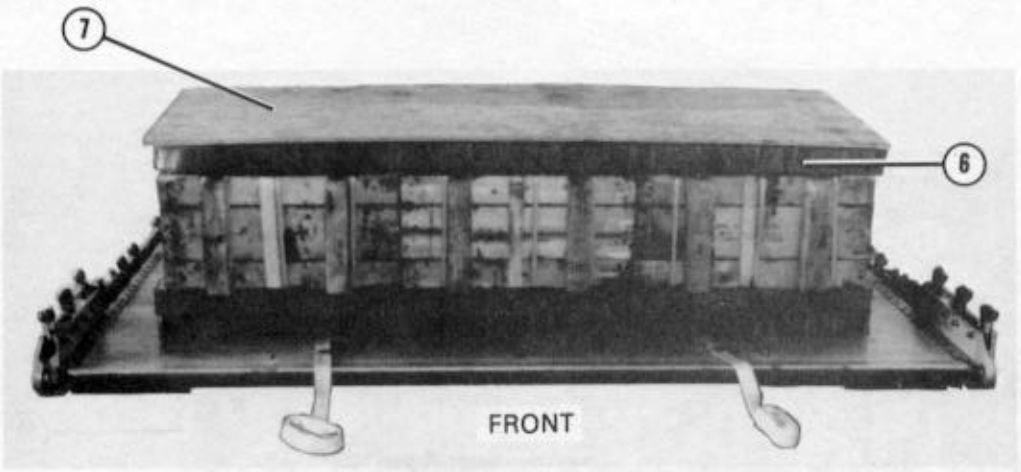


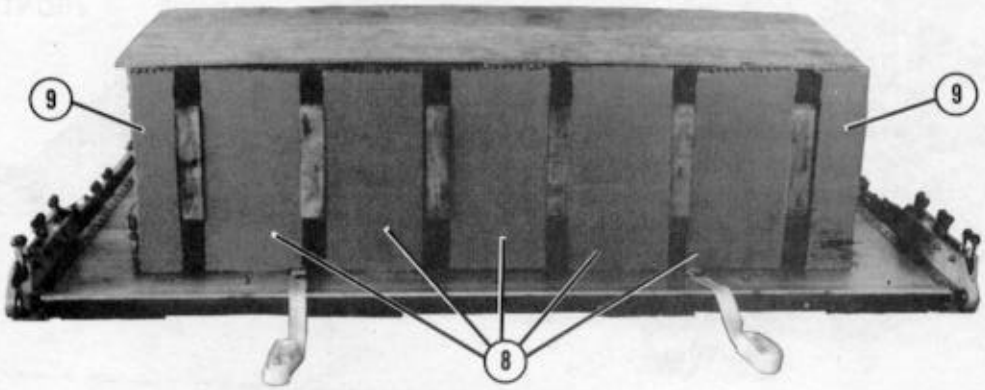
(3) Bind a group (eight rounds) of projectiles with a 15-foot lashing. Bind two more groups.

(4) Center two 84- by 28-inch pieces of honeycomb on the platform 10 inches from the front edge.

(5) Place the three groups of projectiles on the honeycomb. Place the bases of the projectiles toward the front of the platform.

Figure 4-4. Front accompanying load prepared and stowed on platform (continued)





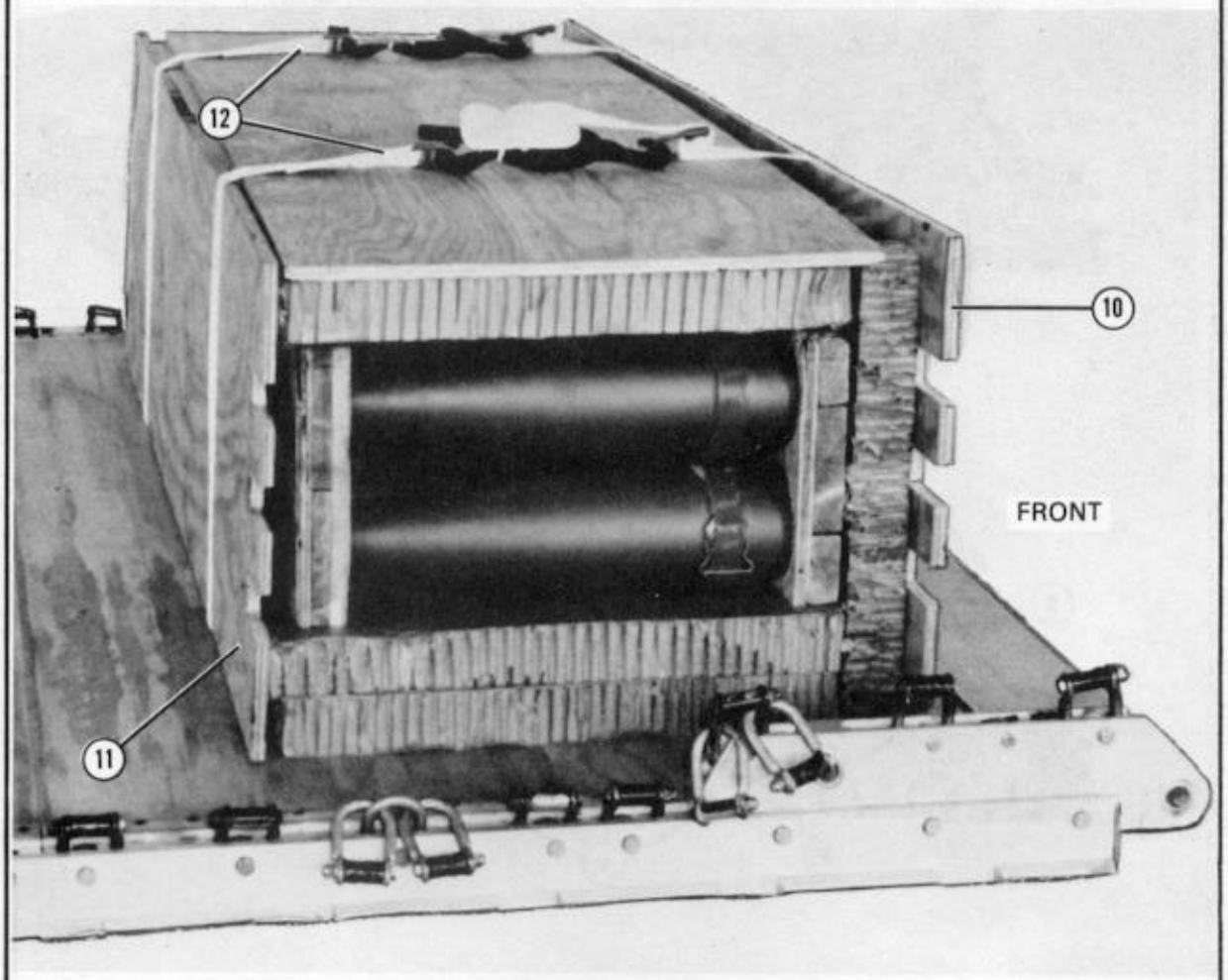
(6) Place an 84- by 28-inch piece of honeycomb on top of the projectiles.

(7) Place a 3/4- by 84- by 28-inch piece of plywood on top of the honeycomb.

(8) Space five 11- by 23-inch pieces of honeycomb against the bases of the projectiles.

(9) Place a 5- by 23-inch piece of honeycomb at each end of the projectile bases.

Figure 4-4. Front accompanying load prepared and stowed on platform (continued)

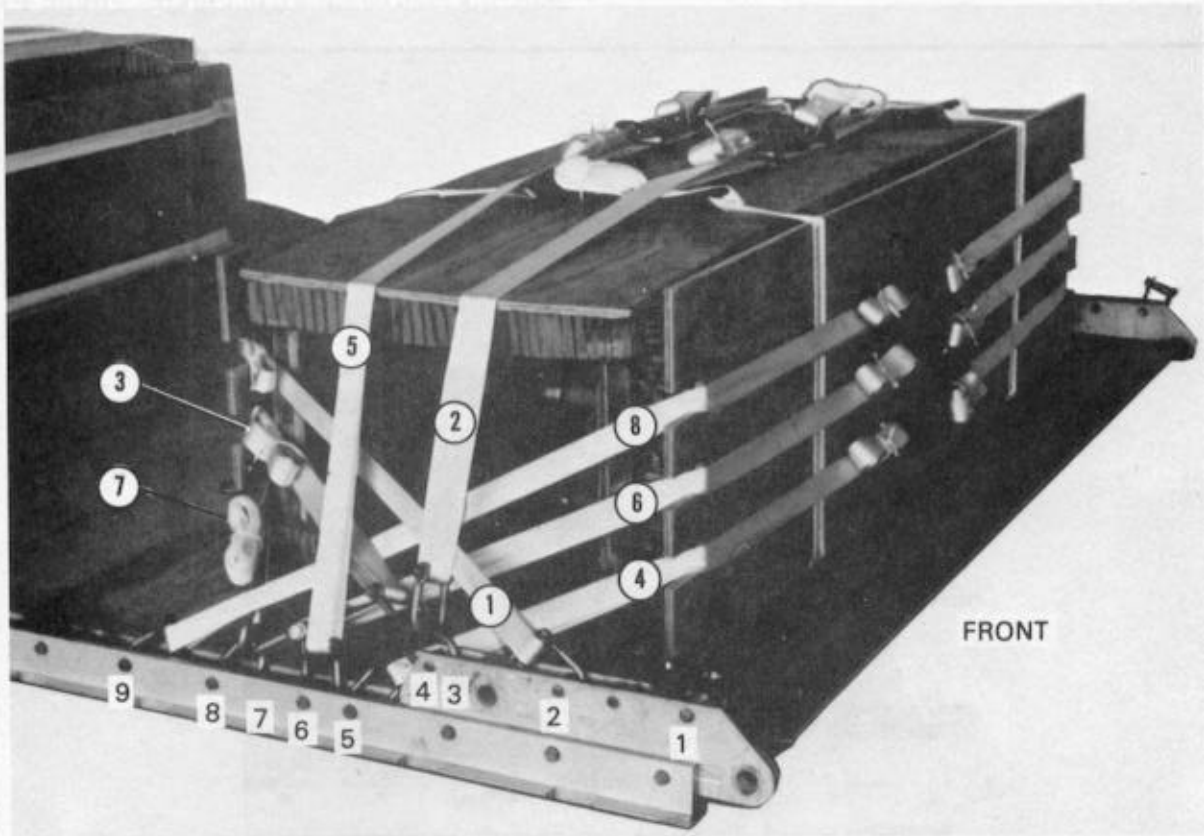


(10) Place one endboard (Figure 4-3, step 1) in front of the projectiles against their bases.

(11) Place one endboard (Figure 4-3, step 1) to the rear of the projectiles against their tops.

(12) Route the lashings (steps 1 and 2, page 4-5) over the endboards. Secure the lashings on top of the load according to FM 10-500-2/TO 13C7-1-5.

Figure 4-4. Front accompanying load prepared and stowed on platform (continued)

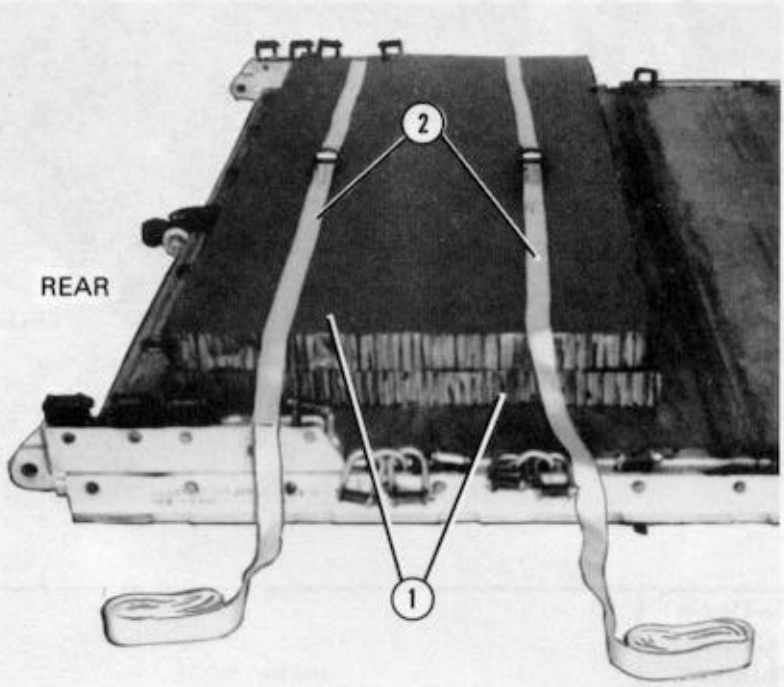


Lashing Number	Tie-Down Clevis Number	Instructions
		Pass Lashing:
1*	2 and 2A	Through top cutouts of the rear endboard.
2*	3 and 3A	Over the top of the projectiles.
3*	4 and 4A	Through middle cutouts of the rear endboard.
4*	5 and 5A	Through bottom cutouts of the front endboard.
5*	6 and 6A	Over the top of the projectiles.
6*	7 and 7A	Through middle cutouts of the front endboard.
7*	8 and 8A	Through bottom cutouts of the rear endboard.
8*	9 and 9A	Through top cutouts of the front endboard.

*30-foot lashing

Figure 4-5. Front accompanying load lashings 1 through 8 installed

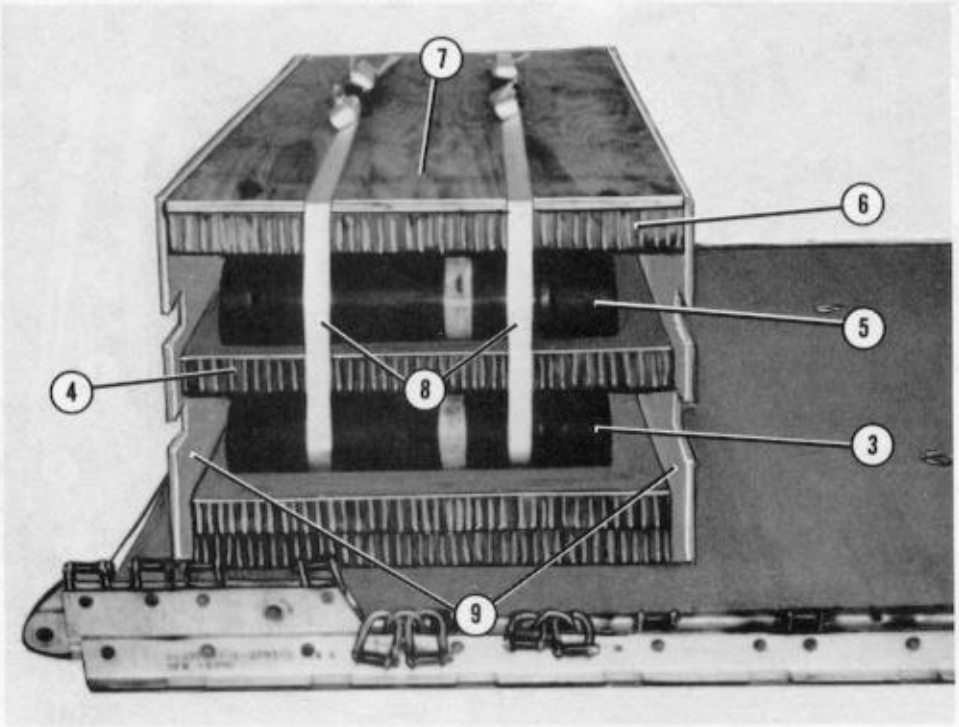
c. Prepare, stow, and lash the rear accompanying load as shown in Figures 4-6 and 4-7.



(1) Center two 84- by 36-inch pieces of honeycomb 5 inches from the rear of the platform.

(2) Place two 30-foot lashings across the honeycomb.

Figure 4-6. Rear accompanying load prepared and stowed on platform



(3) Center 12 powder canisters on the honeycomb between the rails. Alternate the ends of the canisters.

(4) Place an 80- by 36-inch piece of honeycomb on top of the canisters.

(5) Place a second layer of canisters on the honeycomb as in step 3.

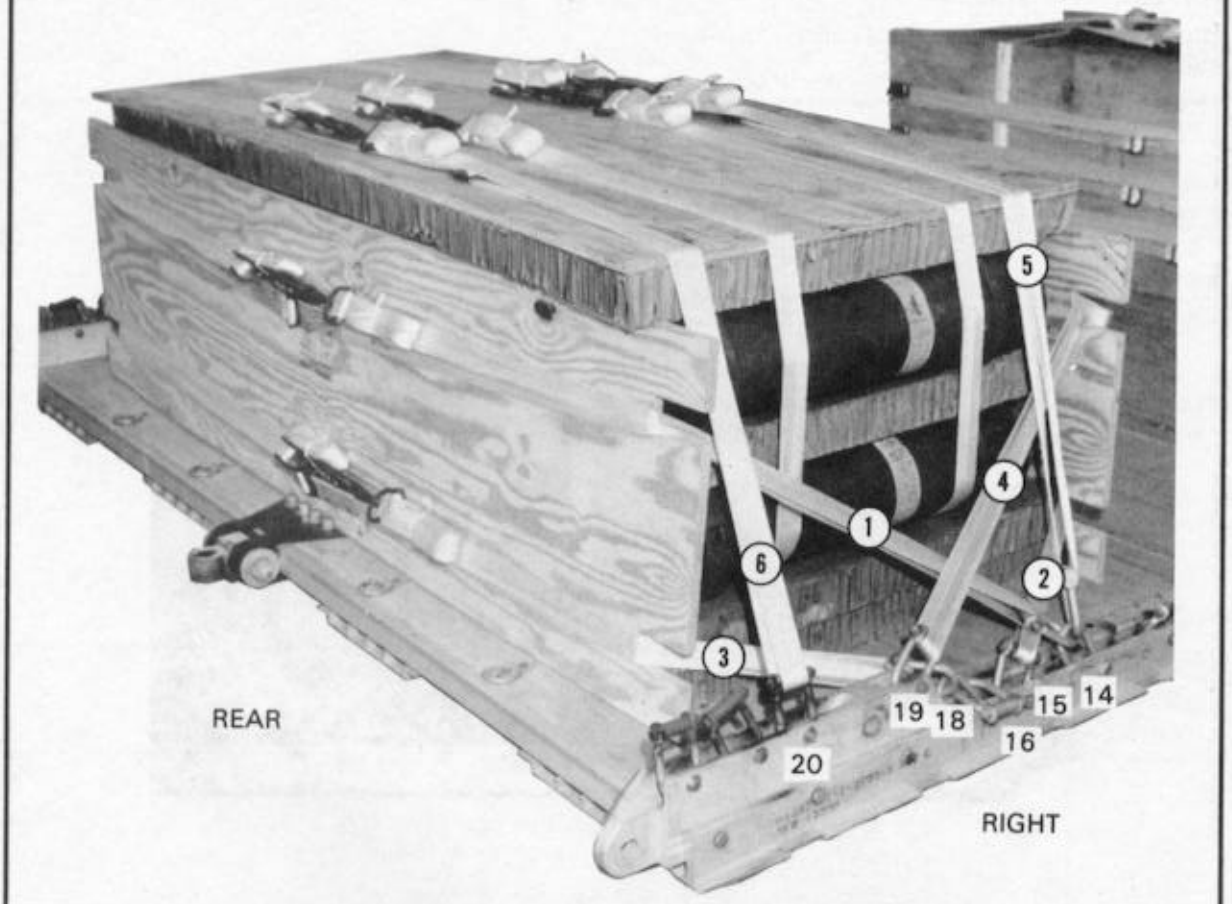
(6) Place a second 80- by 36-inch piece of honeycomb on top of the canisters.

