

## CHAPTER 5

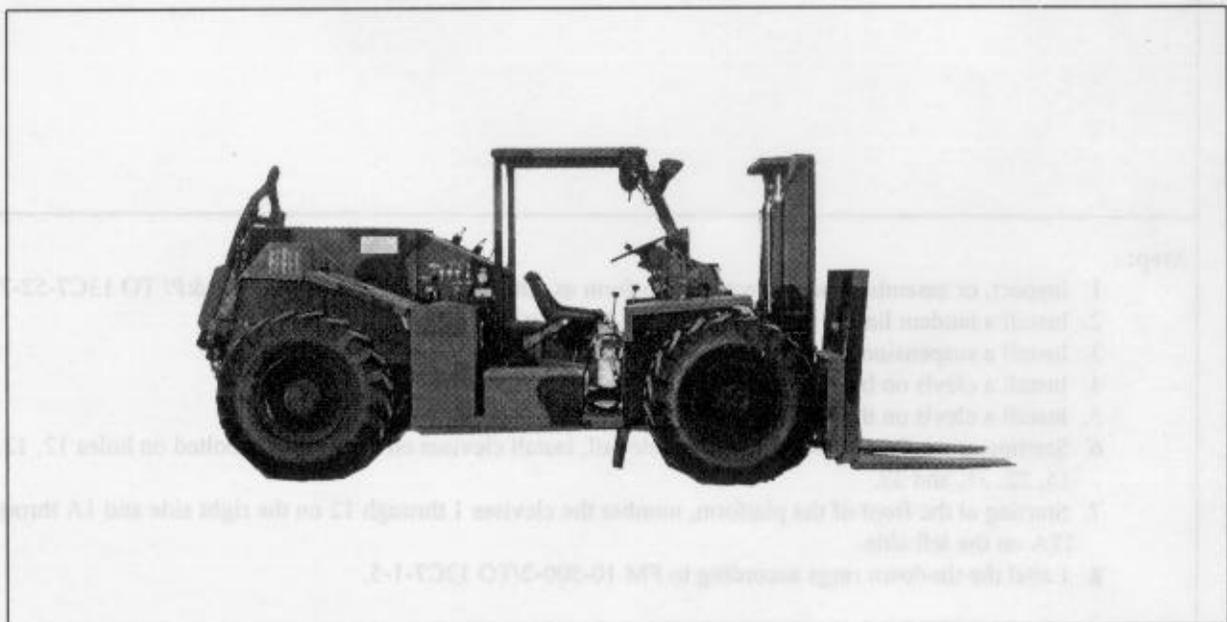
## RIGGING THE M271, 4,000-POUND CAPACITY FORKLIFT ON A TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

### 5-1. Description of Load

The M271, 4,000-pound capacity forklift truck (*Figure 5-1*) has an unrigged weight of 12,000 pounds which is not reducible. The length is 205 inches (reducible to 165 inches), width is 80-inches which is not reducible, height is 80-inches reducible to 78 inches. The forklift is rigged with three G-11 cargo parachutes on a 16-foot type V platform with a total rigged weight of 15,400 pounds, height of 98 1/2 inches, width of 108-inches, and length of 266 inches with a 15-inch, front overhang, a 16-inch rear overhang and a center of balance of 83 inches.

### 5-2. Preparing Platform

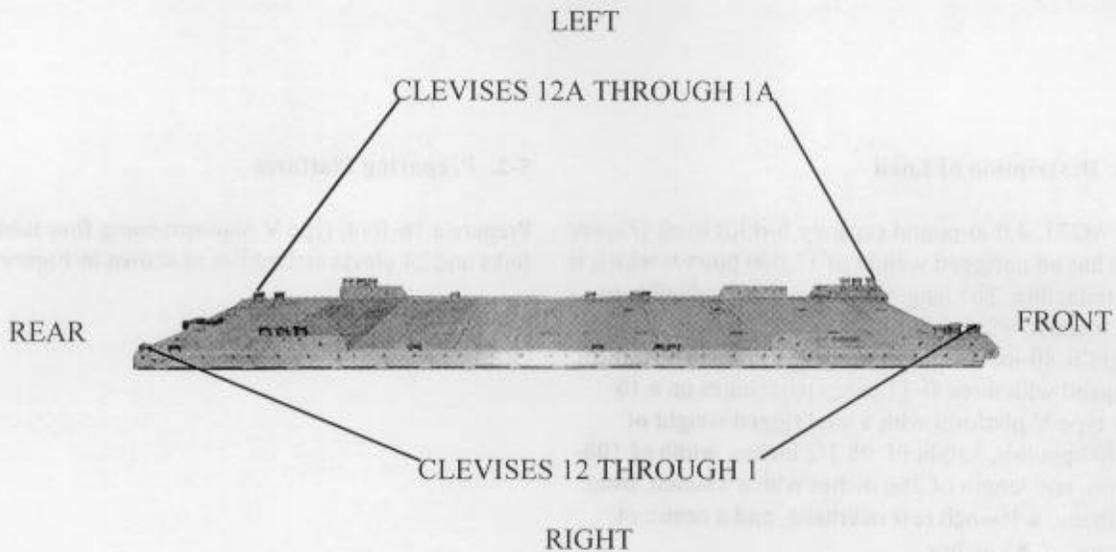
Prepare a 16-foot, type V platform using four tandem links and 24 clevis assemblies as shown in *Figure 5-2*.



