ARMY FM 10-532
AIR FORCE TO 13C7-3-361

AIRDROP OF SUPPLIES AND EQUIPMENT

RIGGING 1 1/2-TON TRAILERS

DEPARTMENTS OF THE ARMY AND THE AIR FORCE

CHANGE 4

HEADQUARTERS
DEPARTMENT OF THE ARMY
DEPARTMENT OF THE AIR FORCE
Washington, DC, 28 June 1996

AIRDROP OF SUPPLIES AND EQUIPMENT
RIGGING 1 1/2-TON TRAILERS

This change adds the procedures for rigging the 400-gallon water trailer on a type V platform for low-velocity airdrop. Also with this change, the distribution restriction statement and destruction notice shown below apply to the basic manual and Changes 1, 2 and 3.

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AIRDROP OF SUPPLIES AND EQUIPMENT
RIGGING 1 1/2-TON TRAILERS

This change adds the procedures for rigging the 1 1/2-ton trailer on a type V platform for low-velocity and LAPE airdrops. Also with this change, the distribution restriction statement and destruction notice shown below must be added to the basic manual and Changes 1 and 2.

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AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING 1 1/2-TON TRAILERS

This change adds the procedures for rigging the 1 1/2-ton cargo trailer for airdrop by LAPE.

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CHANGE
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AIRDROP OF SUPPLIES AND EQUIPMENT

RIGGING 1 1/2-TON TRAILERS

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3-11 through 3-14	3-11 through 3-15
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AIRDROP OF SUPPLIES AND EQUIPMENT:
RIGGING 1 1/2-TON TRAILERS

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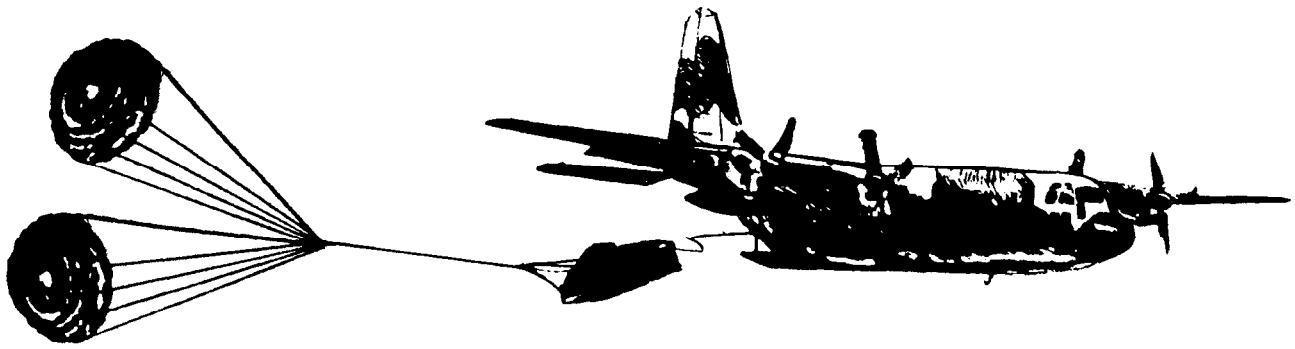

CHAPTER 1

INTRODUCTION

1-1. Scope

This manual tells and shows how to prepare and rig the 1 1/2-ton trailer for low-velocity airdrop on a type II and type V platform. The trailer may be airdropped with or without an accompanying load on the type II platform. It also tells and shows how to prepare and rig the 1 1/2-ton trailer on the type V platform for LAPE airdrop. The trailer must be airdropped with an accompanying load on the type V platform.

1-2. Special Considerations

CAUTION: Only ammunition authorized by FM 10-553/TO 13C7-18-41 may be airdropped.

a. These loads may include hazardous materials. When included, they must be packaged, marked and labeled in compliance with AFJAM 24-204/ TM 38-250.

b. A copy of this manual must be made available to the joint inspectors during the before-and after-loading inspections.

1-3. Recommended Changes

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions, and suggest ways for improving this manual.

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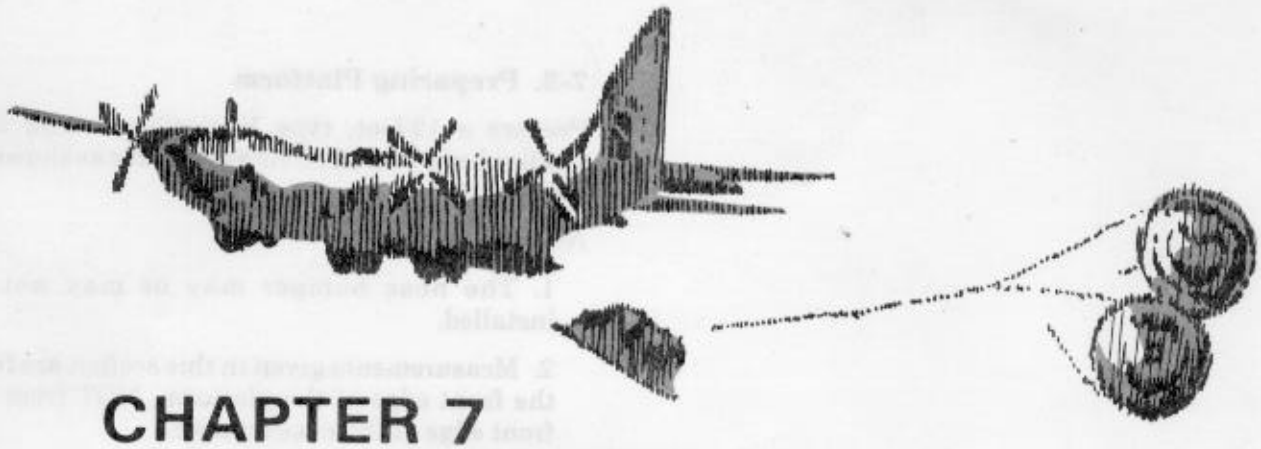


CHAPTER 7

RIGGING 1 1/2-TON TRAILER ON A TYPE V PLATFORM

Section I

LOW-VELOCITY AIRDROP

7-1. Description of Load

The 1 1/2-ton trailer, shown in Figure 7-1, is rigged on a 12-foot, type V platform for low-velocity airdrop. The trailer must be rigged with an accompanying load. The accompanying load must not weigh more than 3,000 pounds. The accompanying load shown in this section consists of 24 ammunition boxes weighing approximately 2,280 pounds. The load shown in this section requires two G-11B cargo parachutes. The trailer weighs 2,650 pounds. It is 166 1/2 inches long and 83 inches wide. Its height is 98 inches, reducible to 55 inches.

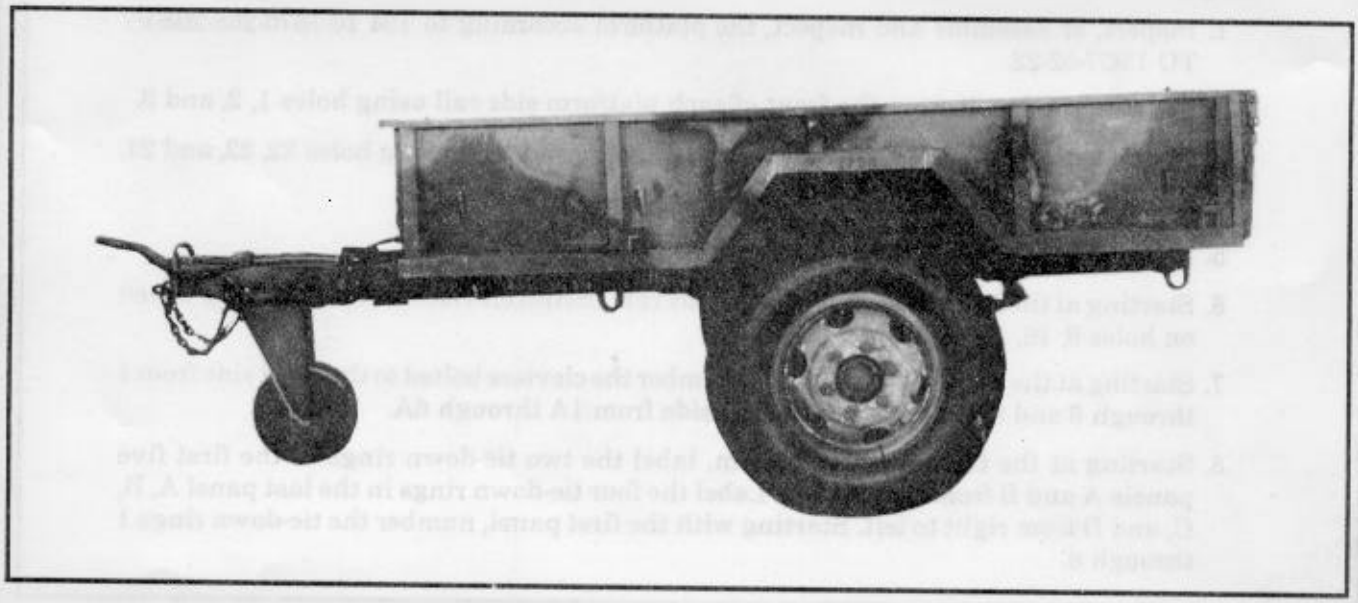


Figure 7-1. Left side of unrigged 1 1/2-ton trailer

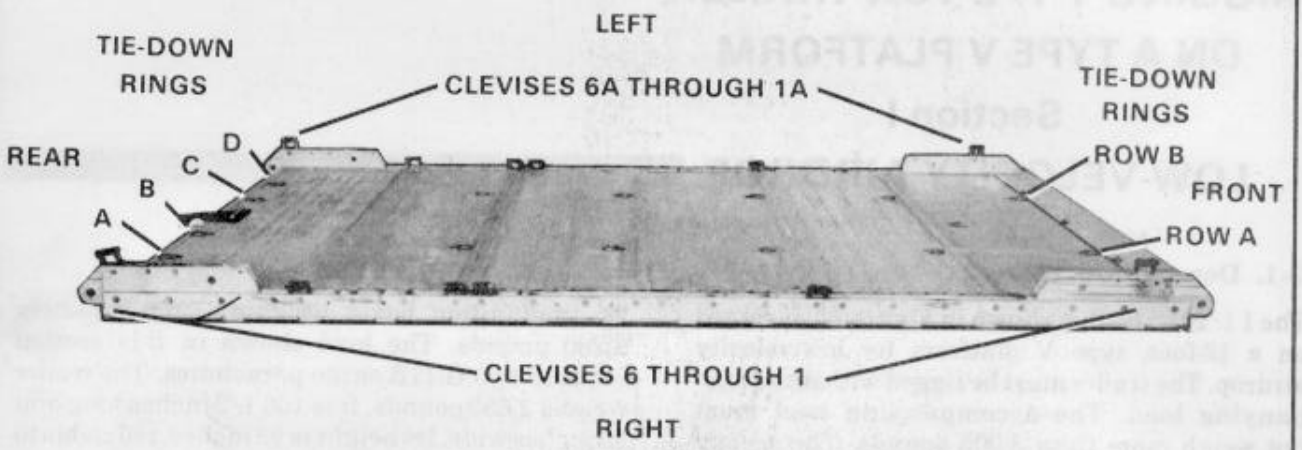
7-2. Preparing Platform

Prepare a 12-foot, type V platform using four tandem links and 12 clevis assemblies as shown in Figure 7-2.

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:

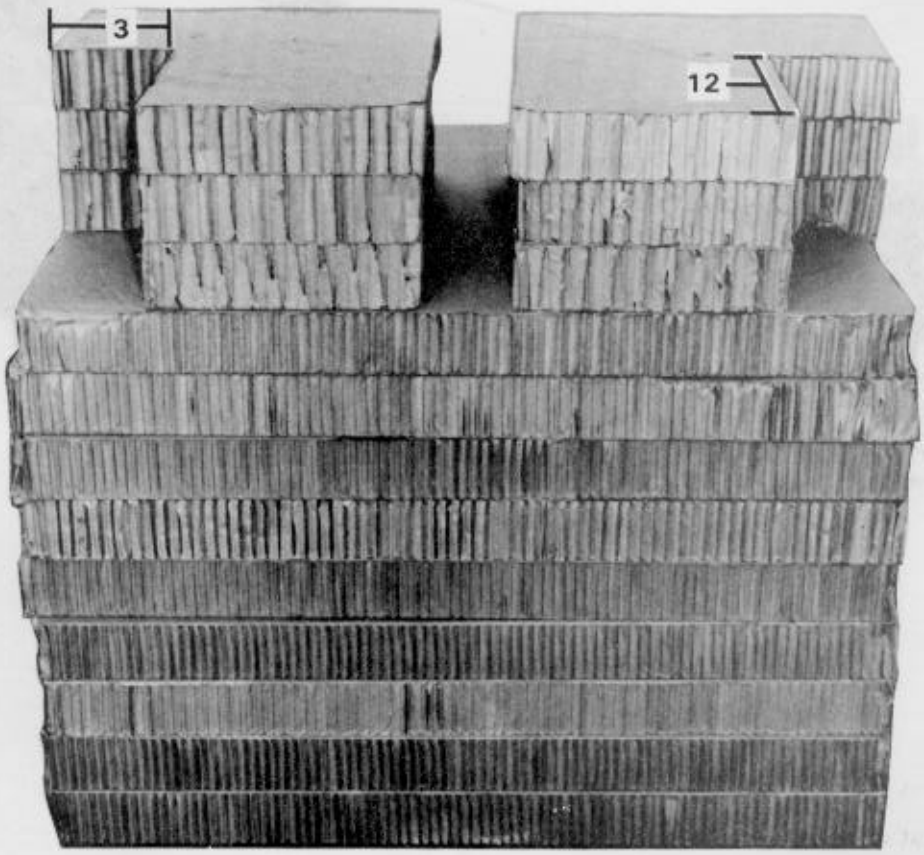
1. Inspect, or assemble and inspect, the platform according to TM 10-1670-268-20&P/TO 13C7-52-22.
2. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
3. Install a tandem link on the rear of each platform side rail using holes 22, 23, and 24.
4. Install a clevis on bushing 2 on each front tandem link.
5. Install a clevis to bushing 4 on each rear tandem link.
6. Starting at the front of each platform side rail, install clevises on the bushings bolted on holes 9, 16, 17, and 20.
7. Starting at the front of the platform, number the clevises bolted to the right side from 1 through 6 and those bolted to the left side from 1A through 6A.
8. 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 7-2. Platform prepared

7-3. Building and Placing Honeycomb Stacks

Build the honeycomb stacks as shown in Figures 7-3, 7-4, and 7-5. Place the honeycomb stacks on the platform as shown in Figure 7-6.

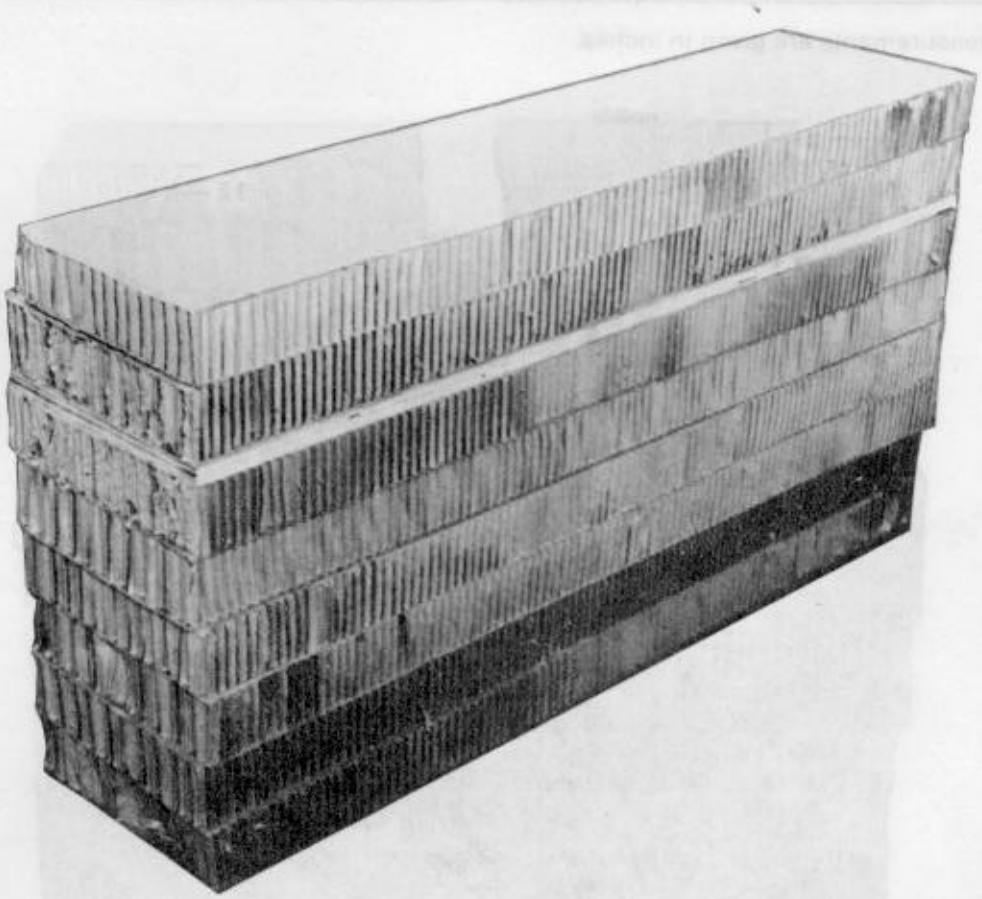
Note: All measurements are given in inches.



FRONT

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	9 6	36 18	40 24	Honeycomb Honeycomb	Form base. Make a 3- by 12-inch cutout on each piece of honeycomb. Place three pieces on each side of the base with the cutout to the front and facing outward on the stack.

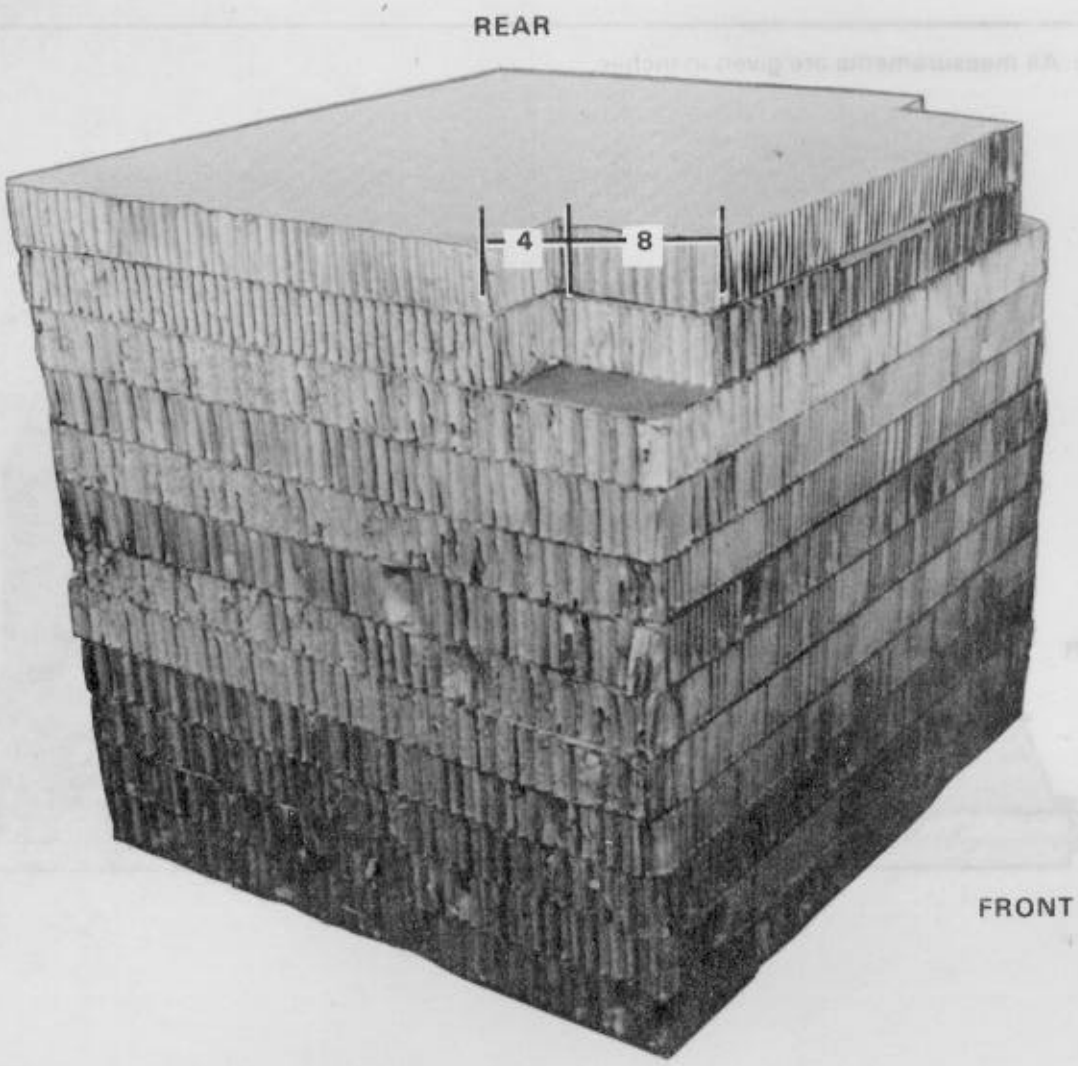
Figure 7-3. Honeycomb stack 1 prepared



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
2	8 1	12 12	48 48	Honeycomb 3/4-inch plywood	Form stack. Place plywood between the 6th and 7th layers.