(7) Place a 3/4- by 80- by 36-inch piece of plywood on top of the honeycomb.

(8) Secure the canisters, honeycomb, and plywood with the lashings placed in step 2. Secure the lashings on top of the load according to FM 10-500-2/TO 13C7-1-5.

(9) Place one endboard (Figure 4-3, step 2) on the front and one on the rear against the canisters.

Figure 4-6. Rear accompanying load prepared and stowed on platform (continued)



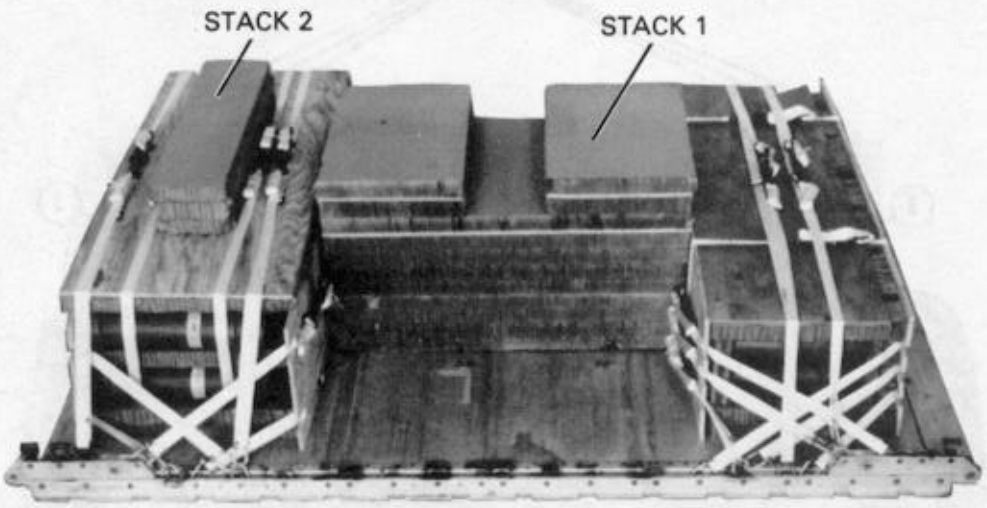
Lashing Number	Tie-Down Clevis Number	Instructions
		Pass Lashing:
1*	15 and 15A	Through top cutouts of the rear endboard.
2*	16 and 16A	Through bottom cutouts of the front endboard.
3*	18 and 18A	Through bottom cutouts of the rear endboard.
4*	19 and 19A	Through top cutouts of the front endboard.
5*	14 and 14A	Over the top of the canisters.
6*	20 and 20A	Over the top of the canisters.

*30-foot lashing

Figure 4-7. Rear accompanying load lashings 1 through 6 installed

4-4. Building and Placing Honeycomb Stacks

Build and place the honeycomb stacks as shown in Figure 4-8.

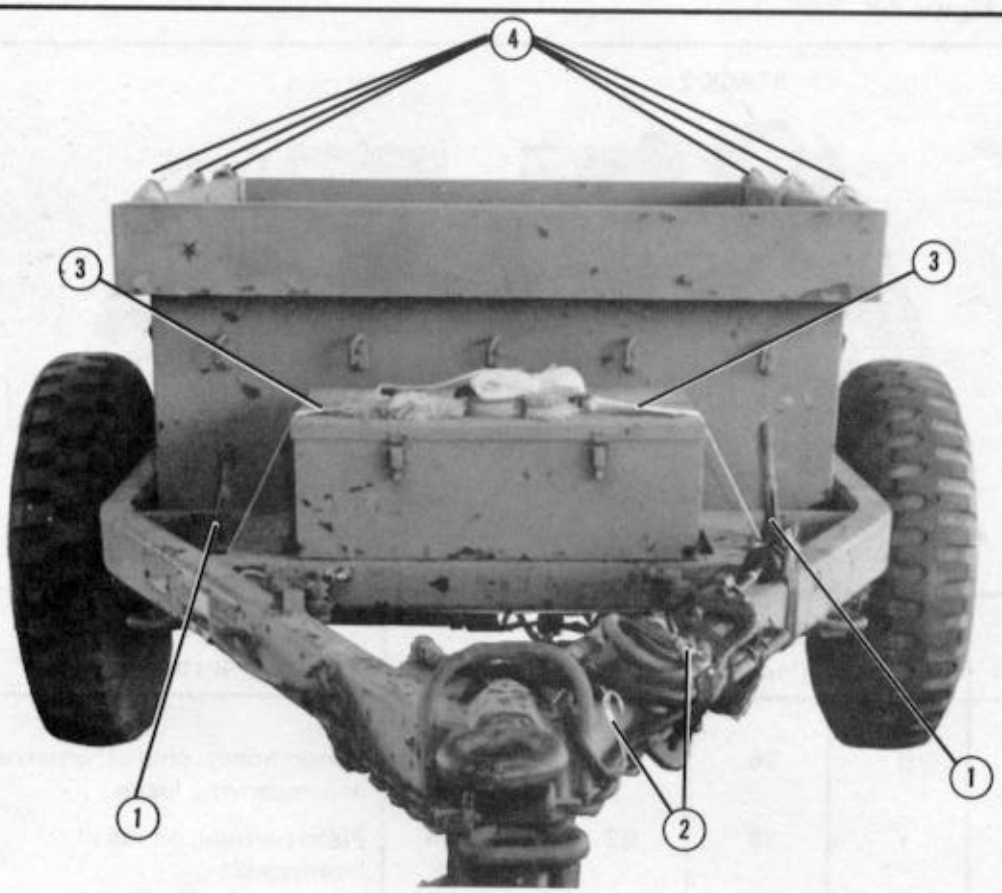


Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	8	36	62	Honeycomb	Center honeycomb between rails and accompanying loads.
	1	36	62	3/4-inch plywood	Place plywood on top of honeycomb.
	1	36	62	Honeycomb	Place honeycomb on top of plywood.
	2	36	24	Honeycomb	Place one piece of honeycomb even with the front edge of the stack and one piece of honeycomb even with the rear edge of the stack.
	2	36	24	3/4-inch plywood	Place one piece of plywood on top of each piece of 36- by 24-inch honeycomb.
	2	36	24	Honeycomb	Place one piece of honeycomb on top of each piece of plywood.
2	3	48	12	Honeycomb	Center honeycomb on top of plywood on the rear accompanying load.

Figure 4-8. Honeycomb prepared and placed on platform

4-5. Preparing Trailer

Prepare the trailer as shown in Figure 4-9.



(1) Place the hand brake levers in the OFF position.

(2) Tie the intervehicular cable, brake hose, and safety chains to the drawbar with type III nylon cord. Tape these items to the drawbar.

(3) Lash the toolbox to the frame with a 15-foot lashing. Fasten the lashing according to FM 10-500-2/TO 13C7-1-5.

(4) Pad all sharp edges with cellulose wadding, and tape the cellulose wadding to the trailer.

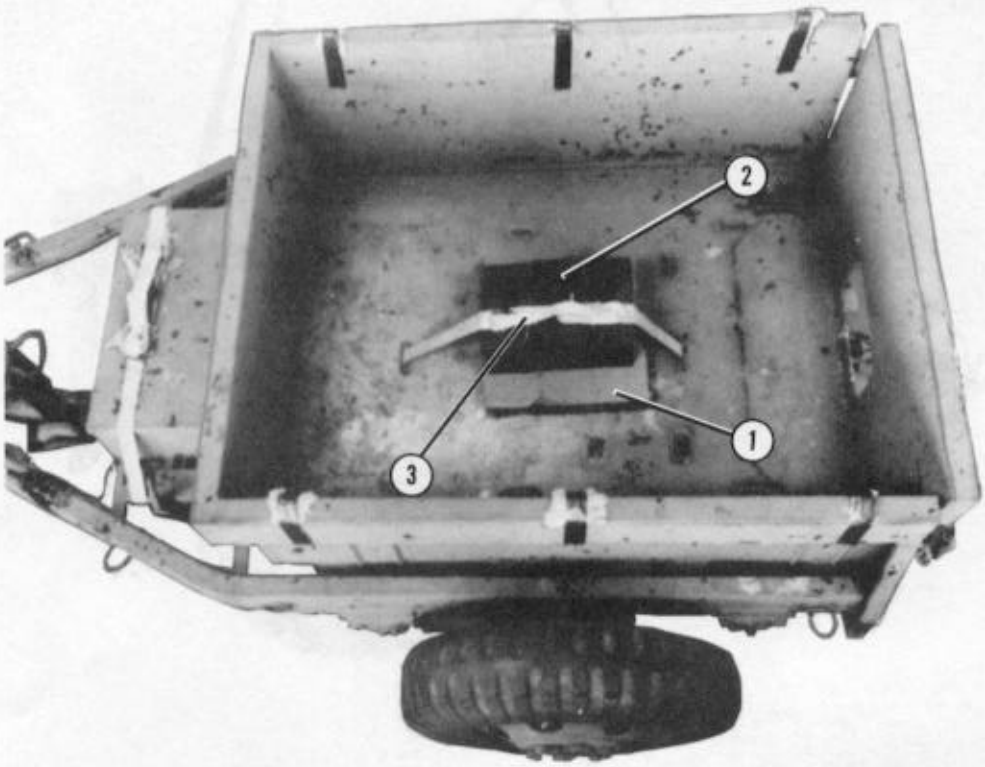
Figure 4-9. Trailer prepared

4-6. Stowing Accompanying Load in Trailer

Stow the three boxes of fuses and primers as shown in Figure 4-10. The primers and fuses must be stowed on top of any other items dropped as part of the accompanying load. The trailer cover and side rails may be stowed in the trailer.

CAUTION

Only ammunition listed in FM 10-553/ TO 13C7-18-41 may be airdropped.



(1) Center a 20- by 20-inch piece of honeycomb in the bed of the trailer.

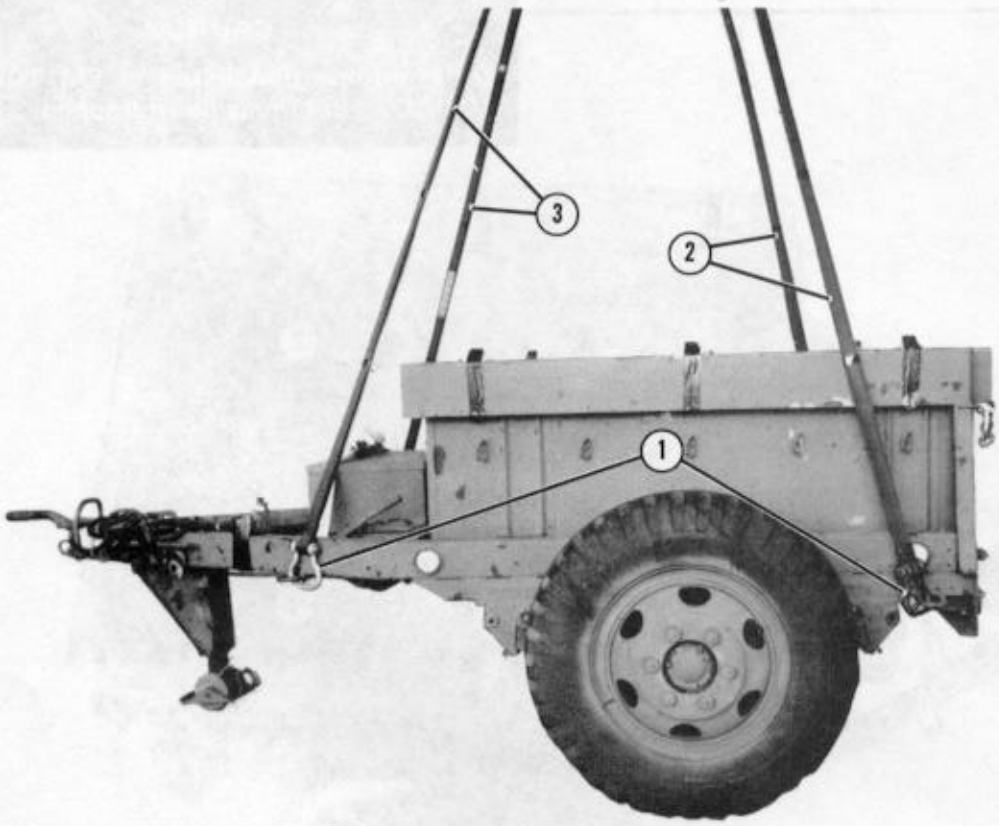
(2) Set the three boxes of primers and fuses on the honeycomb.

(3) Lash the primers and fuses to the tie-down provisions in the bed of the trailer with a 15-foot lashing. Pass the lashing through the carrying handles, and secure it according to FM 10-500-2/TO 13C7-1-5.

Figure 4-10. Accompanying load stowed in trailer

4-7. Installing Lifting Slings

Install four 12-foot (2-loop), type XXVI nylon webbing slings and four medium suspension clevises as shown in Figure 4-11.

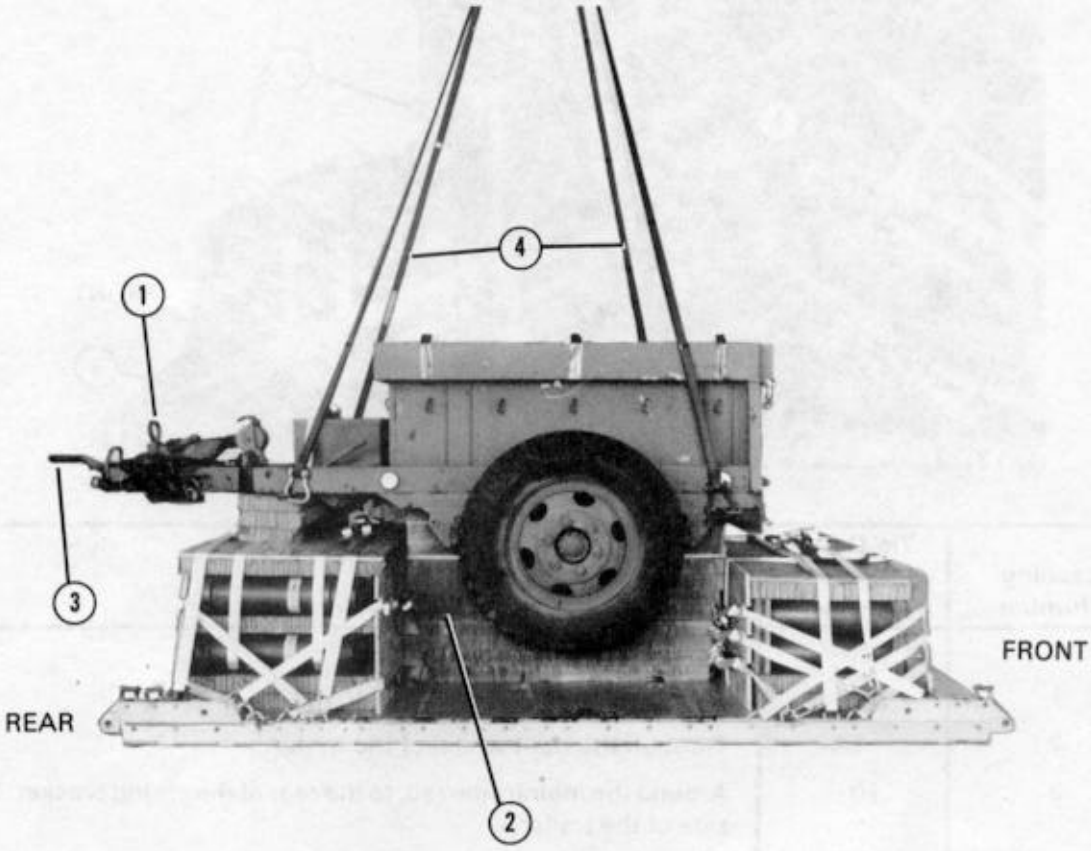


(1) Attach a medium suspension clevis to each 12-foot sling.
(2) Attach a 12-foot sling to each rear tie-down bracket.
(3) Attach a 12-foot sling to each front tie-down bracket.

Figure 4-11. Lifting slings installed

4-8. Positioning Trailer

Use the lifting slings and a lifting device to place the trailer on the honeycomb. Position the trailer as shown in Figure 4-12.



(1) Lift the trailer tongue wheel stand by pulling on the handle and lifting it to the UP position.

(2) Place the trailer on the platform with the axle centered on honeycomb stack 1.

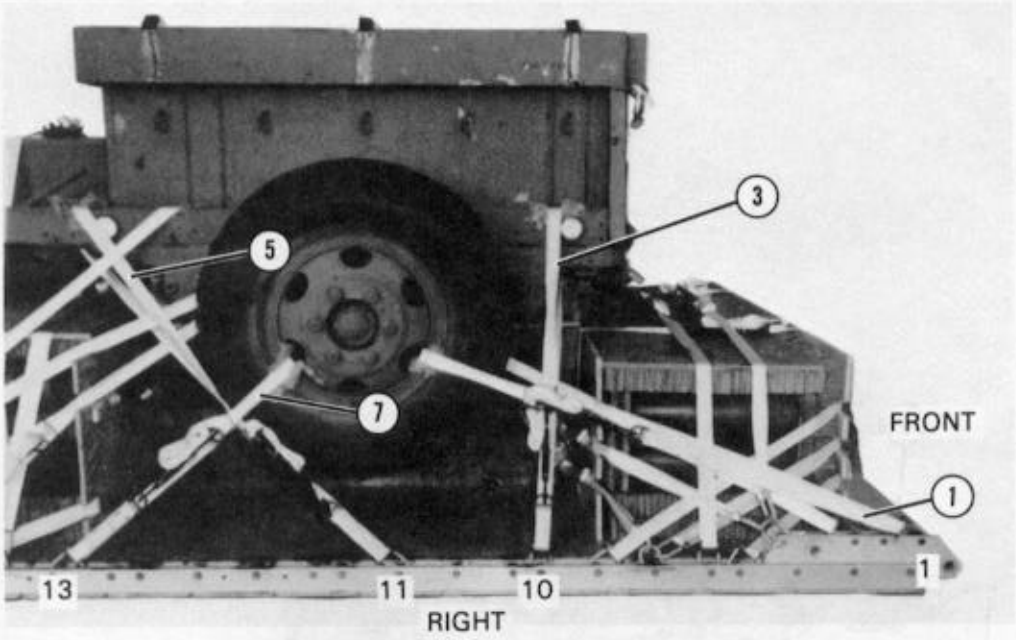
(3) Make sure the front edge of the lunette overhangs the rear of the platform by 32 inches.

(4) Remove the lifting slings (not shown).

