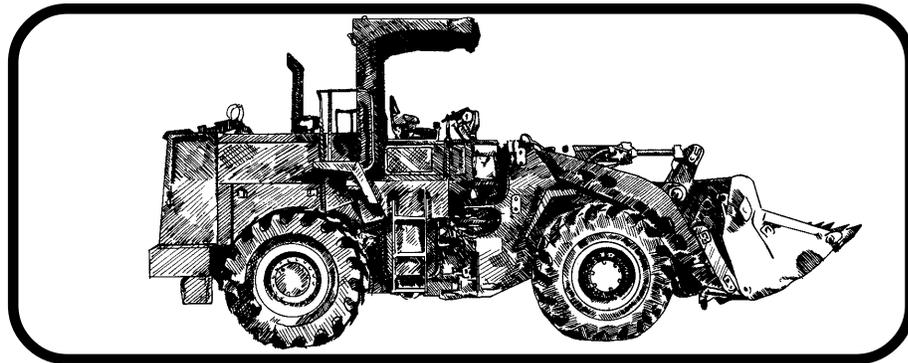




AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING 950B SCOOP-LOADER



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**AIRDROP OF SUPPLIES AND EQUIPMENT
RIGGING 950B SCOOP-LOADER**

This change adds the procedures for rigging the scoop-loader with a 7-foot forklift attachment.

FM 10-574/TO 13C7-31-31, 2 May 1985, is changed as follows:

1. New or changed material is identified by a vertical bar in the margin opposite the changed material.
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6-1 through 6-39

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 NO 13C7-31-31

HEADQUARTERS
 DEPARTMENT OF THE ARMY
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 WASHINGTON, DC, 2 MAY 1985

AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING 950B SCOOP LOADER

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PREFACE

SCOPE

This manual tells and shows how to prepare and rig a scoop-loader with a seven-foot forklift attachment on a 28-foot, type V platform for low-velocity airdrop. It is designed for use by all parachute riggers.

USER INFORMATION

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

CHAPTER 6

**RIGGING THE SCOOP-LOADER WITH A
SEVEN-FOOT FORKLIFT ATTACHMENT FOR
LOW-VELOCITY AIRDROP ON
THE TYPE V PLATFORM**

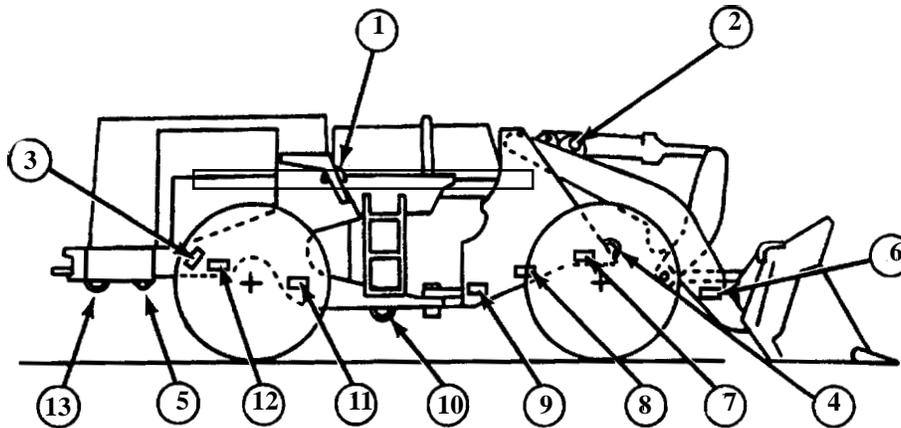
CAUTION

This load exceeds the maximum allowable weight for low-velocity airdrop for training from C-141 aircrafts.

6-1. Description of Load

The scoop-loader with a seven-foot forklift attachment is rigged on a 28-foot, type V platform for low-velocity airdrop.

The load requires eight G-11 cargo parachutes. A drawing of the scoop-loader with tiedown provisions is shown in Figure 6-1.



- | | |
|-------------------------------|-----------------------|
| ① Rear suspension point | ⑧ Tiedown provision 3 |
| ② Front suspension point | ⑨ Tiedown provision 4 |
| ③ Rear lift eye | ⑩ Tiedown provision 5 |
| ④ Front lift eye | ⑪ Tiedown provision 6 |
| ⑤ Air transport trailer hitch | ⑫ Tiedown provision 7 |
| ⑥ Tiedown provision 1 | ⑬ Tiedown provision 8 |
| ⑦ Tiedown provision 2 | |

Figure 6-1. Scoop-loader with tiedown provisions

6-2. Preparing Platform

Prepare a 28-foot, type V airdrop platform as shown in Figure 6-2.

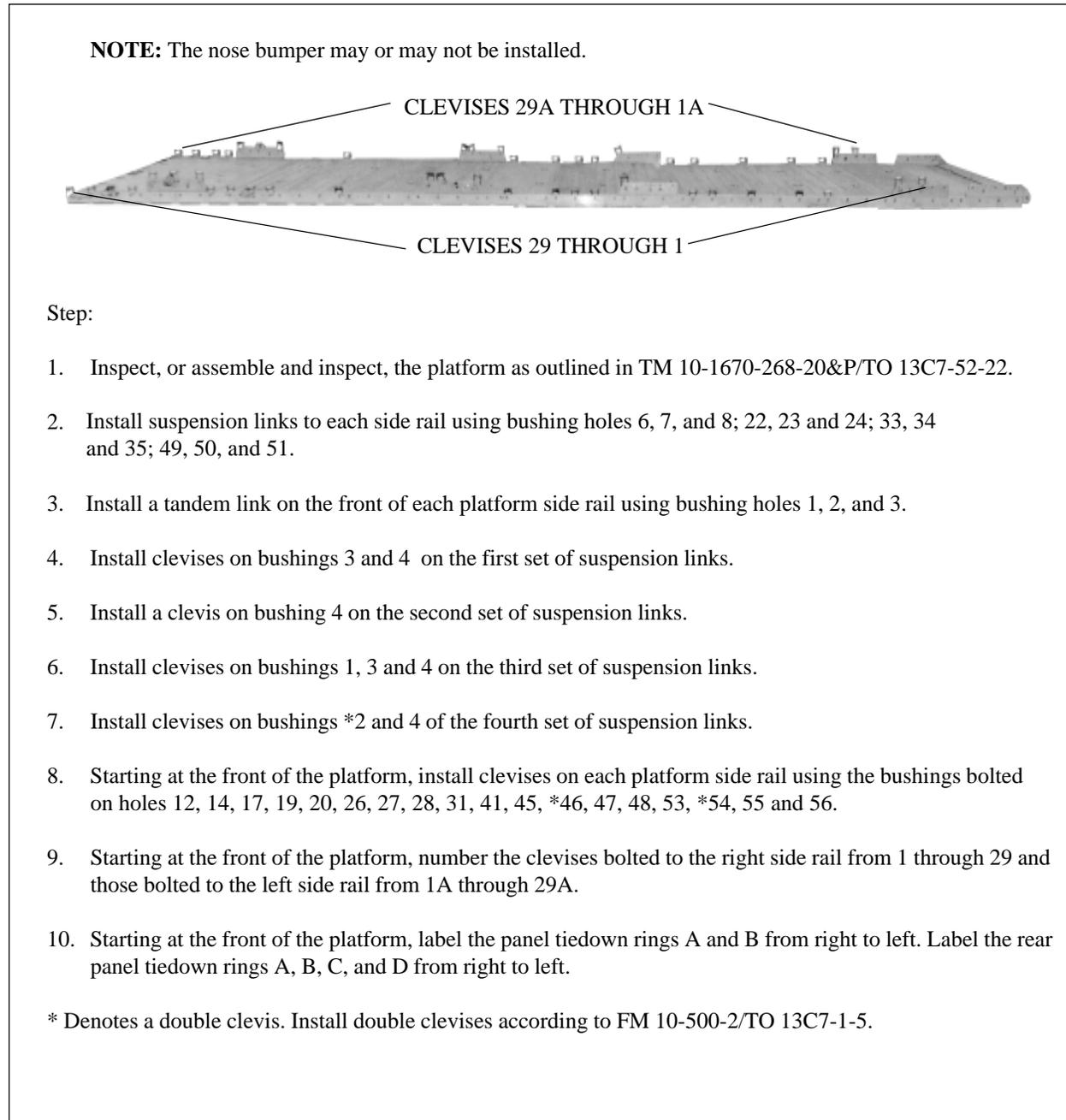


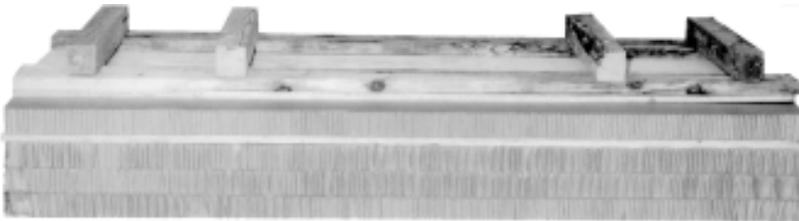
Figure 6-2. Platform prepared

6-3. Preparing and Positioning Honeycomb Stacks

Prepare the honeycomb stacks for the scoop-loader according to paragraph 4-3 and as shown in Figures 4-3 through 4-14.

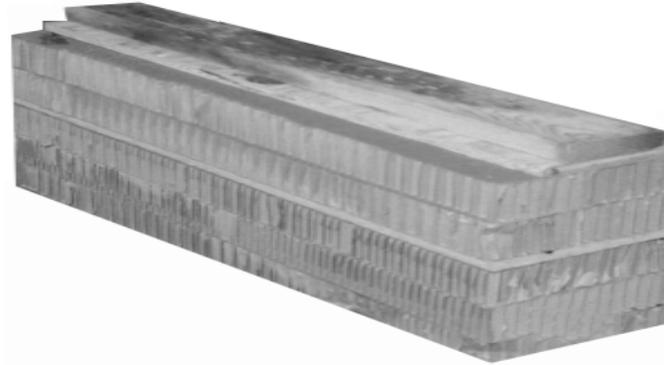
Prepare honeycomb stacks 1, 14, 15, and 16 as shown in Figures 6-3 through 6-5. Position the honeycomb stacks on the platform as shown in Figures 6-6 and 6-7.

NOTE: Nail lumber before building honeycomb stacks.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	3	96	36	Honeycomb	Glue and form base.
	1	96	36	3/4-inch Plywood	Glue plywood on top of base.
	1	96	36	Honeycomb	Glue on top of plywood.
	1	96	26	3/4-inch Plywood	Glue on top of honeycomb center.
	2	96	2x6	Lumber	Nail one piece flush with the front edge of the plywood. Nail the other flush with the rear edge using eight-penny nails.
1	4	96	4x4	Lumber	Temporarily position the 4x4 pieces of lumber on top of the 2x6 pieces of lumber.

Figure 6-3. Honeycomb stack 1 prepared



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
14	3	12	41	Honeycomb	Glue and form base.
	1	12	41	3/4-inch Plywood	Glue to base.
	2	12	41	Honeycomb	Glue to plywood.
	1	8	41	3/4-inch Plywood	Center and glue on base.
	1	2x6	41	Lumber	Center on plywood and nail in place.

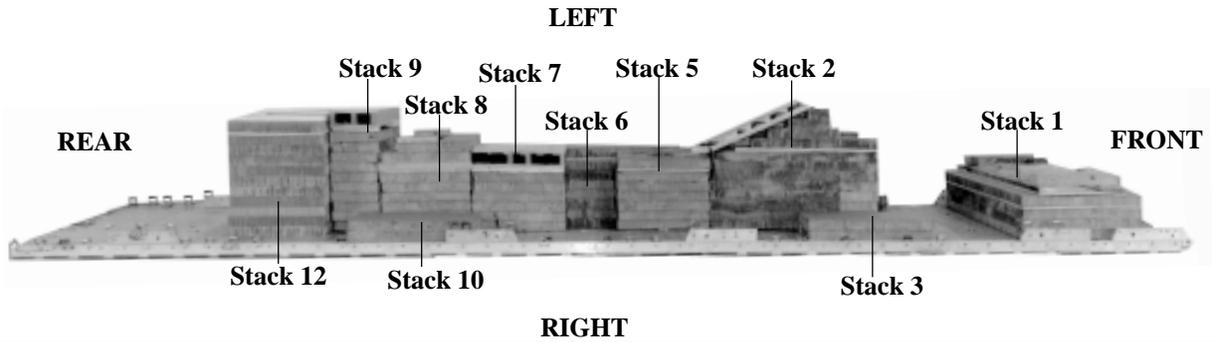
Figure 6-4. Honeycomb stack 14 prepared



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
15 and 16	3	28	41	Honeycomb	Glue and form base.
	1	28	41	3/4-inch Plywood	Glue to base.
	2	28	41	Honeycomb	Glue to plywood.
	1	28	41	3/4-inch Plywood	Glue to base.
	2	2x6	41	Lumber	Nail one piece on the front edge of plywood. Nail the other piece on the rear edge of plywood.
	2	2x6	12	Lumber	Center and nail one piece on the right edge and center. Nail the other piece to the left edge.

Figure 6-5. Honeycomb stacks 15 and 16 prepared

- NOTES: 1. Measurements from the front of the platform are taken from the front edge of the first panel or the crease of the nose bumper, NOT from the front edge of the nose bumper.
 2. Measurements from the rear of the platform are taken from the rear edge of the last panel.



Stack Number	Instructions
	Place stack:
1	Centered 12 inches from the front edge of the platform.
2	Centered 36 inches from stack 1.
3	28 inches from stack 1, flush against right side of stack 2.
4	28 inches from stack 1, flush against left side of stack 2.
5	Centered flush against stack 2.
6	Centered flush against stack 5.
7	Centered flush against stack 6.
8	Centered flush against stack 7.
9	Centered flush against stack 8.
10	86 inches from stack 3, flush against right side of stack 8.
11	86 inches from stack 4, flush against left side of stack 8.
12	17 1/2 inches from right rail, flush against stack 9.
13	17 1/2 inches from left rail, flush against stack 9.