*Figure 5-1. M271, 4000-pound capacity forklift truck*

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 edge of the nose bumper.



**Step:**

1. Inspect, or assemble and inspect, the platform as outlined in TM 10-1670-268-20&P/ TO 13C7-52-22.
2. Install a tandem link to the front of each side rail using holes 1, 2, and 3.
3. Install a suspension link to each side rail using holes 6, 7, 8, 25, 26, and 27.
4. Install a clevis on bushings 1, 2, and 3 of each front tandem link.
5. Install a clevis on the rear suspension link on bushings 2, 3, and 4.
6. Starting at the front of each platform side rail, install clevises on the bushings bolted on holes 12, 13, 15, 22, 31, and 32.
7. Starting at the front of the platform, number the clevises 1 through 12 on the right side and 1A through 12A on the left side.
8. Label the tie-down rings according to FM 10-500-2/TO 13C7-1-5.

Figure 5-2. Platform prepared

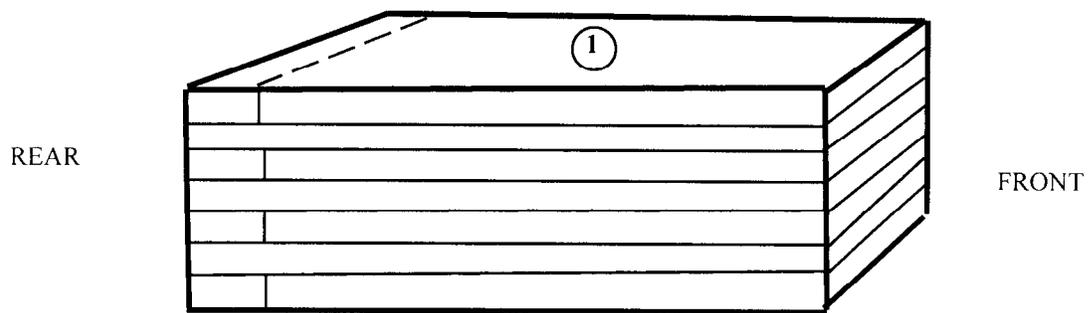
### 5-3. Preparing and Positioning Honeycomb Stacks

Use the materials in *Table 5-1* to prepare seven honeycomb stacks as shown in *Figures 5-3* through *5-12*. Position the stacks on the platform as shown in *Figures 5-13* and *5-14*.

*Table 5-1. Materials required to build honeycomb stacks*

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	7	42	44	Honeycomb	See <i>Figures 5-3</i> through <i>5-5</i> .
	2	42	44	3/4" plywood	
	1	42	37 1/2	3/4" plywood	
	2	2 by 4	22 1/2	Lumber	
	3	2 by 4	37 1/2	Lumber	
	1	42	37 1/2	3/4" plywood	
	2	4 by 4	10	Lumber	
	2	2 by 6	38	Lumber	
	1	38	4	3/4" plywood	
	2	36	4	1/2" plywood	
2	7	36	24	Honeycomb	See <i>Figures 5-6</i> through <i>5-8</i> .
	1	34	24	3/4" plywood	
	4	2 by 6	24	Lumber	
	1	34	24	3/4" plywood	
	1	16	24	3/4" plywood	
3	7	42	32	Honeycomb	See <i>Figures 5-9</i> through <i>5-11</i> .
	1	42	32	3/4" plywood	
	4	2 by 4	32	Lumber	
	1	42	32	3/4" plywood	
	1	42	18	3/4" plywood	
	2	2 by 6	18	Lumber	
	1	4	6	3/4" plywood	
	1	42	6	3/4" plywood	
4	3	27	68	Honeycomb	See <i>Figure 5-12</i> .
5	3	27	68	Honeycomb	See <i>Figure 5-12</i> .
6	3	27	68	Honeycomb	See <i>Figure 5-12</i> .
7	3	27	68	Honeycomb	See <i>Figure 5-12</i> .