Figure 7-4. Honeycomb stack 2 prepared

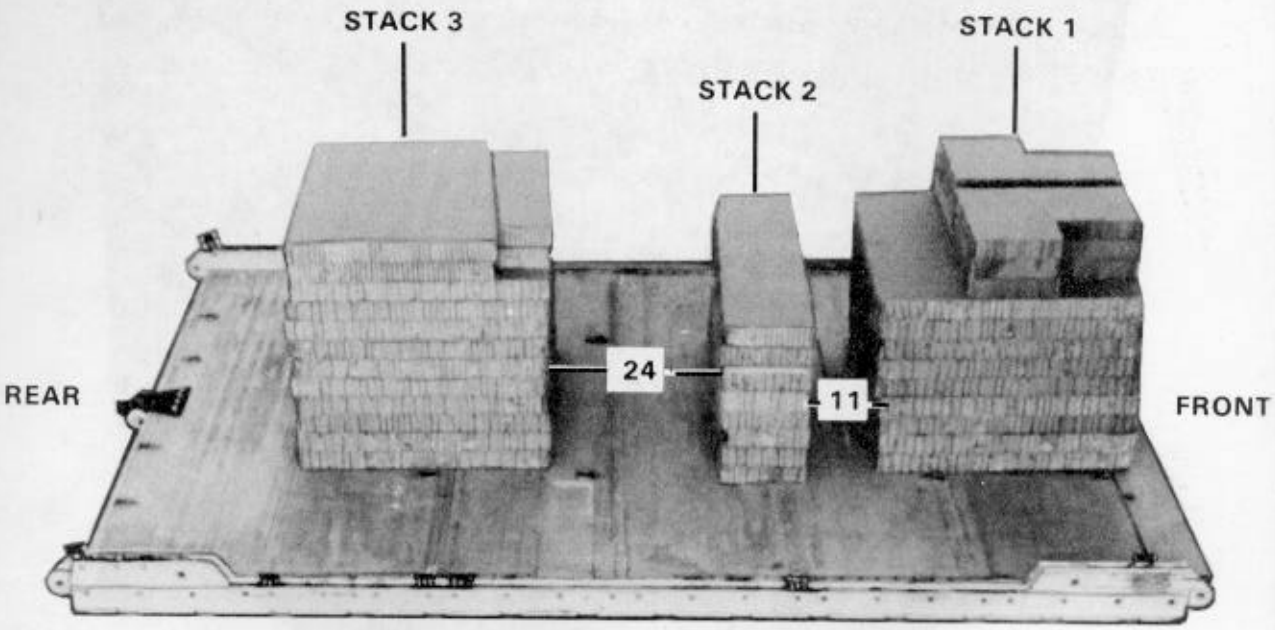
Note: All measurements are given in inches.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
3	12	36	40	Honeycomb	Form stack. Make a 4- by 8-inch cutout on each side to the front of the top two layers.

Figure 7-5. Honeycomb stack 3 prepared

Note: All measurements are given in inches.

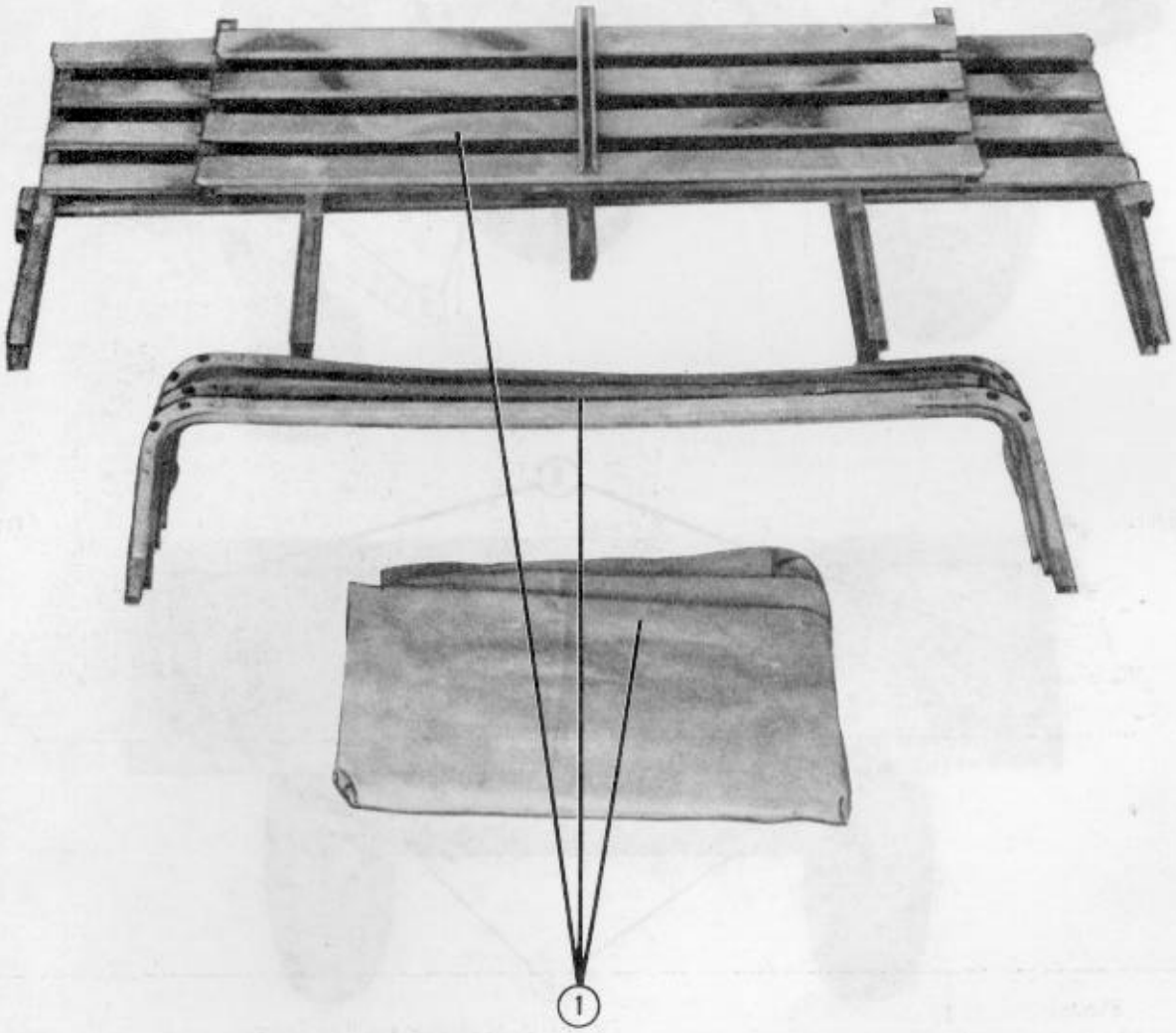


Stack Number	Position of Stack on Platform
	Place stack:
1	Centered, flush with the front edge of the platform.
2	Centered, 11 inches from the rear edge of stack 1.
3	Centered, 24 inches from the rear edge of stack 2.

Figure 7-6. Honeycomb stacks positioned on platform

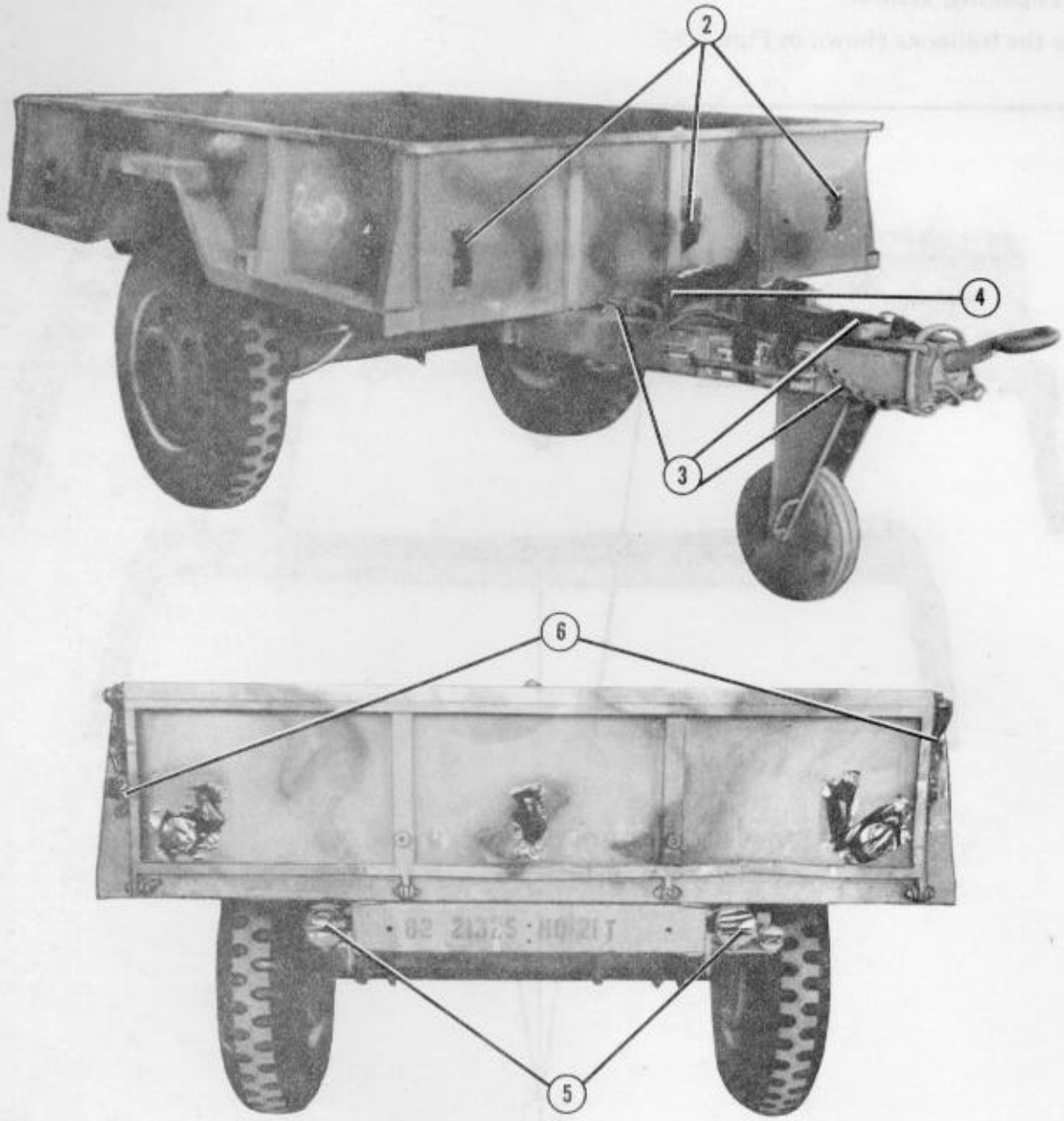
7-4. Preparing Trailer

Prepare the trailer as shown in Figure 7-7.



(1) Remove the rack assembly, bows, and paulin cover.

Figure 7-7. Trailer prepared



(2) Tape the paulin hooks.
(3) Tape the hose, safety chains, and intervehicular cable to the drawbar.
(4) Tape the hand brakes in the locked position using pressure-sensitive tape.
(5) Tape the taillights and reflectors.
(6) Tape the tailgate chains.

Figure 7-7. Trailer prepared (continued)

7-5. Stowing Accompanying Load and Trailer Components

Stow the accompanying load of 24 ammunition boxes in the trailer as shown in Figure 7-8. The accompanying load must not weigh more than 3,000 pounds and must not exceed the height of the trailer body. If the load includes a hazardous material, it must be packaged, marked, and labeled in compliance with AFR 71-4/TM 38-250. The load must comply with the restrictions and meet the requirements outlined in FM 10-500-2/TO 13C7-1-5. The accompanying load shown in these procedures is 2,280 pounds of 105-millimeter ammunition stowed in the trailer.

CAUTION

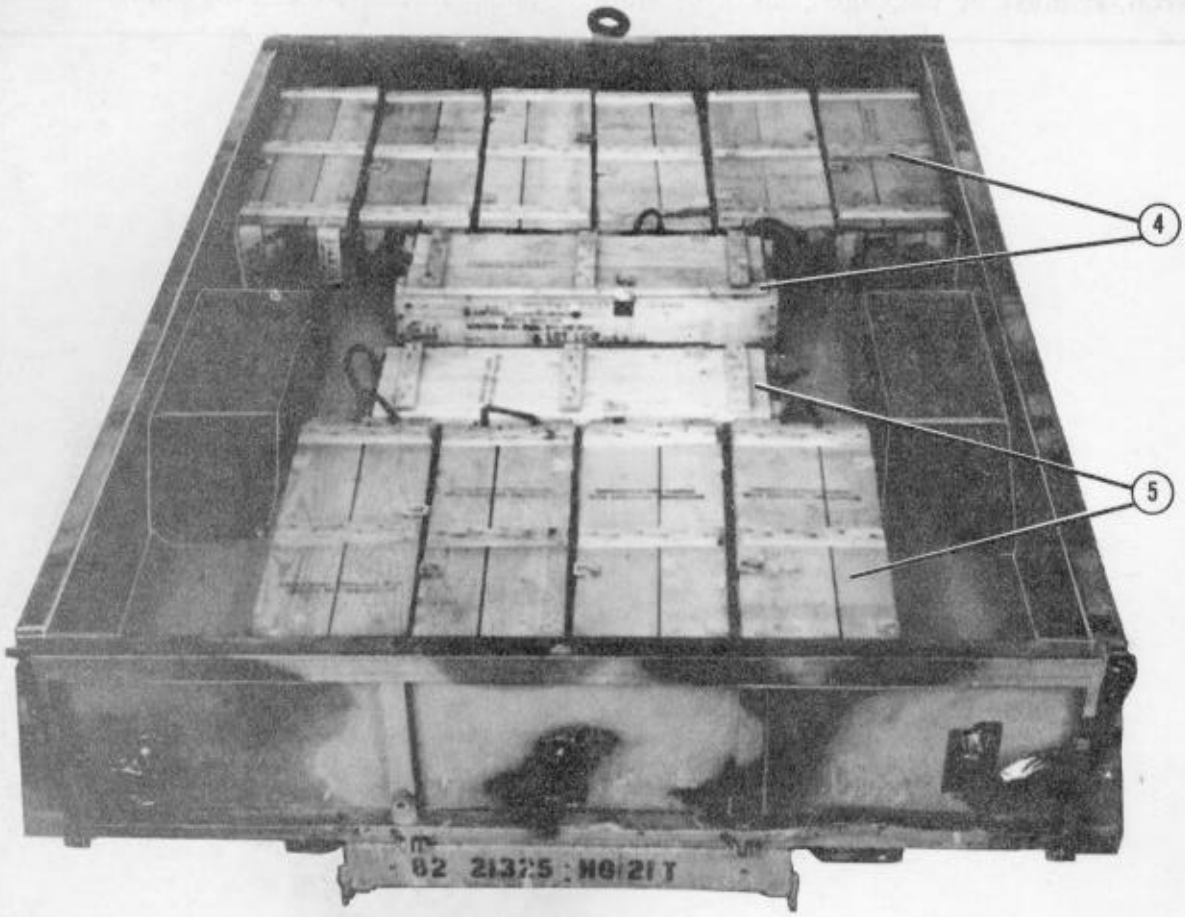
Only ammunition listed in FM 10-553/TO 13C7-18-41 may be airdropped.

(1) Place two 36- by 74-inch pieces of honeycomb in the front of the trailer.

(2) Place two 36- by 54-inch pieces of honeycomb in the center of the trailer.

(3) Make a 9- by 11-inch cutout on each side of two 36- by 74-inch pieces of honeycomb. Place the honeycomb, with the cutouts facing the front of the trailer, in the rear of the trailer.

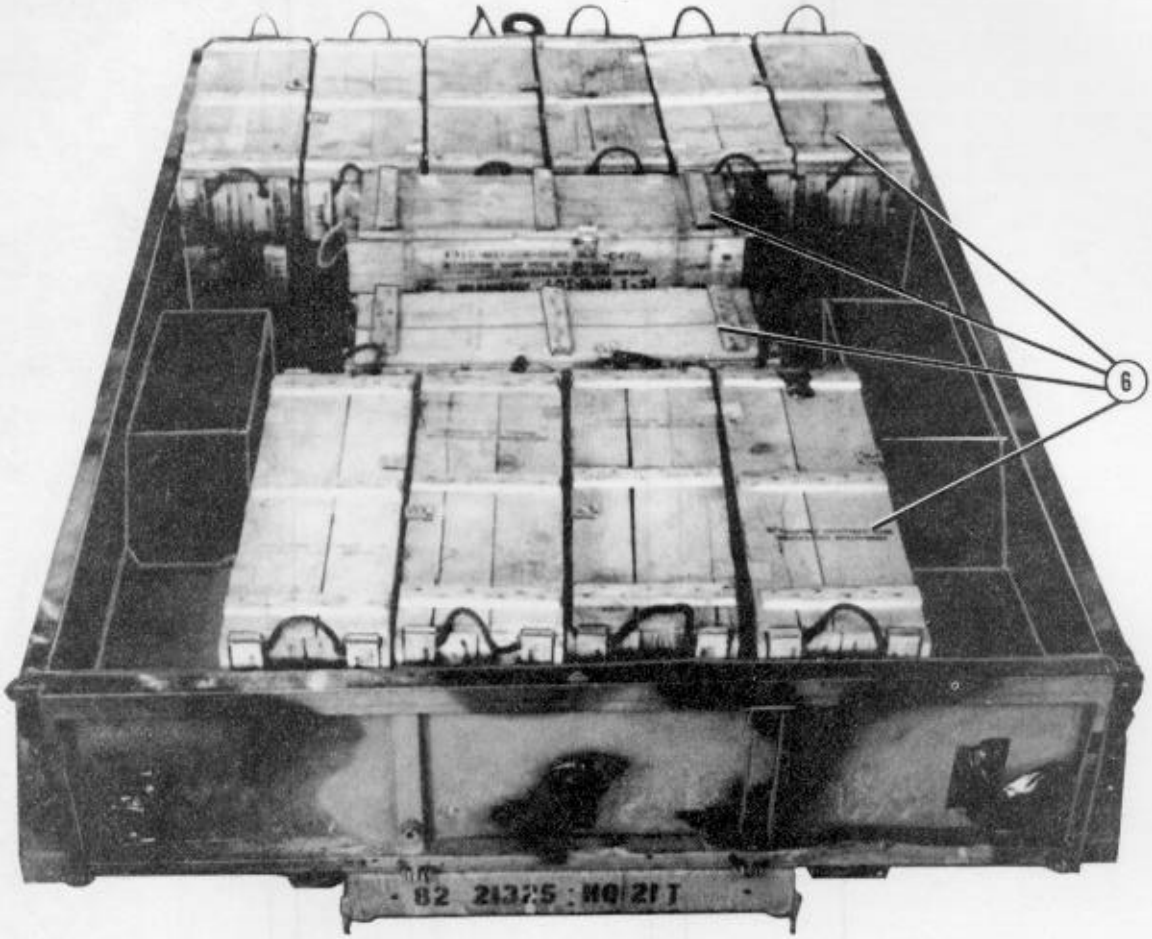
Figure 7-8. Accompanying load and trailer components stowed



(4) Place six boxes of ammunition against the front wall of the trailer. Center a seventh box of ammunition flush against the six ammunition boxes.

(5) Place four boxes of ammunition against the tailgate of the trailer. Center a fifth box of ammunition flush against the four ammunition boxes.