Figure 4-12. Trailer positioned

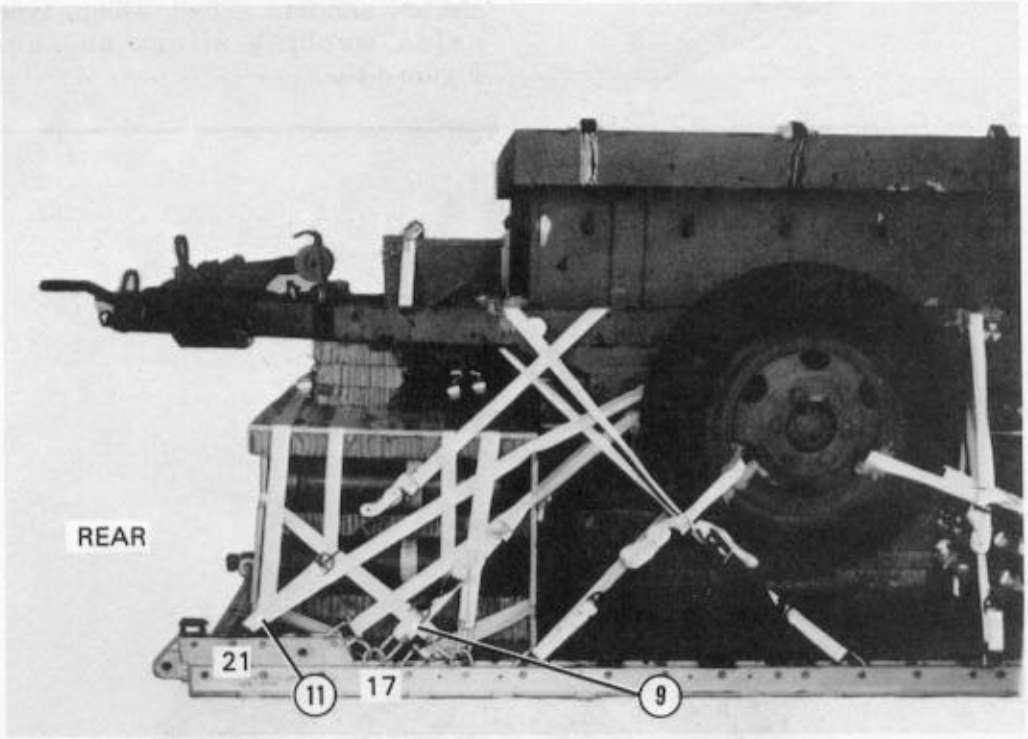
4-9. Lashing Trailer

Lash the trailer to the platform using twelve 15-foot tie-down assemblies according to FM 10-500-2/TO 13C7-1-5 and as shown in Figures 4-13 and 4-14.



Lashing Number	Tie-Down Clevis Number	Instructions
		Pass Lashing:
1	1	Through the left wheel of the trailer.
2	1A	Through the right wheel of the trailer.
3	10	Around the mainframe rail, to the rear of the spring bracket, left side of the trailer.
4	10A	Around the mainframe rail, to the rear of the spring bracket, right side of the trailer.
5	11	Around the mainframe rail, in front of the second cross member, left side of the trailer.
6	11A	Around the mainframe rail, in front of the second cross member, right side of the trailer.
7	13	Through the left wheel of the trailer.
8	13A	Through the right wheel of the trailer.

Figure 4-13. Lashings 1 through 8 installed

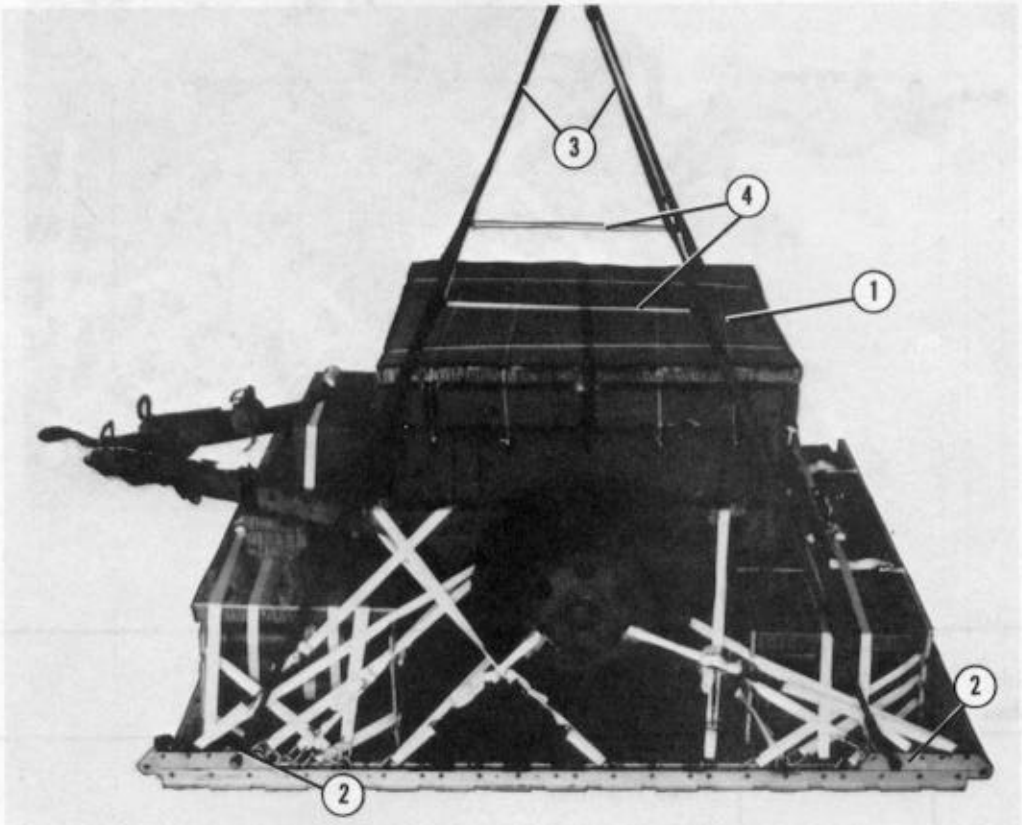


Lashing Number	Tie-Down Clevis Number	Instructions
		Pass Lashing:
9	17	Through the lower spring bracket, left side of the trailer.
10	17A	Through the lower spring bracket, right side of the trailer.
11	21	Around the mainframe rail, to the rear of the second cross member, left side of the trailer.
12	21A	Around the mainframe rail, to the rear of the second cross member, right side of the trailer.

Figure 4-14. Lashings 9 through 12 installed

4-10. Installing and Safetying Suspension Slings

Install and safety four large suspension clevises and four 12-foot (2-loop), type XXVI nylon webbing slings as shown in Figure 4-15.



(1) Place two 36- by 74-inch pieces of honeycomb side by side on top of the trailer. Tape the edges of the honeycomb. Secure the honeycomb in place using six lengths of type III nylon cord.

(2) Attach a 12-foot sling to each tandem link with a large suspension clevis.

(3) Raise the suspension slings above the load.

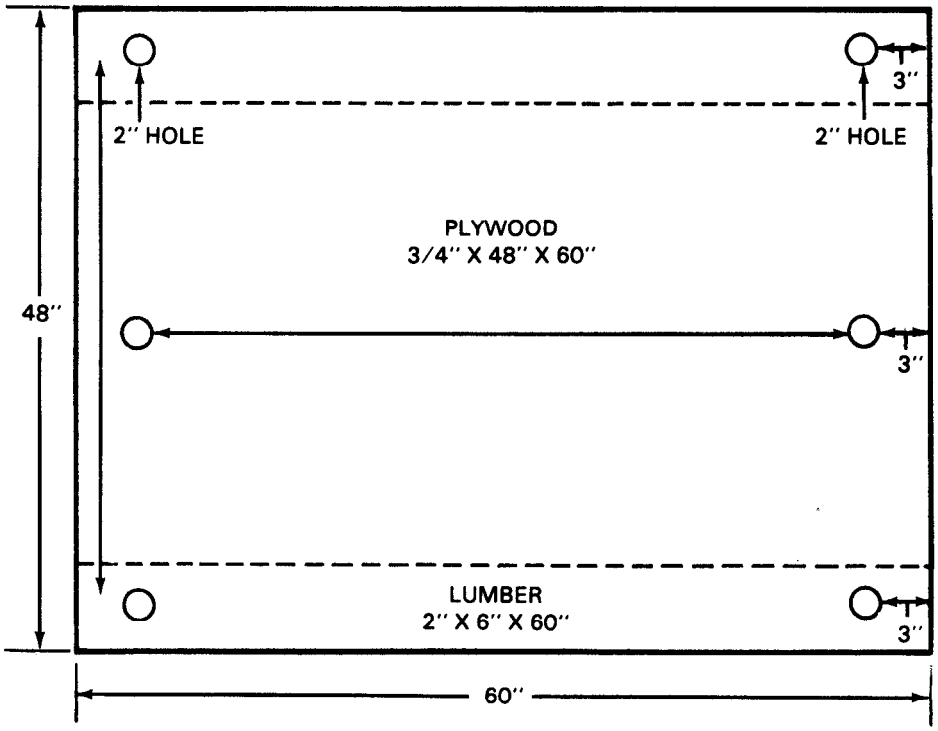
(4) Install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

Figure 4-15. Suspension slings installed and safetied

4-11. Building and Securing Cargo Parachute Stowage Platform

Build the cargo parachute stowage platform as shown in Figure 4-16. Secure the cargo parachute stowage platform as shown in Figure 4-17.

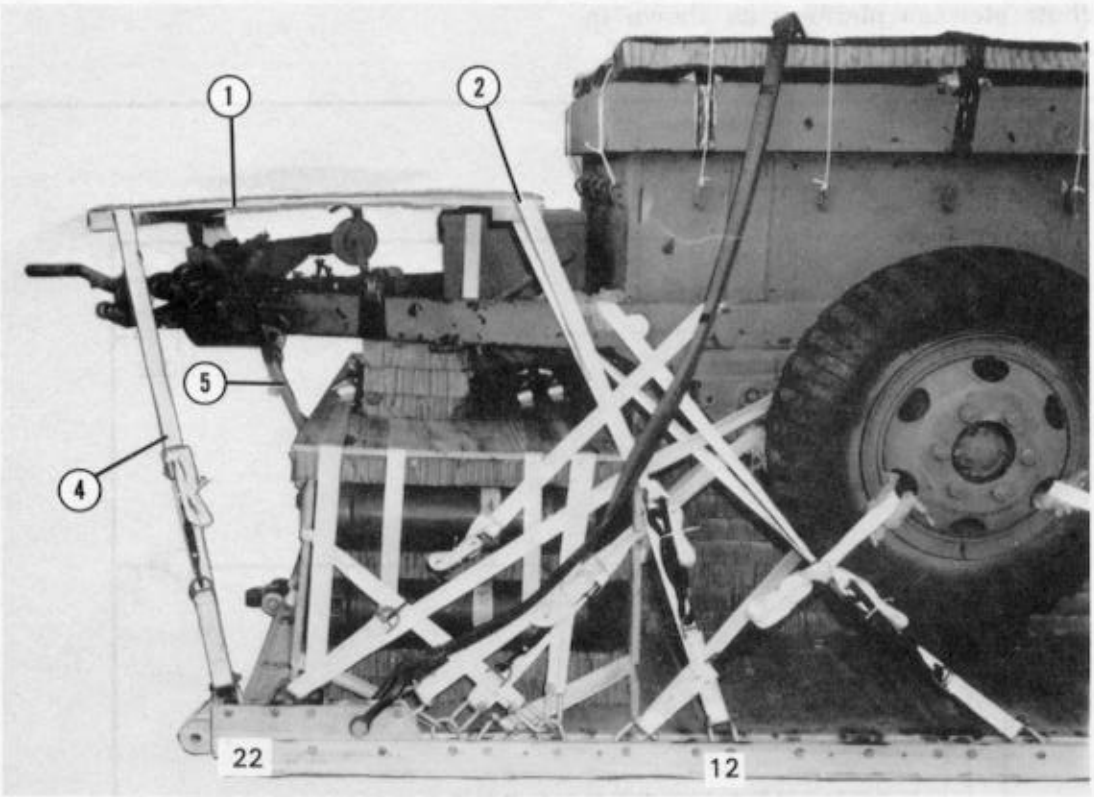
Note: This drawing is not drawn to scale.



Step:

1. Cut a 3/4- by 48- by 60-inch piece of plywood.
2. Nail a 2- by 6- by 60-inch piece of lumber along each 60-inch edge of the plywood using sixpenny nails.
3. Drill a 2-inch hole in the center of each 48-inch edge of the plywood 3 inches from the edge.
4. Drill a 2-inch hole in the center of each end of each 2- by 6- by 60-inch piece of lumber and through the plywood 3 inches from the end of the lumber.

Figure 4-16. Cargo parachute stowage platform built

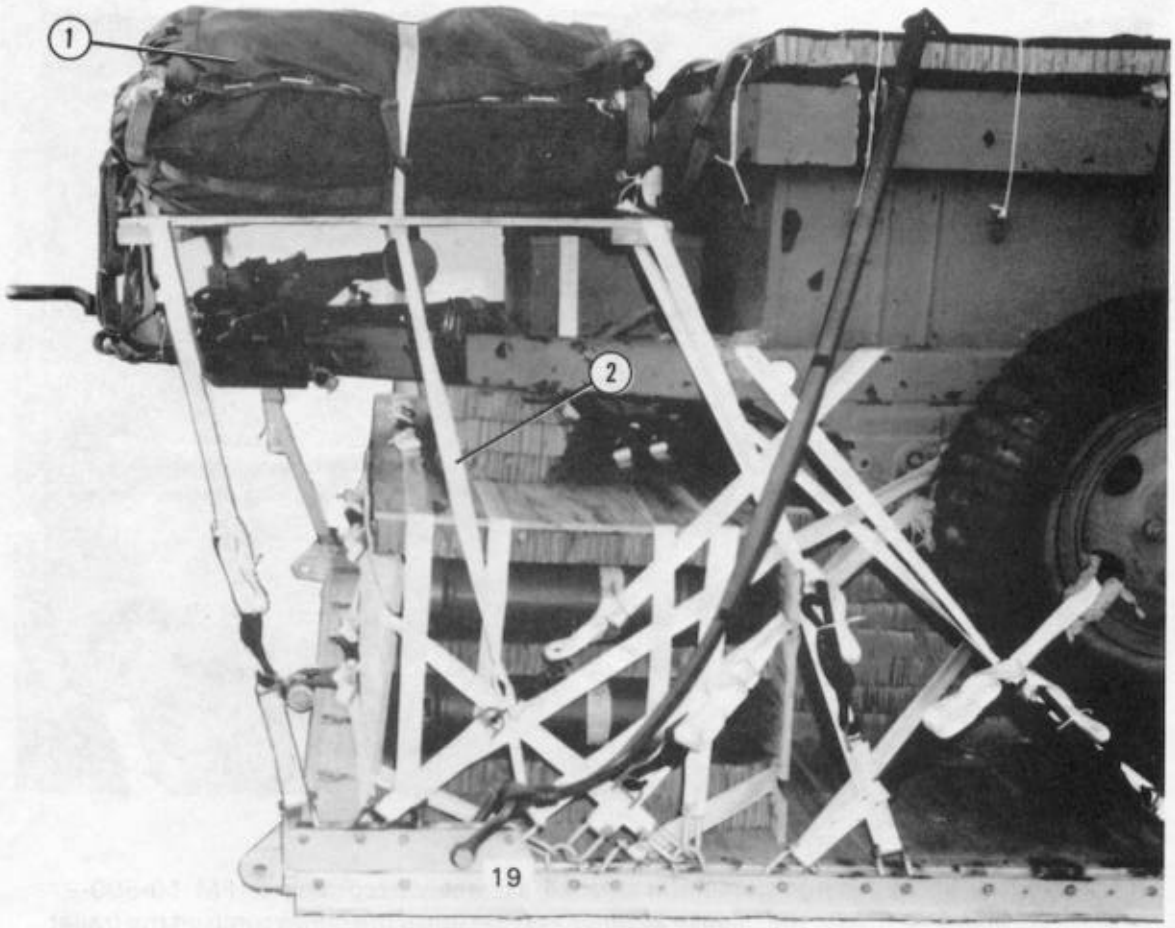


1. Place the stowage platform on the trailer tongue wheel stand and toolbox.
2. Run the free end of a 15-foot lashing through clevis 12, up through the front hole in the stowage platform, and back to the clevis. Secure the lashing with a D-ring and a load binder.
3. Repeat step 2 for the left side (not shown) using clevis 12A.
4. Run the free end of a 15-foot lashing through clevis 22, up through the rear hole in the stowage platform, and back to the clevis. Secure the lashing with a D-ring and a load binder.
5. Repeat step 4 for the left side using clevis 22A.

Figure 4-17. Cargo parachute stowage platform secured

4-12. Stowing Cargo Parachutes

Stow two G-11B cargo parachutes on the parachute stowage platform according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 4-18.



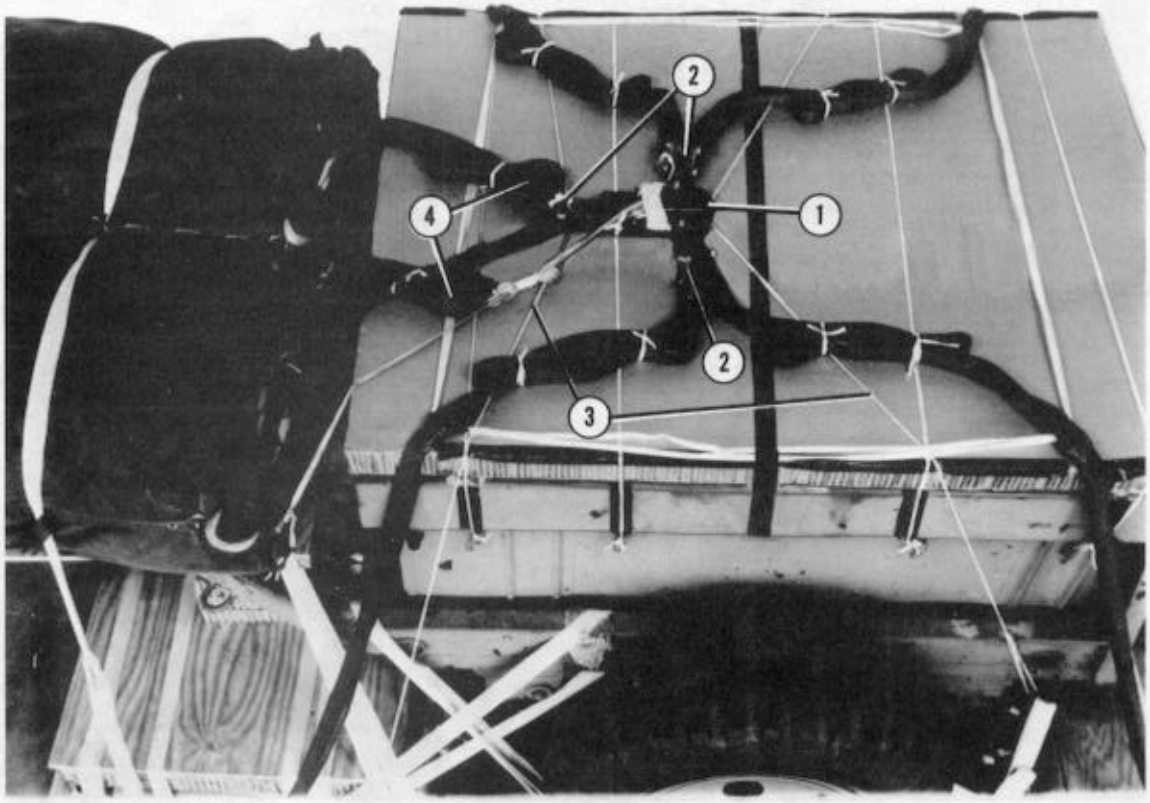
(1) Prepare and position two G-11B cargo parachutes on the parachute stowage platform according to FM 10-500-2/TO 13C7-1-5. Each parachute requires a 20-foot riser extension as outlined in FM 10-500-2/TO 13C7-1-5.