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



**STACK  
1**

- ① Glue seven 42- by 44-inch pieces of honeycomb as the base.

*Figure 5-3. Honeycomb stack 1 base prepared*

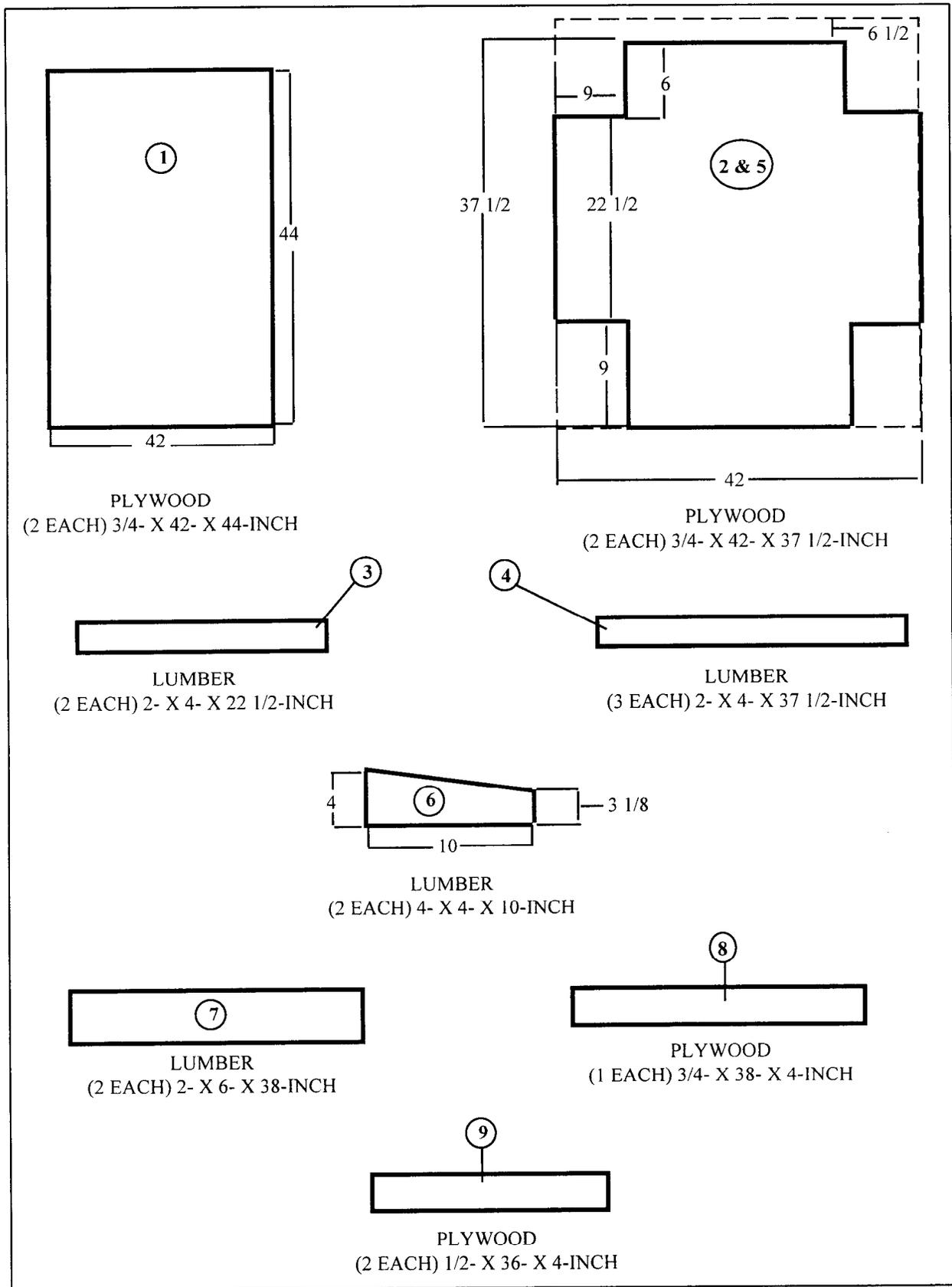
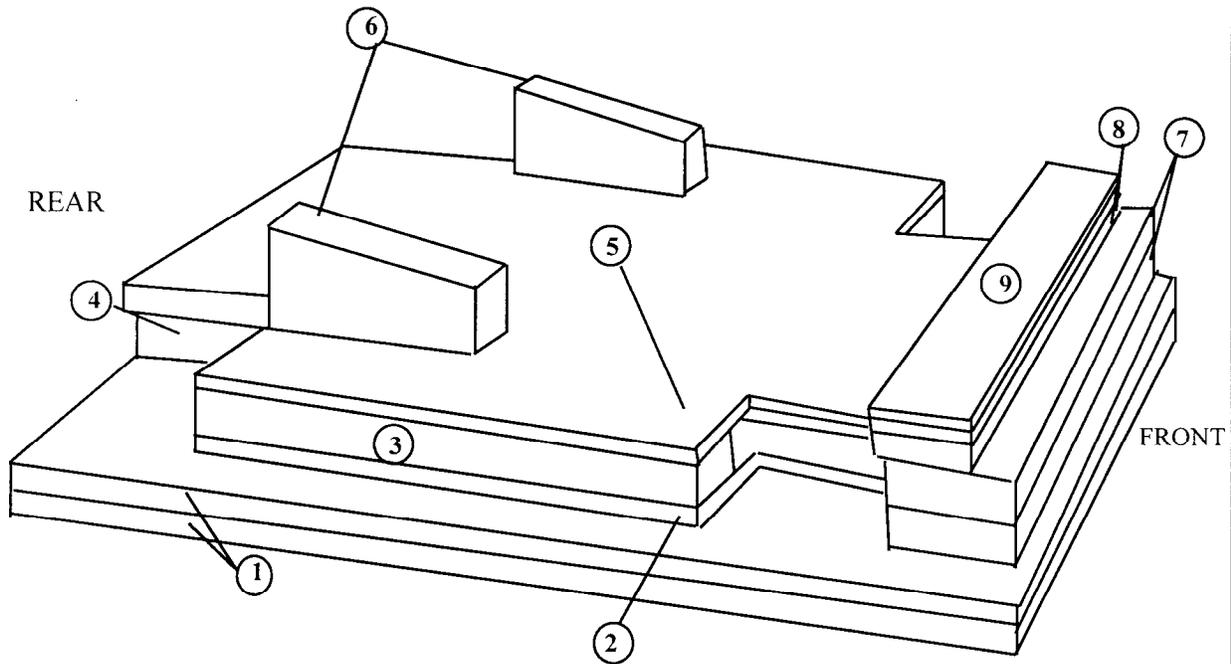