Figure 6-6. Honeycomb stacks positioned on platform

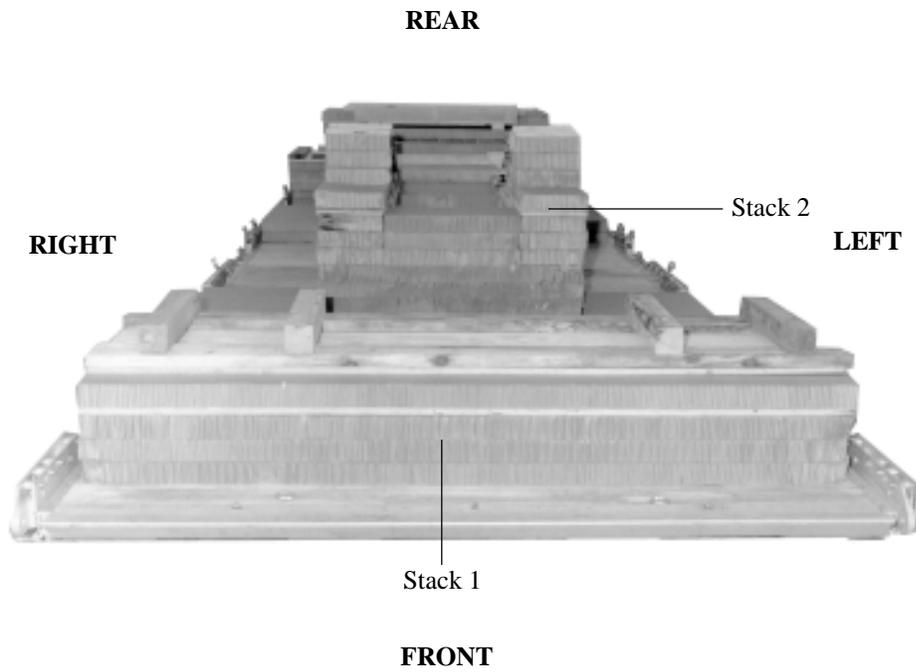


Figure 6-7. Front view of honeycomb stacks positioned on platform

6-4. Preparing Scoop-Loader

Prepare the scoop-loader according to paragraph 4-4 and as shown in Figures 4-18 through 4-22. Prepare the rear axle using two 15-foot lashings as shown in Figure 6-8.



- ① Use two 15-foot lashings to keep wheels level.
- ② Connect one lashing to each side of the rear axle. Secure both lashings on top of the engine compartment with D-rings and a load binder.

Note: These lashings were installed for positioning purposes only. After scoop-loader has been positioned, remove the two 15-foot lashings.

Figure 6-8. Rear wheel axle prepared

6-5. Installing Lifting Slings

Install two 11-foot (4-loop), type XXVI nylon webbing slings and two 12-foot (4-loop), type XXVI nylon webbing slings for lifting slings. Bolt the sling to the scoop-loader as shown in Figure 6-9.

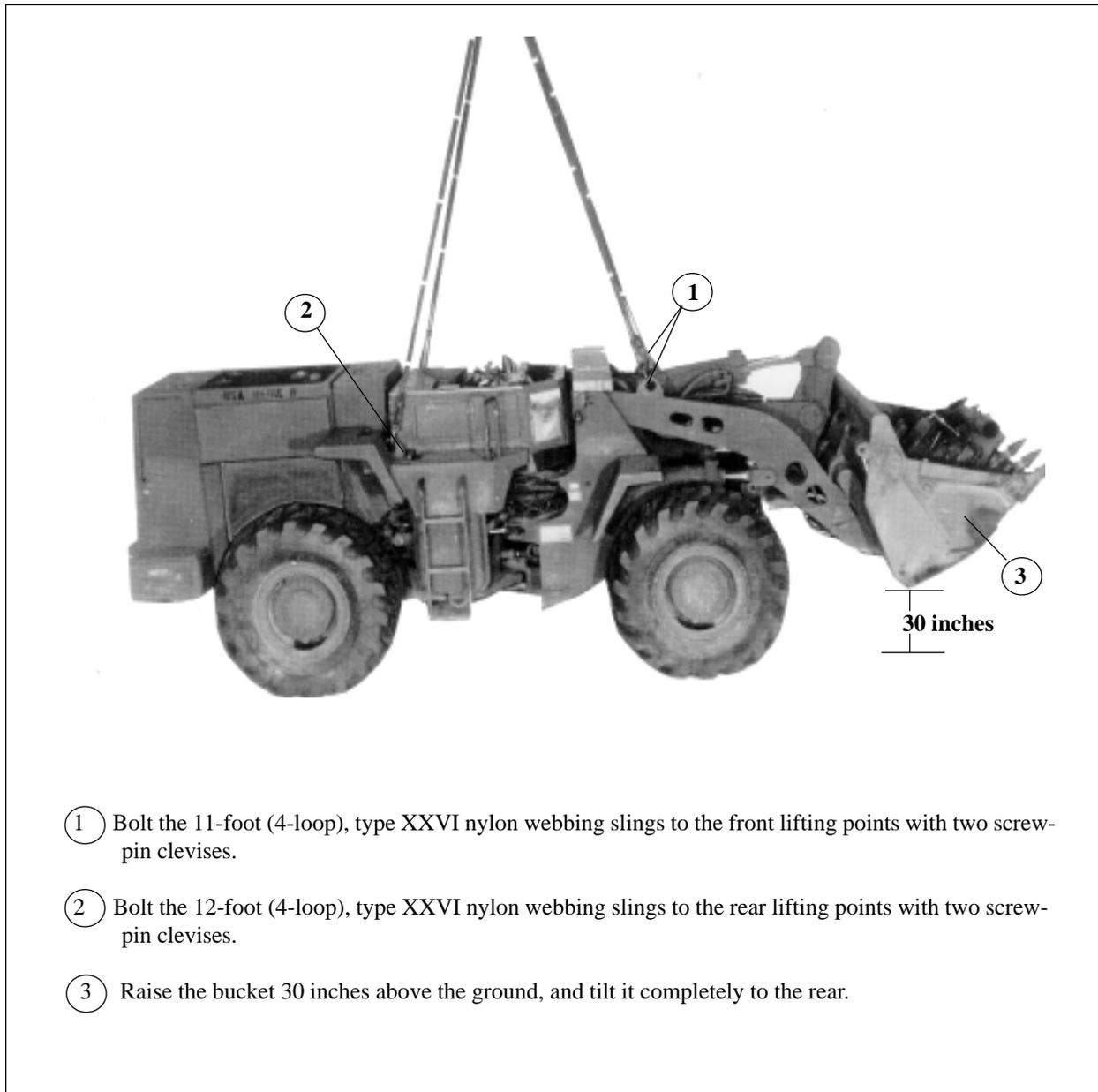
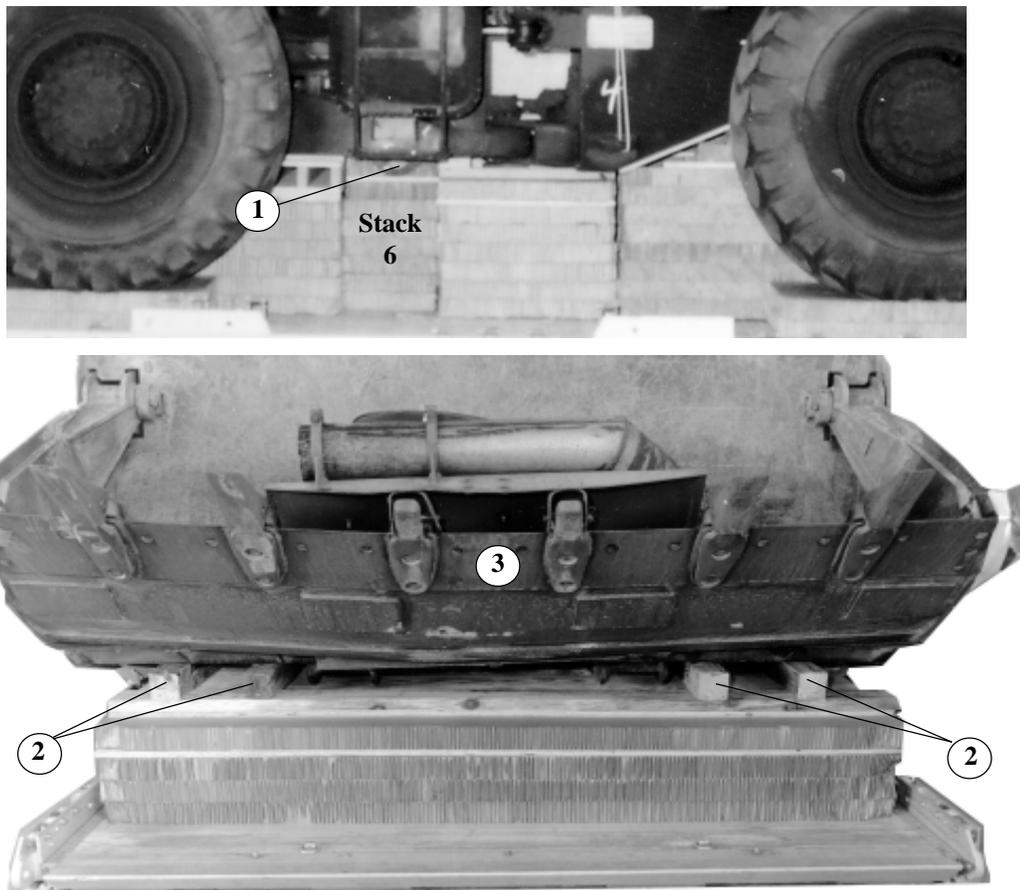


Figure 6-9. Lifting slings installed

6-6. Positioning Scoop-Loader

Position the scoop-loader on the platform stacks as shown in Figure 6-10.

CAUTION
The bucket must be centered between the platform side rails with a 9-inch overhang to the front.



- ① Center the fifth tiedown provision on stack 6.
- ② Position and adjust four pieces of 4- by 4- by 26-inch lumber on stack 1 as shown above.
- ③ Lower the bucket onto stack 1. Make sure the bucket is moved to the full rear position.
- ④ Remove the lifting slings from the scoop-loader (not shown).

Note: Toenail the 4- by 4- by 26-inch pieces of lumber after the bucket is lowered.

Figure 6-10. Scoop-loader positioned

**6-7. Preparing Scoop-Loader
After Positioning**

After the scoop-loader has been positioned on the platform, prepare it according to paragraph 4-7 and as shown in Figure 4-25.

**6-8. Preparing and Positioning Honeycomb Stacks
for Lifting Forks**

Prepare and position honeycomb stacks for lifting forks as shown in Figure 6-11.