(2) Install an 8-yard length of type VIII nylon webbing restraint strap on top and over the cargo parachutes and through the middle holes in the parachute stowage platform according to FM 10-500-2/TO 13C7-1-5. Secure the ends of the strap to clevises 19 and 19A.

Figure 4-18. Cargo parachutes stowed

4-13. Installing Release Assembly

Prepare, install, and safety an M-1 cargo parachute release assembly according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 4-19.



(1) Prepare an M-1 cargo parachute release assembly according to FM 10-500-2/TO 13C7-1-5. Center the release assembly on the top of the honeycomb on the trailer bed.

(2) Install the release assembly parachutes according to FM 10-500-2/TO 13C7-1-5.

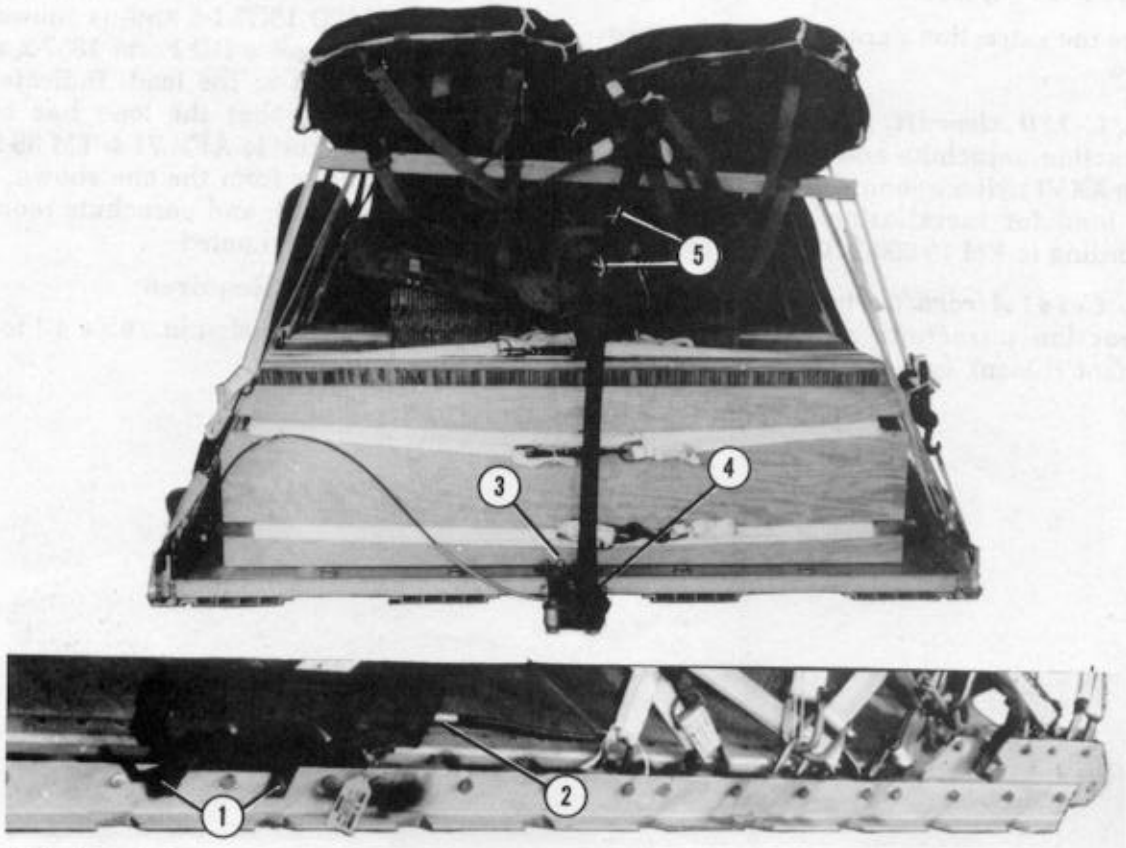
(3) Safety the top and bottom of the release with type III nylon cord.

(4) S-fold the slack in the riser extensions and suspension slings. Secure them with type I, 1/4-inch cotton webbing.

Figure 4-19. M-1 release assembly installed

4-14. Installing Extraction System

Install the EFTC extraction system according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 4-20.



(1) Attach the type V EFTA mounting brackets to the front mounting holes in the left platform rail.

(2) Install the actuator to the EFTA mounting brackets with a 12-foot cable according to FM 10-500-2/TO 13C7-1-5. Secure the 12-foot cable to the clevises using type I, 1/4-inch cotton webbing.

(3) Use a 5 1/2-inch link assembly adapter. Attach the link assembly to the extraction bracket with the locking nut hole facing toward the left side of the platform according to FM 10-500-2/TO 13C7-1-5.

(4) Connect one end of a 9-foot (2-loop), type XXVI nylon webbing sling (deployment line) to the top spacer of the link assembly. Connect the free end to the clustering clevis.

(5) Fold the excess deployment line, and secure the folds with tape or type I, 1/4-inch cotton webbing.

Figure 4-20. Extraction system installed

4-15. Installing Provisions for Emergency Restraints

Install the provisions for the emergency restraints on the load according to FM 10-500-2/TO 13C7-1-5.

4-16. Placing Extraction Parachute

Place the extraction parachute as described below.

a. C-130 Aircraft. Place a 22-foot cargo extraction parachute and a 60-foot (3-loop), type XXVI nylon webbing extraction line on the load for installation in the aircraft according to FM 10-500-2/TO 13C7-1-5.

b. C-141 Aircraft. Place a 15-foot cargo extraction parachute and a continuous 160-foot (1-loop), type XXVI nylon webbing extraction line on the load for installation in the aircraft.

4-17. Marking Rigged Load

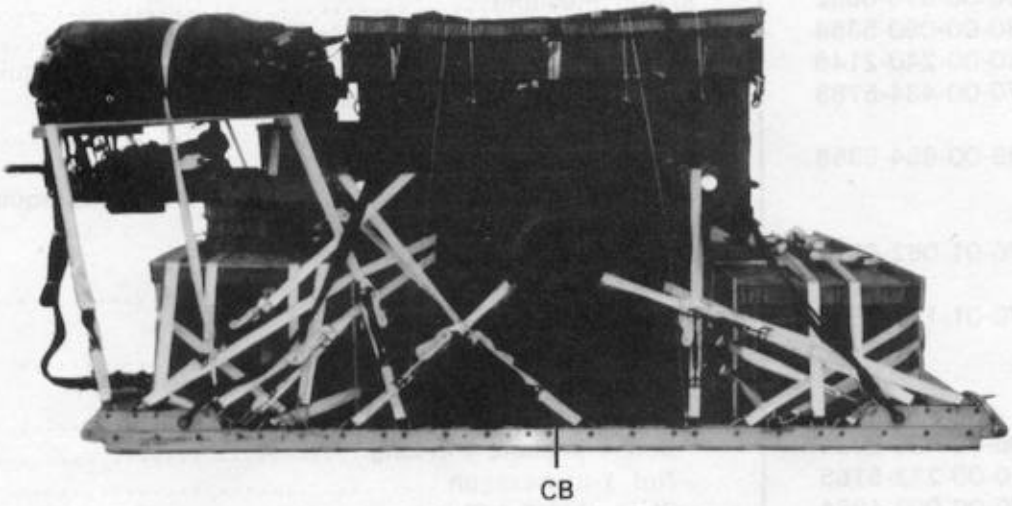
Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 4-21. Complete DD Form 1387-2, and securely attach it to the load. Indicate on DD Form 1387-2 that the load has been prepared according to AFR 71-4/TM 38-250. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

4-18. Equipment Required

Use the equipment listed in Table 4-1 to rig this load.

CAUTION

Make the final rigger inspection required by FM 10-500-2/TO 13C7-1-5 before the load leaves the rigging site.



RIGGED LOAD DATA

Weight:	Load shown	8,200 pounds
	Maximum load allowed	10,000 pounds
Height		81 inches
Width		108 inches
Length		181 inches
Overhang:	Front	4 1/2 inches
	Rear	32 inches
CB (from front edge of platform)		71 inches
Extraction System		EFTC

Figure 4-21. The 1 1/2-ton ammunition trailer rigged on a type V platform for low-velocity airdrop

Table 4-1. Equipment required for rigging the 1 1/2-ton ammunition trailer on a type V platform for low-velocity airdrop

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
	Clevis, suspension:	
4030-00-678-8562	3/4-in (medium)	6
4030-00-090-5354	1-in (large)	5
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5783	Coupling, airdrop, extraction force transfer w 12-ft cable	1
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
	Line, extraction:	
1670-01-062-6313	60-ft (3-loop), type XXVI nylon webbing	1
1670-01-107-7652	160-ft (1-loop), type XXVI nylon webbing (Use w C-141 aircraft.)	1
	Link assembly:	
	Two-point:	1
5306-00-435-8994	Bolt, 1-in diam, 4-in long	(2)
5310-00-232-5165	Nut, 1-in, hexagon	(2)
1670-00-003-1954	Plate, side, 5 1/2-in	(2)
5365-00-007-3414	Spacer, large	(2)
1670-00-783-5988	Type IV	1
5510-00-220-6448	Lumber, 2- by 6- by 60-inch	2
5315-00-010-4657	Nail, steel wire, common, 6d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in:	16 sheets
	5- by 23-in	(2)
	11- by 23-in	(5)
	20- by 20-in	(1)
	36- by 24-in	(4)
	36- by 62-in	(9)
	36- by 74-in	(2)
	48- by 12-in	(3)
	80- by 36-in	(2)
	84- by 28-in	(3)
	84- by 36-in	(2)
	Parachute:	
1670-01-016-7841	Cargo, G-11B	2
	Cargo extraction:	
1670-00-052-1548	15-ft or	1
1670-01-063-3715	15-ft	1
1670-00-687-5458	22-ft or	1
1670-01-063-3716	22-ft	1

Table 4-1. Equipment required for rigging the 1 1/2-ton ammunition trailer on a type V platform for low-velocity airdrop (continued)

National Stock Number	Item	Quantity
	Platform, AD, type V, 12-ft:	1
	Bracket:	
1670-01-162-2375	Inside EFTA	(1)
1670-01-162-2374	Outside EFTA	(1)
1670-01-162-2372	Clevis assembly	(52)
1670-01-162-2376	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link	(4)
5530-00-128-4981	Plywood, 3/4-in:	6 sheets
	24- by 86-in	(2)
	24- by 89-in	(2)
	36- by 24-in	(2)
	36- by 62-in	(1)
	48- by 60-in	(1)
	80- by 36-in	(1)
	84- by 28-in	(1)
1670-01-097-8816	Release, cargo parachute, M-1	1
	Sling, cargo airdrop:	
	For deployment:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For lifting:	
1670-01-062-6303	12-ft (2-loop), type XXVI nylon webbing	4
	For riser extension:	
1670-00-823-5043	20-ft (3-loop), type X nylon webbing or	2
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	2
	For suspension:	
1670-01-062-6303	12-ft (2-loop), type XXVI nylon webbing	4
1670-00-040-8219	Strap, parachute release, multicut comes w 3 knives	1
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	55
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type I	As required
	Nylon:	
	Tubular:	
8305-00-082-5752	1/2-in or	As required
8305-00-268-2453	1/2-in	As required
8305-00-263-3591	Type VIII	As required

CHAPTER 5

RIGGING MINE CLEARING LINE CHARGE ON 2 1/2-TON TRAILER FOR LOW-VELOCITY AIRDROP ON A TYPE V PLATFORM

5-1. Description of Load

The mine clearing line charge (MICLIC) in its container, mounted on a 2 1/2-ton M200A1 trailer, is rigged on a 12-foot, type V platform for low-velocity airdrop. The rocket projectile is rigged on the platform in its shipping container as an accompanying load. The MICLIC and its trailer weigh 2,855 pounds, and the rocket projectile in its container weighs 270 pounds. The load shown requires two G-11B cargo parachutes. The unrigged MICLIC on its trailer is shown in Figure 5-1.

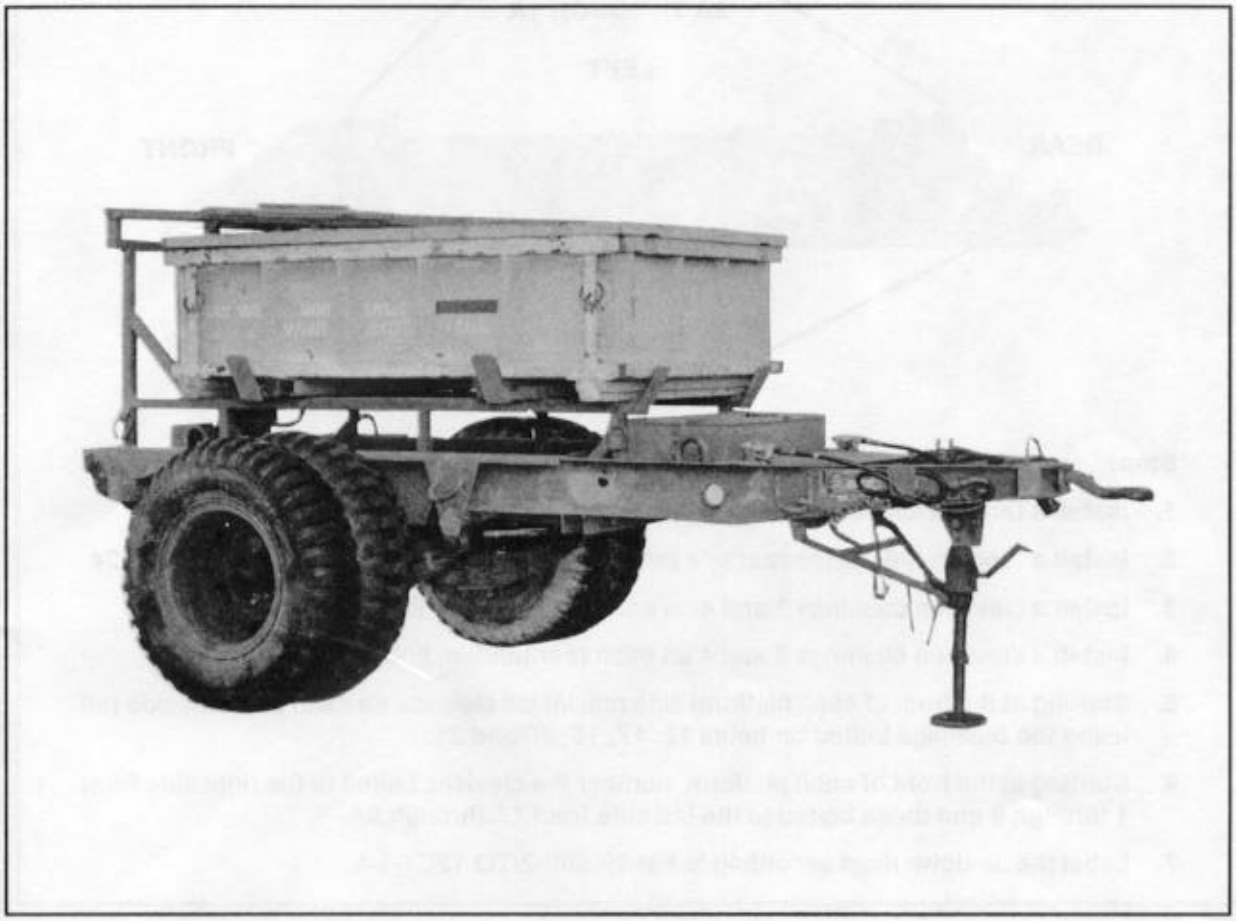


Figure 5-1. Unrigged MICLIC on 2 1/2-ton trailer

5-2. Preparing Platform

Prepare a 12-foot, type V platform as given below.

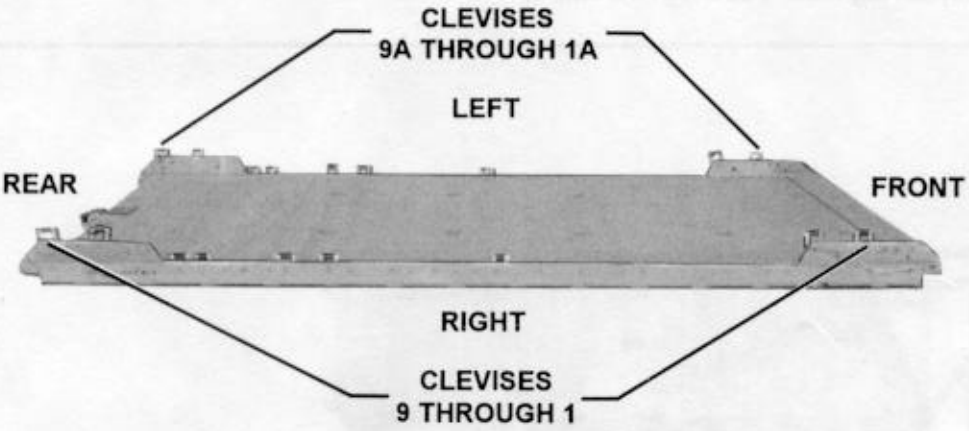
a. Inspecting Platform. Inspect, or assemble and inspect, the platform according to TM 10-1670-268-20&P/TO 13C7-52-22.

b. Installing Tandem Links. Install four tandem links as shown in Figure 5-2.

c. Attaching and Numbering Clevises. Attach and number 18 clevis assemblies as shown in Figure 5-2.

NOTES: 1. The nose bumper may or may not be installed.

2. Measurements given in this section are from the front edge of the platform, NOT from the front edge of the nose bumper.



Step:

1. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
2. Install a tandem link on the rear of each platform side rail using holes 22, 23, and 24.
3. Install a clevis on bushings 3 and 4 on each front tandem link.
4. Install a clevis on bushings 2 and 4 on each rear tandem link.
5. Starting at the front of each platform side rail, install clevises on each platform side rail using the bushings bolted on holes 12, 17, 18, 20 and 21.
6. Starting at the front of each platform, number the clevises bolted to the right side from 1 through 9 and those bolted to the left side from 1A through 9A.
7. Label the tie-down rings according to FM 10-500-2/TO 13C7-1-5.