Figure 5-4. Pieces for stack 1 frame support

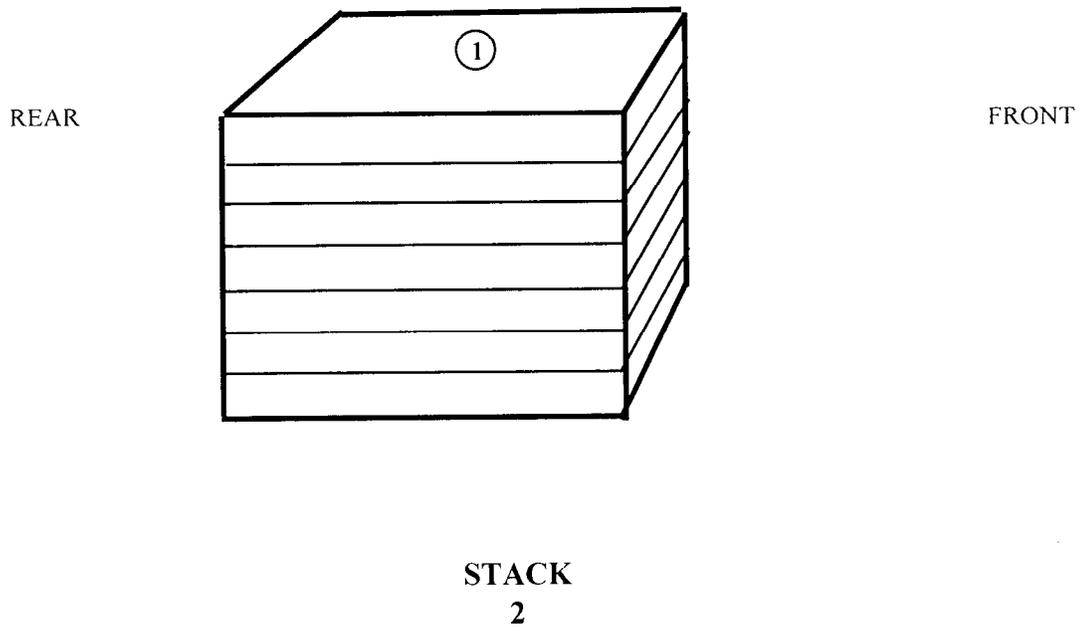
- Note: 1. This drawing is not drawn to scale.  
2. All measurements are given in inches.