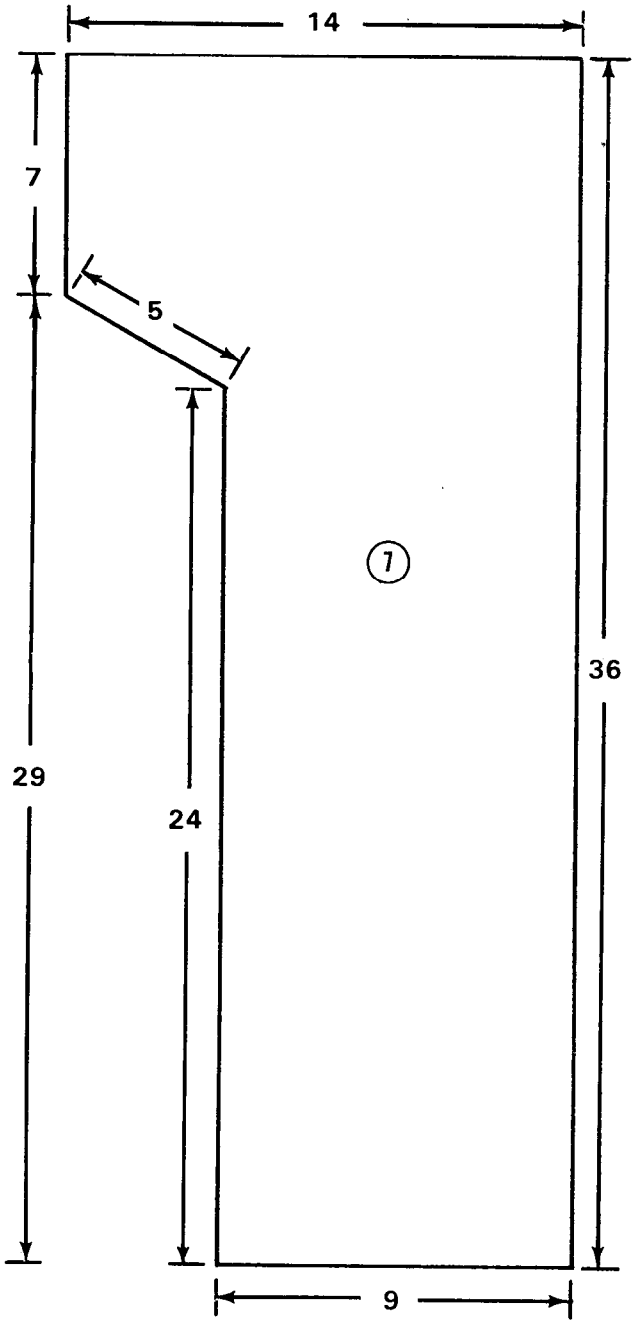
Figure 7-8. Accompanying load and trailer components stowed (continued)



(6) Place 12 additional boxes of ammunition on top of the boxes placed in steps 4 and 5.

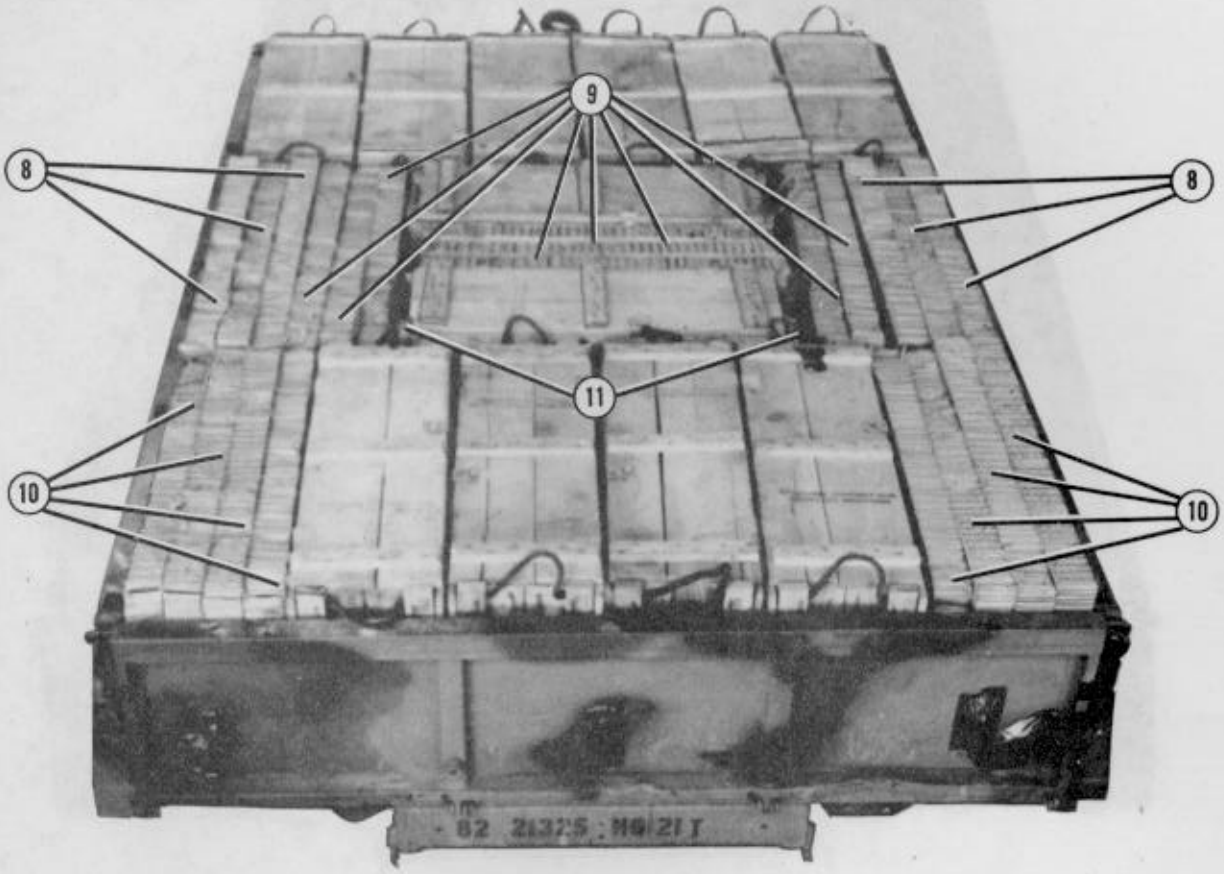
Figure 7-8. Accompanying load and trailer components stowed (continued)

Note: All measurements are given in inches.



(7) Make a 5- by 29-inch cutout as shown in six 14- by 36-inch pieces of honeycomb as shown.

Figure 7-8. Accompanying load and trailer components stowed (continued)



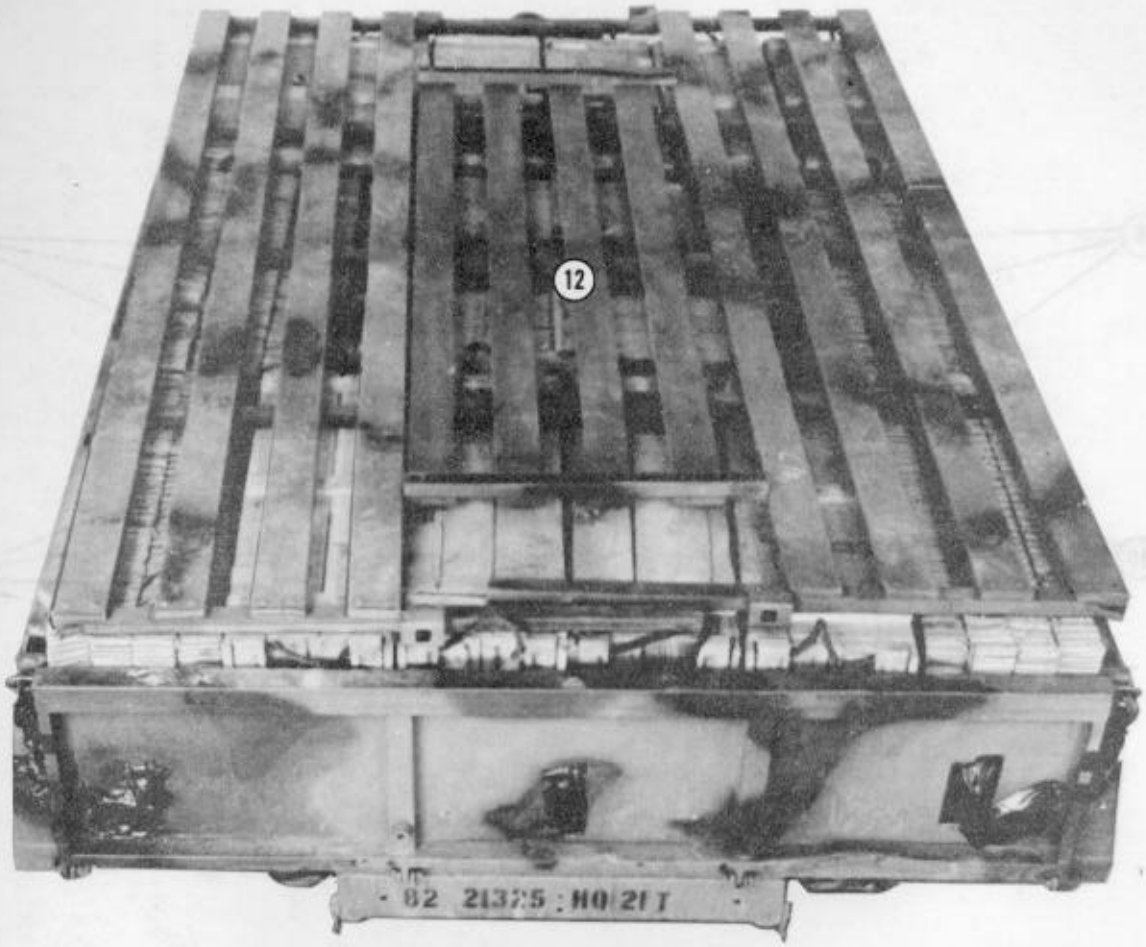
(8) Place three pieces of the honeycomb with the 5- by 29-inch cutouts over each wheel well.

(9) Place eight 36- by 14-inch pieces of honeycomb next to the honeycomb placed in step 8 and the ammunition boxes.

(10) Place four 36- by 14-inch pieces of honeycomb on each side of the rear ammunition boxes.

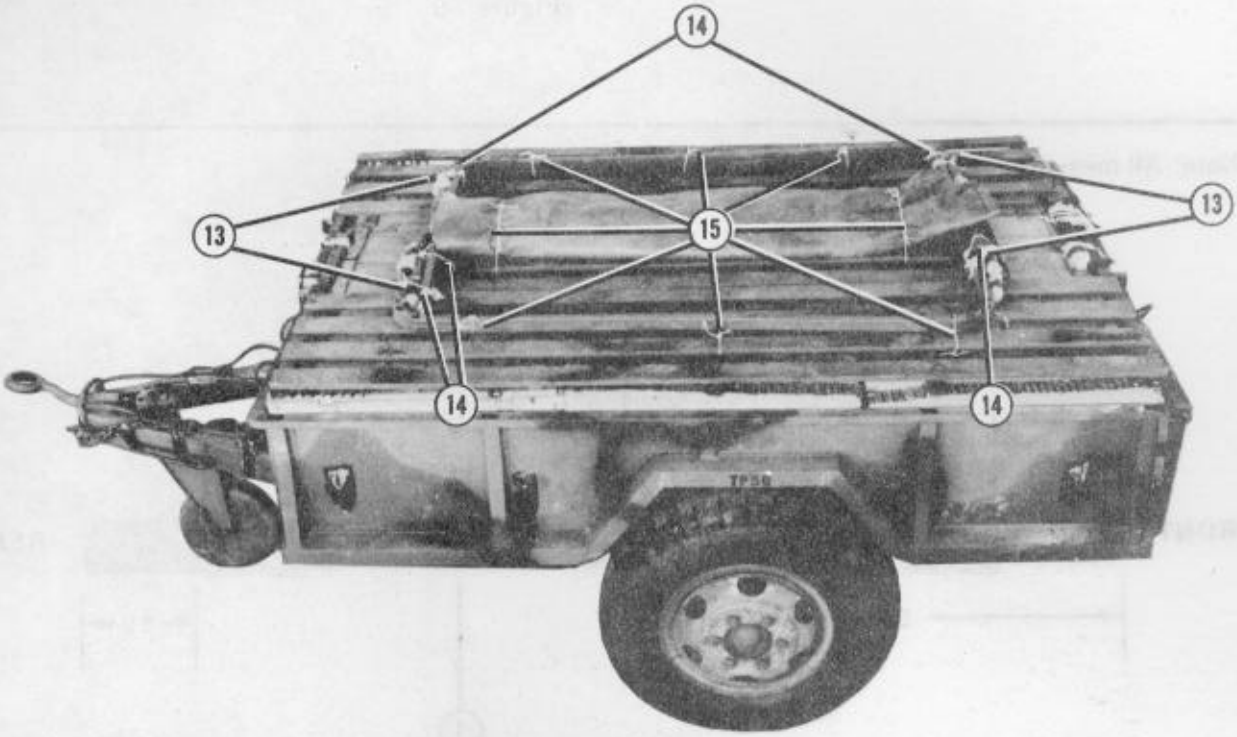
(11) Fill in open areas with honeycomb filler pieces.

Figure 7-8. Accompanying load and trailer components stowed (continued)



(12) Place the rack assembly on top of the ammunition boxes.

Figure 7-8. Accompanying load and trailer components stowed (continued)



(13) Pad all sharp areas of the rack assembly and bows with cellulose wadding. Tape the cellulose wadding in place.

(14) Tie the bows together with type III nylon cord.

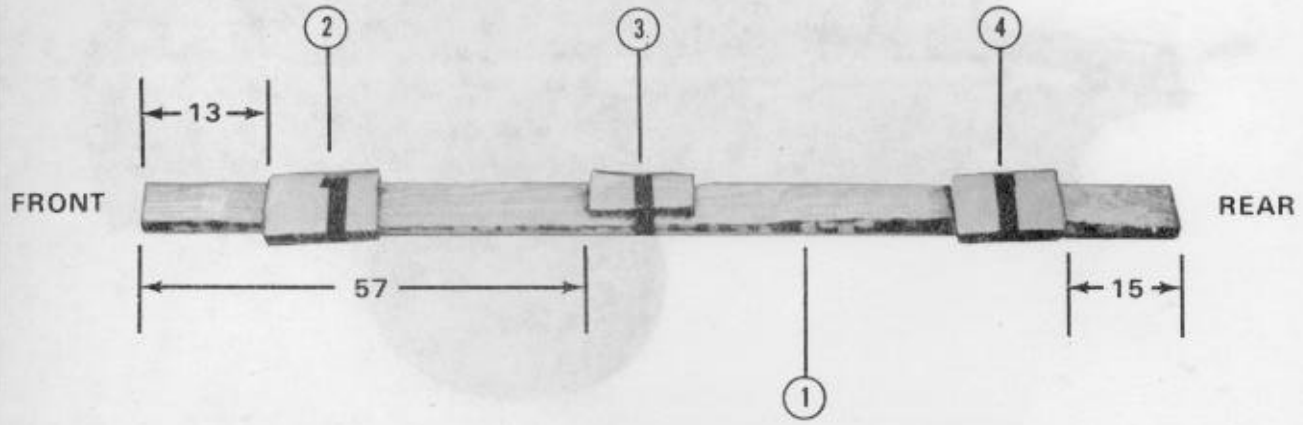
(15) Secure the bows and paulin cover to the rack assembly with type III nylon cord.

Figure 7-8. Accompanying load and trailer components stowed (continued)

7-6. Building Body Protection Boards

Build the body protection boards as shown in Figure 7-9.

Note: All measurements are given in inches.

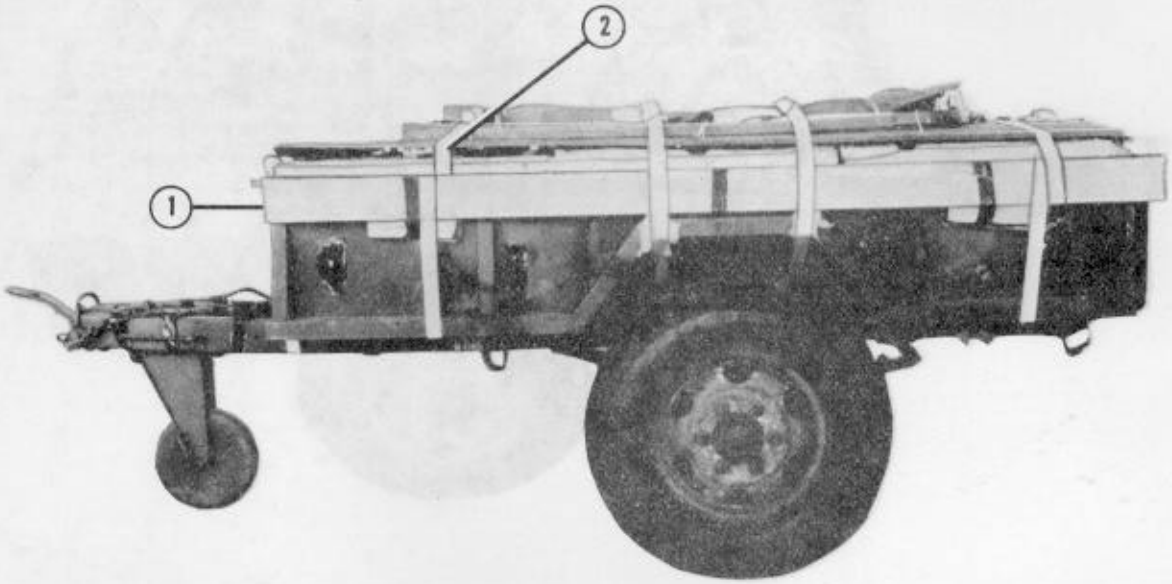


1. Prepare two 2- by 6- by 120-inch pieces of lumber for the body protection boards.
2. Place a 7- by 11-inch piece of honeycomb 13 inches from the front of each board.
3. Place a 4- by 11-inch piece of honeycomb 57 inches from the front of each board.
4. Place a 7- by 11-inch piece of honeycomb 15 inches from the rear of each board.

Figure 7-9. Body protection boards built

7-7. Lashing Body Protection Boards and Accompanying Load to Trailer

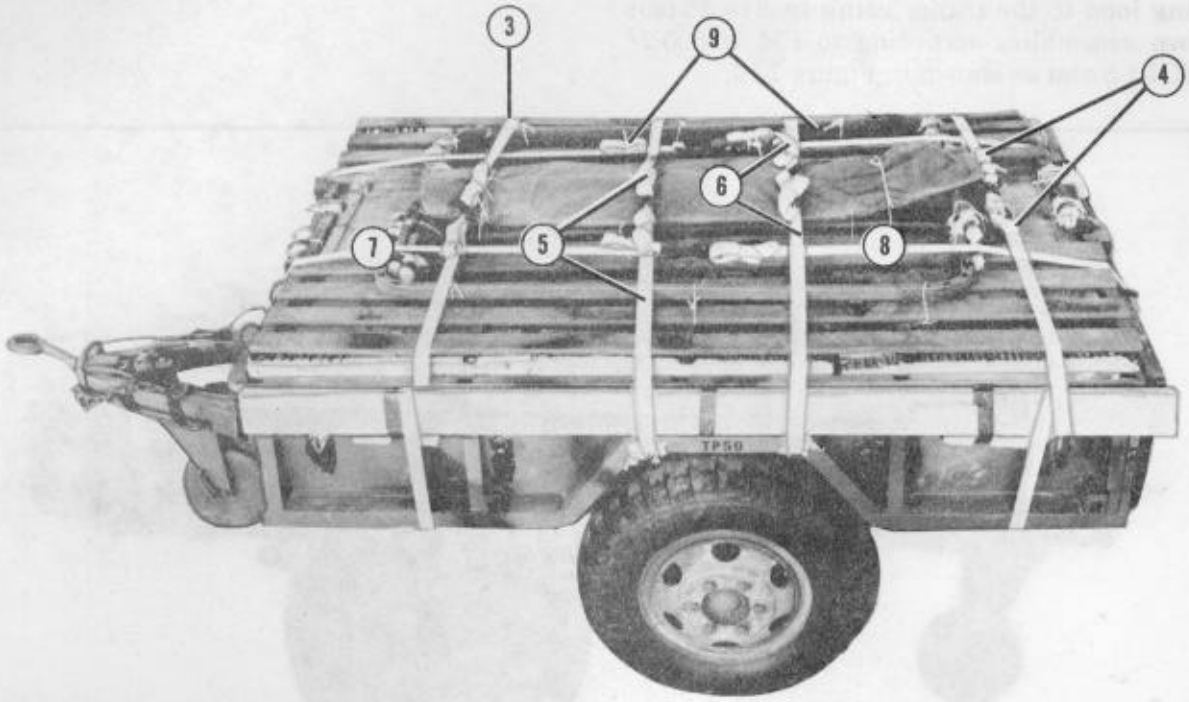
Lash the body protection boards and accompanying load to the trailer using twelve 15-foot tie-down assemblies according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-10.



(1) Place a body protection board on the left side of the trailer.

(2) Pass a 15-foot lashing around the front left frame and through its own D-ring. Pass the free end of the lashing up and around the body protection board once. Pass the free end of the lashing up and over the top of the trailer.

Figure 7-10. Body protection boards and accompanying load lashed to trailer



(3) Repeat steps 1 and 2 for the right side of the trailer. Secure the lashings in steps 2 and 3 with two D-rings and a load binder on top of the load.

(4) Pass a 15-foot lashing around the rear left frame and through its own D-ring. Pass the free end of the lashing up and around the body protection board once. Pass the free end of the lashing up and over the top of the trailer. Repeat step for the right side. Secure the lashings with two D-rings and a load binder.

(5) Repeat step 4 for the front of the wheel well. Do not wrap the lashing around the body protection board.

(6) Repeat step 4 for the rear of the wheel well. Do not wrap the lashing around the body protection board.

(7) Pass a 15-foot tie-down strap around the left drawbar and through its own D-ring. Pass the free end up and over the top of the trailer.