Figure 5-2. Platform prepared

5-3. Building and Placing Honeycomb Stacks

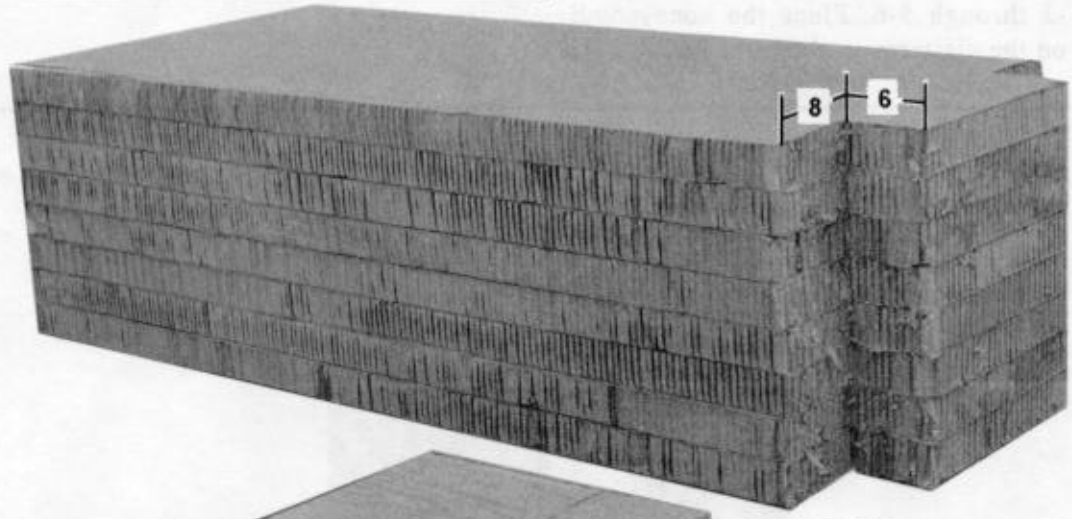
Build the honeycomb stacks as shown in Figures 5-3 through 5-6. Place the honeycomb stacks on the platform as shown in Figure 5-7.

STACKS 1 and 2

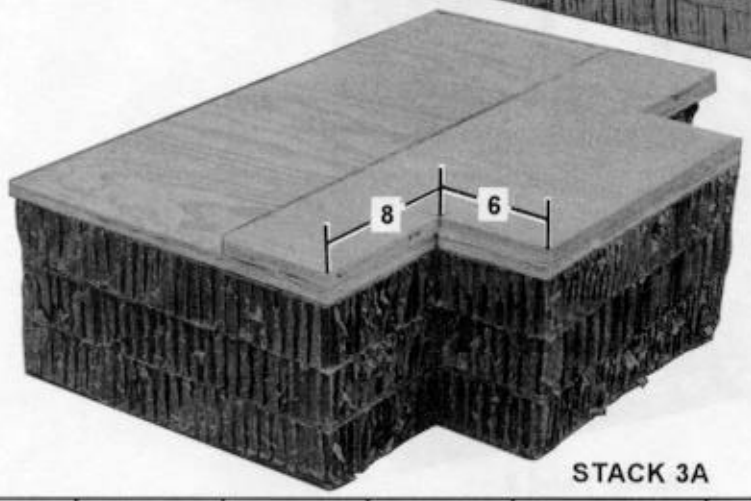
Stack Number	Pieces	Width	Length	Material	Instructions
1	11	24	10	Honeycomb	Stack to form a base.
	1	24	10	3/4-inch plywood	Glue flush over base.
	1	24	10	Honeycomb	Glue flush over plywood.
2	11	24	10	Honeycomb	Stack to form a base.
	1	24	10	3/4-inch plywood	Glue flush over base.
	1	24	10	Honeycomb	Glue flush over plywood.

Figure 5-3. Stacks 1 and 2 prepared

Note: All measurements are given in inches.



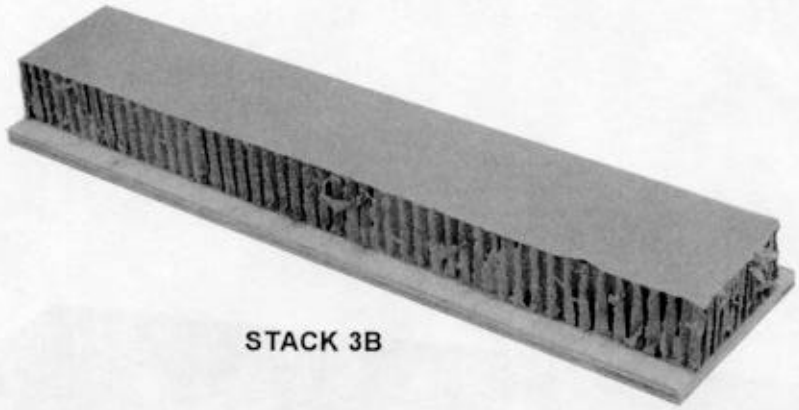
STACK 3 (BASE)



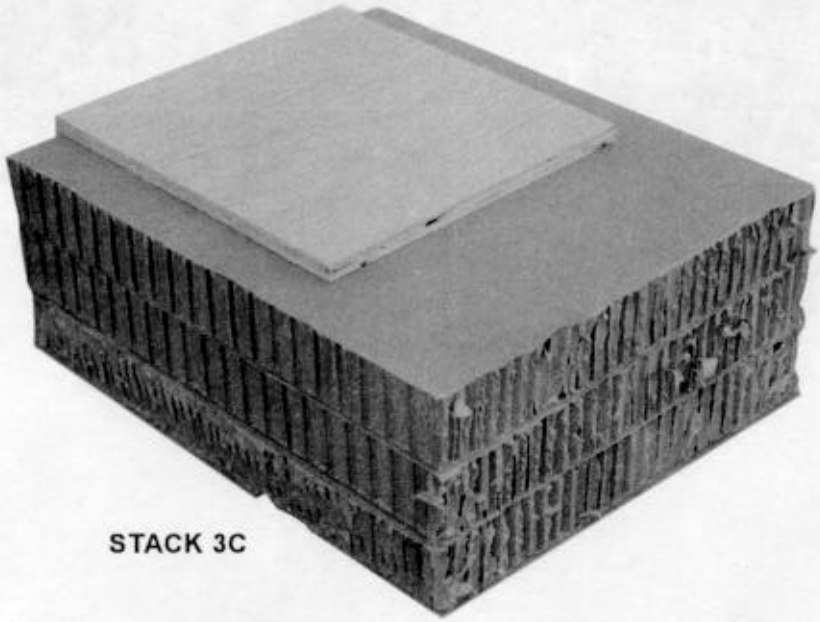
STACK 3A

Stack Number	Pieces	Width	Length	Material	Instructions
3 (Base)	8	36	84	Honeycomb	Make 8- by 6-inch cutouts in each piece as shown. Stack flush to form base.
3A	3	36	25	Honeycomb	Make cutouts as above, and glue flush.
	1	36	25	3/4-inch plywood	Make cutouts as above and glue over honeycomb.
	1	36	12	3/4-inch plywood	Make cutouts as above, and glue flush over plywood and honeycomb. Set stack 3A aside.

Figure 5-4. Components of stack 3 prepared



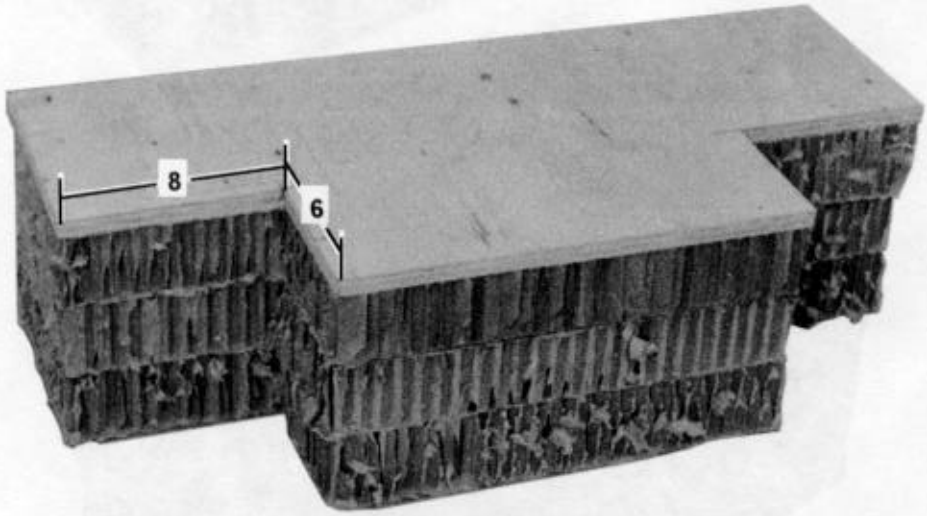
STACK 3B



STACK 3C

Stack Number	Pieces	Width	Length	Material	Instructions
3B	1	34	6	3/4-inch plywood	Center and glue honeycomb on plywood.
	1	34	8	Honeycomb	Set 3B aside.
3C	3	20	24	Honeycomb	Glue flush.
	1	16	15	3/4-inch plywood	Center and glue over honeycomb with rear edges aligned. Set 3C aside.

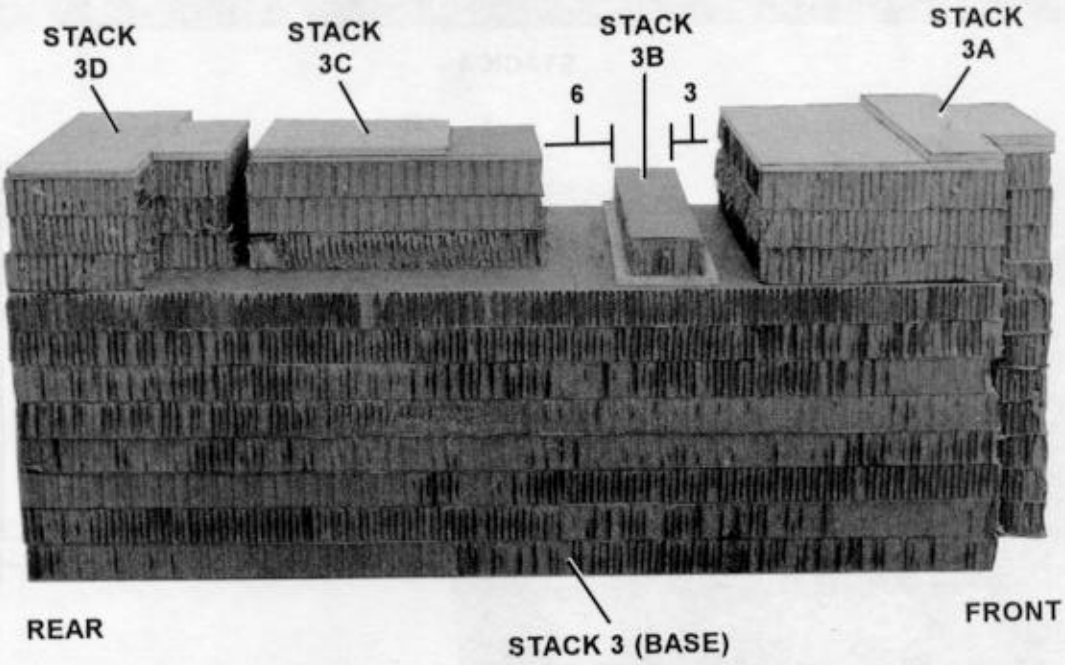
Figure 5-4. Components of stack 3 prepared (continued)



STACK 3D

Stack Number	Pieces	Width	Length	Material	Instructions
3D	3	36	16	Honeycomb	Make cutouts as shown and glue flush together.
	1	36	16	3/4-inch plywood	Make cutouts as above, and glue flush over plywood and honeycomb. Set 3D aside.

Figure 5-4. Components of stack 3 prepared (continued)

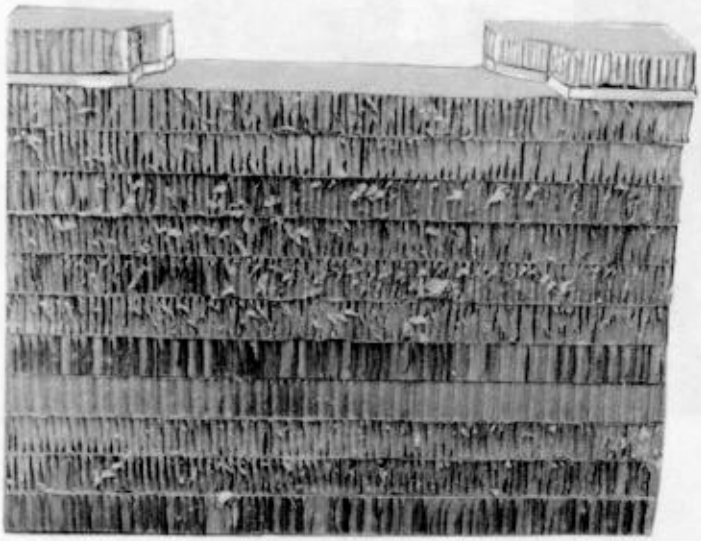


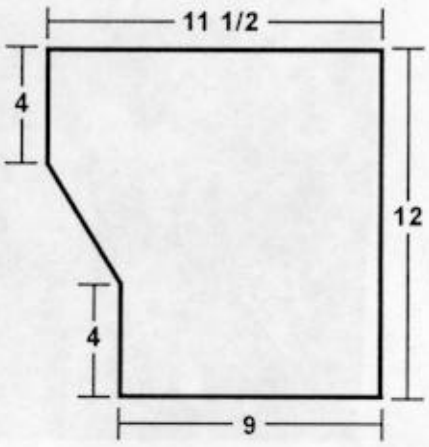
1. Align the cutouts of stack 3A with the base and glue in place.
2. Glue stack 3B on the base 3 inches to the rear of stack 3A.
3. Center stack 3C on the base 6 inches to the rear of stack 3B.
4. Glue stack 3D flush on the rear end of base with the cutouts to the front.

Figure 5-5. Stack 3 assembled

Notes: 1. This drawing is not drawn to scale.
2. All measurements are given in inches.

STACK 4

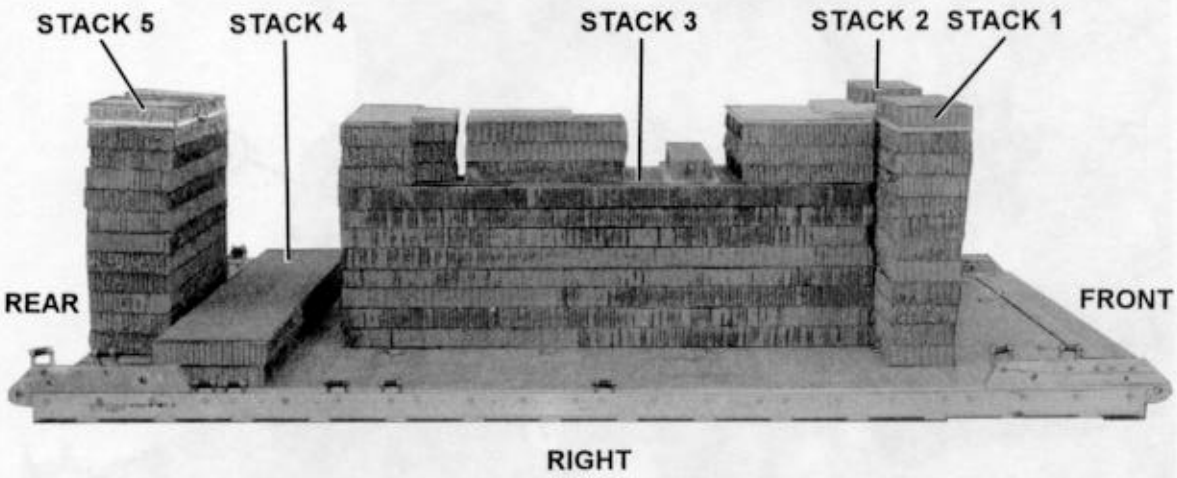




STACK 5

Stack Number	Pieces	Width	Length	Material	Instructions
4	2	96	15	Honeycomb	Glue flush together.
5	11	48	12	Honeycomb	Glue flush together.
	2	11 1/2	12	3/4-inch plywood	Make cutouts as shown, and place flush over sides of stack, facing in the same direction.
	2	11 1/2	12	Honeycomb	Make cutouts as above, and glue flush over plywood.

Figure 5-6. Stack 4 and 5 prepared

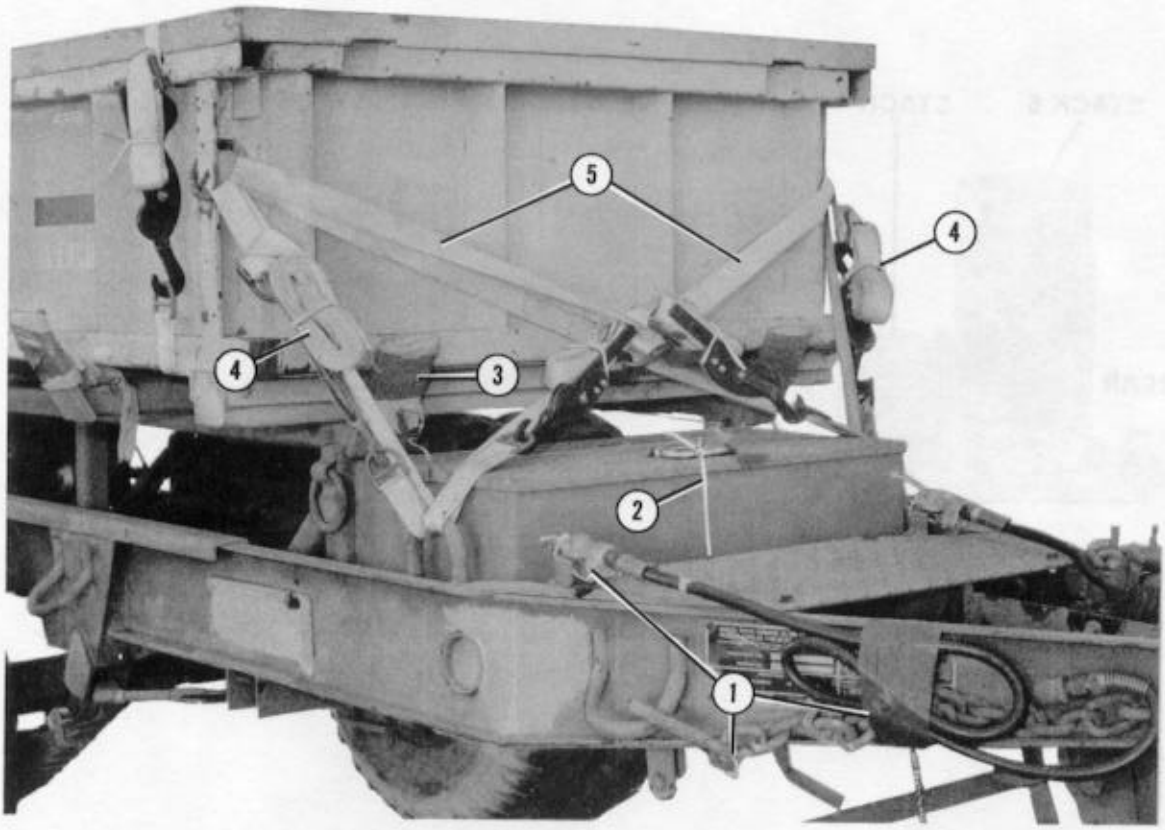


Stack Number	Position of Stack on Platform
	Place stack:
3	Centered 24 inches from the front edge of the platform.
1	In the right cutout of stack 3, 20 inches from the front edge of the platform.
2	In the left cutout of stack 3, 20 inches from the front edge of the platform.
4	Centered 14 inches from the rear edge of the platform.
5	Centered and flush with the rear edge of the platform.