- ① Glue and nail two 3/4- by 42- by 44-inch pieces of plywood together. Do not glue to base.
- ② Cut one 3/4- by 42- by 37 1/2-inch piece of plywood. Glue and nail to a 3/4- by 42- by 44-inch piece of plywood with 24-inch side flush with rear edge.
- ③ Glue and nail two 2- by 4- by 22 1/2-inch pieces of lumber, flush with right and left sides of plywood.
- ④ Glue and nail three 2- by 4- by 37 1/2-inch pieces of lumber.
- ⑤ Cut one 3/4- by 42- by 37 1/2-inch piece of plywood. Glue and nail to a 2- by 4-inch piece of lumber.
- ⑥ Cut two 4- by 4- by 10-inch pieces of lumber measuring 4 inches high on one end and 3 1/8 inches high on the other. Glue and nail flush with rear edge of plywood 6 inches from right and left sides as shown above.
- ⑦ Glue and nail two 2- by 6- by 38-inch pieces of lumber together, flush against the plywood and a 2- by 6-inch piece of lumber centered from right to left.
- ⑧ Glue and nail one 3/4- by 38- by 4-inch piece of plywood flush with the rear edge of a 2- by 6- by 38-inch piece of lumber and centered.
- ⑨ Glue and nail two 1/2- by 36 by 4-inch pieces of plywood on top of the 3/4- by 38- by 4-inch piece of plywood.

Figure 5-5. Stack 1 frame support built

Note: This drawing is not drawn to scale.



① Glue seven 36- by 24- inch pieces of honeycomb to form base.

Figure 5-6. Stack 2 base prepared

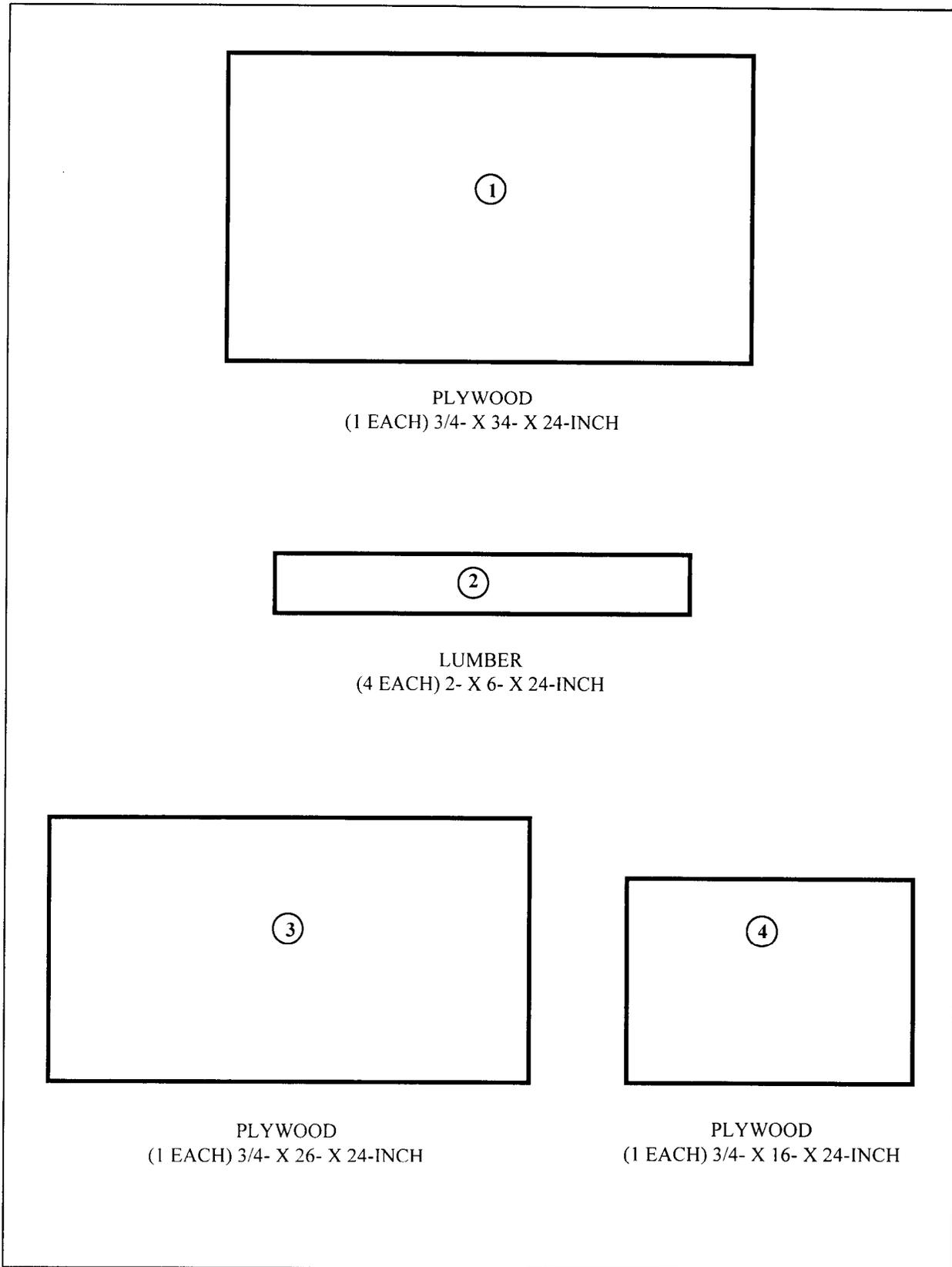
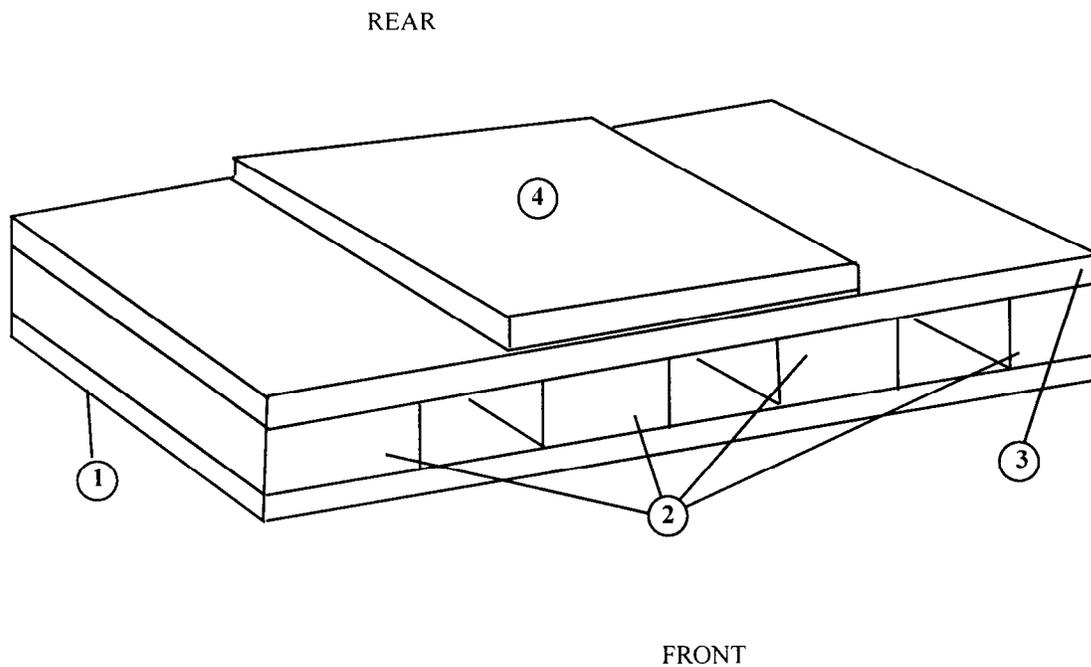