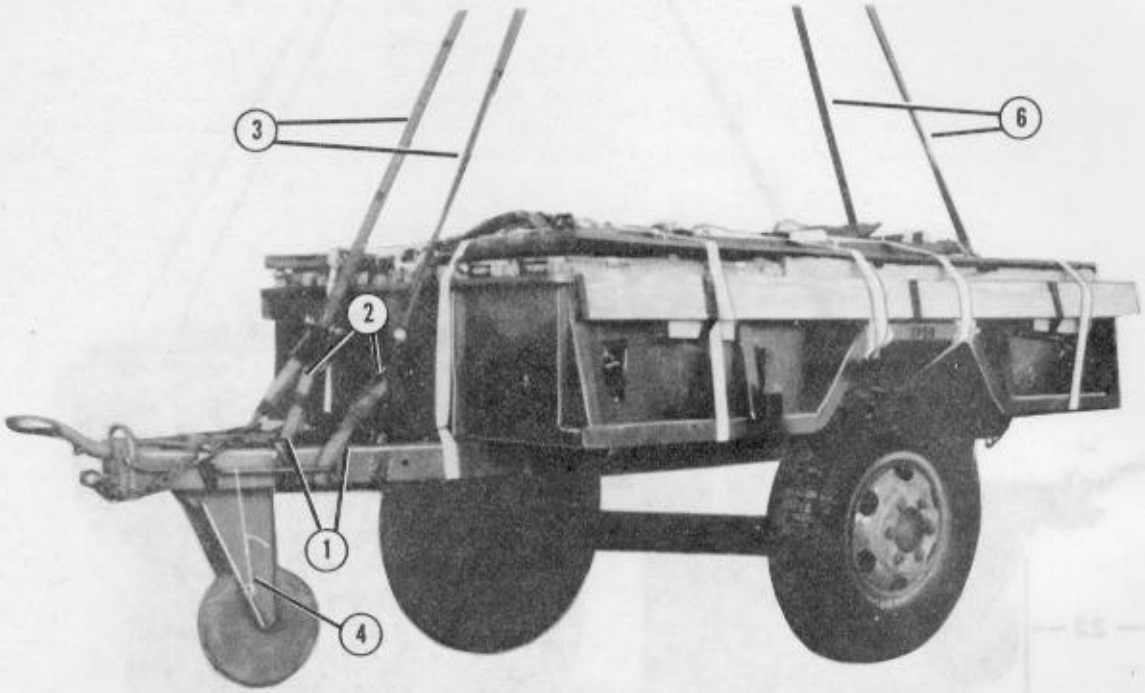
(8) Pass a 15-foot tie-down strap through the left rear tie-down provision and through its own D-ring. Pass the free end up and over the top of the trailer. Secure lashings in steps 7 and 8 with two D-rings and a load binder.

(9) Repeat steps 7 and 8 for the right side of the trailer.

Figure 7-10. Body protection boards and accompanying load lashed to trailer (continued)

7-8. Installing Lifting Slings and Positioning Trailer on Platform

Install the lifting slings using four 3-foot (2-loop), type XXVI nylon slings; two 11-foot (2-loop), type XXVI nylon slings; two 12-foot (2-loop), type XXVI nylon slings; and four large suspension clevises as shown in Figure 7-11. Position the trailer on the platform as shown in Figure 7-12.



(1) Wrap a 3-foot sling around each side of the drawbar. Make sure the slings pass between the drawbar and the lifting handle.

(2) Attach a large suspension clevis through the ends of each 3-foot sling.

(3) Attach an 11-foot sling to each front suspension clevis.

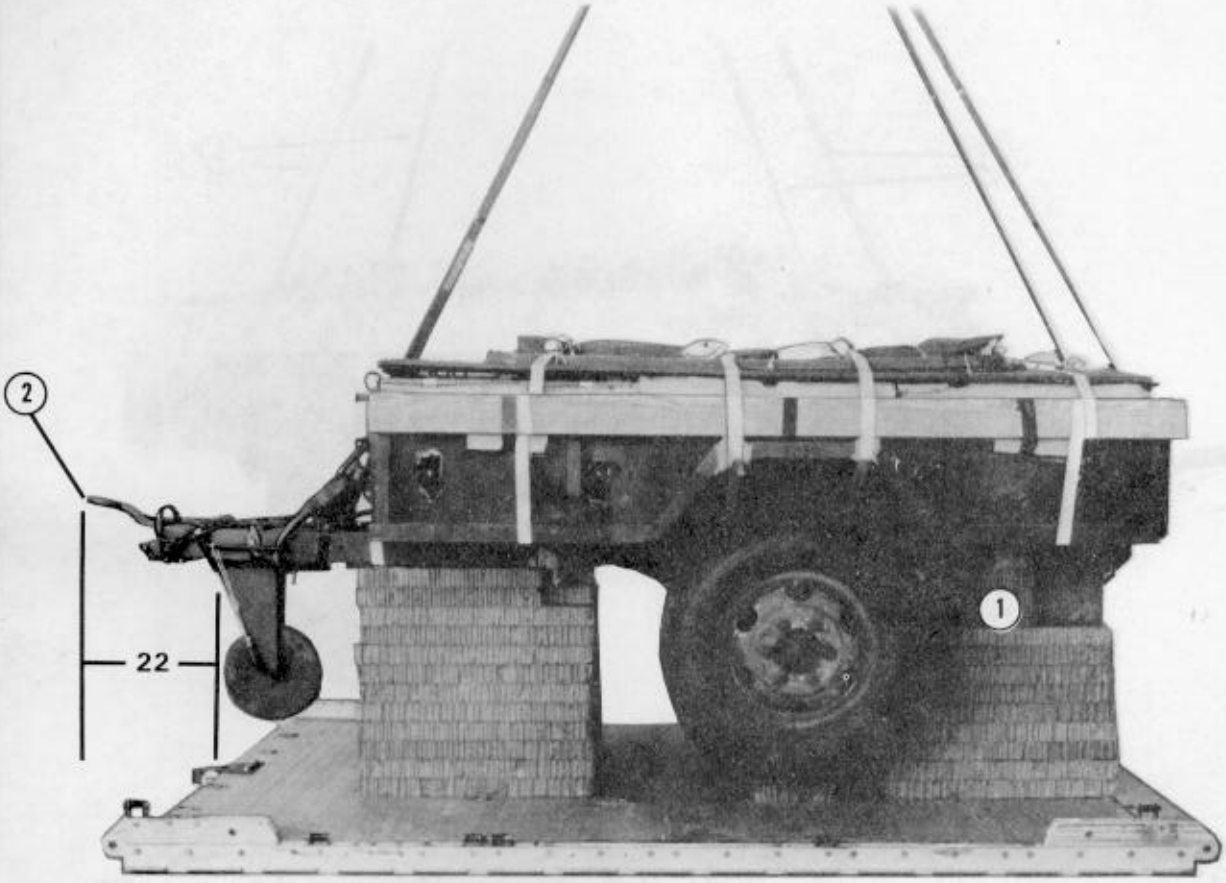
(4) Safely tie the caster wheel to the drawbar lifting handles with type III nylon cord.

(5) Wrap a 3-foot sling around the left frame at the rear of the trailer (not shown). Attach a large suspension clevis through the ends of the sling (not shown). Repeat step for the right side (not shown).

(6) Attach a 12-foot sling to each rear suspension clevis.

Figure 7-11. Lifting slings installed

Note: All measurements are given in inches.



(1) Place the trailer on the honeycomb with the axle centered on honeycomb stack 2 and the rear edge of the trailer flush with the front edge of the platform.

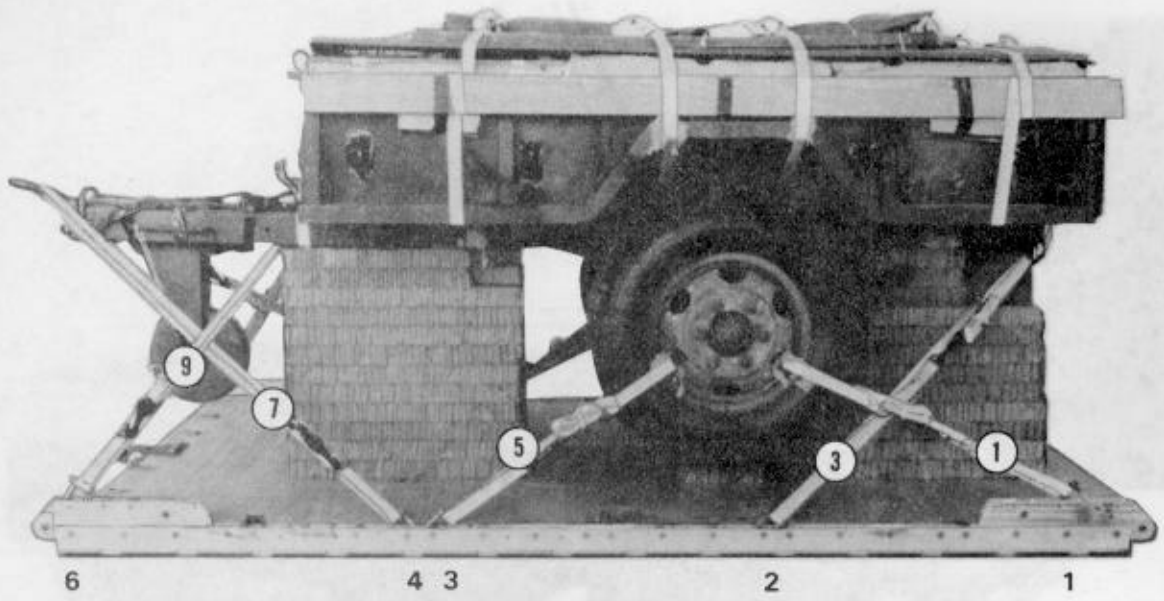
(2) Make sure the front edge of the lunette overhangs the rear of the platform by 22 inches.

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

Figure 7-12. Trailer positioned

7-9. Lashing Trailer

Lash the trailer to the platform using ten 15-foot tie-down assemblies according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-13.



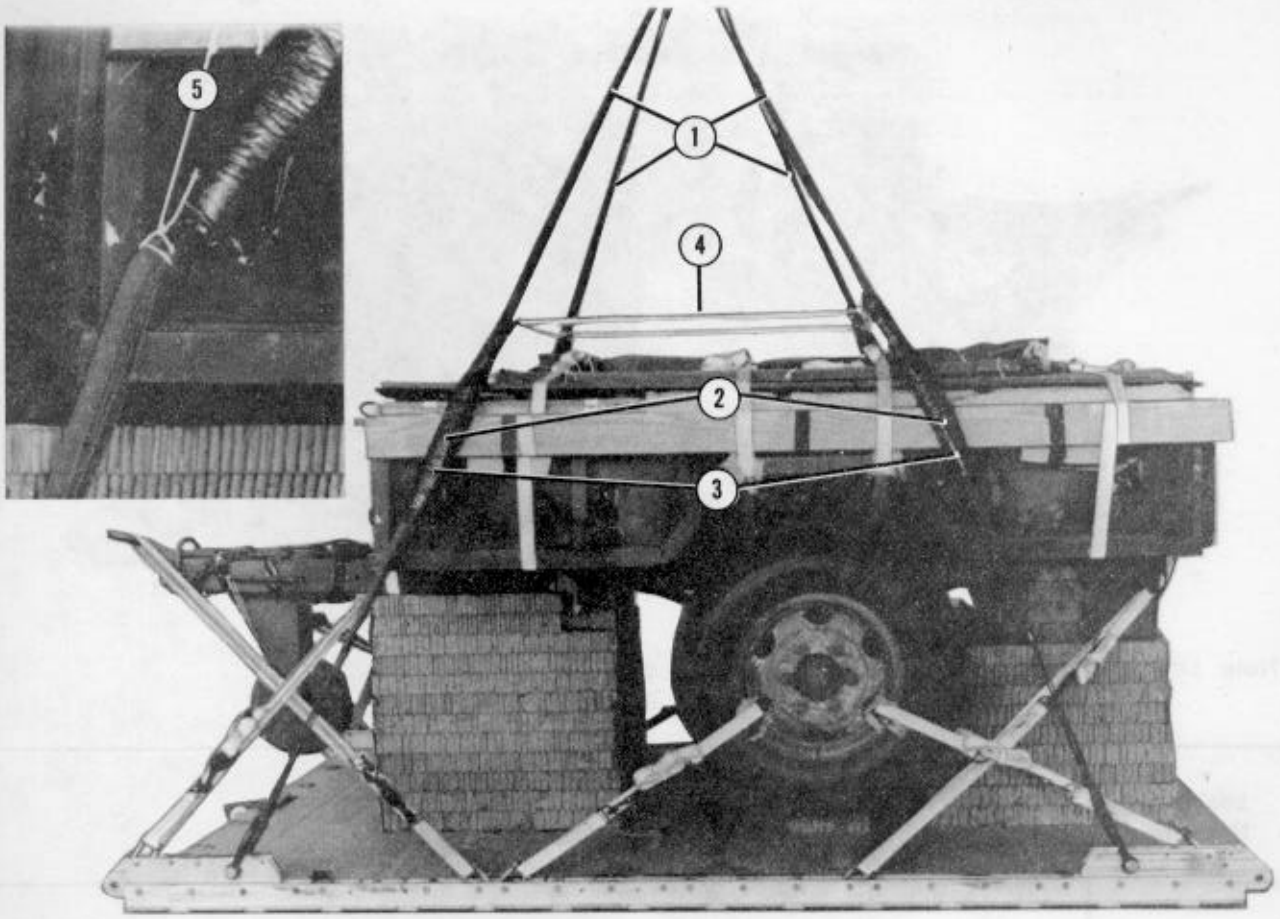
Note: Left, right, rear, and front refer to the trailer, NOT the platform.

Lashing Number	Tie-down Clevis Number	Instructions
		Pass lashing:
1	1	Through left wheel.
2	1A	Through right wheel.
3	2	Through left rear tie-down provision.
4	2A	Through right rear tie-down provision.
5	3	Through left wheel.
6	3A	Through right wheel.
7	4	Through lunette.
8	4A	Through lunette.
9	6	Through left front tie-down provision.
10	6A	Through right front tie-down provision.

Figure 7-13. Lashings 1 through 10 installed

7-10. 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 7-14.



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

(2) Wrap a 10- by 30-inch piece of felt around each sling where it makes contact with the load. Tie the padding in place using type III nylon cord.

(3) Tape the padding using pressure-sensitive tape the full length of the felt, and extend the tape over on the suspension slings 6 inches on each end.

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

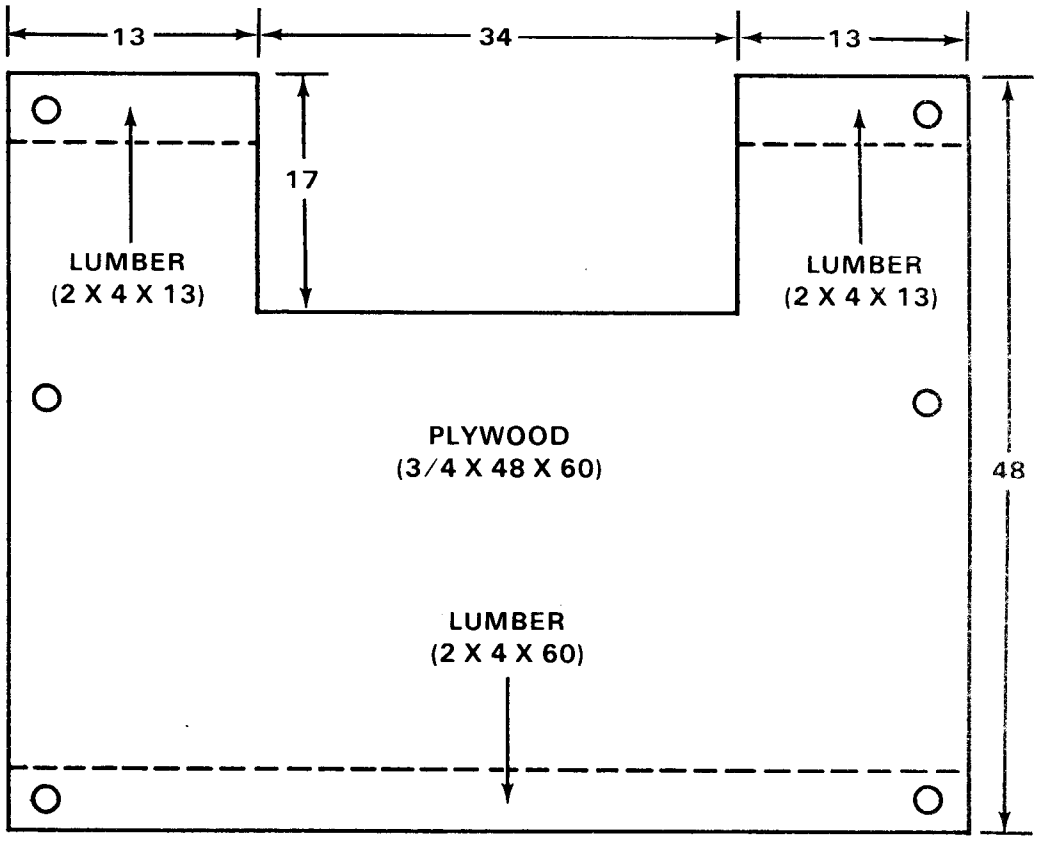
(5) Safety the suspension slings to the body protection boards using type III nylon cord.

Figure 7-14. Suspension slings installed and safetied

7-11. Building and Installing Parachute Stowage Platform

Build the parachute stowage platform as shown in Figure 7-15. Install the parachute stowage platform as shown in Figure 7-16.

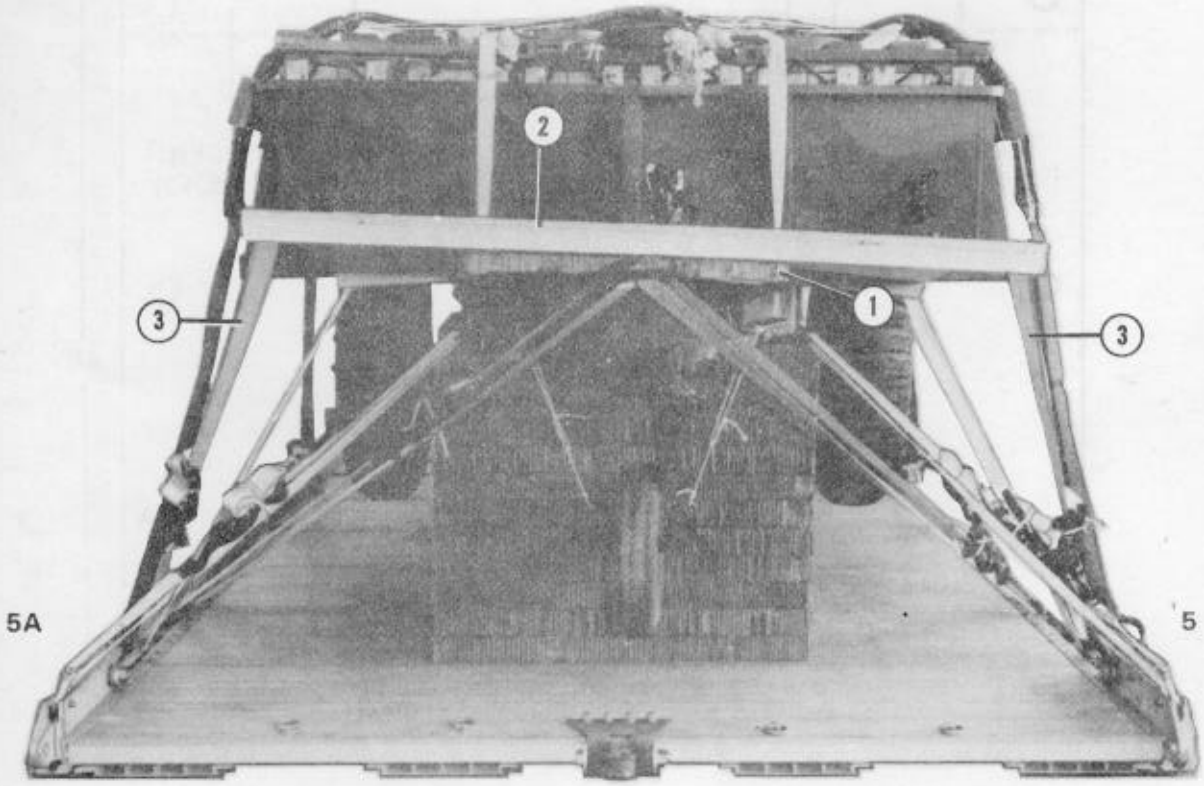
Notes: 1. This drawing is not drawn to scale.
2. All measurements are given in inches.



Step:

1. Cut a 3/4- by 48- by 60-inch piece of plywood.
2. Make a 17- by 34-inch cutout in the center of the front of the plywood.
3. Nail a 2- by 4- by 13-inch piece of lumber on each side of the front of the plywood using sixpenny nails. Nail a 2- by 4-by 60-inch piece of lumber on the rear of the plywood using sixpenny nails.
4. Drill six 2-inch holes as shown.