Figure 5-7. Honeycomb stacks positioned on platform

5-4. Preparing MICLIC and Trailer

Prepare the MICLIC as shown in Figure 5-8.



(1) Secure tow chains, and electrical and brake lines to the trailer tongue with type III nylon cord and tape.

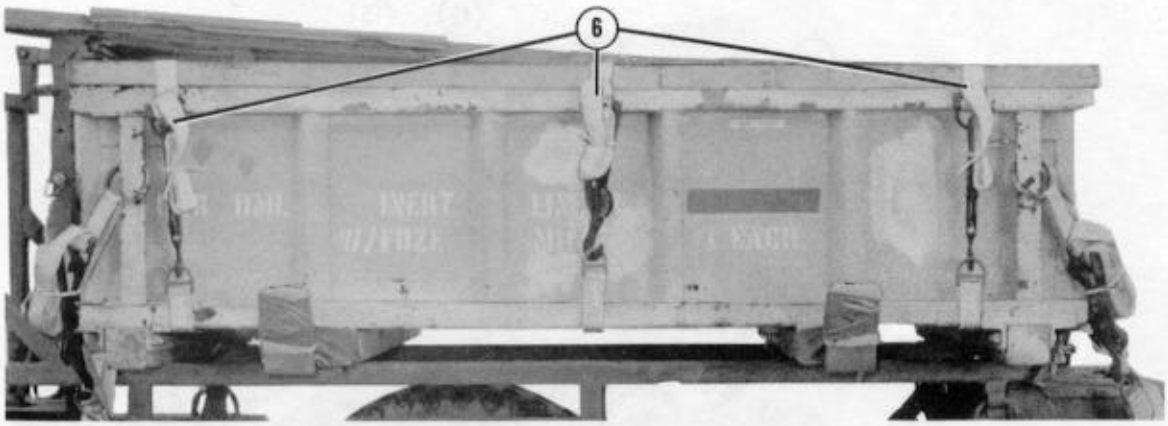
(2) Secure the tool box with type III nylon cord.

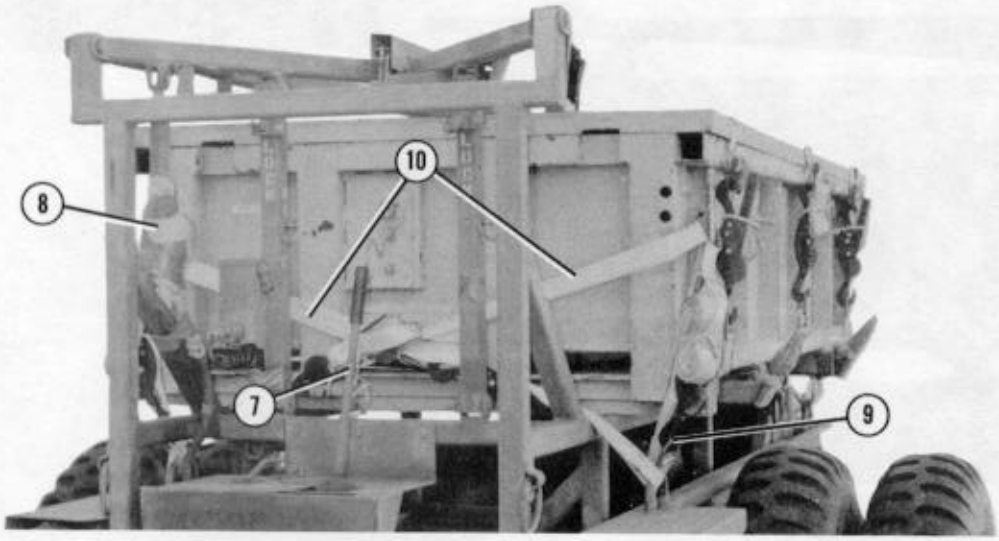
(3) Pad sharp edges with cellulose wadding taped in place.

(4) Lash the right front tie-down ring on the MICLIC box to the right front tie-down point on the trailer frame. Do the same for the left side.

(5) Lash the right front tie-down ring on the MICLIC box to the left front tie-down point on the trailer frame. Lash the left front tie-down ring on the MICLIC box to the right front tie-down point on the trailer frame.

Figure 5-8. MICLIC prepared





(6) Secure the MICLIC box lid with three 15-foot lashings spaced evenly. Pass the lashings over the box ONLY, not the launcher arm. Fasten the lashings on the side.

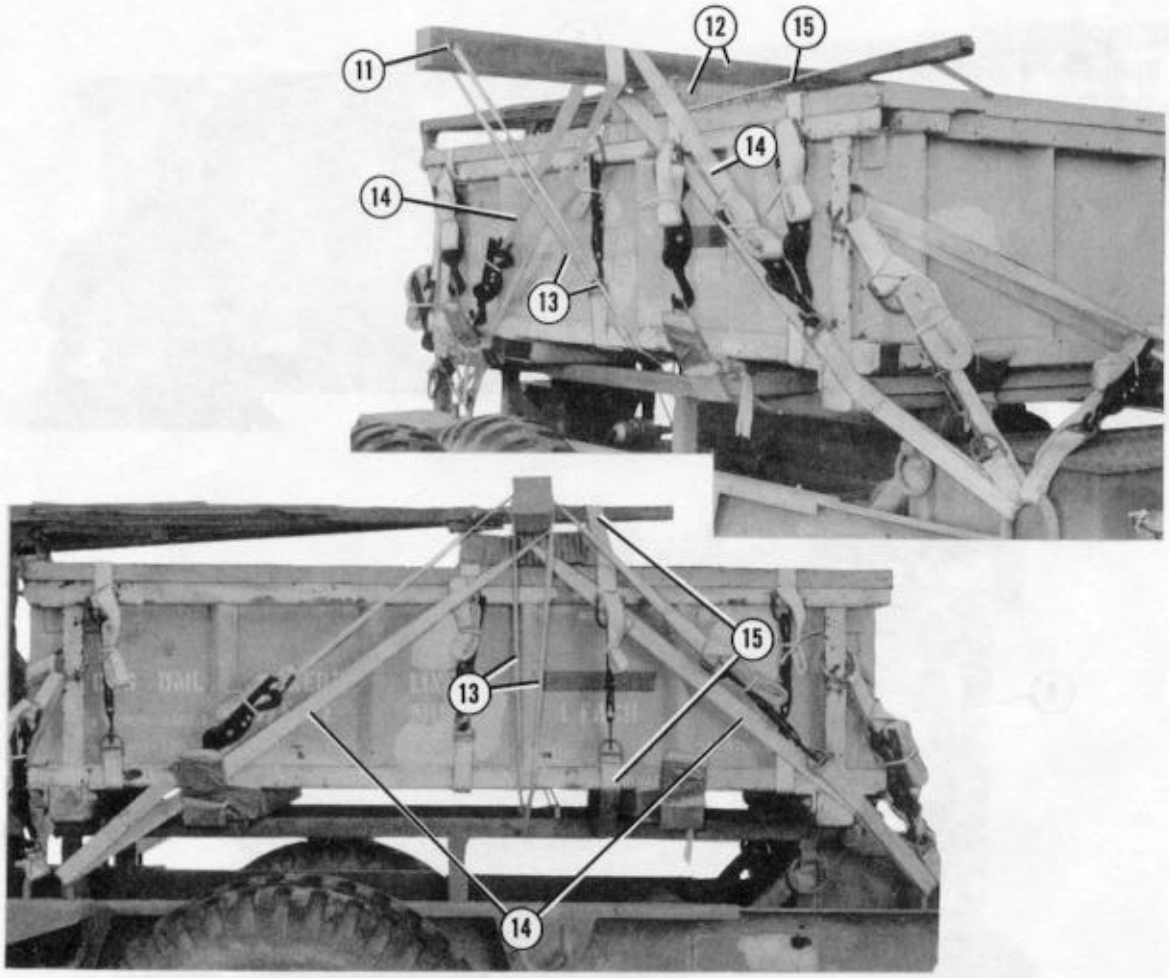
(7) Secure the hydraulics control lever in the forward position with type III nylon cord tied to the box frame.

(8) Pad the hydraulic cylinder with cellulose wadding taped in place.

(9) Lash the right rear tie-down ring on the MICLIC box to the right rear tie-down point on the trailer frame. Do the same for the left side.

(10) Lash the right rear tie-down ring on the MICLIC box to the left rear tie-down point on the trailer frame. Lash the left rear tie-down ring on the MICLIC box to the right rear tie-down point on the trailer frame.

Figure 5-8. MICLIC prepared (continued)



(11) Drill a 1/2-inch hole 2 inches from each end of a 96-inch piece of 4- by 4-inch lumber.

(12) Center the lumber over a 54- by 12-inch piece of honeycomb. Place the lumber and honeycomb under the launcher arm and over the MICLIC box so that the edge of the lumber is 32 inches from the front edge of the MICLIC box.

(13) Be sure that the lumber remains in its position, and tie it to the trailer frame through the drilled holes on each side with 1/2-inch tubular nylon webbing.

(14) Lash the lumber to the tie-down points on each side used previously.

Note: Be sure that the lumber remains properly aligned when fastening the lashings.

(15) Pass a 15-foot lashing around the trailer frame and the launcher arm immediately in front of the lumber and honeycomb placed in step 12 above.

Figure 5-8. MICLIC prepared (continued)

5-5. Stowing the Accompanying Load on Platform

Stow the accompanying load, the rocket container, on the platform as shown in Figure 5-9.

a. Construct endboards for the accompanying load as shown in Figure 5-9.

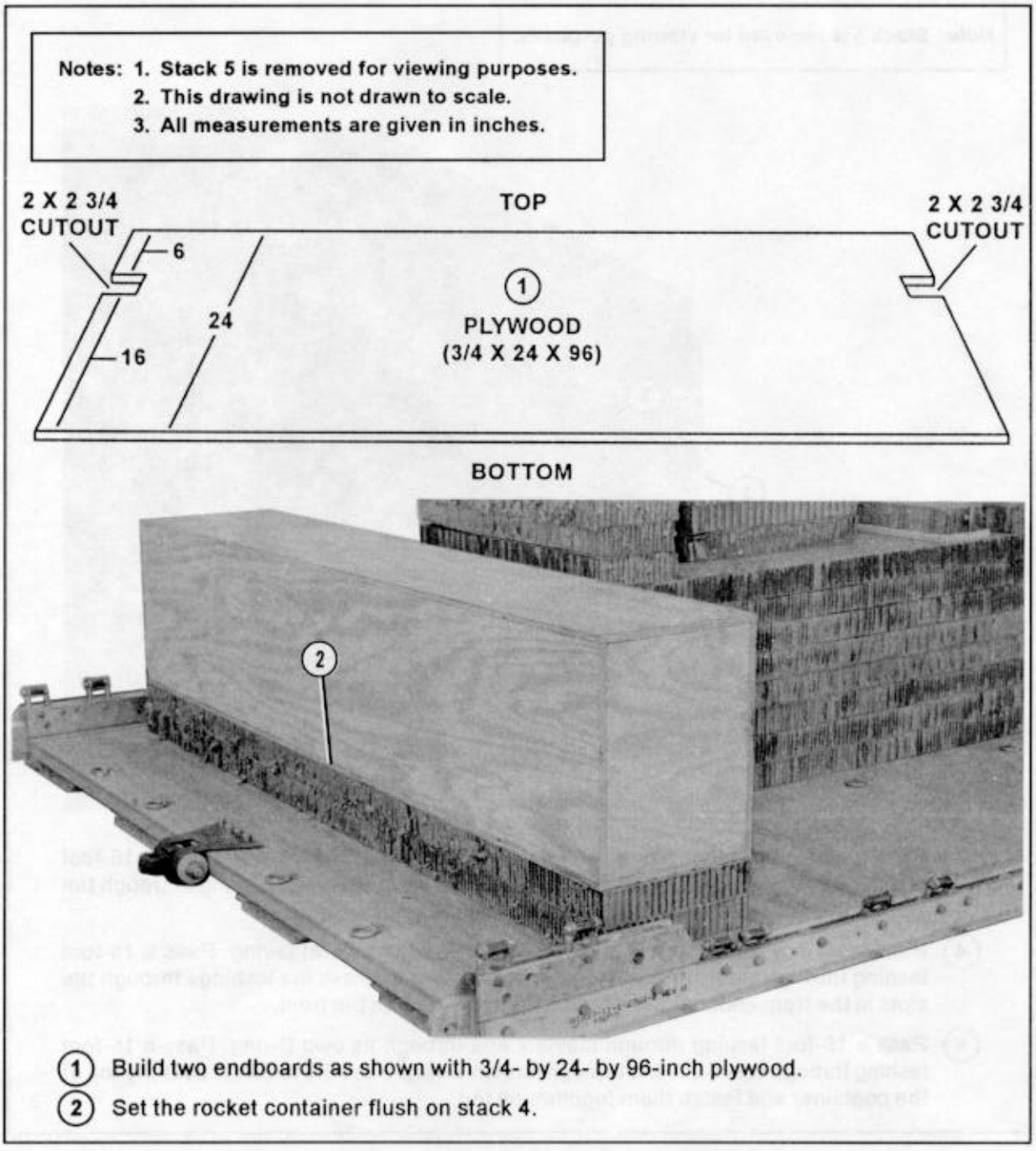
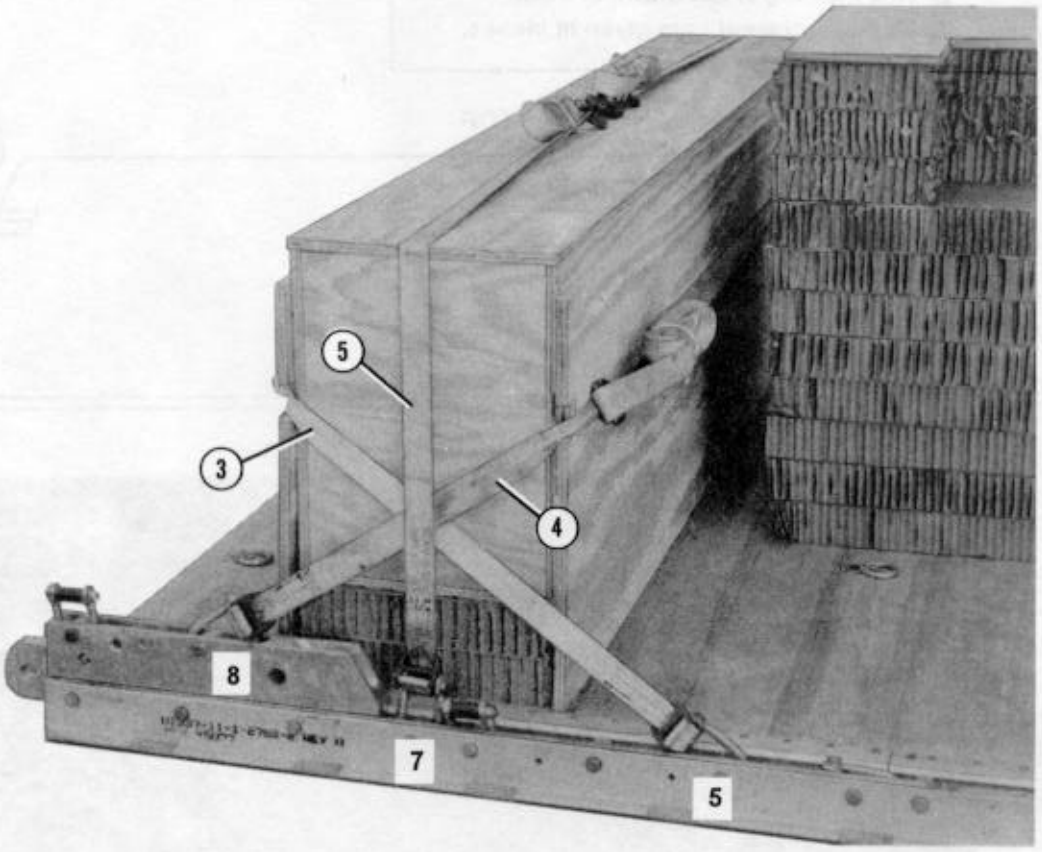


Figure 5-9. Rocket container stowed

b. Prepare, stow, and lash the front accompanying load as shown in Figure 5-9.

Note: Stack 5 is removed for viewing purposes.



(3) Pass a 15-foot lashing through clevis 5 and through its own D-ring. Pass a 15-foot lashing through clevis 5A and through its own D-ring. Pass the lashings through the slots in the rear endboard and fasten them together in the rear.

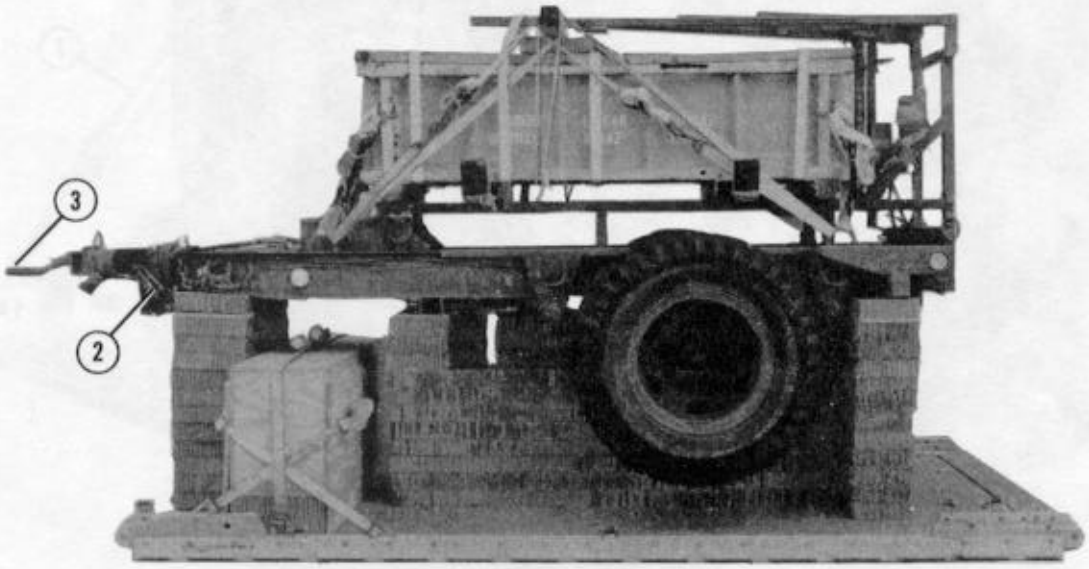
(4) Pass a 15-foot lashing through clevis 8 and through its own D-ring. Pass a 15-foot lashing through clevis 8A and through its own D-ring. Pass the lashings through the slots in the front endboard and fasten them together in the front.

(5) Pass a 15-foot lashing through clevis 7 and through its own D-ring. Pass a 15-foot lashing through clevis 7A and through its own D-ring. Pass the lashings over the top of the container and fasten them together on top.

Figure 5-9. Rocket container stowed (continued)

5-6. Lifting and Positioning MICLIC

Lift the MICLIC and position it on the honeycomb stacks as shown on Figure 5-10.



(1) Attach a 12-foot (3-loop), type XXVI nylon webbing sling to each of the four lifting points on the trailer with a medium clevis (not shown).