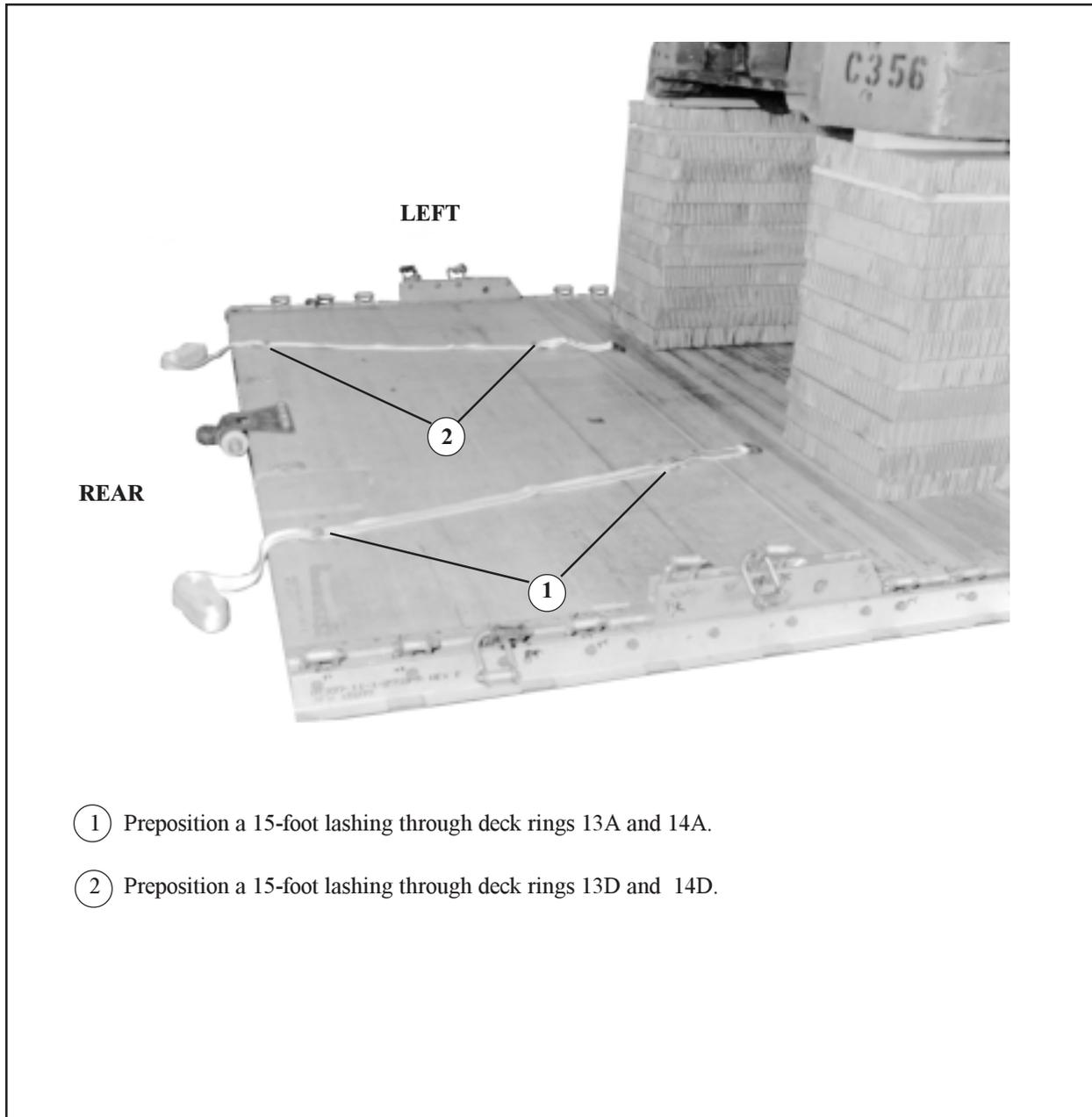
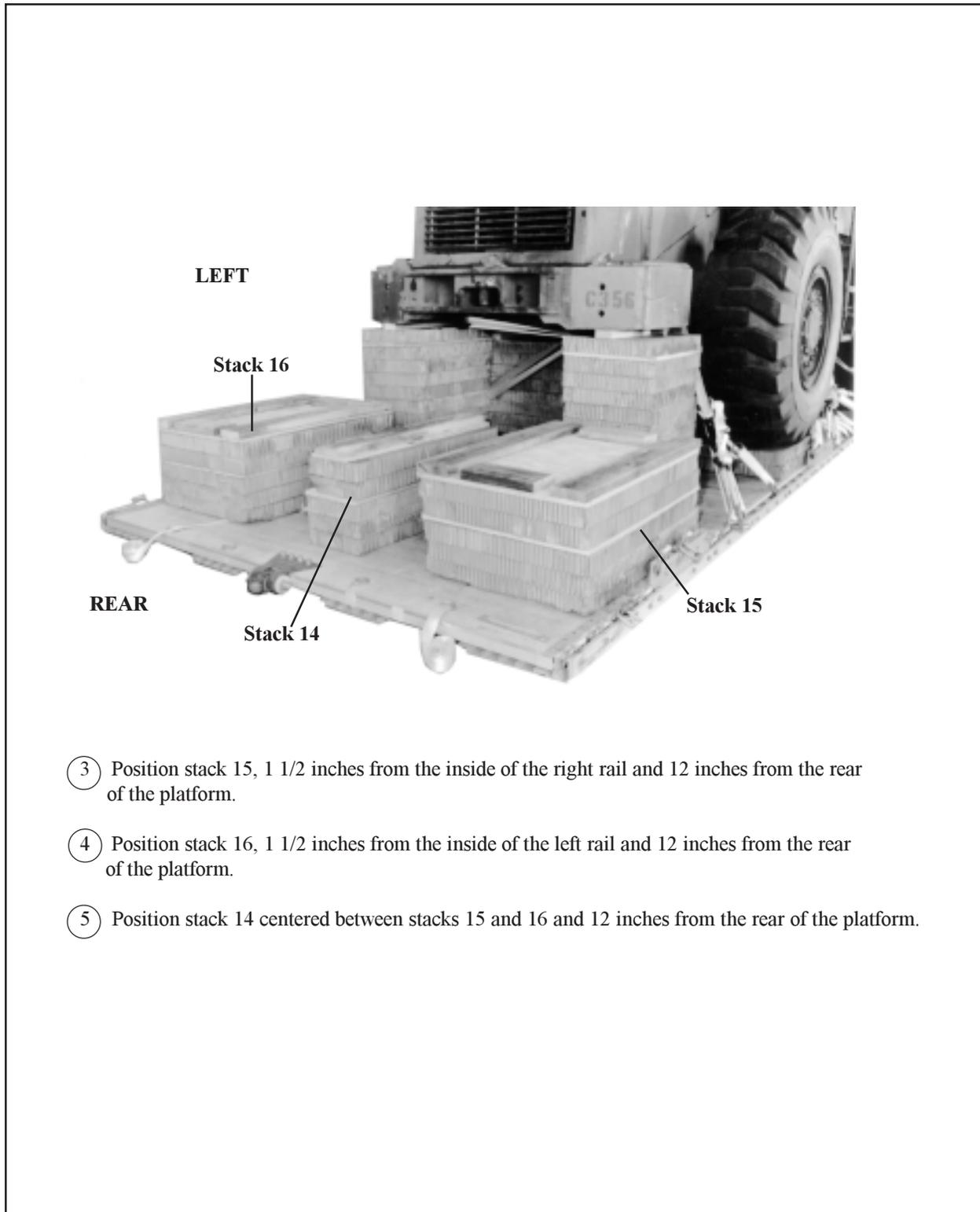
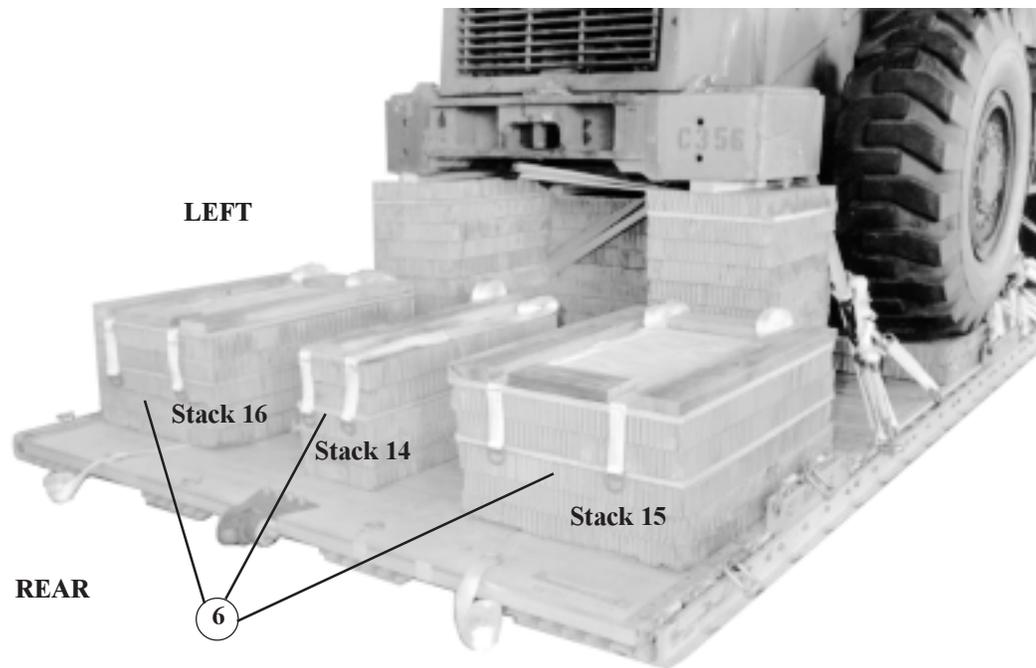


Figure 6-11. Honeycomb stacks for lifting fork positioned



- ③ Position stack 15, 1 1/2 inches from the inside of the right rail and 12 inches from the rear of the platform.
- ④ Position stack 16, 1 1/2 inches from the inside of the left rail and 12 inches from the rear of the platform.
- ⑤ Position stack 14 centered between stacks 15 and 16 and 12 inches from the rear of the platform.

Figure 6-11. Honeycomb stacks for lifting forks positioned (continued)

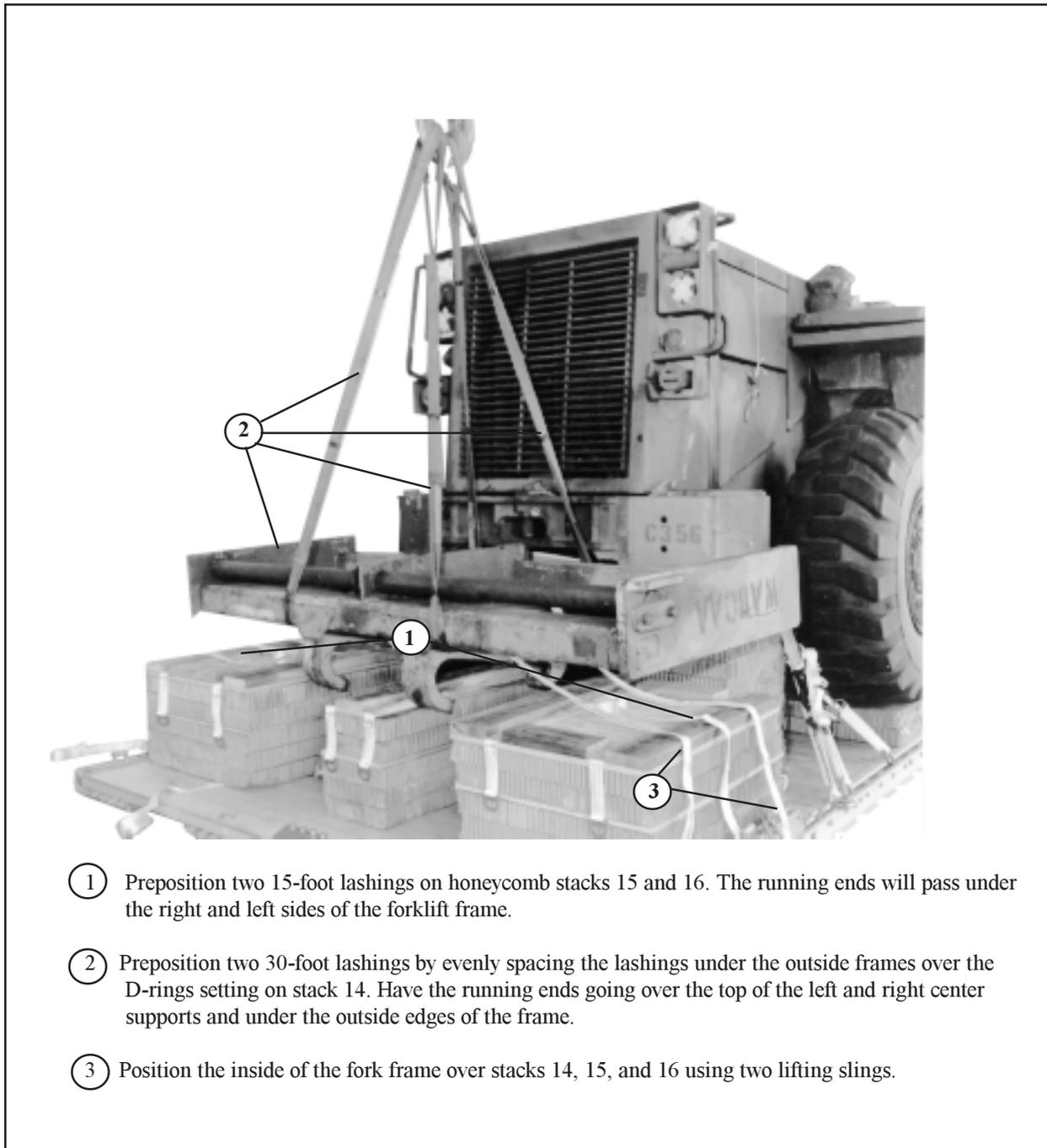


- ⑥ Preposition six 15-foot lashings on stacks 14, 15 and 16 as shown above.

Figure 6-11. Honeycomb stacks for lifting forks positioned (continued)

6-9. Positioning Lifting Fork Frame

Position the lifting fork frame on the honeycomb stacks as shown in Figure 6-12.

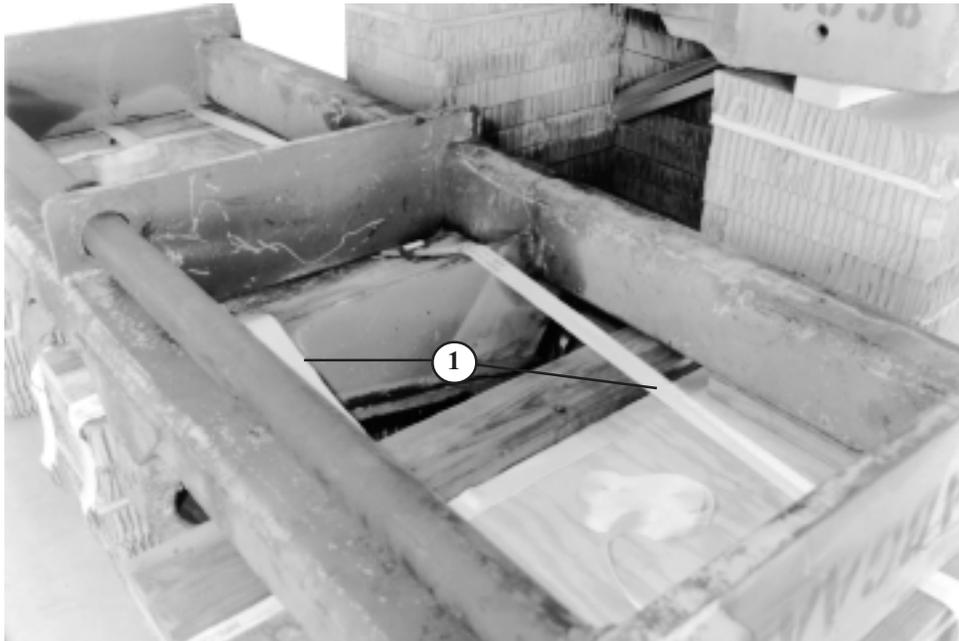


- ① Preposition two 15-foot lashings on honeycomb stacks 15 and 16. The running ends will pass under the right and left sides of the forklift frame.
- ② Preposition two 30-foot lashings by evenly spacing the lashings under the outside frames over the D-rings setting on stack 14. Have the running ends going over the top of the left and right center supports and under the outside edges of the frame.
- ③ Position the inside of the fork frame over stacks 14, 15, and 16 using two lifting slings.