Figure 7-15. Parachute stowage platform built



(1) Center a 26- by 36-inch piece of honeycomb on the drawbar.

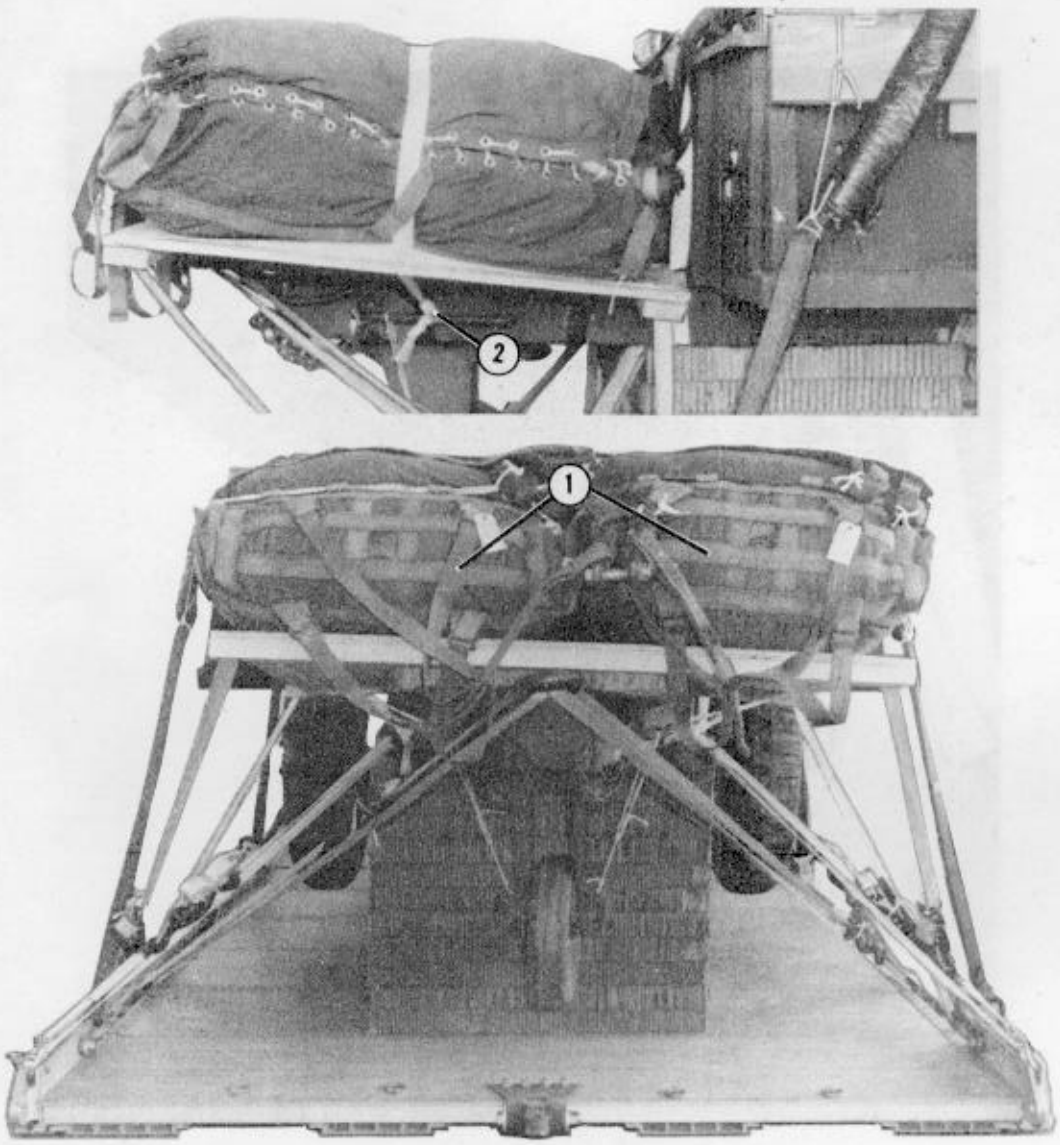
(2) Set the parachute stowage platform on top of the honeycomb.

(3) Lash the parachute stowage platform to clevises 5 and 5A with two 15-foot lashings.

Figure 7-16. Parachute stowage platform installed

7-12. Stowing and Securing 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 7-17.



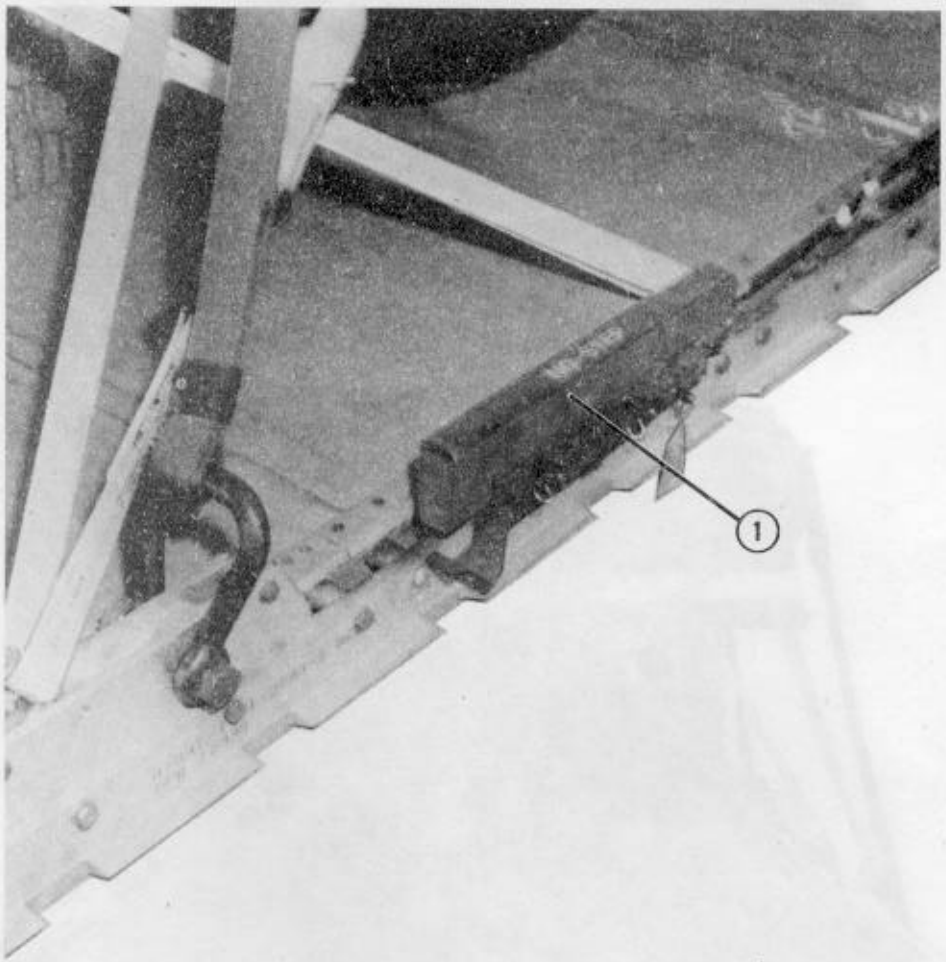
(1) Prepare and position two G-11B cargo parachutes on the parachute stowage platform according to FM 10-500-2/TO 13C7-1-5.

(2) Install a cargo parachute restraint strap according to FM 10-500-2/TO 13C7-1-5. Secure the restraint strap to the drawbar lifting handle.

Figure 7-17. Cargo parachute stowed and secured

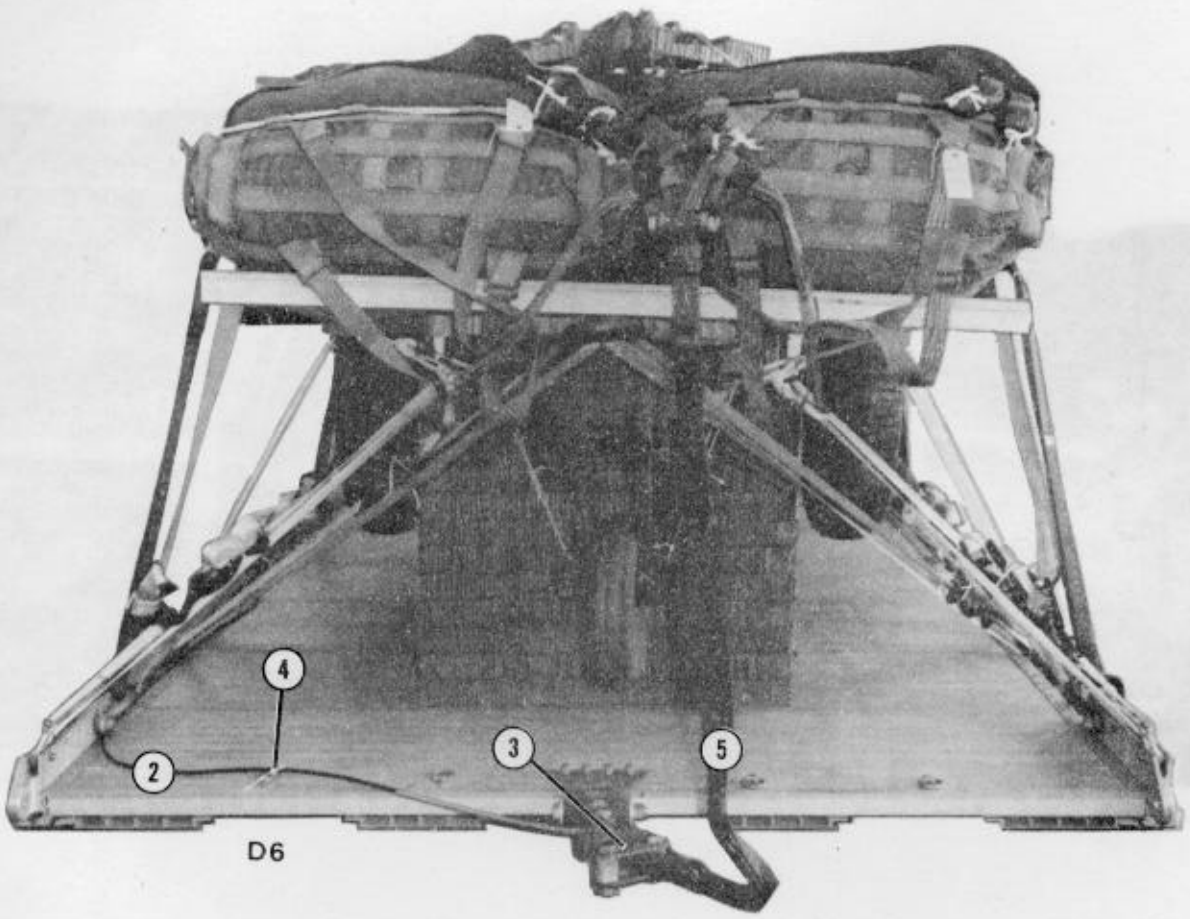
7-13. Installing Extraction System

Install the EFTC extraction system according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-18.



(1) Install the EFTC mounting bracket to the front mounting holes on the left platform rail. Install the actuator to the EFTC mounting brackets according to FM 10-500-2/TO 13C7-1-5.

Figure 7-18. Extraction system installed



(2) Attach a 12-foot release cable to the actuator.

(3) Install the latch assembly to the extraction bracket according to FM 10-500-2/TO 13C7-1-5, and attach the cable.

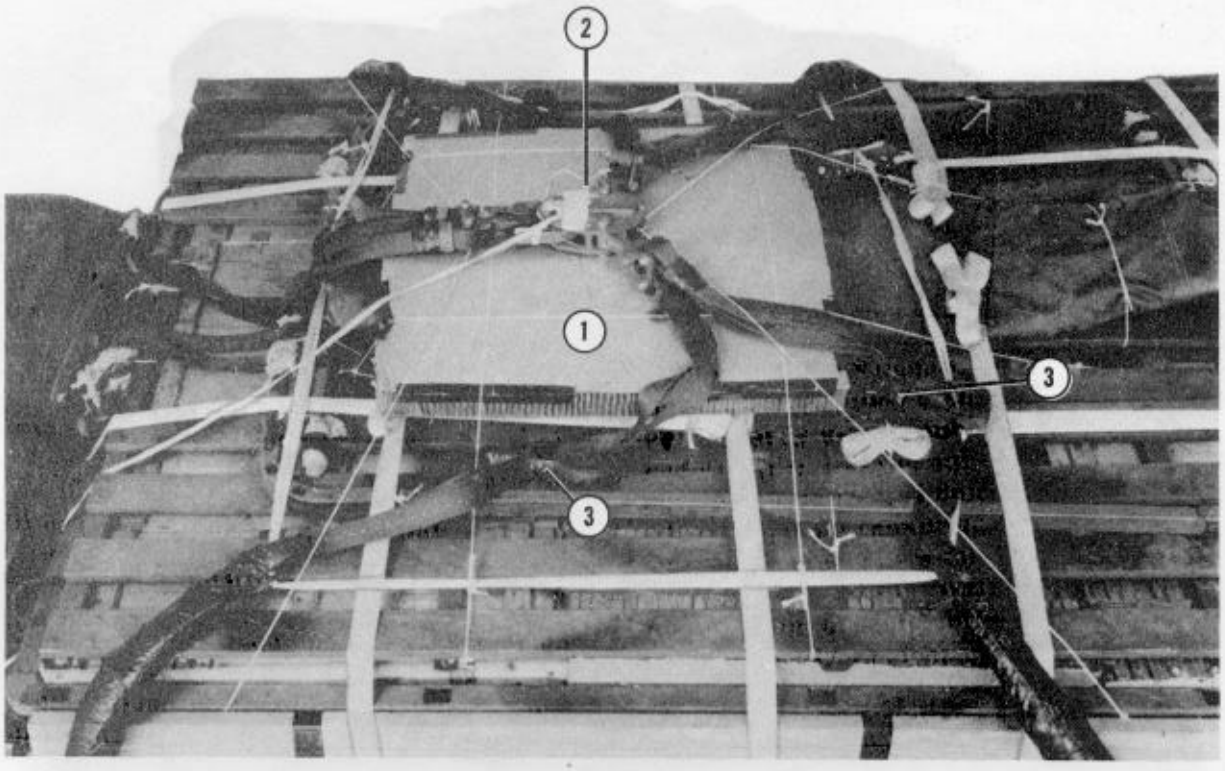
(4) Safety the release cable to tie-down ring D6 and according to FM 10-500-2/TO 13C7-1-5.

(5) Attach a 9-foot (2-loop), type XXVI nylon webbing sling as a deployment line to the load according to FM 10-500-2/TO 13C7-1-5.

Figure 7-18. Extraction system installed (continued)

7-14. Installing Parachute Release

Install an M-1 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-19.



(1) Place a 36- by 36-inch piece of honeycomb on top of the load, and secure it with type III nylon cord.

(2) Prepare and install the M-1 cargo parachute release according to FM 10-500-2/TO 13C7-1-5. Center the release assembly on top of the honeycomb. Secure the release to the paulin hooks on the side of the trailer with type III nylon cord.

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

Figure 7-19. Parachute release installed

7-15. Installing Provisions for Emergency Restraints

Select and install provisions for emergency restraints according to the emergency aft restraint requirements table found in FM 10-500-2/TO 13C7-1-5.

7-16. Placing Extraction Parachute

Select the extraction parachute and extraction parachute line needed using the extraction parachute and extraction line requirements table found in FM 10-500-2/TO 13C7-1-5.

7-17. Marking Rigged Load

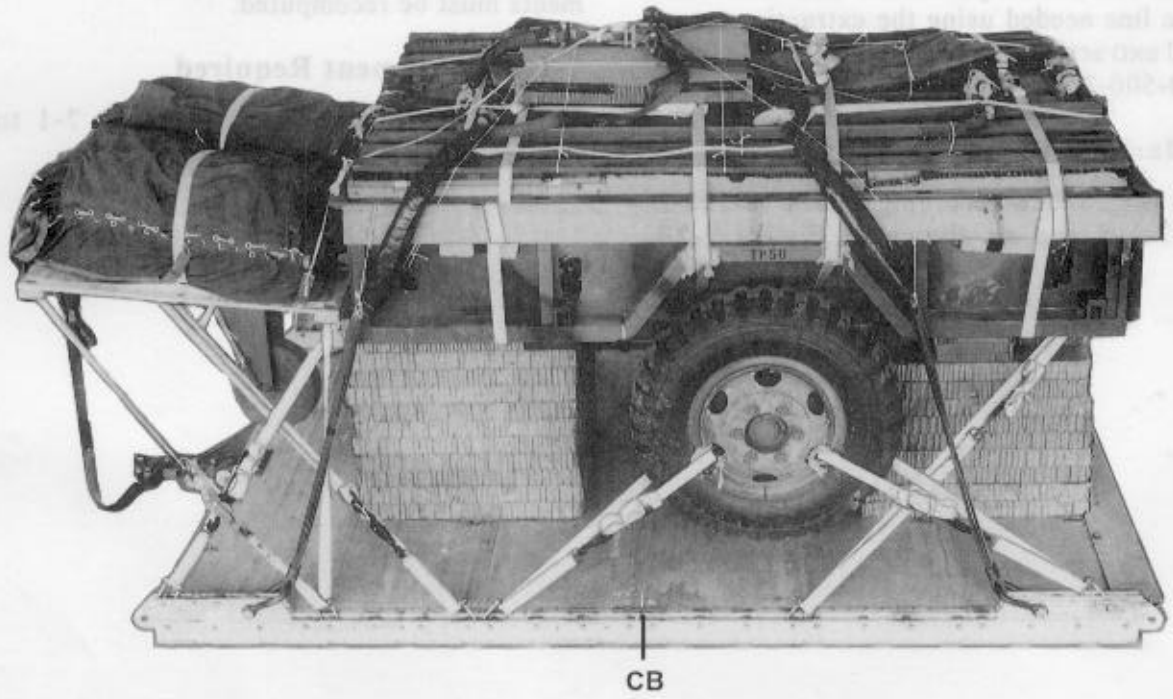
Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-20. Complete the Shipper's Declaration for Dangerous Goods, and securely attach it to the load. Indicate on the Shipper's Declaration for Dangerous Goods that the load has been prepared according to AFJAM 24-204/TM 38-250. If the load varies from the one shown, the weight, height, tip off curve, CB and parachute requirements must be recomputed.

7-18. Equipment Required

Use the equipment listed in Table 7-1 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	7,360 pounds
Maximum load allowed	8,080 pounds
Height	81 inches
Width	108 inches
Length	170 1/2 inches
Overhang: Front (nose bumper	4 1/2 inches
Rear (parachute)	22 inches
CB (from front edge of platform)	72 inches
Extraction System	EFTC

Figure 7-20. The 1 1/2-ton trailer rigged on a type V platform for low-velocity airdrop.

Table 7-1. Equipment required for rigging the 1 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
3990-00-937-0272	Binder, load, 10,000-lb	6
	Clevis, suspension:	
4030-00-090-5354	1-in (large)	10
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
5365-00-937-0147	D-ring, heavy-duty, 10,000-lb	12
8305-00-958-3685	Felt, 1/2-in thick	As required
1670-01-183-2678	Leaf, extraction line	2
	Line, extraction:	
1670-01-064-4452	60-ft (1-loop), type XXVI nylon webbing	1
1670-01-107-7651	140-ft (3-loop), type XXVI nylon webbing	1
1670-01-107-7652	160-ft (1-loop), type XXVI nylon webbing	1
	Link assembly:	
	Two-point:	
5306-00-435-8994	Bolt, 1-in diam, 4-in long	(2)
5310-00-232-5165	Nut, 1-in, hexagonal	(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
	Lumber	
5510-00-220-6146	2- by 4- by 13-in	2
5510-00-220-6146	2- by 4- by 60-in	1
5510-00-220-6148	2- by 6- by 120-in	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:	5 sheets
	4- by 11-in	(2)
	7- by 11-in	(4)
	12- by 48-in	(8)
	14- by 36-in	(18)
	18- by 24-in	(6)
	26- by 36-in	(1)
	36- by 36-in	(1)
	36- by 40-in	(21)
	36- by 54-in	(2)
	36- by 74-in	(2)
	Parachute:	
1670-01-016-7841	Cargo, G-11B	2
	Cargo, extraction:	
1670-00-052-1548	15-ft	1
1670-00-687-5458	22-ft	1

Table 7-1. Equipment required for rigging the 1 1/2-ton 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	(12)
1670-01-162-2376	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link	(4)
5530-00-128-4981	Plywood, 3/4-in:	
	12- by 48-in	1
	48- by 60-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 riser extensions:	
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	2
	For lifting:	
1670-01-062-6301	3-ft (2-loop), type XXVI nylon webbing	4
1670-01-063-7760	11-ft (2-loop), type XXVI nylon webbing	2
1670-01-062-6303	12-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
8305-00-074-5124	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	24
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type I	As required
8305-00-082-5752	Nylon, tubular, 1/2-in	As required

CHAPTER 8

RIGGING 400-GALLON CAPACITY WATER TRAILER FOR LOW-VELOCITY AIRDROP ON A 12-FOOT TYPE V AIRDROP PLATFORM

8-1. Description of Load

The 1 1/2-ton, 2-wheeled, 400-gallon tank trailer (model numbers M107A1, M107A2, M149A1, and M149A2) is rigged on a 12-foot, type V platform with two G-11 cargo parachutes. The M149A1 is shown in these procedures. The empty trailer is 162 inches long, 81 inches wide, 79 inches high and weighs 2,720 pounds. When filled, the trailer weighs 6,150 pounds and is 75 inches high.