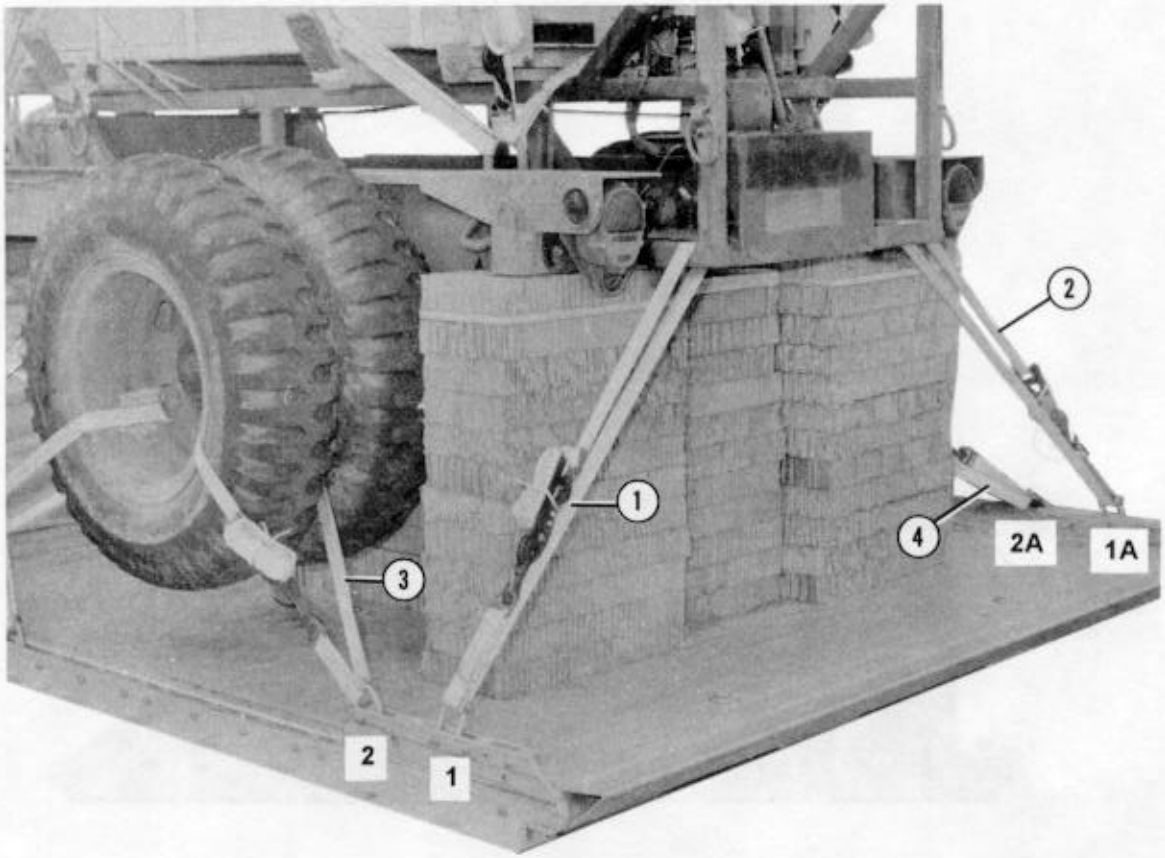
(2) Raise the trailer. Fold the support leg and A-frame. Tie them and the hand crank to the trailer frame with type III nylon cord.

(3) Position the trailer on the honeycomb stacks so that the towing pintle overhangs the rear of the platform 34 inches.

Figure 5-10. MICLIC trailer positioned on honeycomb stacks

5-7. Lashing MICLIC

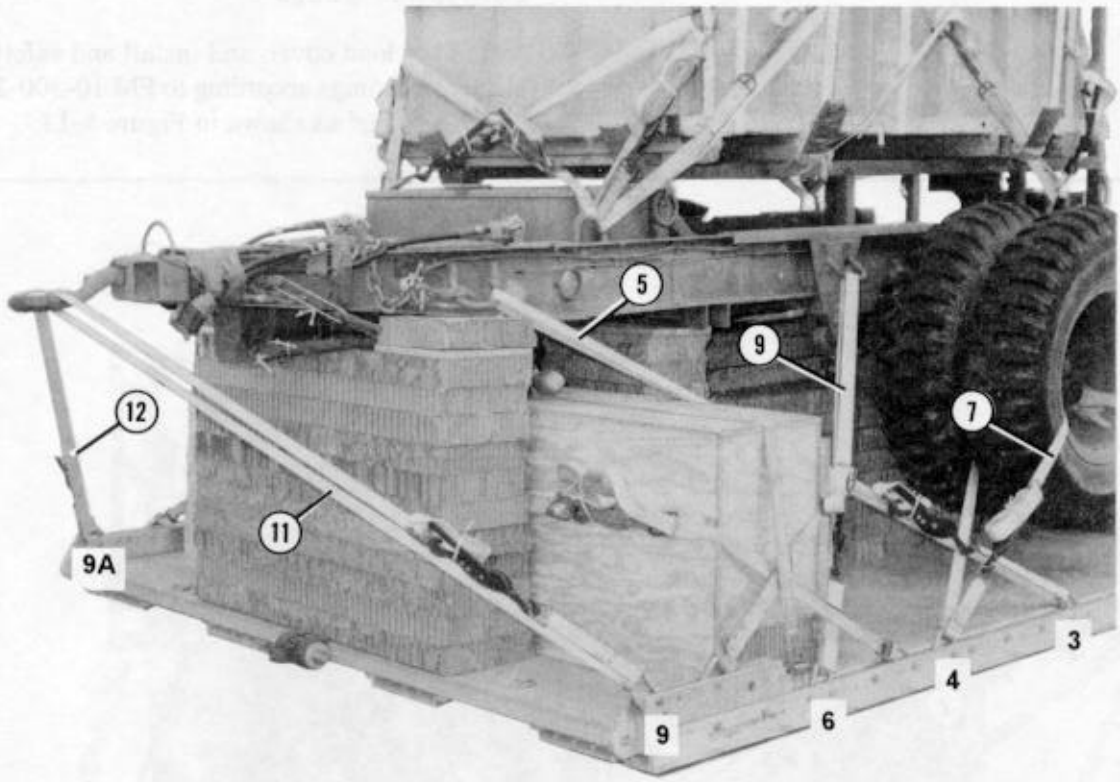
Lash the MICLIC to the platform as shown in Figures 5-11 and 5-12. Install the lashings according to FM 10-500-2/TO 13C7-1-5.



Lashing Number	Tie-down Clevis Number	Instructions
		Place lashing:
1	1	Around trailer frame, left side.
2	1A	Around trailer frame, right side.
3	2	Around outside wheel, left side.
4	2A	Around outside wheel, right side.

Note: Pad wheel opening with cellulose wadding.

Figure 5-11. Lashings 1 through 4 installed



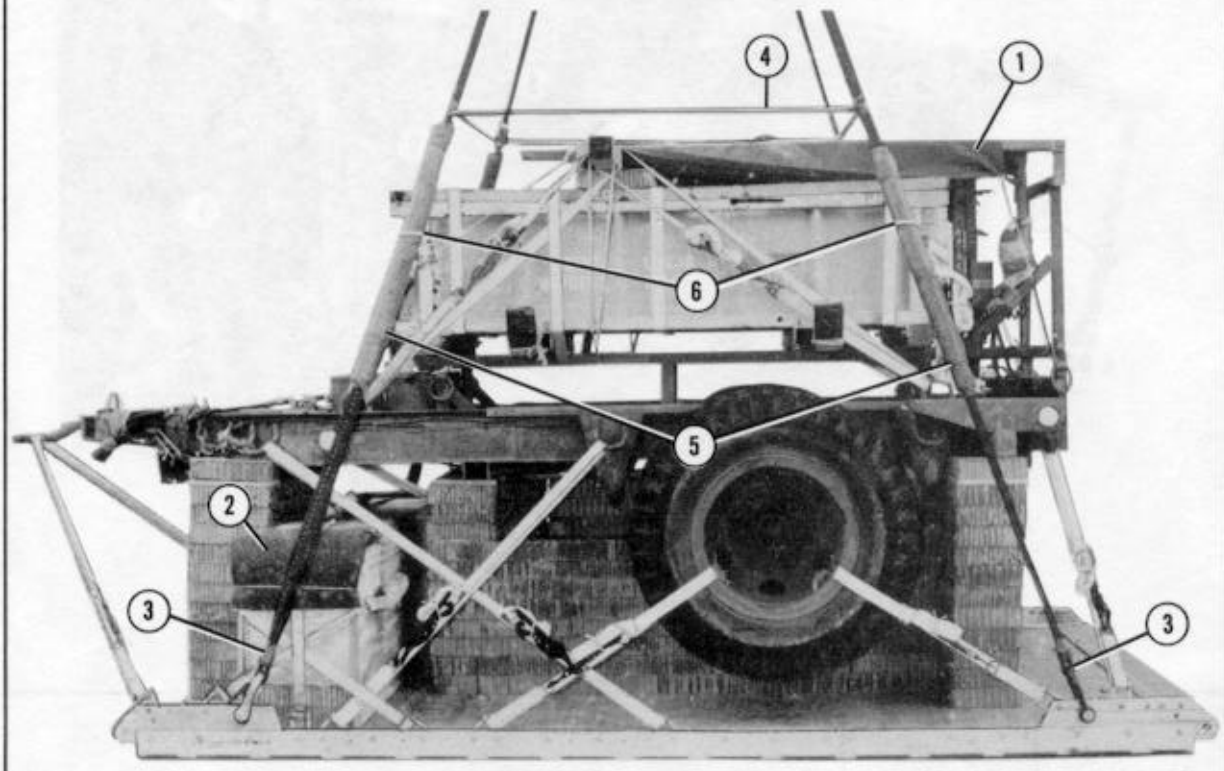
Lashing Number	Tie-down Clevis Number	Instructions
		Place lashing:
5	3	Through front tie-down point, left side.
6	3A	Through front tie-down point, right side.
7	4	Around outside wheel, left side.
8	4A	Around outside wheel, right side.
9	6	Through center tie-down point, left side.
10	6A	Through center tie-down point, right side.
11	9	Through lunette.
12	9A	Through lunette.

Note: Pad wheel openings with cellulose wadding.

Figure 5-12. Lashings 5 through 12 installed

5-8. Installing Load Cover and Suspension Slings

Install the load cover, and install and safety the suspension slings according to FM 10-500-2/TO 13C7-1-5, and as shown in Figure 5-13.



(1) Place a 60- by 72-inch piece of canvas over the launcher arm and the lumber on top of the MICLIC. Tie the corners of the canvas to convenient points on the load with type III nylon cord.

(2) Tie a 36- by 18-inch piece of felt over each upper corner of the rocket box with type III nylon cord.

(3) Attach a 16-foot (2-loop), type XXVI nylon webbing suspension sling to each tandem link with a large clevis assembly.

(4) Install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

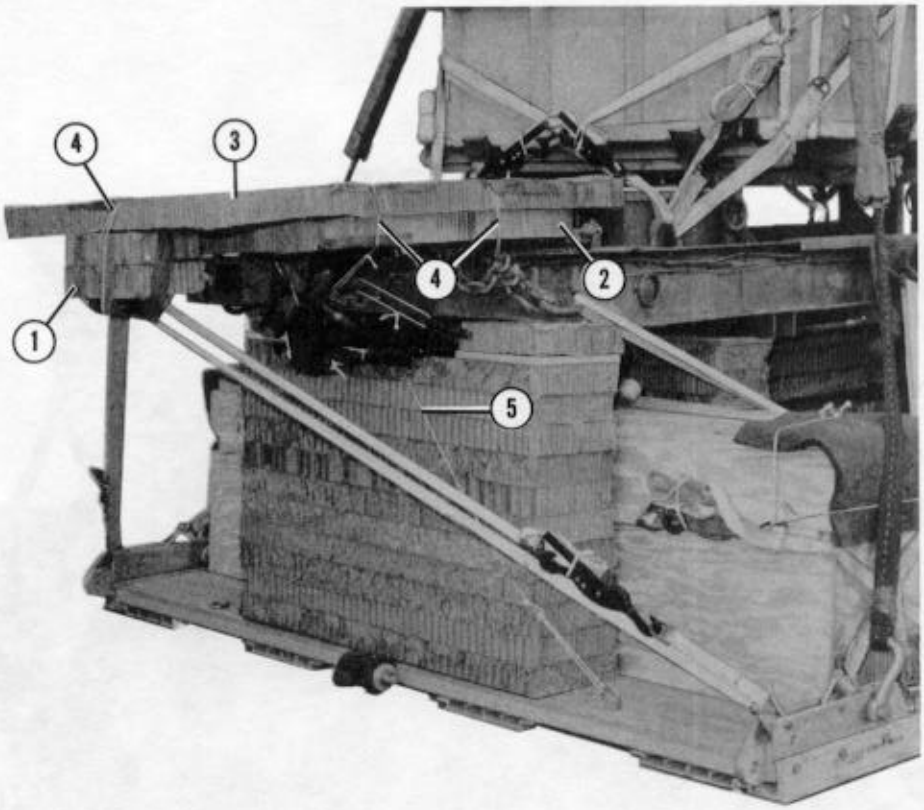
(5) Pad each suspension sling where it makes contact with the MICLIC box with felt taped in place.

(6) Tie each suspension sling to the nearest tie-down ring on the container with a length of type III nylon cord.

Figure 5-13. Load cover and suspension slings installed

5-9. Building Cargo Parachute Stowage Platform

Build and secure the cargo parachute stowage platform as shown in Figure 5-14.



(1) Place two 6- by 12-inch pieces of honeycomb on the lunette, and secure them with tape.

(2) Place a 36- by 42-inch piece of honeycomb over the trailer frame immediately in front of the pieces placed in step 1 above. Make 8- by 8-inch cutouts in the front corners of this piece to allow for the air brake hoses.

(3) Place a 36- by 54-inch piece of honeycomb over the pieces placed in steps 1 and 2 above.

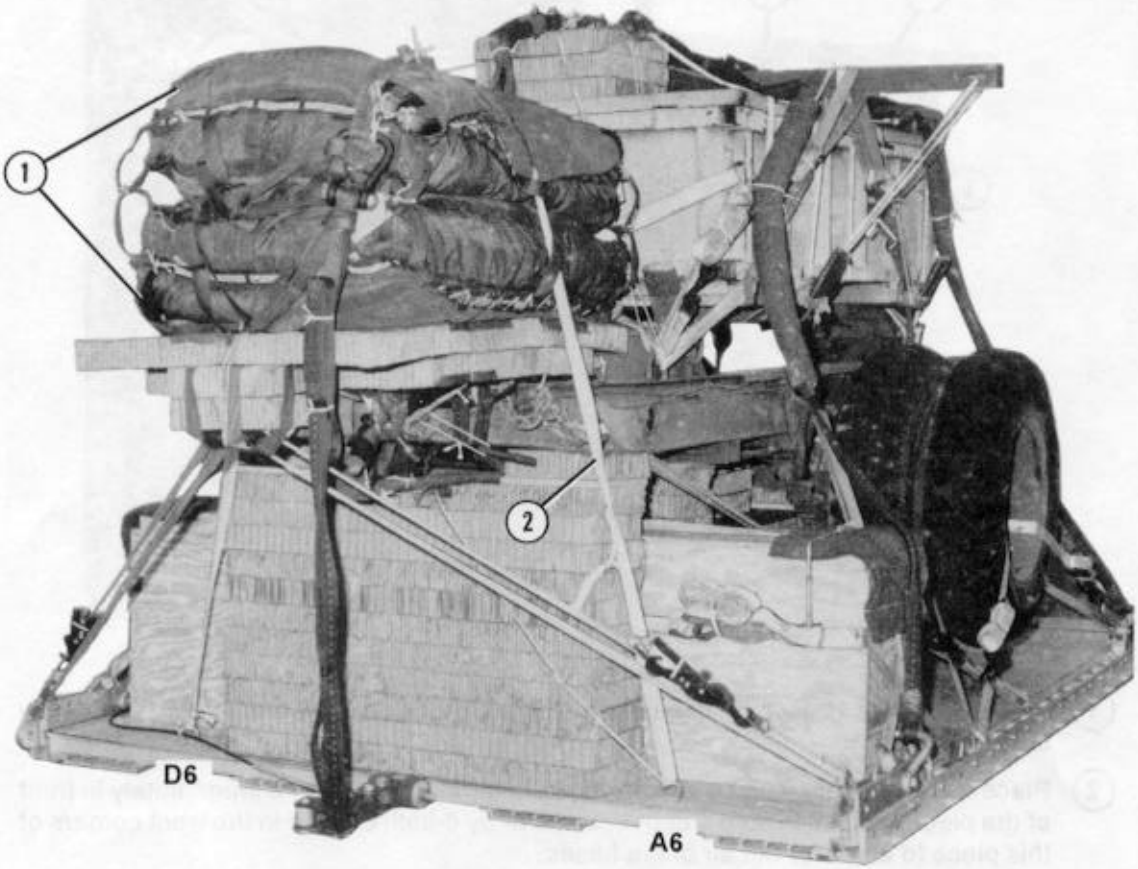
(4) Tie the honeycomb to the trailer frame in a side-to-side direction with two lengths of type III nylon cord. Tie the honeycomb to the trailer frame in a front-to-rear direction with a length of type III nylon cord.

(5) Secure honeycomb stack 5 in place with a length of type III nylon cord tied between the upper lashing on the rocket box and tie-down ring A6.

Figure 5-14. Parachute stowage platform built and installed

5-10. Stowing Cargo Parachutes

Stow two G-11 cargo parachutes on the parachute stowage platform according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 5-15.



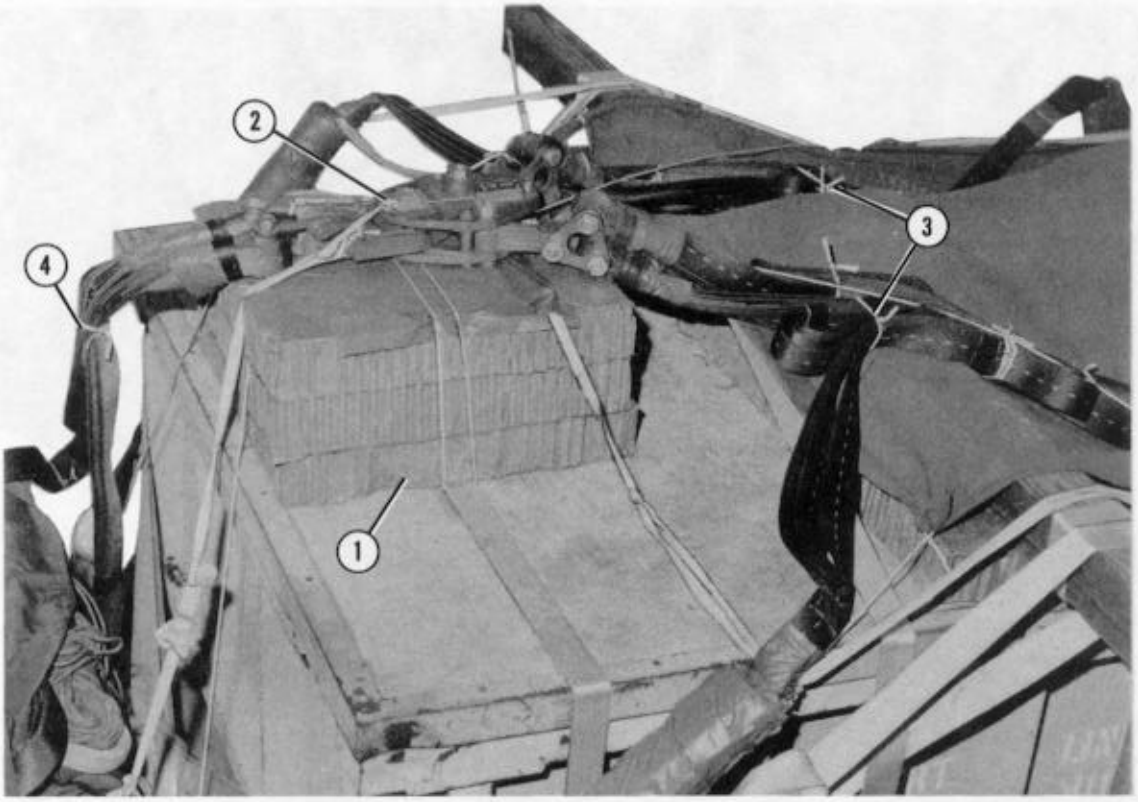
(1) Prepare and install two G-11 cargo parachutes according to FM 10-500-2/TO 13C7-1-5.