Figure 5-7. Pieces for stack 2 frame support

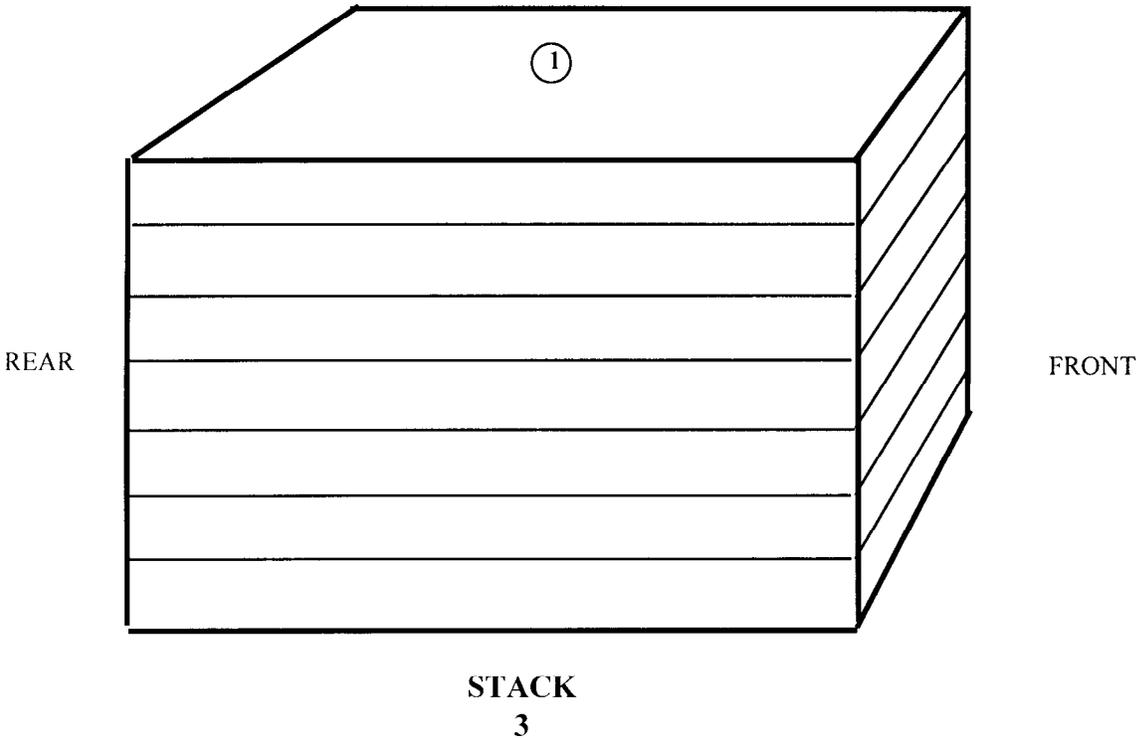
- Notes: 1. This drawing is not drawn to scale.  
2. All measurements are given in inches.