Figure 8-1. M149A1 400-gallon water trailer

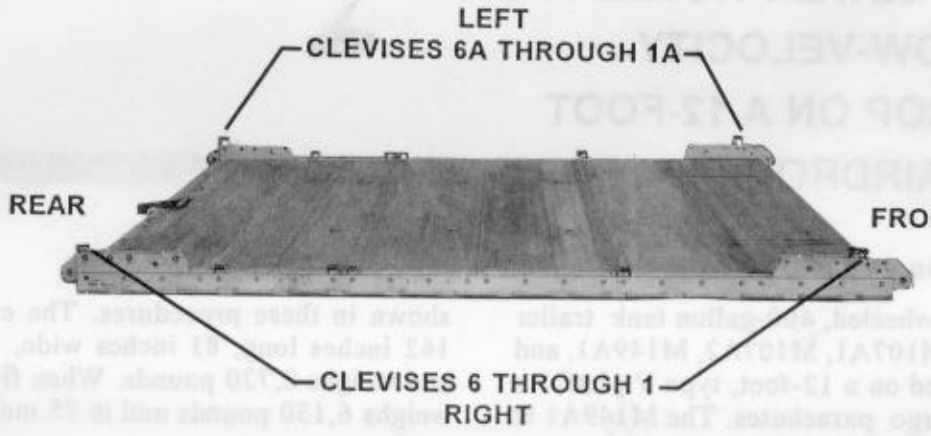
8-2. Preparing Platform

Prepare a 12-foot, type V platform using four tandem links and 12 clevis assemblies as shown in Figure 8-2.

Notes:

1. The nose bumper may or may or 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:

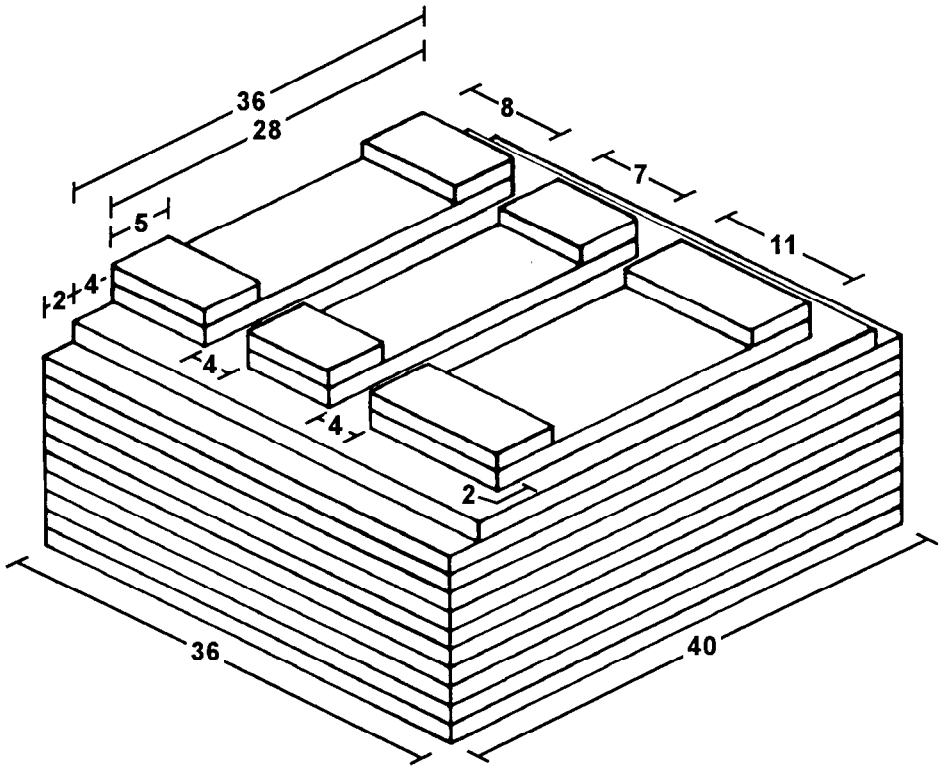
1. Inspect, or assemble and inspect, the platform according to TM 10-1670-268-20&P/ TO 13C7-52-22.
2. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
3. Install a tandem link on the rear of each platform side rail using holes 22, 23, and 24.
4. Install a clevis on bushing 2 on each front tandem link.
5. Install a clevis to bushing 4 on each rear tandem link.
6. Starting at the front of each platform side rail, install clevises on the bushings bolted on holes 8, 16, 17, and 20.
7. Starting at the front of the platform, number the clevises bolted to the right side from 1 through 6 and those bolted to the left side from 1A through 6A.

Figure 8-2. Platform prepared

8-3. Preparing Honeycomb Stacks

Prepare the honeycomb stacks as shown in Figures 8-3, 8-4, 8-5 and 8-6.

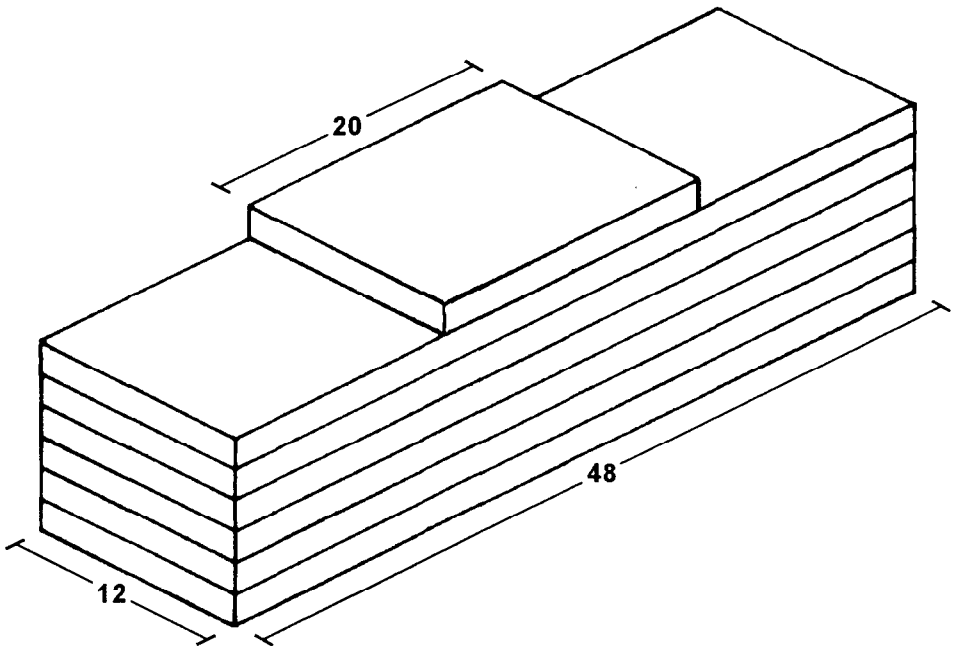
Notes: 1. This drawing is not drawn to scale.
2. All measurements are given in inches.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	10	40	36	Honeycomb	Stack and glue pieces flush.
	1	36	36	Honeycomb	Stack flush and center.
	1	28	11	Honeycomb	Place as shown.
	2	5	11	Honeycomb	Place as shown.
	1	28	7	Honeycomb	Place as shown.
	2	5	7	Honeycomb	Place as shown.
	1	28	8	Honeycomb	Place as shown.
	2	5	8	Honeycomb	Place as shown.

Figure 8-3. Stack 1 prepared

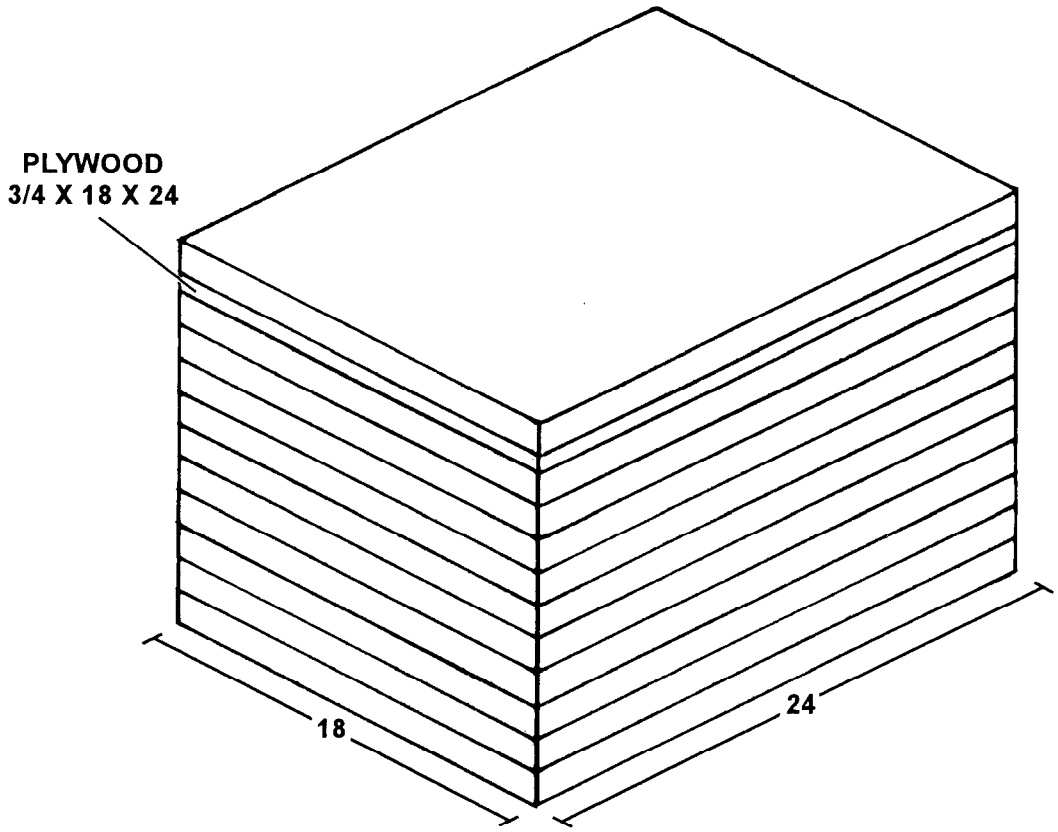
Notes: 1. This drawing is not drawn to scale.
2. All measurements are given in inches.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
2	6 1	48 20	12 12	Honeycomb Honeycomb	Place and glue to form base. Center and glue on top of base.

Figure 8-4. Stack 2 prepared

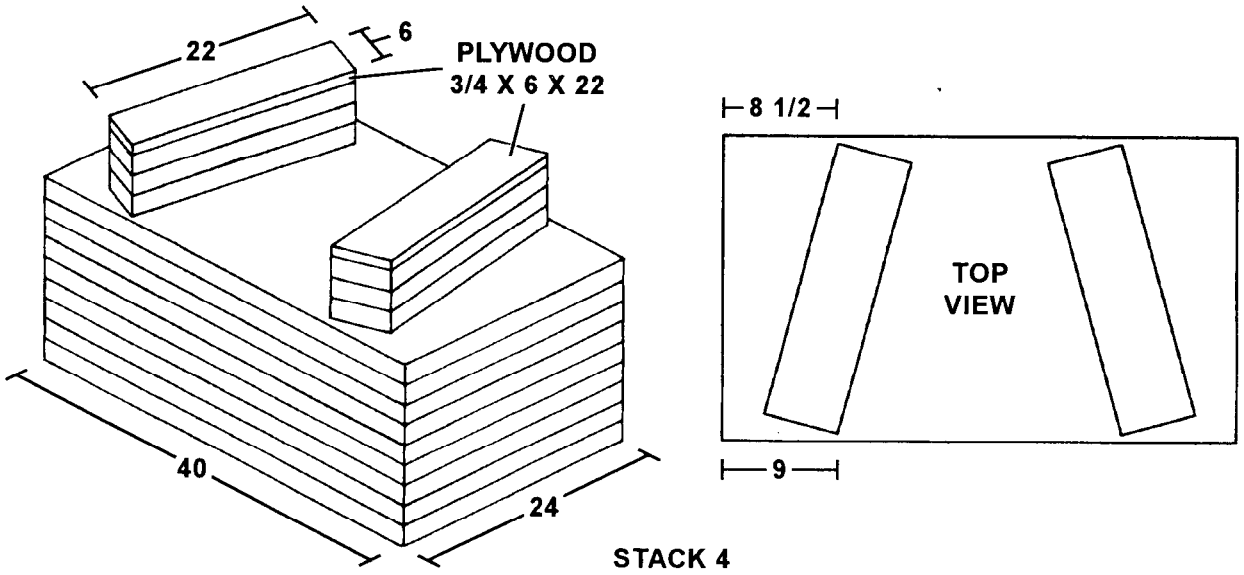
Notes: 1. This drawing is not drawn to scale.
2. All measurements are given in inches.



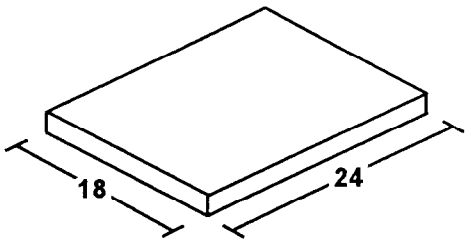
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
3	10	24	18	Honeycomb	Glue flush to form base.
	1	24	18	3/4-inch plywood	Glue flush on base.
	1	24	18	Honeycomb	Glue flush on plywood.

Figure 8-5. Stack 3 prepared

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



STACK 4



STACKS 5 AND 6

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
4	9	40	24	Honeycomb	Glue flush to form base.
	6	6	22	Honeycomb	Glue two stacks of three layers on the base as shown.
	2	6	22	3/4-inch plywood	Place and glue on top of 6-inch by 22-inch pieces.
5	1	18	24	Honeycomb	Stacks 5 and 6 consist of one layer.
6	1	18	24	Honeycomb	

Figure 8-6. Stacks 4, 5 and 6 prepared

8-4. Positioning Honeycomb Stacks

Position the honeycomb stacks as shown in Figure 8-7.

Notes:
1. This drawing is not drawn to scale.
2. All measurements are given in inches.
3. Measurements from the front of the platform are taken from the front edge of the nose bumper crease or the front edge of the first panel.
4. Measurements from the rear of the platform are taken from the rear edge of the last panel.

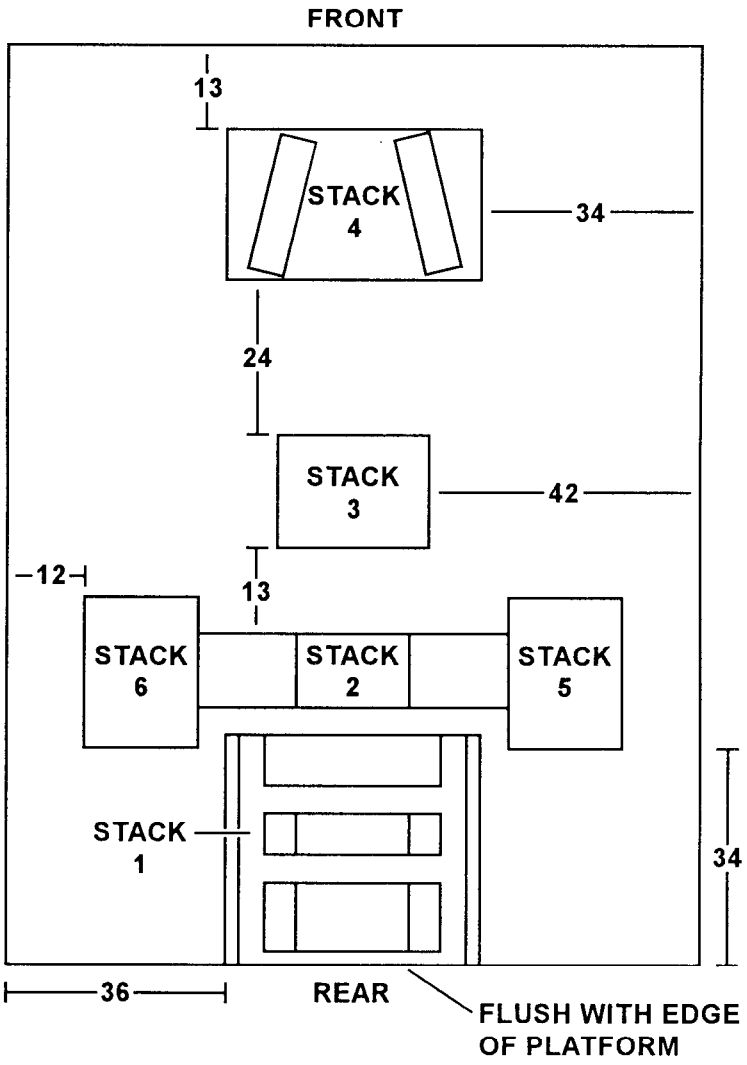


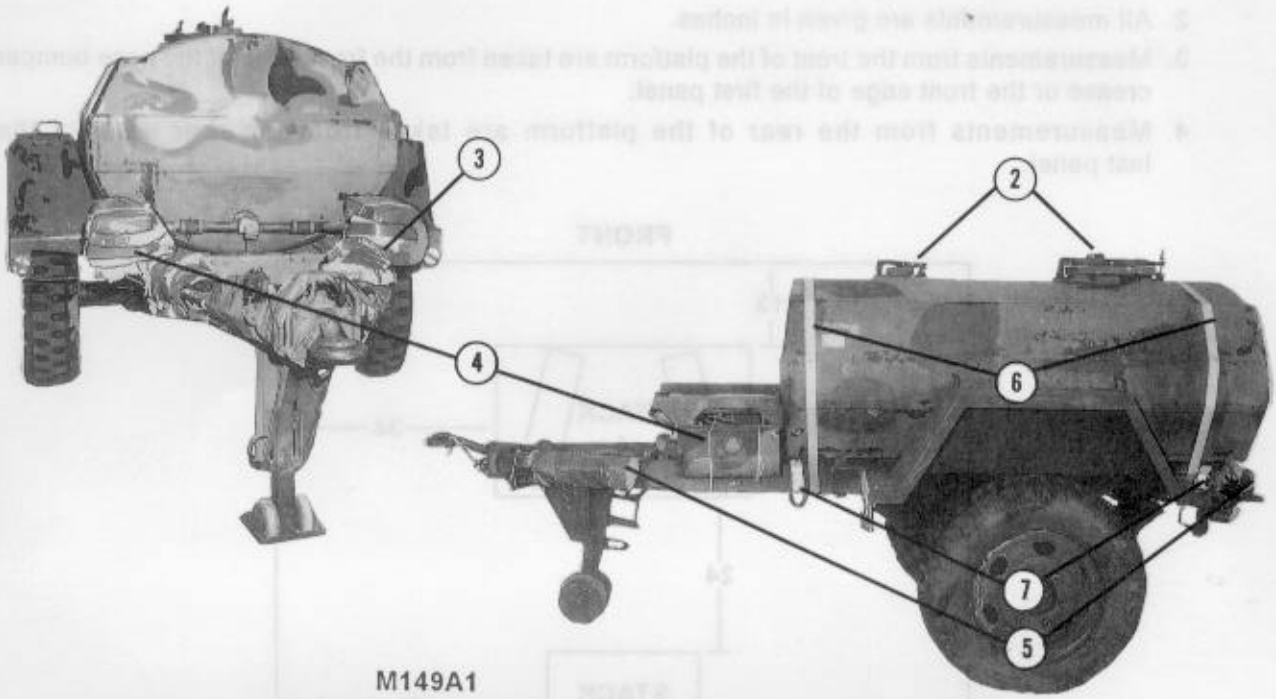
Figure 8-7. Honeycomb positioned

8-5. Preparing Trailer

Prepare the trailer as explained below.

a. Prepare the M149A1 trailer as shown in Figure 8-8.

b. Prepare the M149A2 trailer as shown in steps 1, 3, 4, and 5 of Figure 8-8. Further prepare the M149A2 trailer as shown in Figure 8-9.



M149A1

(1) Before preparing the trailer, ensure it is filled with 400 gallons of potable water (not shown).

(2) Secure manhole and filler pipe covers, and ensure they are closed tightly.

(3) Secure intervehicular cable, hose and safety chains, fold them along the drawbar, and secure them in place with type III nylon cord and tape.

(4) Close and latch the piping box covers, secure them with type III nylon cord, and pad the forward end of the piping box with cellulose wadding.

(5) Pad and tape the drawbar, lights and reflectors.

(6) Pass a 15-foot lashing around the tank and main frame member at a point forward of the second crossmember, and secure it with a load binder and D-ring on the underside of tank. Install a second tie-down strap in the same manner at the rear crossmember.

(7) Pass a 15-foot lashing around the left and right main frame members at a point forward of the second crossmember, and secure it with a load binder and D-ring. Install the second tie-down strap in the same manner at the rear crossmember.