(2) Pass the type VIII nylon restraint strap through the bag carrying handles and tie the strap to tie-down rings A6 and D6.

Figure 5-15. Cargo parachutes stowed

5-11. Installing Release Assembly

Prepare, install, and safety an M-1 cargo parachute release assembly according to FM 10-500-2/TO 13C7-1-5, and as shown in Figure 5-16.



(1) Center a stack of three 18- by 18-inch pieces of honeycomb over the rear lashing on top of the MICLIC box. Tape the rear section of the deadman's tie to the honeycomb. Tie the honeycomb to the lashing with type III nylon cord.

(2) Install and safety the M-1 release according to FM 10-500-2/TO 13C7-1-5.

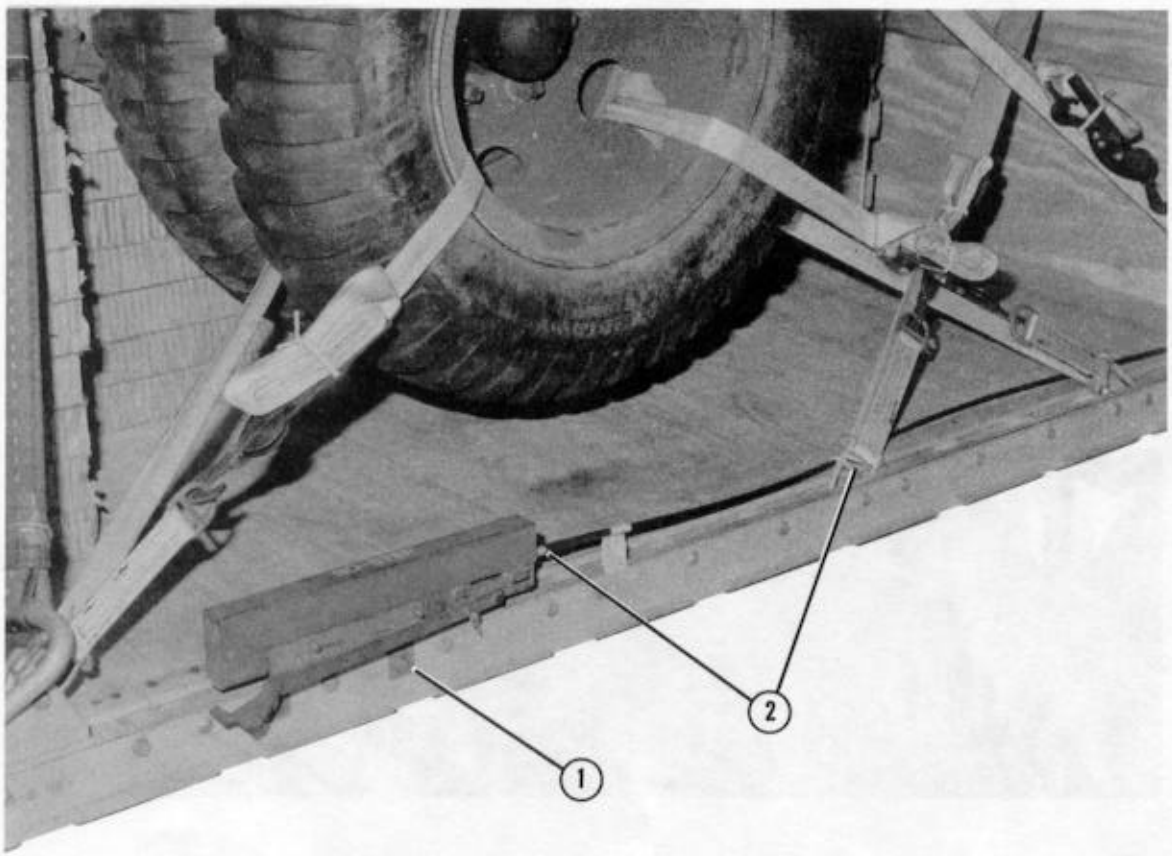
(3) Fold the suspension slings and tie the folds with type I, 1/4-inch cotton webbing.

(4) Tie the riser extensions together with a length of type I, 1/4-inch cotton webbing.

Figure 5-16. M-1 release installed

5-12. Installing Extraction System

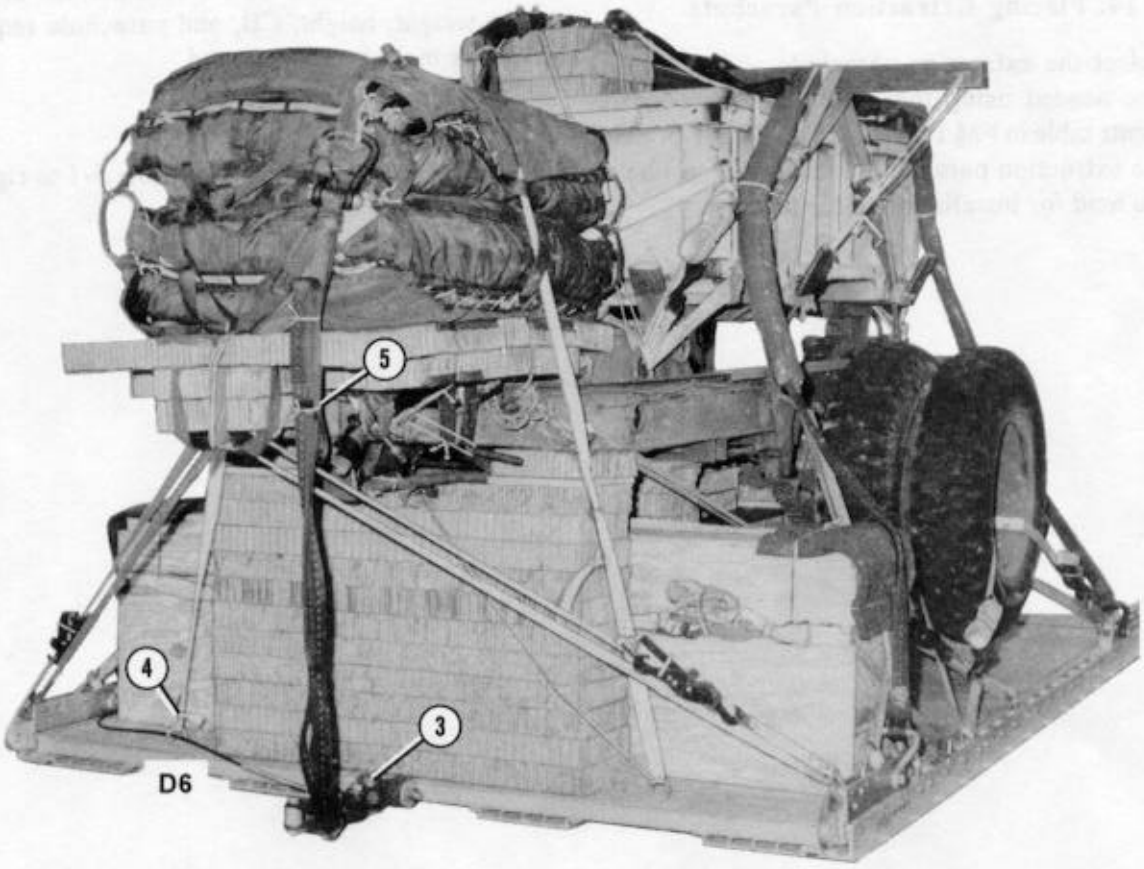
Install the EFTC extraction system according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 5-17.



(1) Attach the EFTA mounting brackets to the front mounting holes in the left platform rail.

(2) Attach a 12-foot cable to the actuator. Install the actuator to the mounting brackets. Secure the cable to the clevises using type I, 1/4-inch cotton webbing.

Figure 5-17. EFTC installed



(3) Install the latch assembly to the extraction bracket. Attach the release cable to the latch assembly.

(4) Tie the release cable to tie-down ring D6 with type I, 1/4-inch cotton webbing.

(5) Install a 9-foot (2-loop), type XXVI nylon webbing deployment line to the load. Fold the excess deployment line, and secure the folds with type I, 1/4-inch cotton webbing.

Figure 5-17. EFTC installed (continued)

5-13. Installing Provisions for Emergency Restraints

Install the provisions for the emergency restraints on the load according to FM 10-500-2/TO 13C7-1-5.

5-14. Placing Extraction Parachute

Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 10-500-2/TO 13C7-1-5. Place the extraction parachute and extraction line on the load for installation in the aircraft.

5-15. Marking Rigged Load

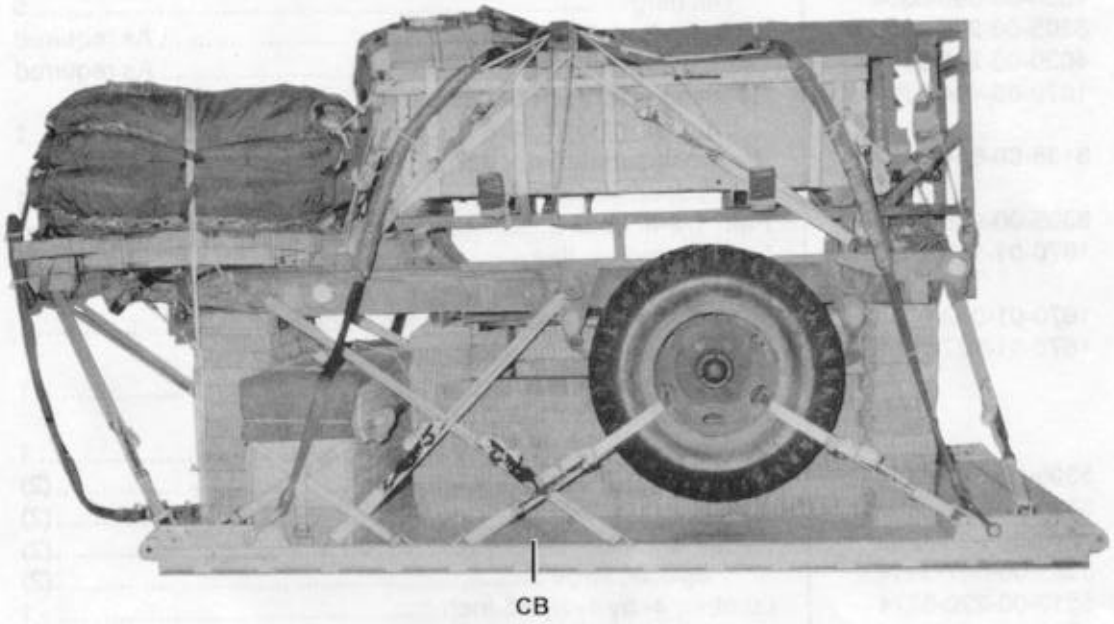
Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 5-18. Complete Shipper's Declaration for Dangerous Goods. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

5-16. Equipment Required

Use the equipment listed in Table 5-1 to rig this load.

CAUTION

Make the final rigger inspection required by FM 10-500-2/TO13C7-1-5 before the load leaves the rigging site.



RIGGED LOAD DATA

Weight: Load shown	8,400 pounds
Maximum load allowed	8,600 pounds
Height	94 1/2 inches
Width	108 inches
Length	178 inches
Overhang: Front	0 inches
Rear	34 inches
CB (from front edge of platform)	77 inches

Figure 5-18. MICLIC on 2 1/2-ton trailer rigged on a type V platform for low-velocity airdrop

Table 5-1. Equipment required for rigging MICLIC on 2 1/2-ton trailer on a type V platform for low-velocity airdrop

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste,1-gal	As required
	Clevis, suspension:	
4030-00-678-8562	3/4-in (medium)	4
4030-00-090-5354	1-in (large)	5
8305-00-242-3593	Cloth, cotton duck	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5783	Coupling, airdrop, extraction force transfer w 12-ft cable	1
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
8305-00-958-3685	Felt, 1/2-in thick	As required
1670-01-183-2678	Leaf, extraction line	2
	Line, extraction:	
1670-01-062-6313	60-ft (3-loop), type XXVI nylon webbing	1
1670-01-107-7651	140-ft (3-loop), type XXVI nylon webbing (use w C-141 aircraft.)	1
	Link assembly:	
	Two-point:	1
5306-00-435-8994	Bolt, 1-in diam, 4-in long	(2)
5310-00-232-5165	Nut, 1-in, hexagon	(2)
1670-00-003-1953	Plate, side, 3 3/4-in	(2)
5365-00-007-3414	Spacer, large	(2)
5510-00-220-6274	Lumber, 4- by 4- by 96-inch	1
1670-00-753-3928	Pad, energy-dissipating, honeycomb, 3- by 36- by 96-in:	16 sheets
	Parachute:	
1670-01-016-7841	Cargo, G-11B	2
	Cargo extraction:	
1670-00-687-5458	22-ft	1
	Platform, AD, type V, 12-ft:	1
	Bracket:	
1670-01-162-2375	Inside EFTA	(1)
1670-01-162-2374	Outside EFTA	(1)
1670-01-162-2372	Clevis assembly	(18)
1670-01-162-2376	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link	(4)
5530-00-128-4981	Plywood, 3/4-in:	3 sheets
	11 1/2- by 12-in	(2)
	16- by 15-in	(1)
	24- by 10-in	(2)
	34- by 8-in	(1)
	36- by 12-in	(1)

Table 5-1. Equipment required for rigging MICLIC on 2 1/2-ton trailer on a type V platform for low-velocity airdrop (continued)

National Stock Number	Item	Quantity
	36- by 16-in	(1)
	36- by 25-in	(1)
	96- by 24-in	(2)
1670-01-097-8816	Release, cargo parachute, M-1	1
	Sling, cargo airdrop:	
	For deployment:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For lifting:	
1670-01-062-6303	12-ft (2-loop), type XXVI nylon webbing	4
	For riser extension:	
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	2
	For suspension:	
1670-01-063-7761	16-ft (2-loop), type XXVI nylon webbing	4
1670-00-040-8219	Strap, parachute release, multicut comes w 3 knives	1
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	32
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type I	As required
	Nylon:	
8305-00-082-5752	Tubular, 1/2-in	As required
8305-00-263-3591	Type VIII	As required

GLOSSARY

ACB attitude control bar
AD airdrop
AFB Air Force base
AFJMAN Air Force joint manual
AFM Air Force manual
AFR Air Force regulation
AFTO Air Force technical order
ALC Air Logistics Center
attn attention
C change
CB center of balance
d penny
DA Department of the Army
DC District of Columbia
DoD Department of Defense
diam diameter
EFTA extraction force transfer actuator
EFTC extraction force transfer coupling
FM field manual
ft foot/feet
gal gallon
HQ headquarters
in inch
LAPE low-altitude parachute-extraction
LAPES low-altitude parachute-extraction system
lb pound
MICLIC mine-clearing line charge
no number
PEFTC extraction force transfer coupling (platform)
rel release
SL/CS static line/connector strap
TM technical manual
TO technical order
TRADOC United States Army Training and Doctrine Command
US United States
w with
yd yard

REFERENCES

These documents must be available to the intended users of this publication.

AFR 55-40/AR 59-4. *Joint Airdrop Inspection Records, Malfunction Investigations and Activity Reporting.* 27 November 1984.

*AFJMAN 24-204/TM 38-250. *Packing and Materials Handling: Preparing Hazardous Materials for Military Air Shipments.* 25 November 1994.

FM 10-500-2/TO 13C7-1-5. *Airdrop of Supplies and Equipment: Rigging Airdrop Platforms.* 1 November 1990.

**FM 10-500-53/MCRP 4-3.8/TO 13C7-18-41. *Airdrop of Supplies and Equipment: Rigging Ammunition.* 1 March 1996.

TM 10-1670-208-20&P/TO 13C3-4-12. *Organizational Maintenance Manual Including Repair Parts and Special Tools List for Platforms, Type II Modular and LAPES/Airdrop Modular.* 10 August 1978.

TM 10-1670-268-20&P/TO 13C7-52-22. *Organizational Maintenance Manual With Repair Parts and Special Tools List: Type V Airdrop Platform.* 1 June 1986.

TM 10-1670-277-23&P/TO 13C5-28-2/NAVAIR 13-1-30. *Unit and Intermediate DS Maintenance Manual Including Repair Parts and Special Tools List for Parachute, 28-foot Diam, Extraction.* 9 October 1990.

TM 10-1670-278-23&P/TO 13C5-26-2/NAVAIR 13-1-27/TM 01109C-23&P/1. *Unit and Intermediate DS Maintenance Manual Including Repair Parts and Special Tools List for Parachute, Cargo Type, 15-ft Diam, Cargo Extraction.* 30 August 1989.

TM 10-1670-279-23&P/TO 13C5-27-2/NAVAIR 13-1-28. *Unit and Intermediate DS Maintenance Manual Including Repair Parts and Special Tools List for Parachute, Cargo Type, 22-ft Diam, Cargo Extraction.* 30 August 1989.

TM 10-1670-280-23&P/TO 13C5-31-2/NAVAIR 13-1-31. *Unit and Intermediate DS Maintenance Manual Including Repair Parts and Special Tools List for Parachute, Cargo Type, G-11A, G-11B, and G-11C.* 7 August 1991.

---

*AFJMAN 24-204/TM 38-250 has superseded AFR 71-4/TM 38-250 (15 January 1988). Change 2 reflects this change. The basic manual still references the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.

**FM 10-500-53/MCRP 4-3.8/TO 13C7-18-41/ has superseded FM 10-553/TO 13C7-18-41 (4 December 1981). Change 2 reflects this change. The basic manual still references the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.

AFTO Form 22. *Technical Order Publication Improvement Report.* April 1973

DA Form 2028. *Recommended Changes to Publication and Blank Forms.* February 1974.

***Shipper's Declaration for Dangerous Goods. Locally procured form.

*** Shipper's Declaration for Dangerous Goods has superseded DD Form 1387-2 (February 1982.) Change 2 reflects this change. The basic manual still references the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.

PIN: 059964-002

☆ GOVERNMENT PRINTING OFFICE: 1997-527-027 / 60069