Figure 6-12. Fork frame positioned

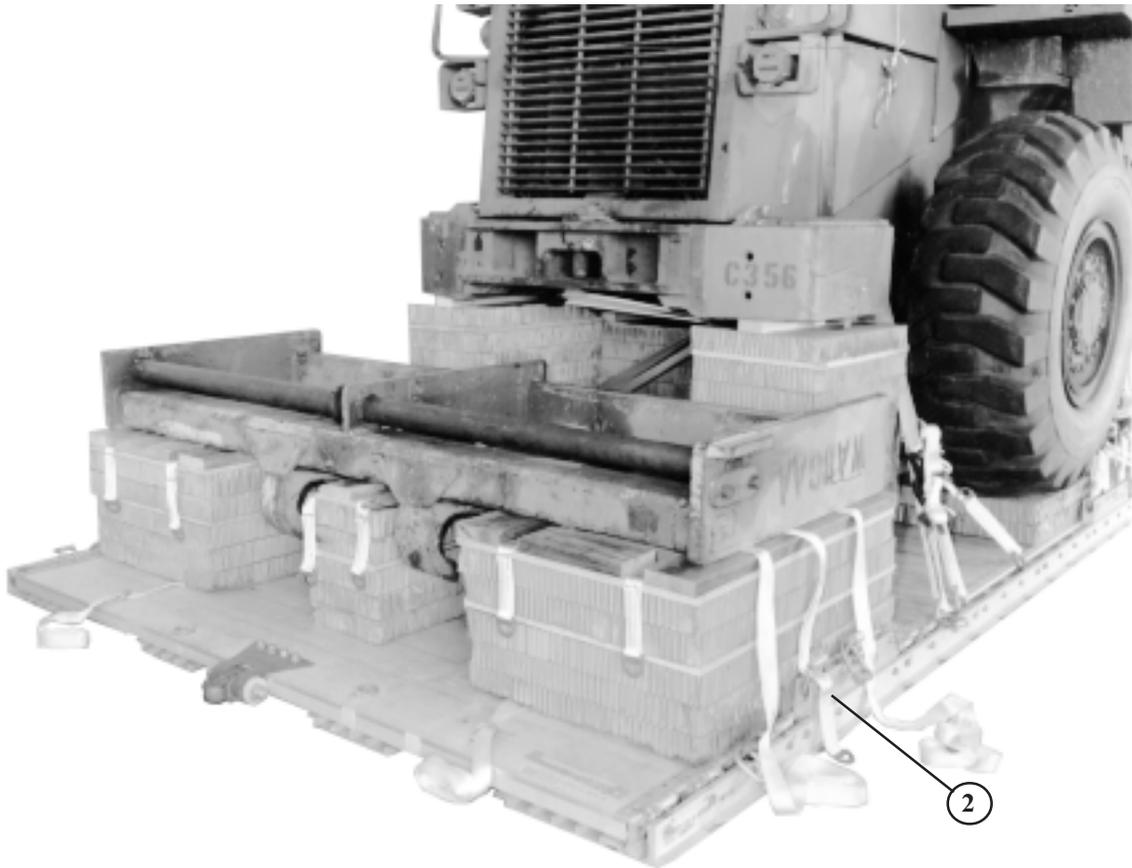
6-10. Lashing Lifting Fork Frame

Lash the lifting fork frame as shown in Figure 6-13.



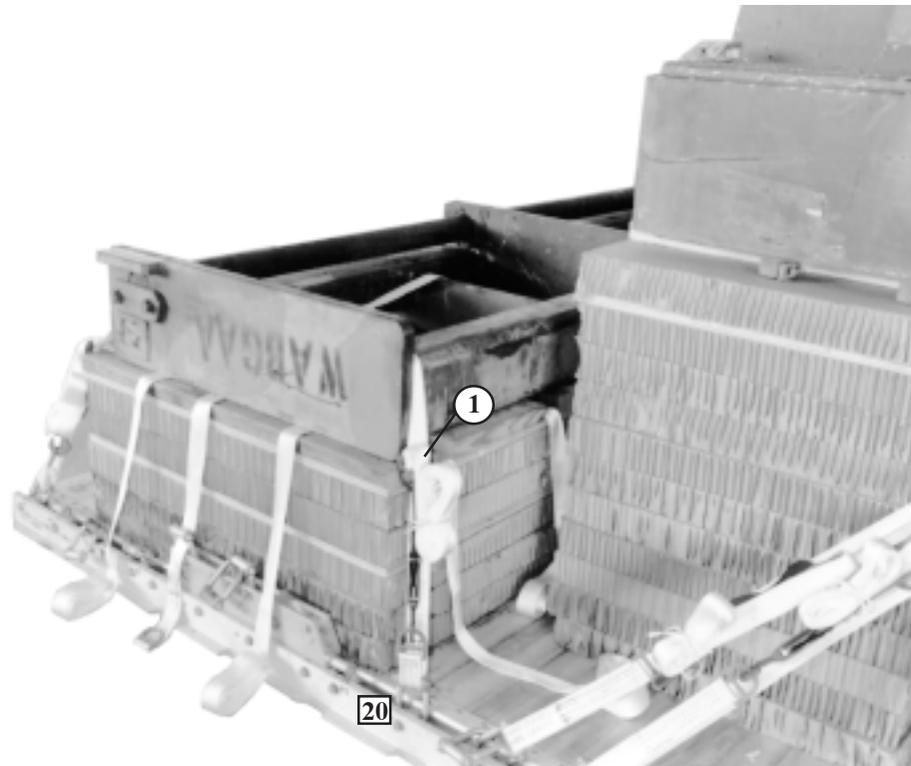
- 1 Ensure the two 30-foot lashings are routed under the outside frames and over the permanent steel beam and under the movable metal support.

Figure 6-13. Lifting fork frame lashed



- ② Preposition a 15-foot lashing through clevis 24. The running end will pass under the right side of the forklift frame and lay on top of stack 15.
- ③ Preposition a 15-foot lashing through clevis 24A. The running end will pass under the left side of the forklift frame and lay on top of stack 16 (not shown).

Figure 6-13. Lifting fork frame lashed (continued)



Lashing Number	Tiedown Clevis Number	Instructions
1	20	Pass lashing around: Fork frame, front right side. Fork frame, front left side. Fork frame, rear right side. Fork frame, rear left side.
2	20A	
3	29	
4	29A	

Figure 6-13. Lifting fork frame lashed (continued)

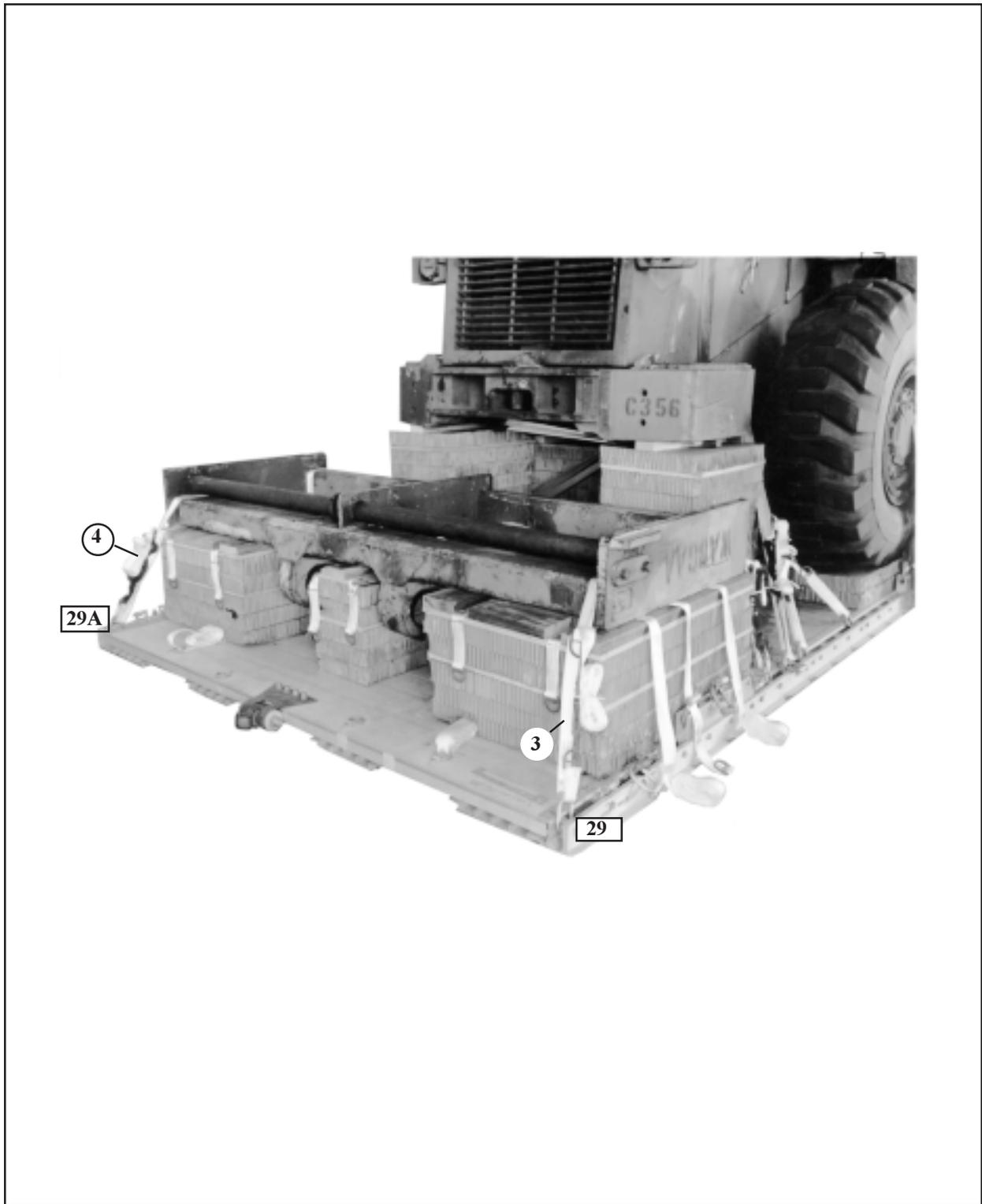


Figure 6-13. Lifting fork frame lashed (continued)

- ① Build a fork support board as shown in diagram and position it on top of the frame.
- ② Run the prepositioned 15-foot lashings up through the right and left holes in the support board.

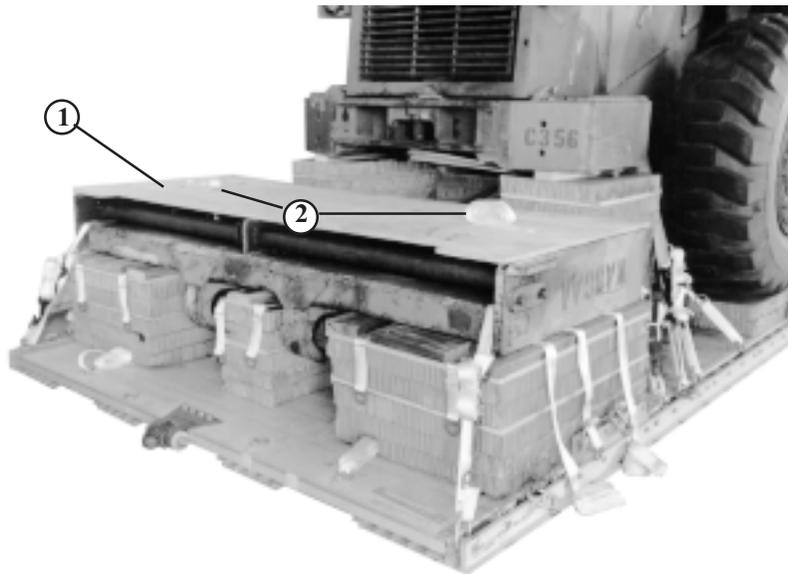
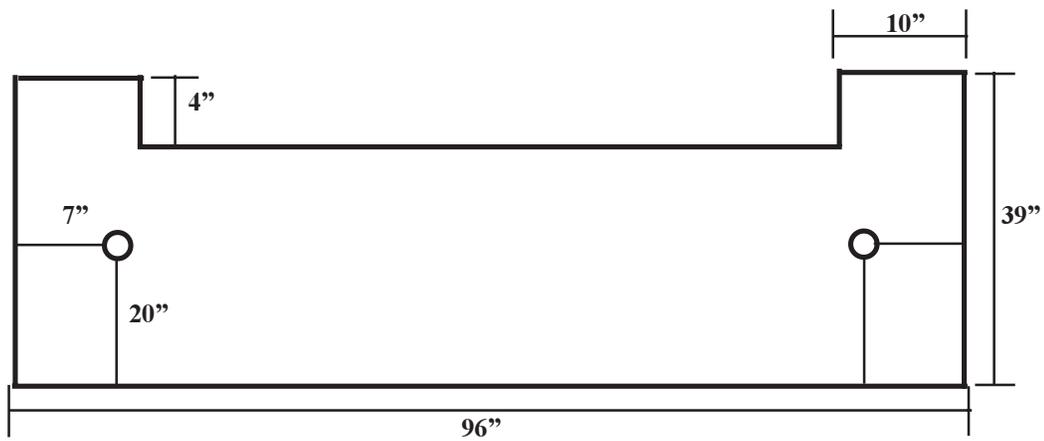


Figure 6-13. Lifting fork frame lashed (continued)

6-11. Hoisting Lifting Forks

Hoist lifting forks using three 15-foot lashings as shown in Figure 6-14.