Figure 8-8. Trailer prepared and tank and trailer frame reinforced

M149A2

(1) Secure the manhole cover with the hinged eyebolt and wingnut.

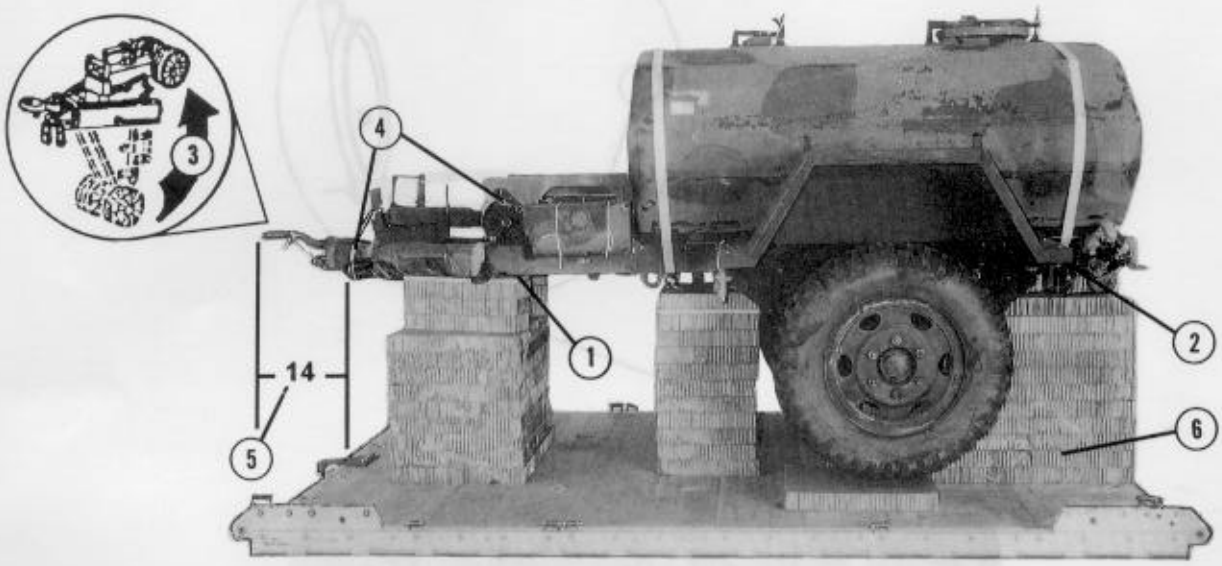
(2) Pass three 15-foot lashings around the tank and over the manhole cover. Secure them with three D-rings and load binders.

Figure 8-9. M149A2 prepared

8-6. Lifting and Positioning Trailer

Lift and position the trailer with four 12-foot (2-loop), type XXVI nylon webbing lifting slings. Position the trailer on the platform as shown in Figure 8-10.

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



(1) Pass one end of a 12-foot (2-loop), type XXVI nylon webbing sling around the drawbar frame and through its own loop. Install a second sling to the other side of the drawbar frame in the same manner (not shown).

(2) Pass a 12-foot (2-loop), type XXVI nylon webbing sling around the left rear main frame, up through the left rear lifting provision, and through its own loop. Attach the second sling around the right rear main frame in the same manner. Attach the slings and lift the trailer (not shown).

(3) Raise and lock the caster wheel into the traveling position.

(4) Safety the caster wheel with two separate pieces of type III nylon cord or 1/2-inch tubular nylon webbing.

(5) Make sure the front edge of the lunette overhangs the rear of the platform by 14 inches.

(6) Position the trailer on the honeycomb with the rear of the trailer flush with the front edge of the platform.

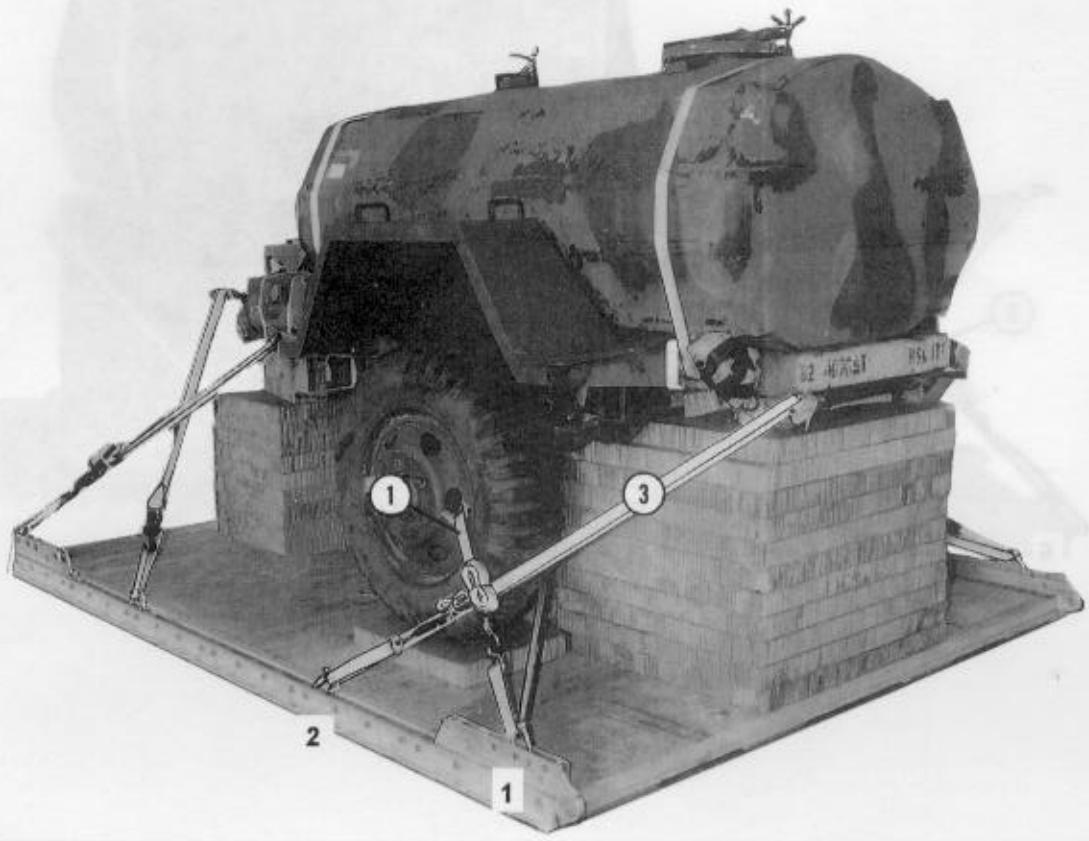
(7) Remove the lifting slings (not shown).

Figure 8-10. Lifting and positioning trailer

8-7. Installing Lashings

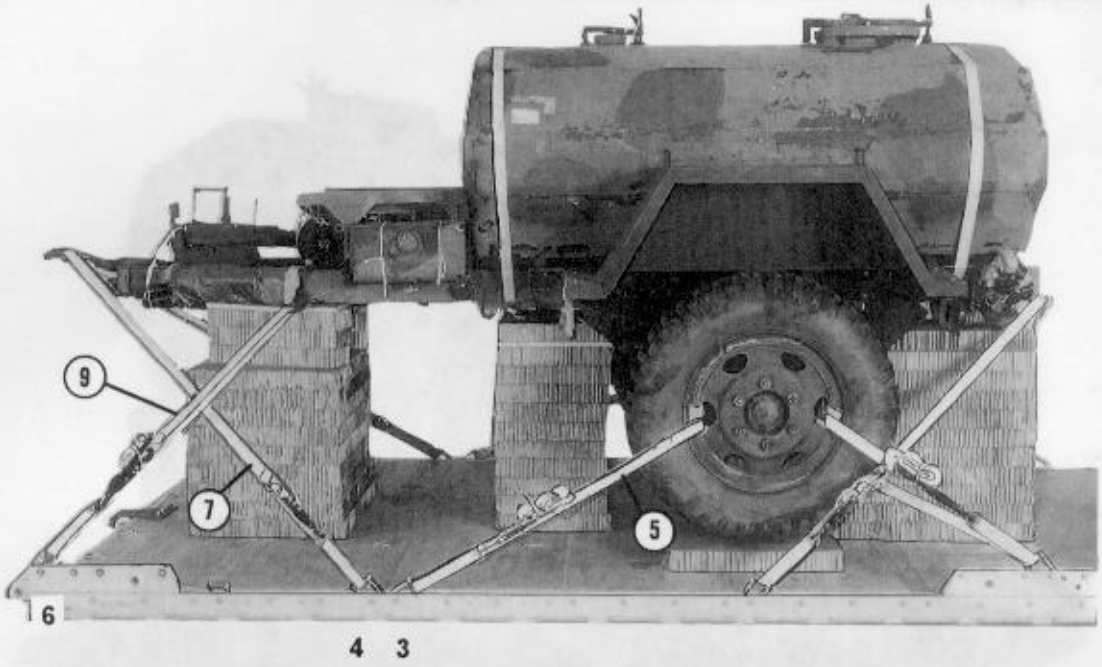
Lash the trailer to the platform with twelve 15-foot tie-down assemblies. Install the lashings according to FM 10-500-2/TO 13C7-1-5 and as shown in Figures 8-11 and 8-12.

Note: Left, right, rear, and front refer to the trailer, not the platform.



Lashing Number	Clevis Number	Instructions
		Pass lashing:
1	1	Through left wheel.
2	1A	Through right wheel
3	2	Through left rear tie-down provision.
4	2A	Through right rear tie-down provision.

Figure 8-11. Lashings 1 through 4 installed



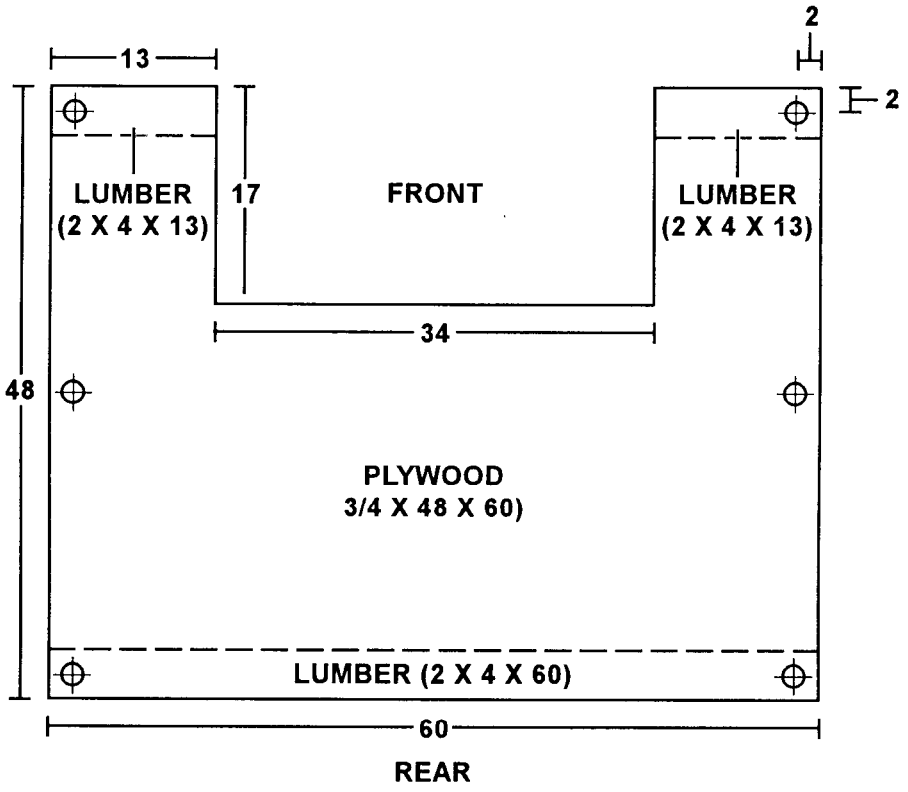
Lashing Number	Clevis Number	Instructions
		Pass lashing:
5	3	Through left wheel.
6	3A	Through right wheel.
7	4	Through lunette.
8	4A	Through lunette.
9	6	Through left front tie-down provision.
10	6A	Through right front tie-down provision.

Figure 8-12. Lashings 5 through 10 installed

8-8. Building Parachute Stowage Platform

Build the parachute stowage platform as shown in Figure 8-13. Install the parachute stowage platform as shown in Figure 8-14.

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



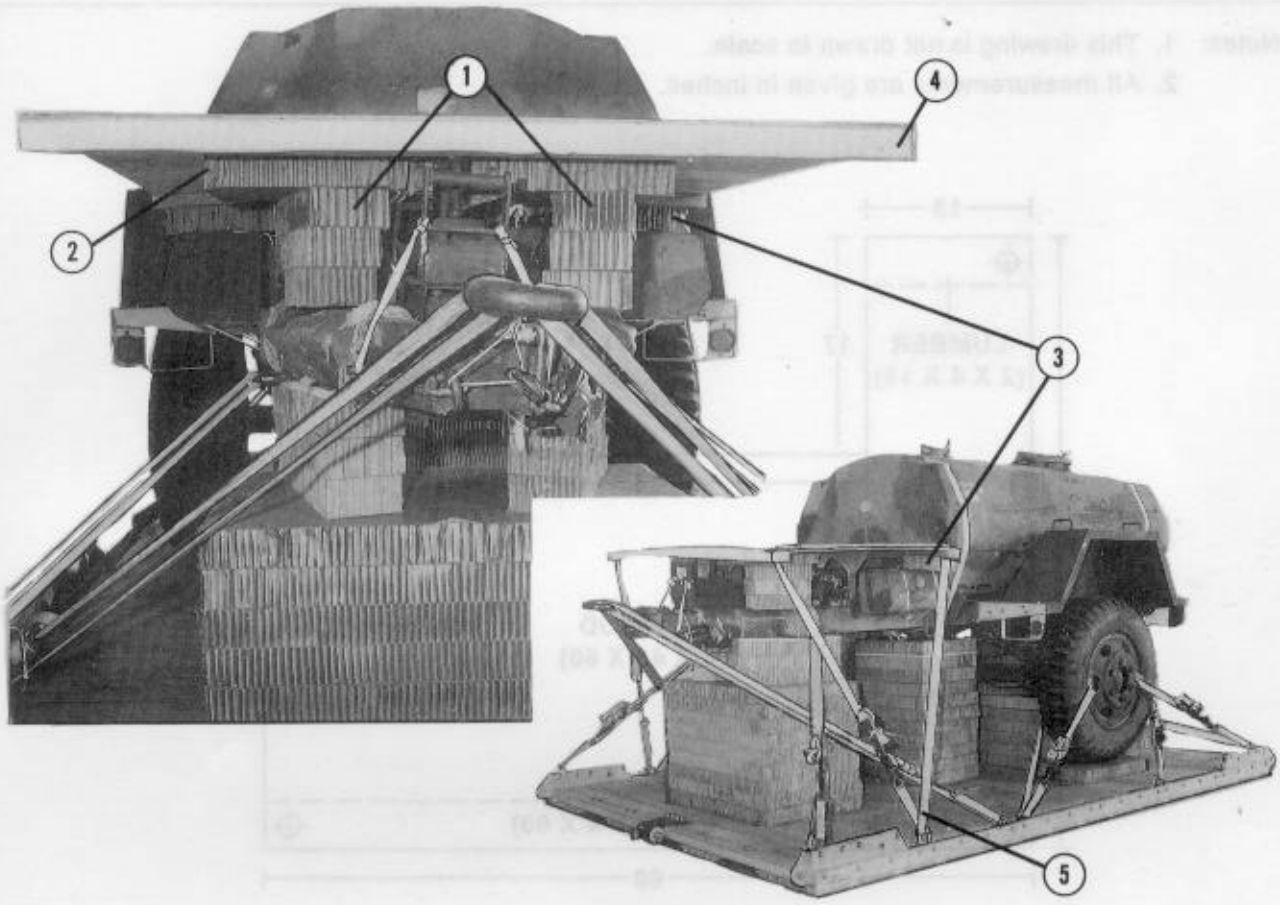
Step:

1. Cut a 3/4- by 48- by 60-inch piece of plywood.
2. Make a 17- by 34-inch cutout in the center of the front of the plywood.
3. Nail a 2- by 4- by 13-inch piece of lumber on each side of the plywood using eightpenny nails. Nail a 2- by 4- by 60-inch piece of lumber on the rear of the plywood using eightpenny nails.
4. Drill six 2-inch holes 2 inches from the edge of the plywood as shown.

Figure 8-13. Parachute stowage platform constructed

8-9. Installing Parachute Stowage Platform

Install the parachute stowage platform as shown in Figure 8-14.

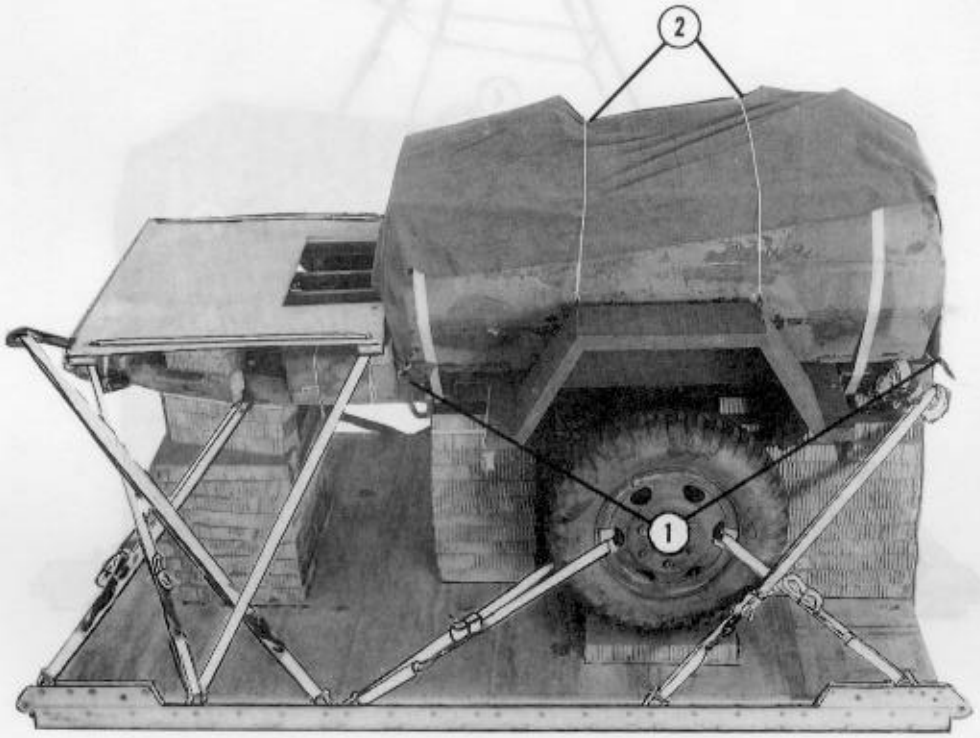


1. Glue three 6-inch by 12-inch pieces of honeycomb and position them on each drawbar.
2. Place a 36-inch by 36-inch piece of honeycomb on top of the two 6-inch by 12-inch honeycomb stacks.
3. Place a 6-inch by 12-inch piece of honeycomb on the forward edge of each piping box.
4. Position the parachute stowage platform on the honeycomb stacks.
5. Lash the stowage platform to clevises 5 and 5A, using two 15-foot lashings, two D-rings, and two load binders.

Figure 8-14. Parachute stowage platform installed

8-10. Installing Load Cover

Install the load cover as shown in Figure 8-15.



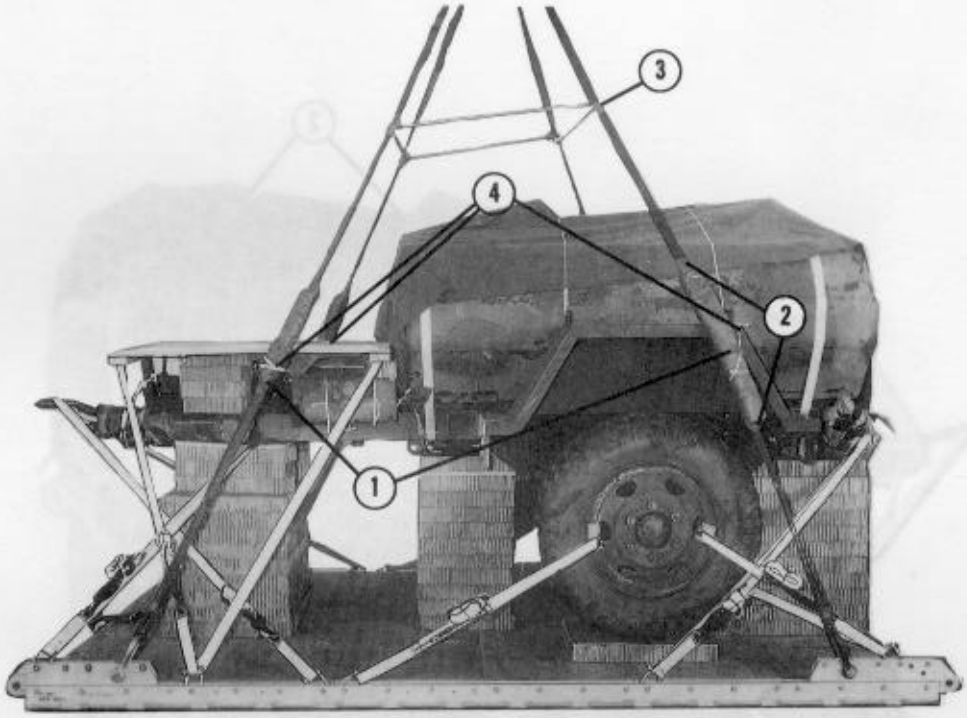
(1) Secure all four corners of the 60-inch by 144-inch cotton cover to convenient points on the load with type III nylon cord.