- ① Lift forks using three 15-foot lashings on all three points of each lifting fork.
- ② Wrap each lashing one turn through the eye of the fork, the heel of the fork and center of the fork.

Note: Leave lashings on for recovery purposes.

Figure 6-14. Lifting forks hoisted

6-12. Positioning Lifting Forks

Position lifting forks on support board as shown in Figure 6-15.

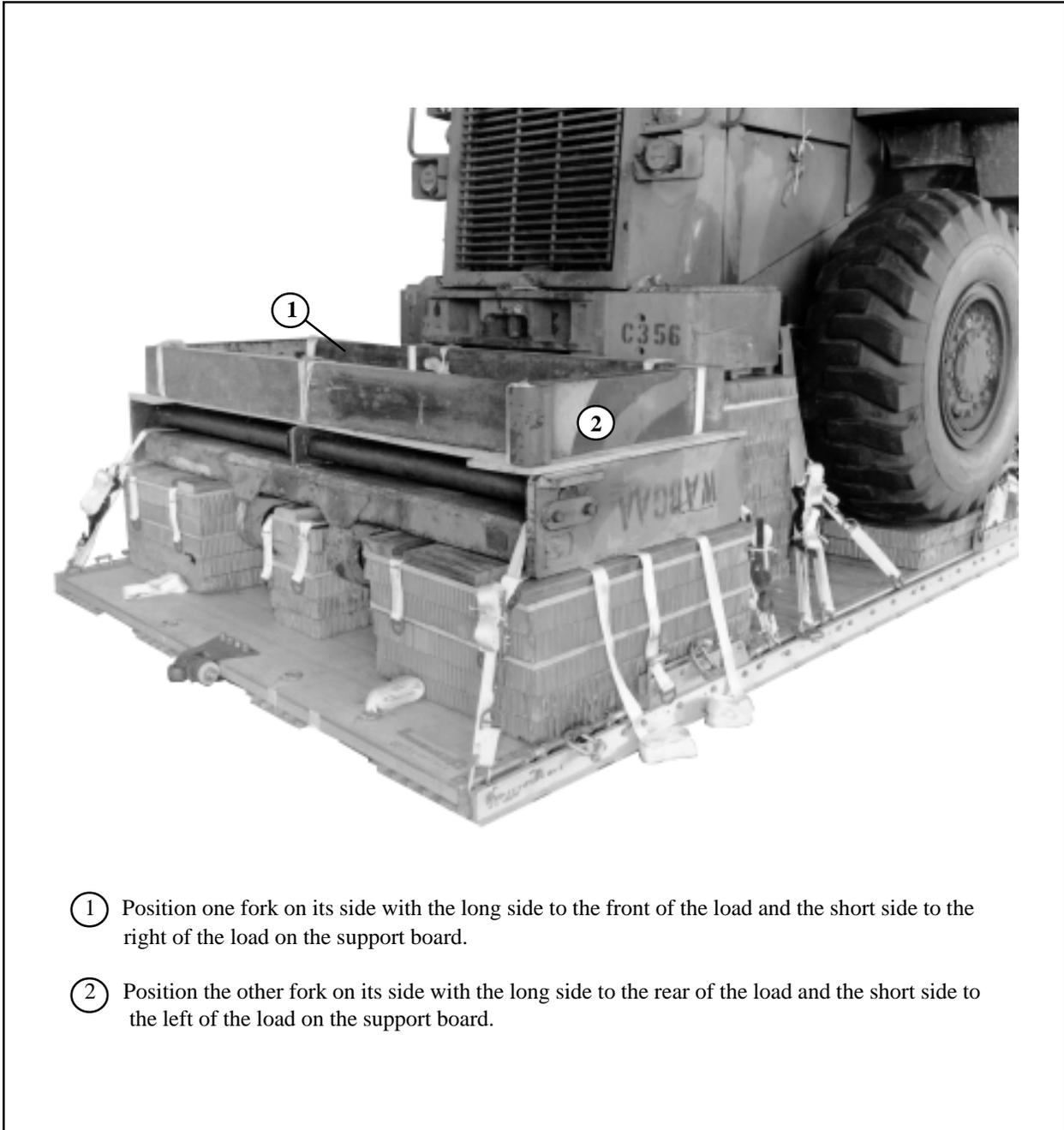
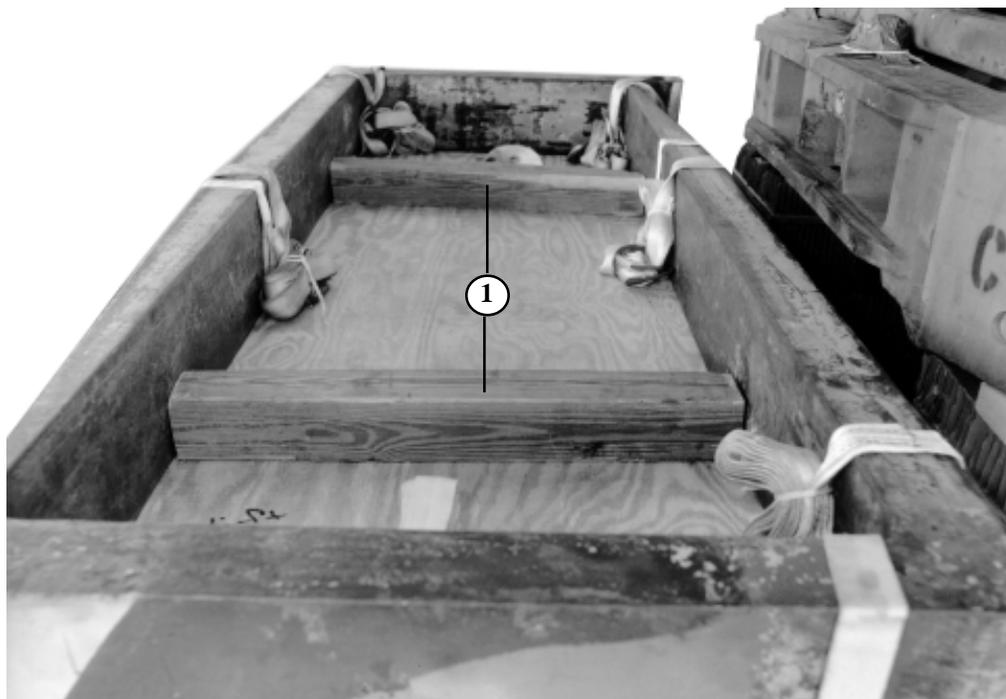


Figure 6-15. Lifting forks positioned

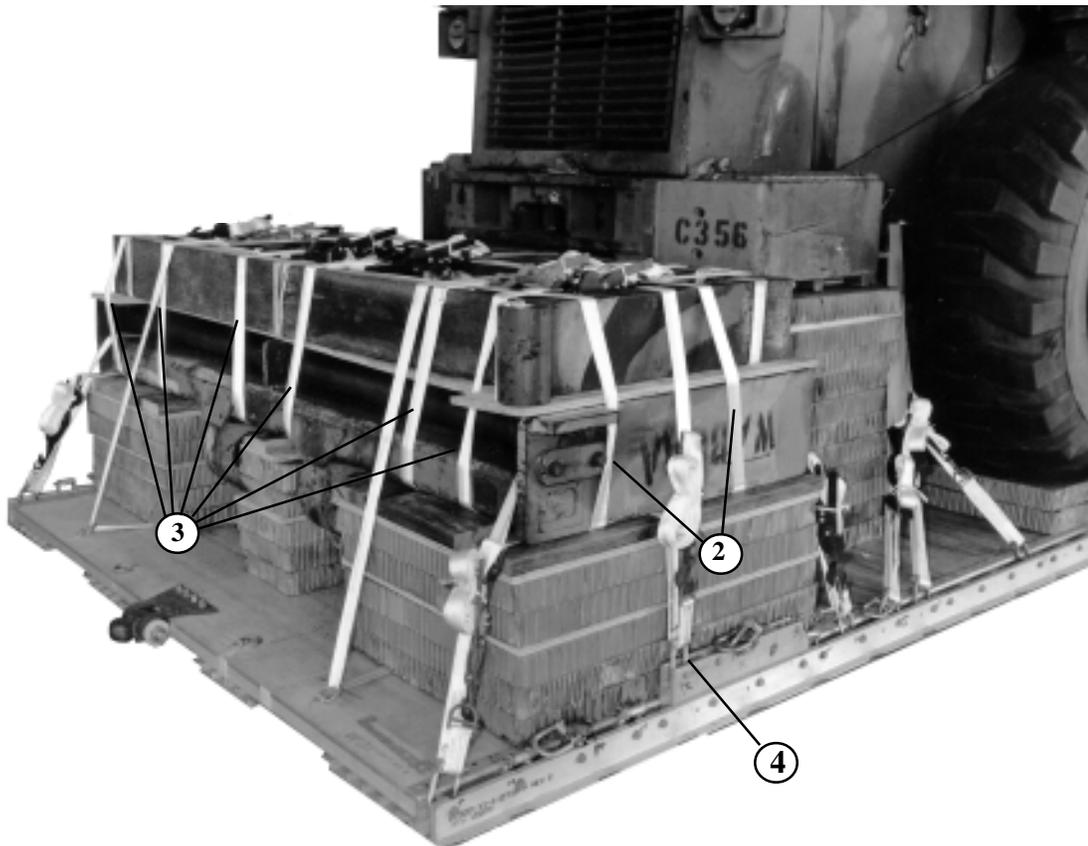
6-13. Securing Lifting Forks

Secure lifting forks as shown in Figure 6-16.



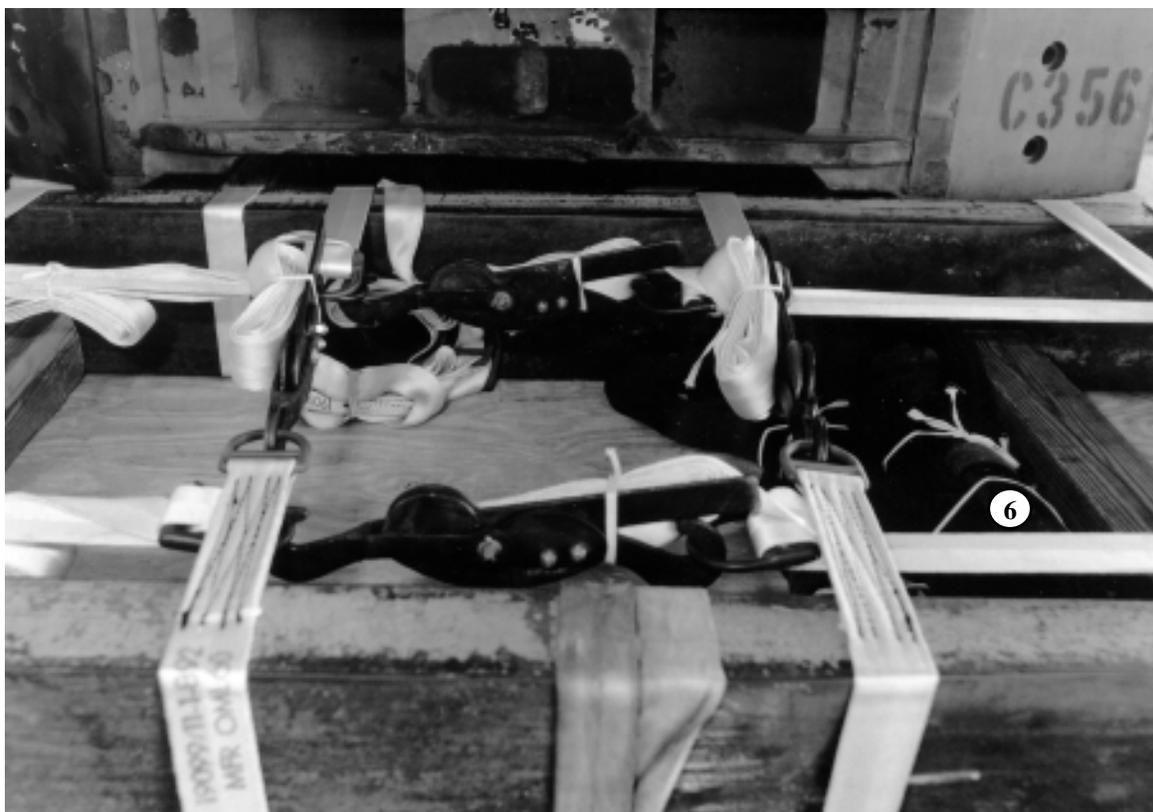
- ① Place two 28-inch 4x4 pieces of lumber between the two forks to space them apart.

Figure 6-16. Lifting forks secured



- ② Secure the two 30-foot prepositioned lashings located under the fork frame on top of the forks.
- ③ Secure the six prepositioned 15-foot lashings located on top of stacks 14, 15, and 16 on top of the forks.
- ④ Take the running end of the lashing that runs through clevis 24 over the right side of the fork and secure it to the side load.
- ⑤ Take the running end of the lashing through clevis 24A over the left side of the fork and secure it to the side of the load (not shown).

Figure 6-16. Lifting forks secured (continued)

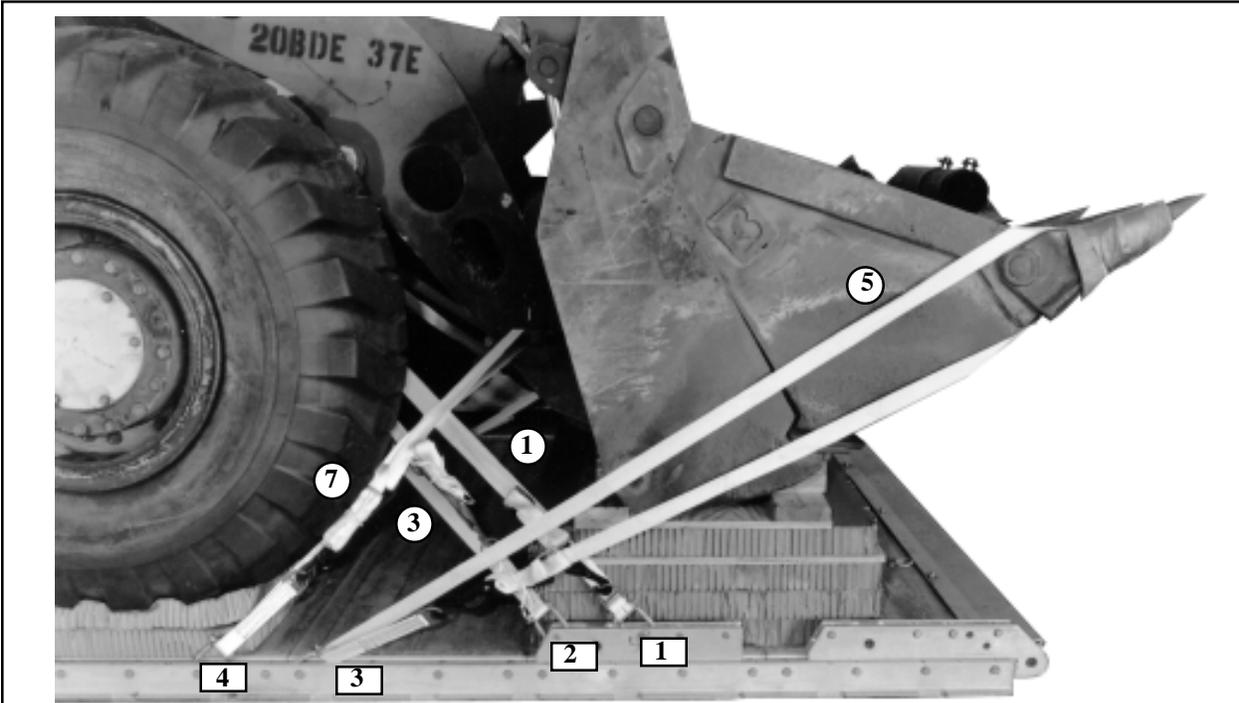


- ⑥ Place two 12-foot (2-loop) lifting slings inside the space between the forks to be used in the load recovery.

Figure 6-16. Lifting forks secured (continued)

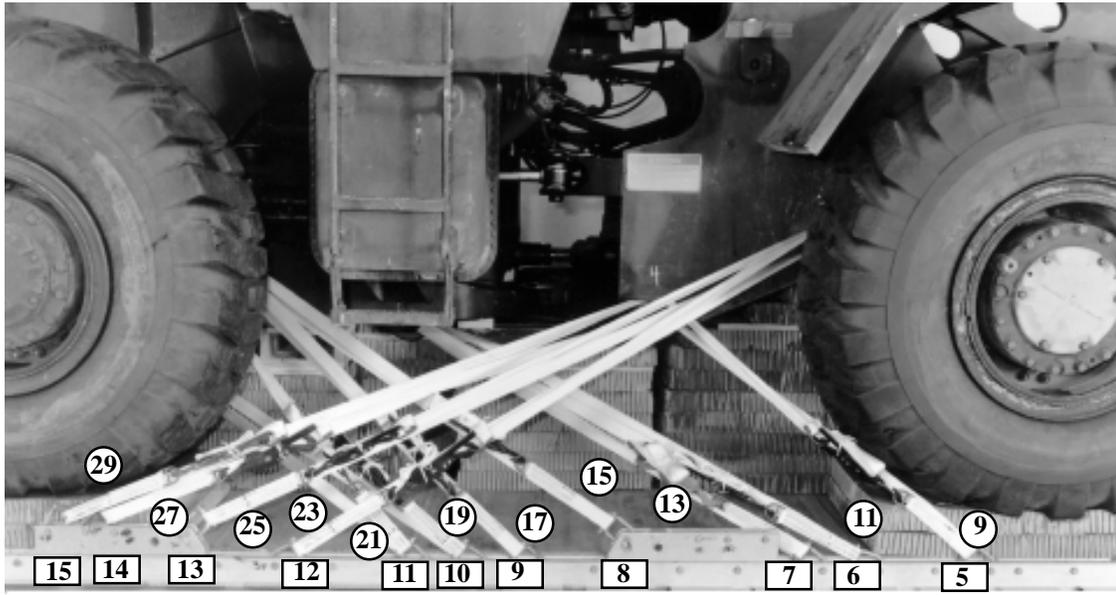
6-14. Lashing Scoop-Loader to the Platform

Lash the scoop-loader to the platform as shown in Figure 6-17.



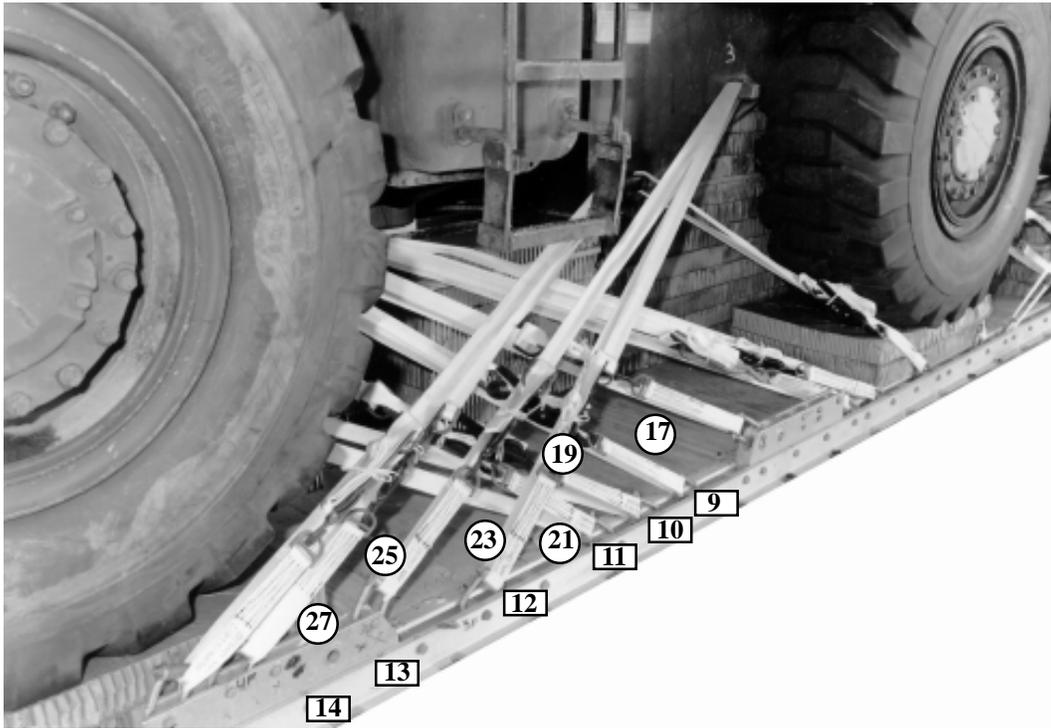
Lashing Number	Tiedown Clevis Number	Instructions
<p>1 2 3 4 5 6 7 8</p>	<p>1 1A 2 2A 3 3A 4 4A</p>	<p>Pass lashing through:</p> <p>Front lifting point, right side. Front lifting point, left side. Tiedown point 2, right side. Tiedown point 2, left side. Around the corner of the bucket, right side . Around the corner of the bucket, left side. Tiedown point 1, right side. Tiedown point 1, left side.</p>

Figure 6-17. Lashings 1 through 8 installed



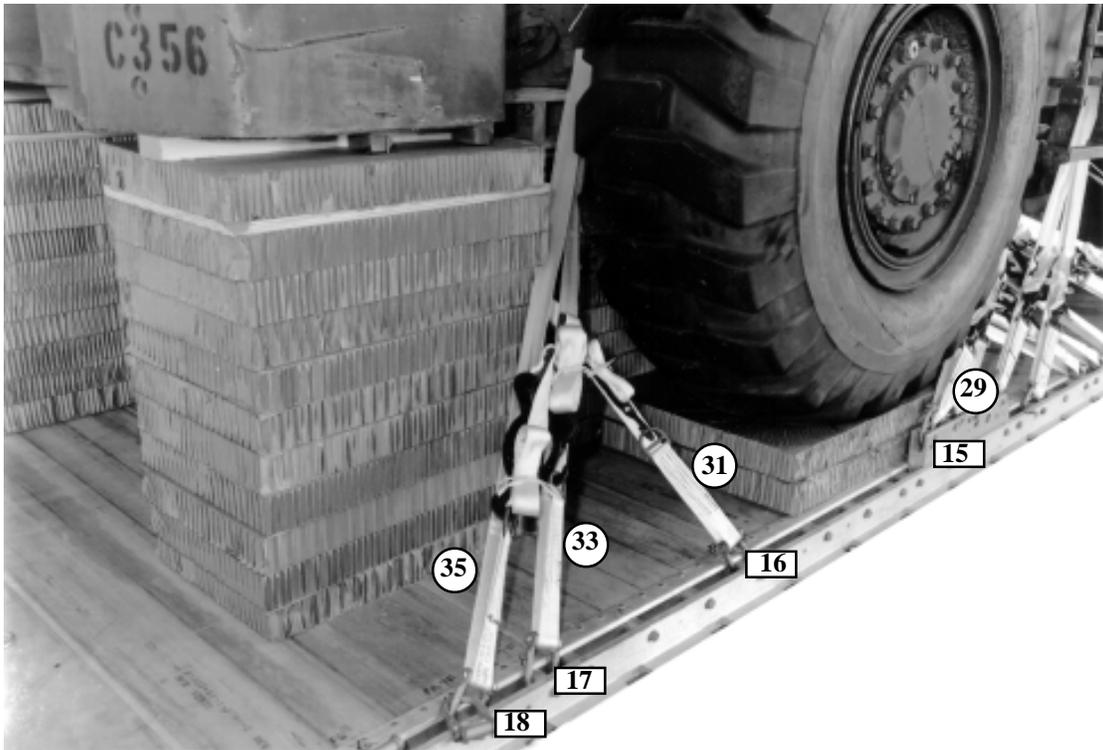
Lashing Number	Tiedown Clevis Number	Instructions
9 10 11 12 13 14 15 16	5 5A 6 6A 7 7A 8 8A	Pass lashing through: Tiedown point 4, right side Tiedown point 4, left side. Tiedown point 5, right side. Tiedown point 5, left side. Tiedown point 5, right side. Tiedown point 5, left side. Tiedown point 5, right side. Tiedown point 5, left side.

Figure 6-17. Lashings 9 through 16 installed (continued)



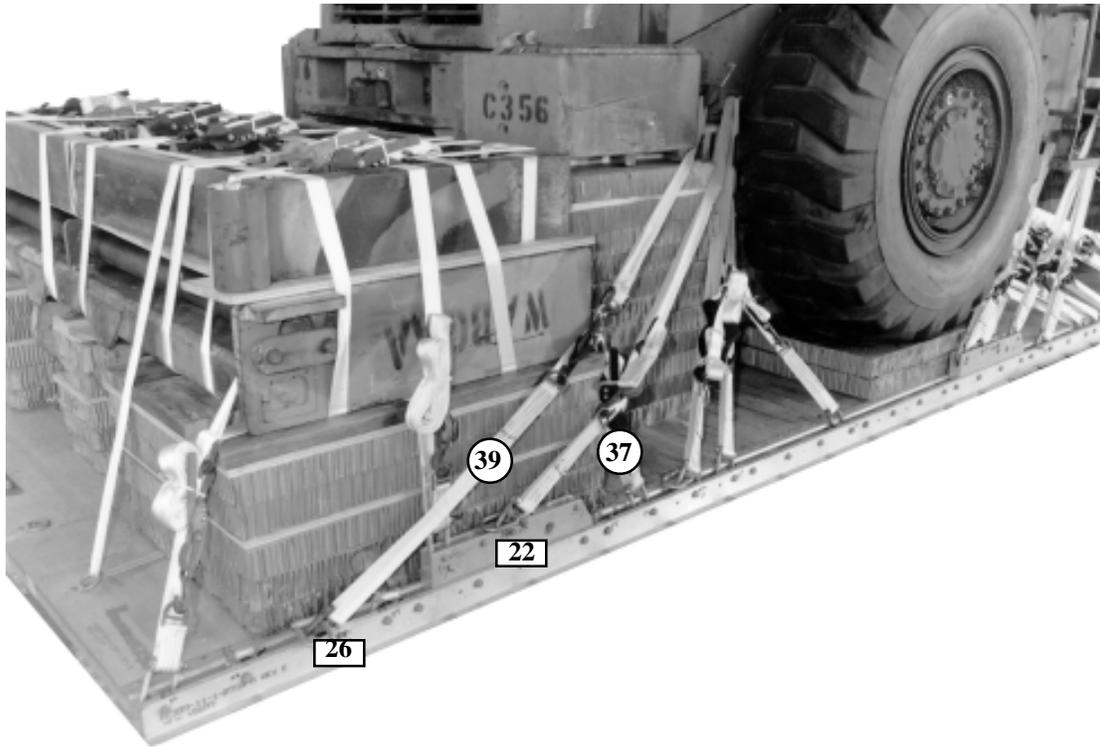
Lashing Number	Tiedown Clevis Number	Instructions
17 18 19 20 21 22 23 24 25 26 27 28	9 9A 10 10A 11 11A 12 12A 13 13A 14 14A	Pass lashing through: Tiedown point 6, right side. Tiedown point 6, left side. Tiedown point 7, right side. Tiedown point 7, left side. Tiedown point 7, right side. Tiedown point 7, left side. Tiedown point 3, right side. Tiedown point 3, left side. Tiedown point 3, right side. Tiedown point 3, left side. Tiedown point 4, right side. Tiedown point 4, left side.