(2) Run two additional pieces of type III nylon cord over the top of trailer from the handles on the fenders.

Figure 8-15. Load cover installed

8-11. 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 8-16.



(1) Place a 1/2-inch by 10-inch by 30-inch piece of felt padding where each suspension sling makes contact with the load. Tie the felt padding in place using type III nylon cord.

(2) Tape the padding, and extend the tape over the suspension sling 6 inches on both ends.

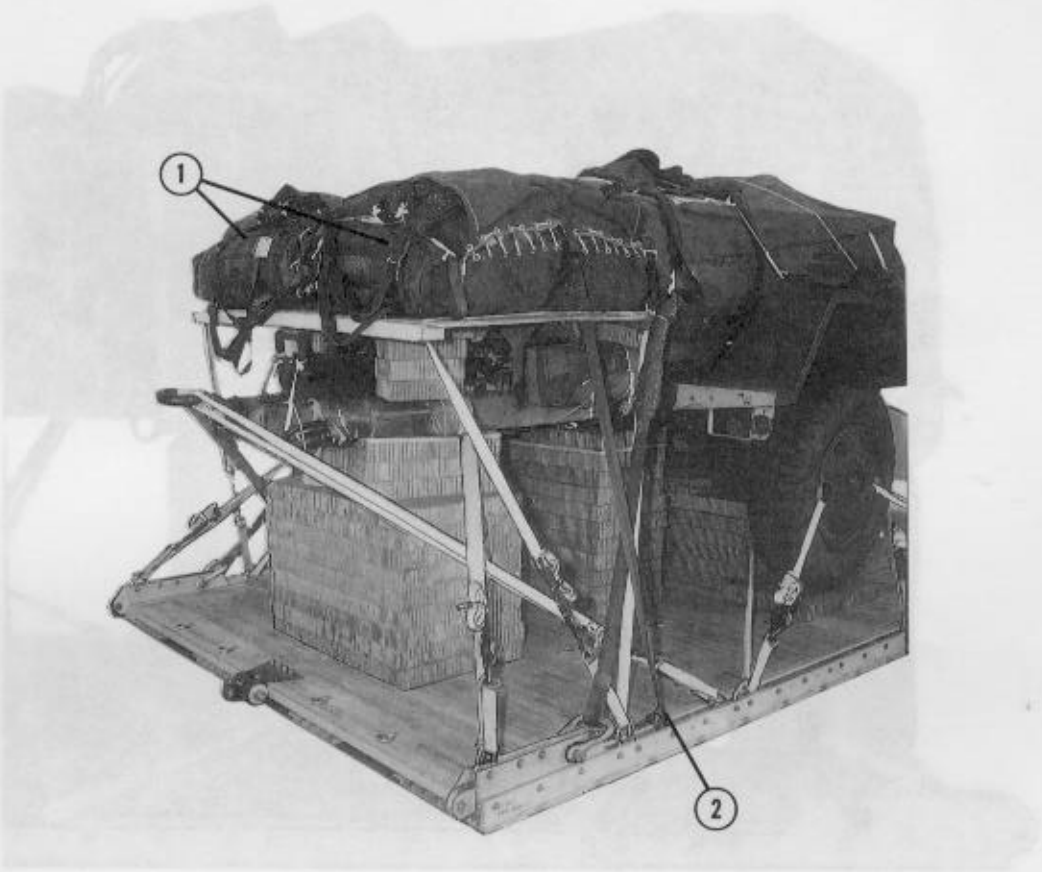
(3) Install a deadman's tie according to FM 10-500-2/TO 13C7-1-5.

(4) Safety the rear slings to the middle holes in the parachute stowage platform with type III nylon cord. Safety the front slings to the fender handles with type III nylon cord.

Figure 8-16. Suspension slings installed and safetied

8-12. 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 8-17.



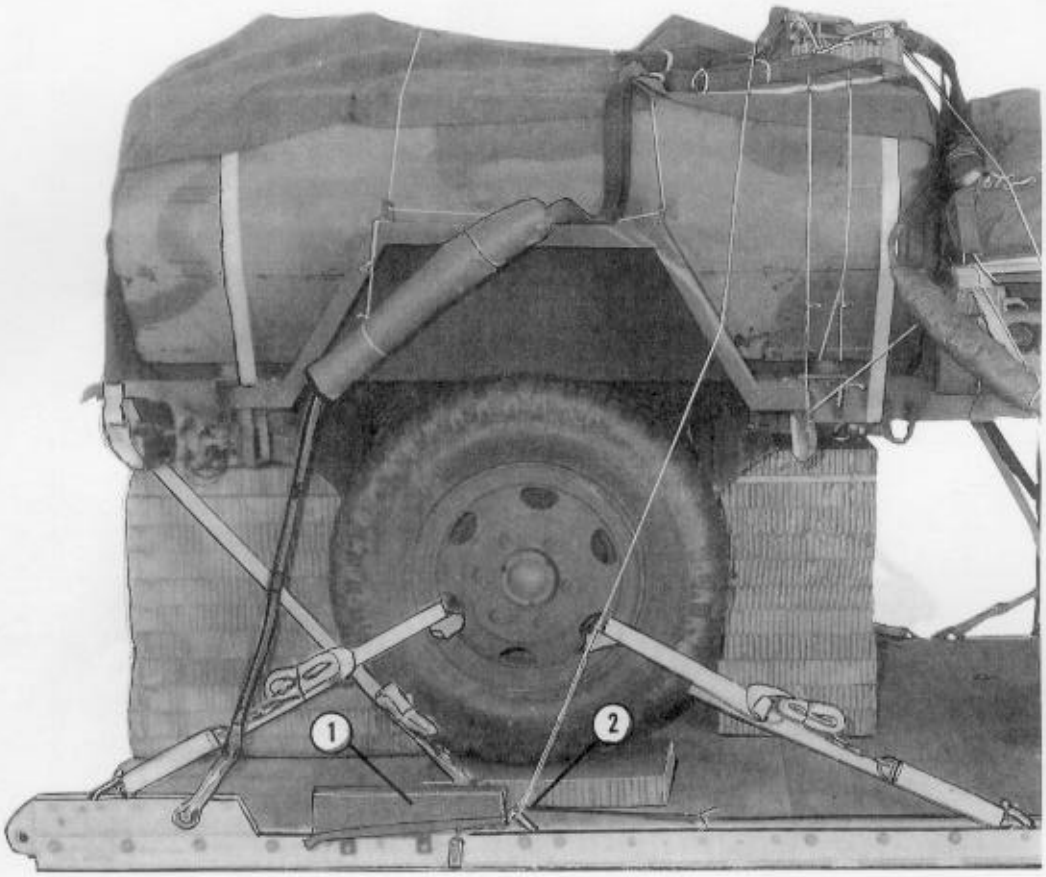
(1) Prepare and position two G-11 parachutes on the parachute stowage platform.

(2) Install a cargo parachute restraint strap according to FM 10-500-2/TO 13C7-1-5. Secure the ends to bushings 19 and 19A.

Figure 8-17. Cargo parachutes stowed

8-13. Installing Extraction System

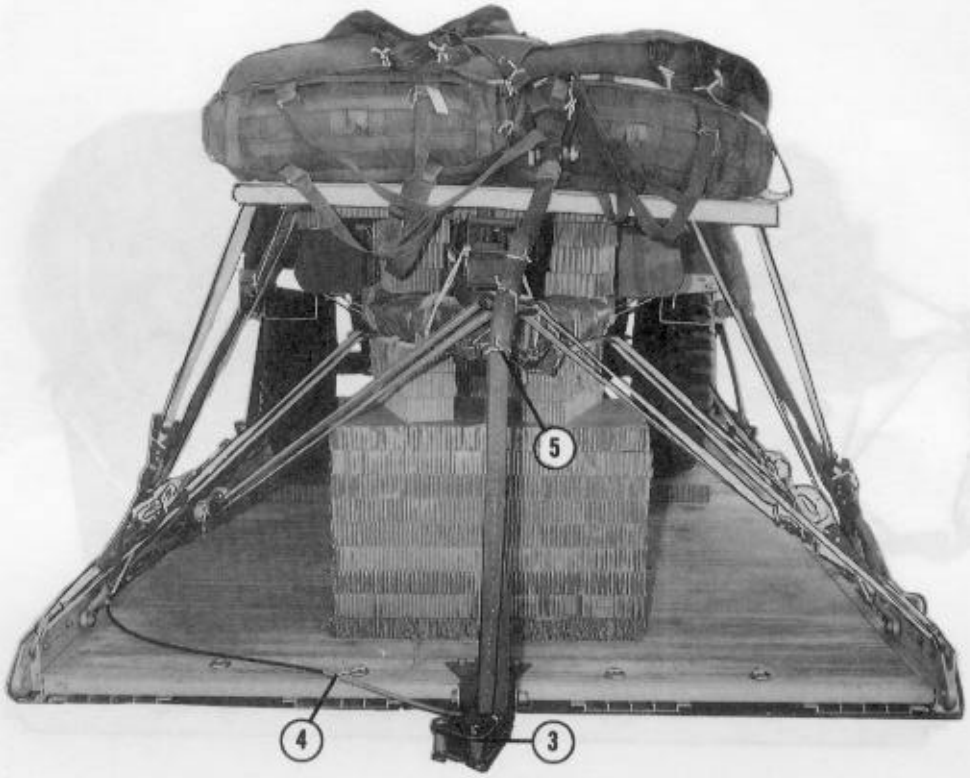
Install the EFTC extraction system according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 8-18.



(1) Install the EFTA mounting brackets to the front mounting holes on the left platform rail. Install the actuator to the EFTA mounting bracket.

(2) Attach a 12-foot release cable to the actuator.

Figure 8-18. Extraction system installed



(3) Install the latch assembly to the extraction bracket.

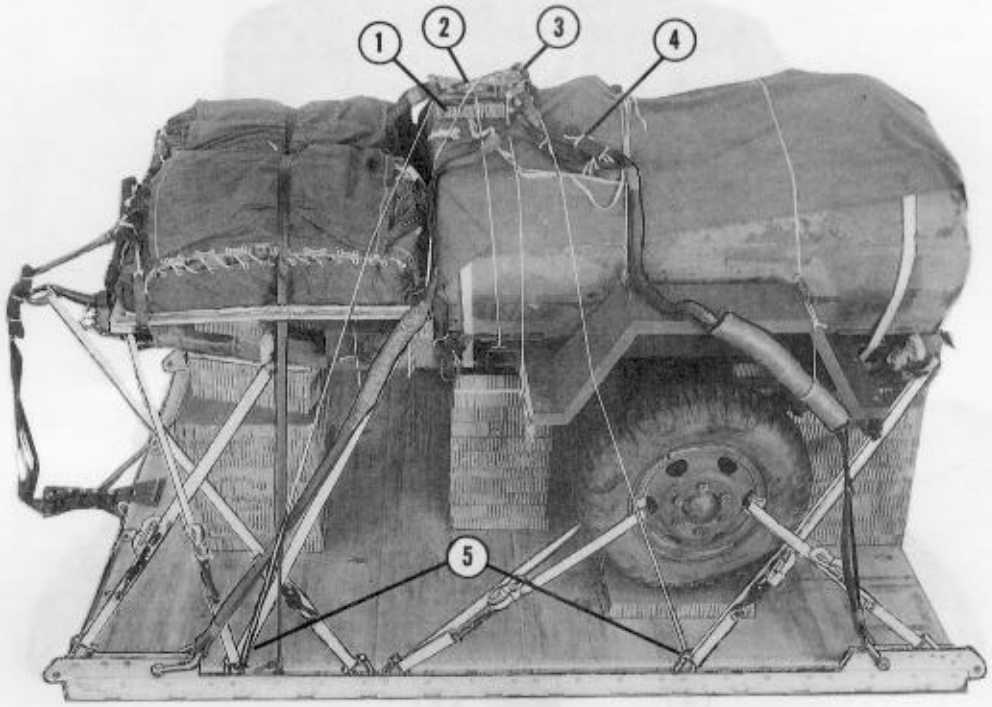
(4) Safety the release cable according to FM 10-500-2/TO 13C7-1-5.

(5) Safety the 9-foot (2-loop) deployment line to the lunette with type I, 1/4-inch cotton webbing.

Figure 8-18. Extraction system installed (continued)

8-14. Installing Parachute Release

Install an M-1 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 8-19.



(1) Place a 12-inch by 16-inch piece of honeycomb on the top rear edge of the trailer, and secure the honeycomb with type III nylon cord.

(2) Prepare and position the M-1 cargo parachute release and center the release assembly on top of the honeycomb.

(3) Attach the release to the suspension slings and the cargo parachutes according to FM 10-500-2/TO 13C7-1-5.

(4) S-fold the slack in the suspension slings and tie the folds in place with type I, 1/4-inch cotton webbing.

(5) Secure the release to convenient points on the load or the platform.

Figure 8-19. Parachute release installed

8-15. Installing Provisions for Emergency Restraints

Select and install provisions for emergency restraints according to the emergency aft restraint requirements table found in FM 10-500-2/TO 13C7-1-5.

8-16. Placing Extraction Parachute

Select the extraction parachute and extraction parachute line needed using the extraction parachute and extraction line requirements table found in FM 10-500-2/TO 13C7-1-5.

8-17. Marking the Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 8-20. If the load varies from the one shown, the weight, height, CB, tip-off curve and parachute requirements must be recomputed.

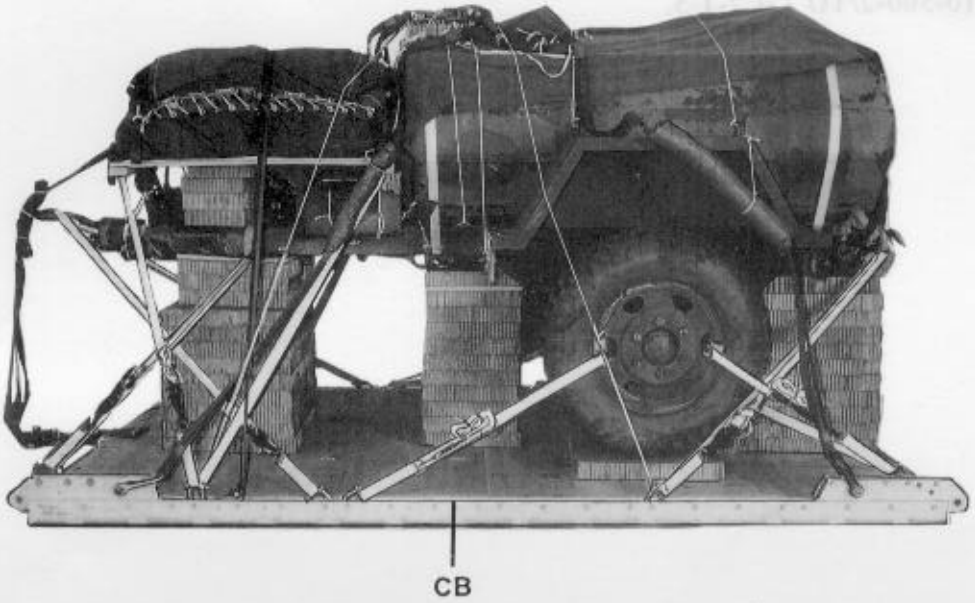
8-18. Equipment Required

Use the equipment listed in Table 8-1 to rig this load.

C4, FM 10-532/TO 13C7-3-361

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	7,200 pounds
Maximum load allowed	10,000 pounds
Height	86 inches
Width	108 inches
Length	156 inches
Overhang: Front	0 inches
Rear (lunette)	14 inches
CB (from front edge of platform)	63 inches
Extraction System	EFTC

Figure 8-20. M149A1 water trailer rigged for low-velocity airdrop on a type V platform

8-22

Table 8-1. Equipment required for rigging 400-gallon capacity water trailer for low-velocity airdrop on a type V platform

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
1670-01-035-6054	Bridle, extraction line bag.	1
4030-00-090-5354	Clevis assembly, suspension, large	5
4030-00-678-8562	Clevis assembly, suspension, medium (aft restraint)	
	(15-ft extraction, 1 med per side)	2
	(22-ft extraction, 2 med per side)	4
8305-00-242-3593	Cloth, cotton duck, 60-in	12 yd
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
1670-00-360-0328	Cover, clevis, large	2
5365-00-856-0266	D-ring, heavy-duty, 10,000-lb	4
8305-00-937-0147	Felt, 1/2-in thick	As required
1670-01-183-2678	Line, leaf, extraction	2
1670-00-753-3790	Line, multi-loop, deployment, type XXVI nylon webbing	
	9-ft (2-loop)	1
1670-01-062-6302	Line, multi-loop, riser extension, type XXVI nylon webbing	
	20-ft (2-loop)	2
1670-01-062-6303	Line, multi-loop, suspension, type XXVI nylon webbing	
	12-ft (2-loop)	4
1670-01-064-4452	Line, extraction, 60-ft (1-loop), type XXVI nylon webbing	
	(for C-130 w 15-ft extraction)	1
1670-01-062-6313	Line, extraction, 60-ft (3-loop), type XXVI nylon webbing	
	(for C-130 w 22-ft extraction)	1
1670-01-107-7652	Line, extraction, 160-ft (1-loop), type XXVI nylon webbing	
	(for C-141 w 15-ft extraction)	1
1670-01-107-7651	Line, extraction, 140-ft (2-loop), type XXVI nylon webbing	
	(for C-141 w 22-ft extraction)	1
1670-00-783-5988	Link type IV (for 15-ft extraction)	1
	Link, 3 3/4-inch, two point	1
5305-00-435-8994	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
5315-00-010-4659	Nail, steel wire, common, 8d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb	32 Sheets
1670-01-016-7841	Parachute, cargo, G-11B	2
	Parachute, cargo extraction:	
1670-01-063-3715	15-ft	1
1670-01-063-3716	22-ft	1

Table 8-1. Equipment required for rigging 400-gallon capacity water trailer for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	Platform, AD, type V, 12-ft:	
	Bracket:	
1670-01-353-9425	Inside and outside EFTA mounting kit	1
1670-01-162-2375	Inside EFTA	1
1670-01-162-2374	Outside EFTA	1
1670-01-162-3772	Clevis assembly, type V	12
1670-01-162-2376	Extraction bracket assembly	1
1670-00-434-5783	Coupling, airdrop, extraction force transfer w 12-ft cable	1
1670-01-162-2381	Tandem link,	4
5530-00-128-4981	Plywood, 3/4-in:	
	24- by 18-in.	1
	6- by 22-in	2
1670-00-040-8219	Strap, parachute release, multicut comes w 3 knives	2
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	14
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type I	As required
	Nylon:	
	Tubular:	
8305-00-082-5752	1/2-in or	
8305-00-268-2453	1/2-in	As required
8305-00-263-3591	Type VIII, 3,600-lb	As required

GLOSSARY

ACB attitude control bar

AD airdrop

AFB Air Force base

AFJAM armed forces joint manual

AFTO Air Force technical order

ALC Air Logistics Center

AMC Air Mobility Command

ARNG Army Reserve National Guard

attn attention

C change

CAP capacity

CB center of balance

d penny

DA Department of the Army

DC District of Columbia

DD Department of Defense

diam diameter

ea each

EFTA extraction force transfer actuator

EFTC extraction force transfer coupling

fig figure

FM field manual

ft foot/feet

gal gallon

HQ headquarters

IL Illinois

in inch

K thousand

LAPE low-altitude parachute extraction

LAPES low-altitude parachute extraction system

lb pound

MAC Military Airlift Command

med medium

mm millimeter

no number

NSN national stock number

PEFTC extraction force transfer coupling (platform)

Qty quantity

rqr requirement

sec second

SL/CS static line/connector strap

sq square

TM technical manual

TO technical order

TRADOC United States Army Training and Doctrine Command

TX Texas

US United States

USAR United States Army Reserve

VA Virginia

w with

yd yard

REFERENCES

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

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

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TM 10-1670-286-20&P/TO 13C5-2-41. *Unit Maintenance Manual for Sling/Extraction Line Panel (Including Stowing Procedures).* 1 April 1986.

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

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*AFJMAN 24-204 has superseded AFR 71-4/TM 38-250 (15 January 1988). Change 4 pages reflect this change. The basic manual and changes 1, 2, and 3 still reference the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.

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

**DD Form 1387-2. *Shipper's Declaration for Dangerous Goods.*

**Shipper's Declaration for Dangerous Goods has superseded DD Form 1387-2 (February 1982). Change 4 pages reflect this change. The basic manual and changes 1, 2, and 3 still reference the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.

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