Figure 6-17. Lashings 17 through 28 installed (continued)



Lashing Number	Tiedown Clevis Number	Instructions
29	15	Pass lashing through: Tiedown point 4, right side.
30	15A	Tiedown point 4, left side.
31	16	Tiedown point 8, left side.
32	16A	Tiedown point 8, right side.
33	17	Tiedown point 7, right side.
34	17A	Tiedown point 7, left side.
35	18	Tiedown point 7, right side.
36	18A	Tiedown point 7, left side.

Figure 6-17. Lashings 29 through 36 installed (continued)

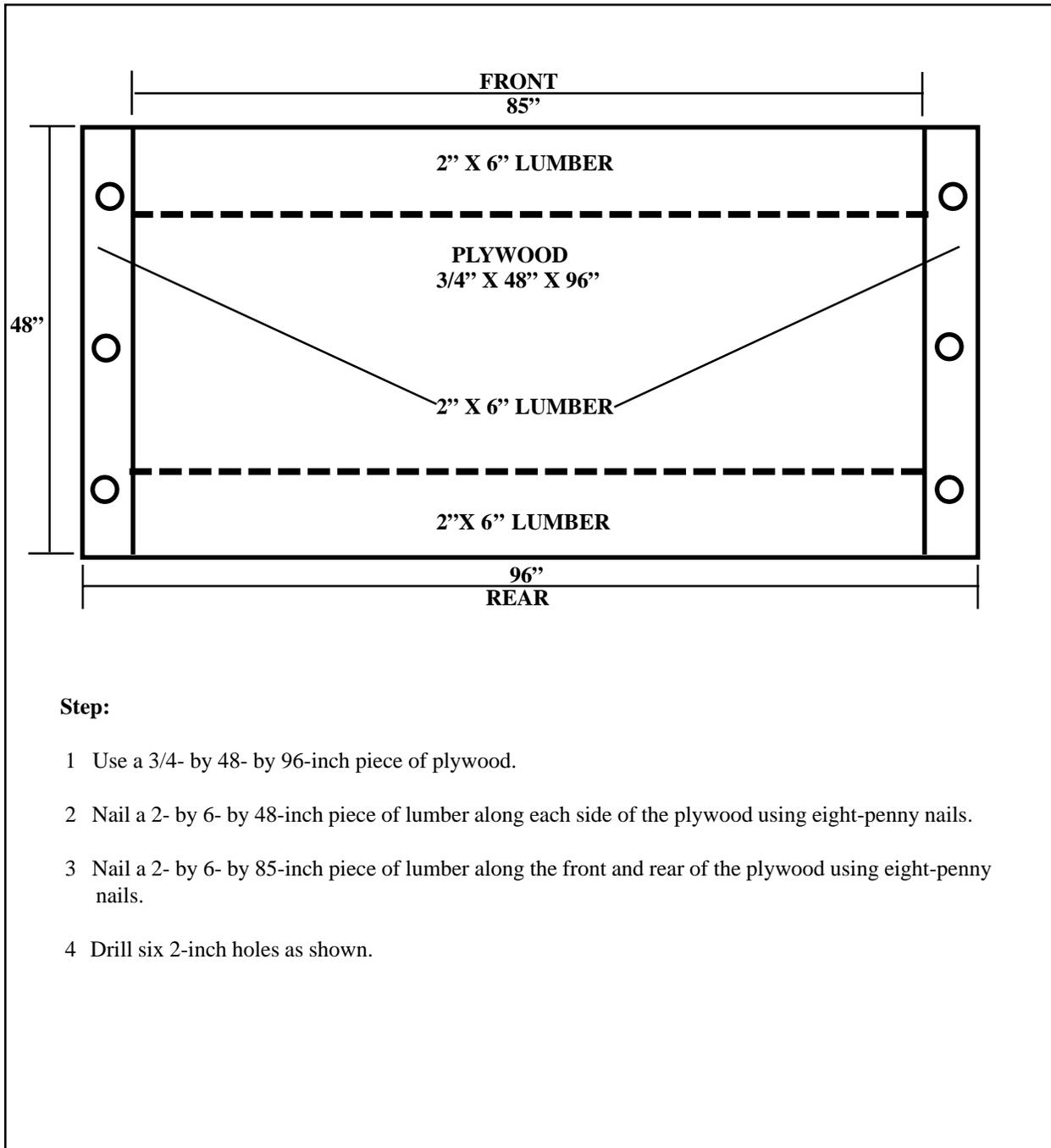


Lashing Number	Clevis Number	Instructions
37	22	Pass lashing through: Tiedown point 7, right side. Tiedown point 7, left side. Tiedown point 7, right side. Tiedown point 7, left side.
38	22A	
39	26	
40	26A	

Figure 6-17. Lashings 37 through 40 installed (continued)

6-15. Building the Parachute Stowage Platform

Build the parachute stowage platform as shown in Figure 6-18.



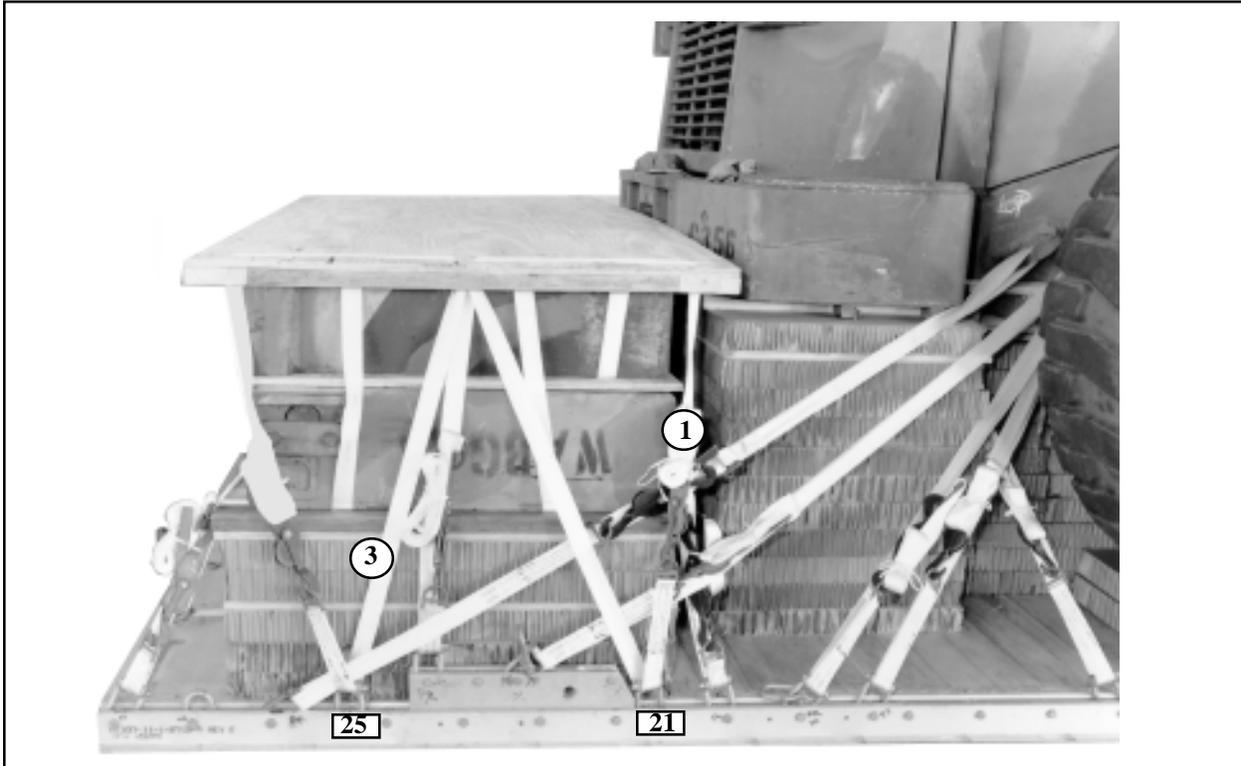
Step:

- 1 Use a 3/4- by 48- by 96-inch piece of plywood.
- 2 Nail a 2- by 6- by 48-inch piece of lumber along each side of the plywood using eight-penny nails.
- 3 Nail a 2- by 6- by 85-inch piece of lumber along the front and rear of the plywood using eight-penny nails.
- 4 Drill six 2-inch holes as shown.

Figure 6-18. Parachute stowage platform built

6-16. Installing the Parachute Stowage Platform

Install the parachute stowage platform as shown in Figure 6-19.



Lashing Number	Tiedown Clevis Number	Instructions
<p>1 2 3 4</p>	<p>21 21A 25 25A</p>	<p>Pass lashing through:</p> <p>Center and forward hole in platform, right side. Center and forward hole in platform, left side. Center and aft hole in platform, right side. Center and aft hole in platform, left side.</p>

Figure 6-19. Parachure stowage platform installed

6-17. Stowing Cargo Parachutes

Stow eight G-11 cargo parachutes on the load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 6-20.

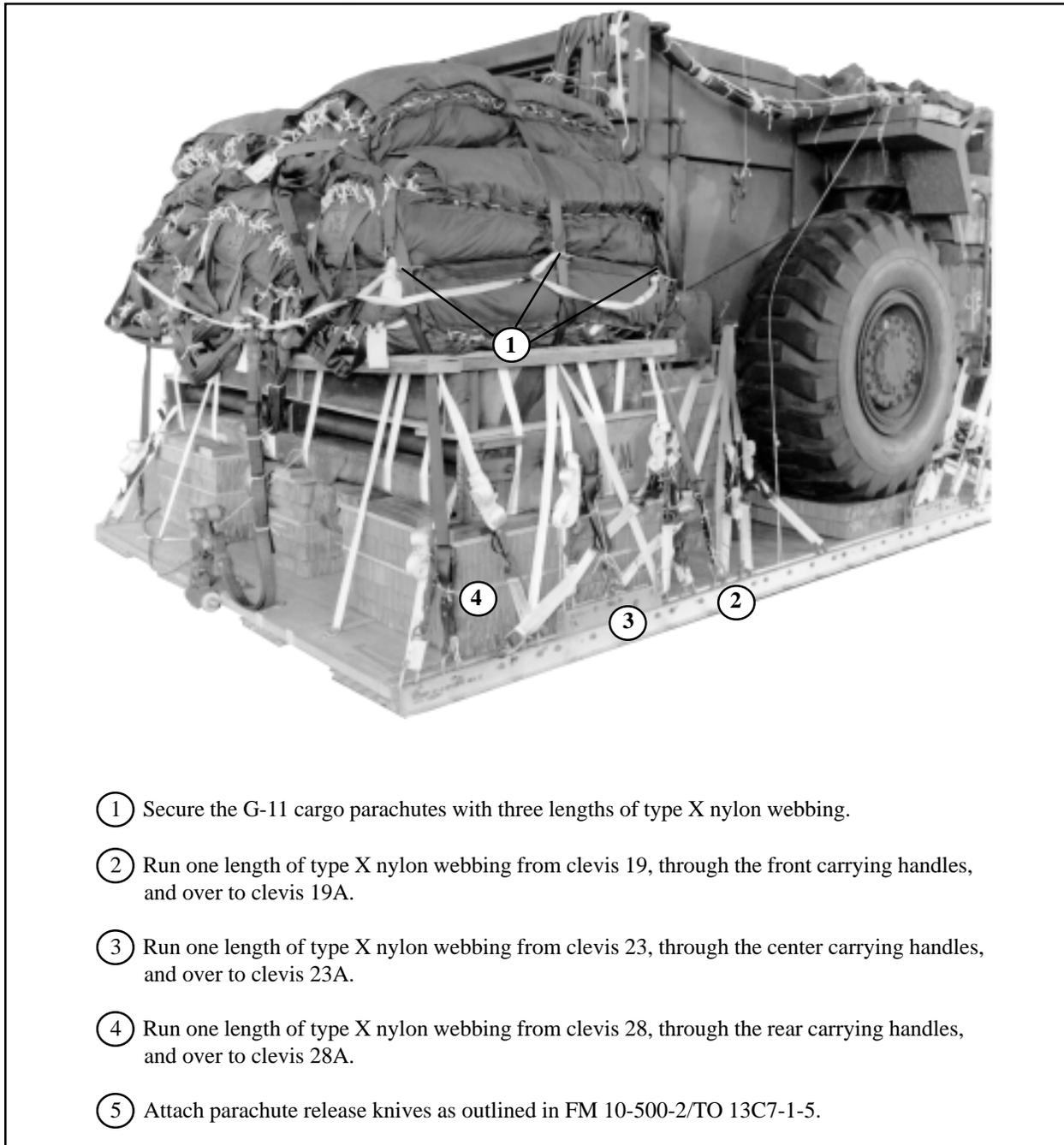


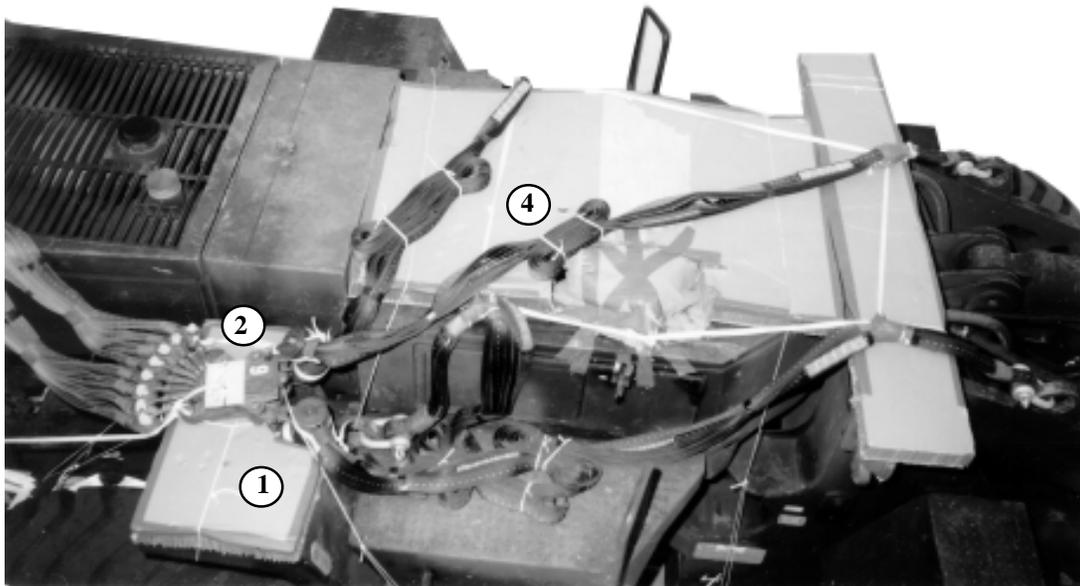
Figure 6-20. Cargo parachutes stowed

6-18. Installing M-2 Parachute Release Assembly

Install the M-2 parachute release assembly (modified for 42,000 pound capacity) according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 6-21.

CAUTION

Make sure the modified M-2 parachute release includes these strengthened items: one reinforced toggle shaft, four hardened sleeve bolts, four 2 3/8-inch steel spacers, and two hardened clevis bolts with sleeves.



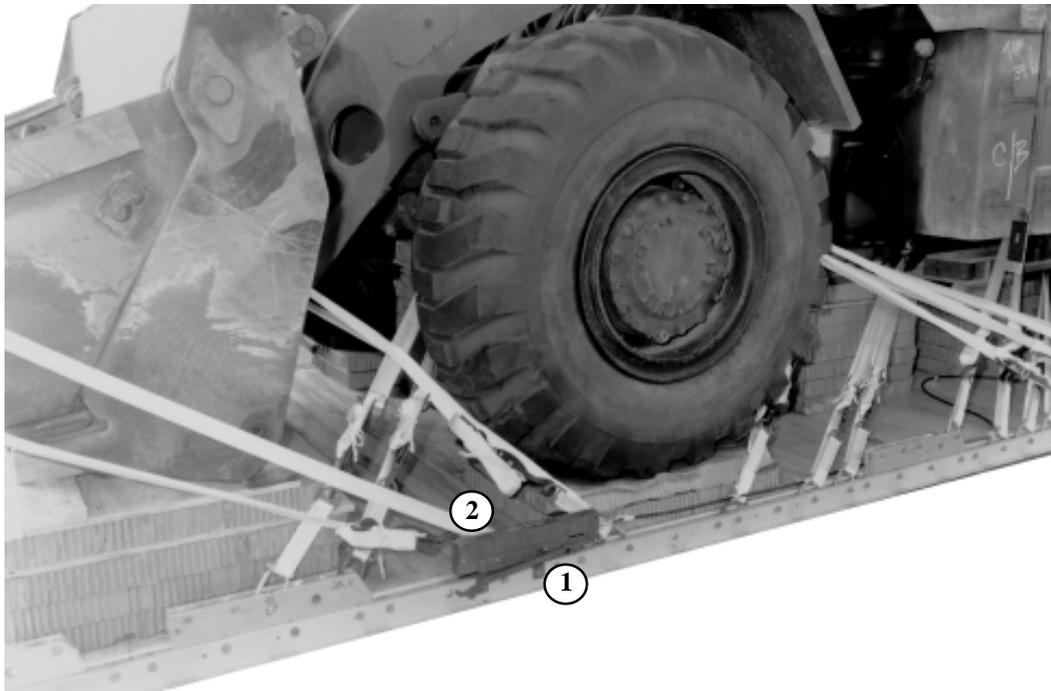
- ① Tie a piece of honeycomb on the right rear fender.
- ② Place the modified M-2 parachute release assembly on the honeycomb.
- ③ Safety the riser extension between the rear handle and over the right rear taillight assembly with type I, 1/4-inch cotton webbing (not shown).
- ④ Route the suspension slings to the right side of the scoop-loader. Safety the suspension sling keepers according to FM 10-500-2/TO 13C7-1-5.

NOTE: Some riser extension stows may have to be cut to allow the riser extension to reach the release.

Figure 6-21. M-2 release assembly installed

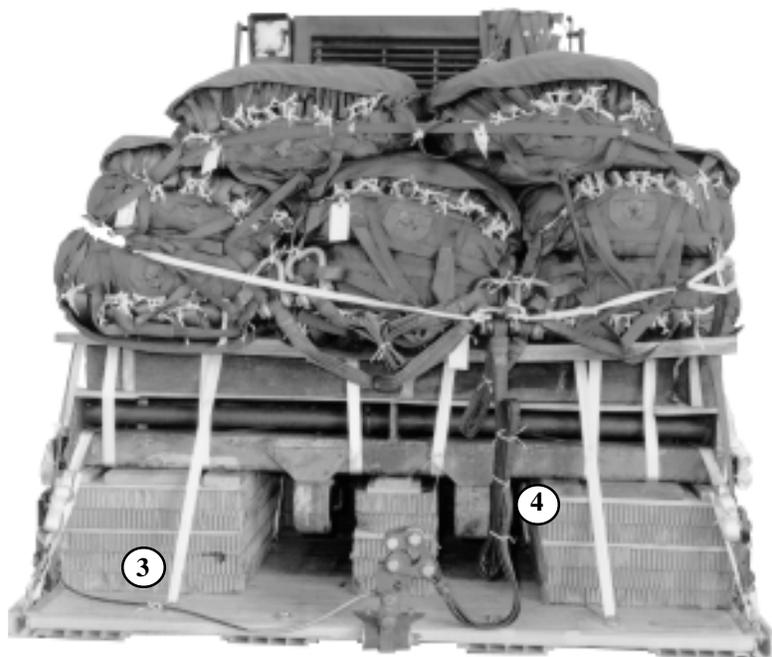
6-19. Installing Extraction System

Install the extraction system according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 6-22.



- ① Bolt the actuator bracket to the second set of EFTC bracket holes on the left platform side rail.
- ② Attach a 28-foot release cable to the actuator assembly. Install the actuator assembly to the actuator bracket.

Figure 6-22. Extraction system installed



- ③ Safety cable to tiedown ring 14B with type I, 1/4-inch cotton webbing.
- ④ Use a 9-foot (2-loop), type XXVI nylon webbing sling for a deployment line. S-fold and tie the excess line with type I, 1/4-inch cotton webbing.

Figure 6-22. Extraction system installed (continued)

6-20. Installing Provisions for Emergency Restraints

Select and install provisions for the emergency aft restraints according to the emergency aft restraints requirements table in FM10-500-2/TO 13C7-1-5.

6-21. Placing Extraction Parachute

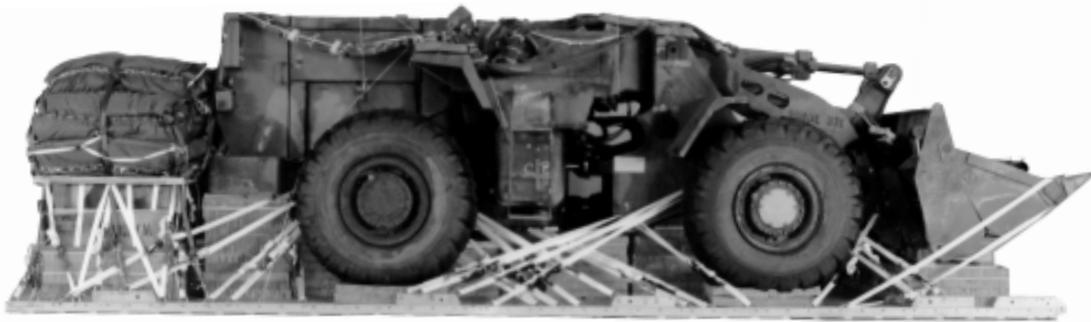
Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 10-500-2/TO 13C7-1-5. Place the line on the load for installation in the aircraft.

6-22. Marking Rigged Load

Mark rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 6-21.

Complete Shipper's Declaration for Dangerous Goods form. If the load varies from the one shown, the weight, height, CB tip off curve, and parachute requirement must be recomputed.

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.....	39,860 pounds
MAXIMUM WEIGHT ALLOWED.....	41,060 pounds
HEIGHT.....	100 inches
WIDTH.....	108 inches
LENGTH.....	349 inches
OVERHANG: FRONT.....	13 to 17 inches
CENTER OF BALANCE.....	from the front edge of the platform: 166 inches

Figure 6-21. 950B Scoop-loader rigged for low-velocity airdrop

6-23. Equipment Required

Use the equipment listed in Table 6-1 to rig the 950B scoop-loader.

Table 6-1. Equipment required for rigging the 950B scoop-loader with a seven-foot forklift attachment for low-velocity airdrop on a type V platform.

National Stock Number	Item	Quantity
1670-00-162-4979	Adapter , link assembly	1
8040-00-273-8713	Adhesive, paste, 1-gal	As required
	Clevis, suspension:	
4030-00-432-2516	Screw-pin	4
4030-00-678-8562	3/4-in (med)	4
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-01-326-7309	Coupling, airdrop, extraction force	
1670-00-157-6527	transfer w 28-ft cable	1
1670-00-360-0328	Cover, clevis, large	8
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
	Frame support for honeycomb stack 7:	1
5510-00-220-6146	Lumber, 2- by 4- by 48-in	6
5530-00-128-4981	Plywood, 3/4- by 6- by 28-in	2
	Plywood, 3/4- by 28- by 48-in	2
	Frame support for honeycomb stack 8:	1
5510-00-220-6146	Lumber, 2- by 4- by 27-in	6
	Plywood, 3/4- by 27- by 48-in	2
	Frame support for honeycomb stack 9:	1
5510-00-220-6146	Lumber, 2- by 4- by 48-in	3
5530-00-128-4981	Plywood, 3/4- by 14- by 48-in	2
1670-01-183-2678	Leaf, extraction line (line bag)	2
	Line, extraction:	
1670-01-064-4454	60- ft (6-loop), type XXVI nylon webbing (C-130 aircraft)	1
1670-01-062-6312	120- ft (6-loop), type XXVI nylon webbing (C-141 aircraft)	1
1670-00-006-2752	Link assembly, four point	1

Table 6-1. Equipment required for rigging the 950B scoop-loader with a seven-foot forklift attachment for low-velocity airdrop on a type V platform (continued).

National Stock Number	Item	Quantity
5510-00-220-6146	Lumber, 2-by 4-in: 12-in 14-in 28-in	4 2 4
5510-00-220-6148	Lumber, 2- by 6-in: 5-in 8-in 96-in	2 2 2
5510-00-220-6274	Lumber, 4- by 4- by 26-in	4
5315-00-010-4659	Nail, steel wire, common: 8d	As required
5315-00-010-4661	10d	As required
5315-00-010-4663	16d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb, 3-by 36- by 96-in: 12- by 7-in 12- by 12-in 12- by 13-in 12- by 22-in 12- by 24-in 12- by 39-in 12- by 51-in 12- by 68-in 18- by 28-in 24- by 36-in 28- by 15-in 36- by 60-in 48- by 10-in 48- by 12-in 48- by 14-in 48- by 27-in 48- by 28-in 96- by 36-in 12- by 41-in 28- by 41-in	39 sheets 2 2 2 2 3 12 6 1 22 8 8 1 1 5 10 7 13 4 4 5

Table 6-1. Equipment required for rigging the 950B scoop-loader with a seven-foot forklift attachment for low-velocity airdrop on a type V platform (continued).

National Stock Number	Item	Quantity
1670-01-016-7841	Parachute, cargo: G-11 C	8
1670-00-040-8135	28-ft, extraction, heavy duty	2
5530-00-128-4981	Parachute stowage platform: Plywood, 3/4-in: 48- by 96-in	1
5510-00-220-6148	Lumber, 2- by 6-in: 2- by 48-in 2- by 85-in	2 2
1670-01-162-2375	Platform, AD, type V, 28-ft: Bracket: Inside EFTA	1
1670-01-162-2374	Outside EFTA	1
1670-01-162-2372	Clevis, load tiedown	56
1670-01-162-2376	Extraction bracket assembly	1
1670-01-247-2389	Suspension link	8
1670-01-162-2381	Tandem link	2
5530-00-128-4981	Plywood, 3/4-in: 4- by 31-in 12- by 5-in 12- by 34-in 12- by 36-in 12- by 44-in 18- by 28-in 28- by 15-in 96- by 26-in 96- by 36-in	2 2 2 2 1 1 1 1

Table 6-1. Equipment required for rigging the 950B scoop-loader with a seven-foot forklift attachment for low-velocity airdrop on a type V platform (continued).

National Stock Number	Item	Quantity
1670-01-097-8816	Release, cargo parachute, M-2, modified:	1
	Reinforced toggle shaft	1
	Hardened sleeve bolts	4
	2 3/8-in steel spacers	4
	Hardened clevis bolts w sleeves	2
	Sling, cargo airdrop:	
	For deployment line:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For riser extensions:	
1670-01-062-6311	120-ft (2-loop), type XXVI nylon webbing	8
	For suspension:	
1670-01-062-6310	11-ft (4-loop), type XXVI nylon webbing	4
1670-00-040-8319	Strap, parachute release, multicut	2
8305-00-074-5124	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tiedown assembly, 15-ft	78
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type I	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, natural	As required
8305-00-261-8584	Nylon, type X, treated, olive drab	As required