- ① Place a 3/4- by 34- by 24-inch piece of plywood on the base. Do not glue to base.
- ② Glue and nail four 2- by 6- by 24-inch pieces of lumber to plywood, one piece flush with right edge and one piece flush with left edge. Center the other two pieces and space them 4 inches apart.
- ③ Glue and nail one 3/4- by 26- by 24-inch piece of plywood on top of lumber.
- ④ Glue and nail one 3/4- by 16- by 24-inch piece of plywood centered on plywood .

Figure 5-8. Stack 2 frame support built

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



① Glue seven 42- by 32- inch pieces of honeycomb to form base.

Figure 5-9. Stack 3 base prepared

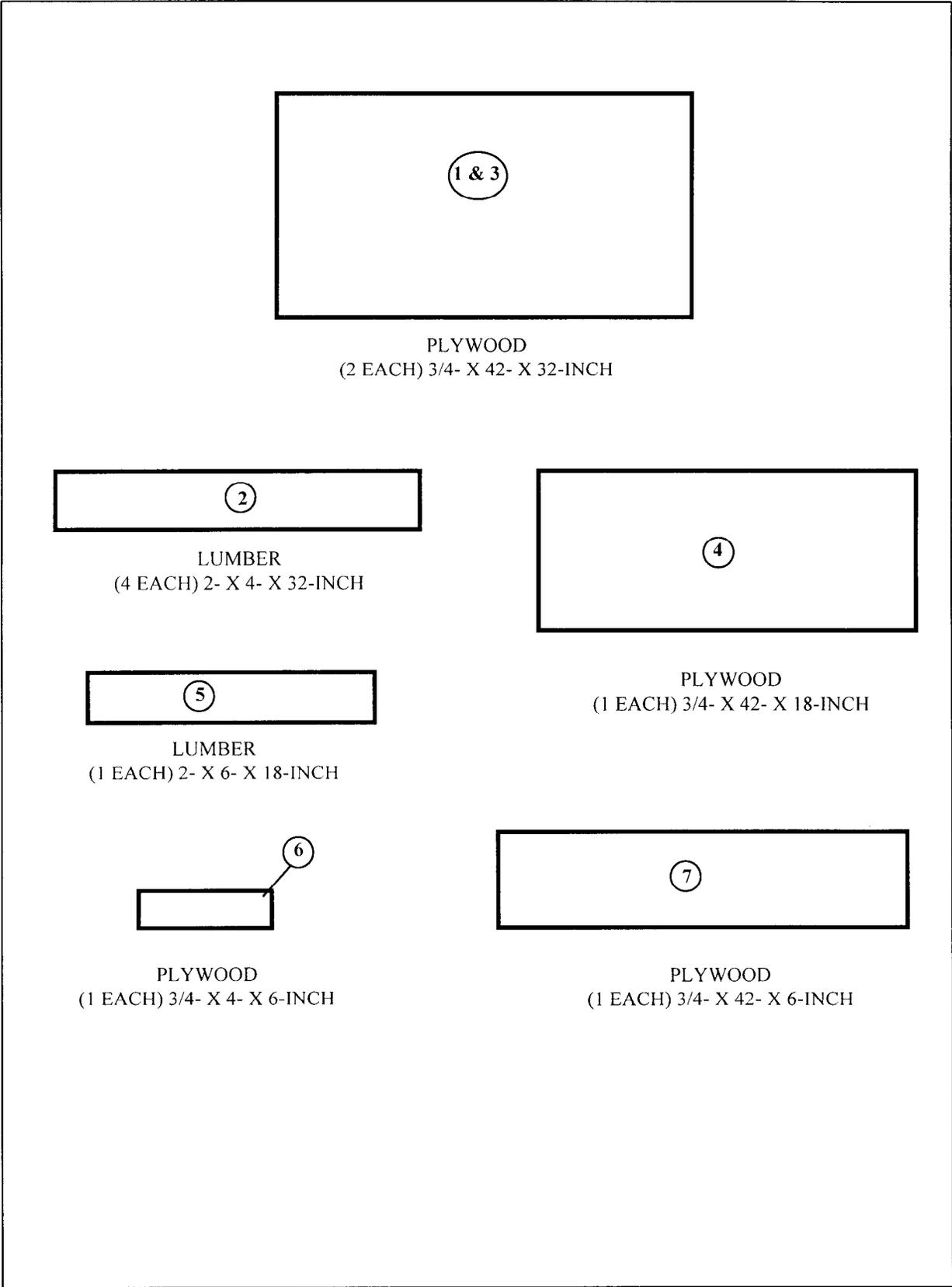
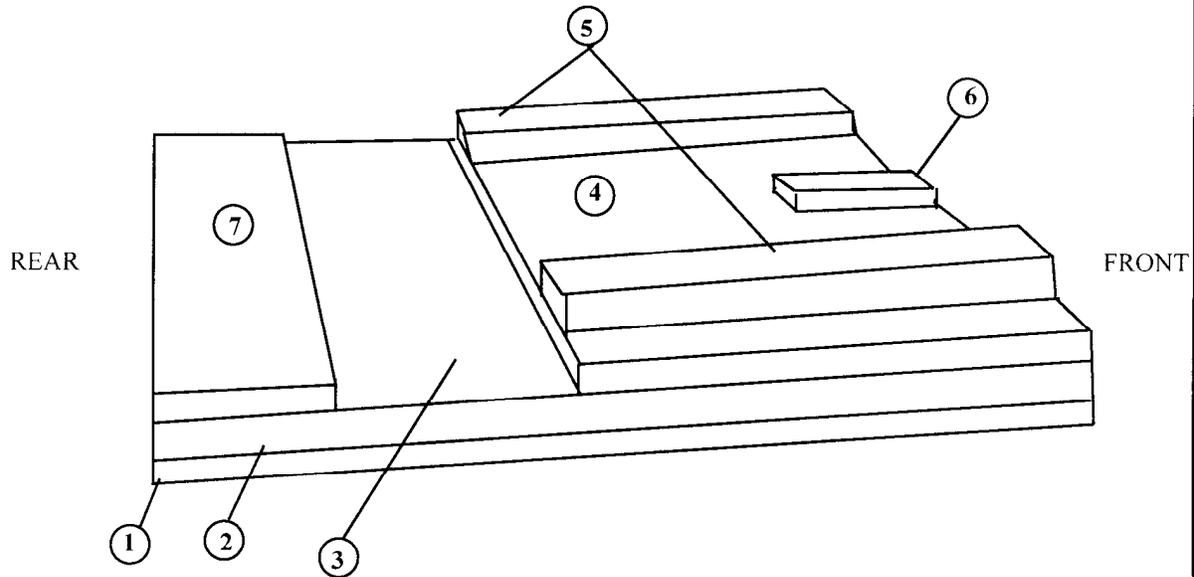


Figure 5-10. Pieces for stack 3 frame support

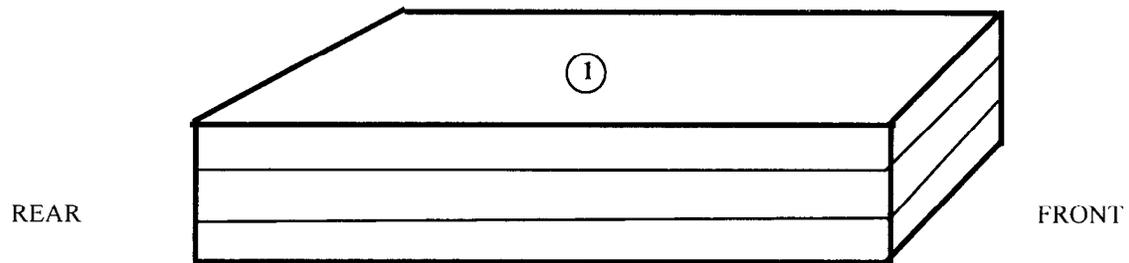
- Notes: 1. This drawing is not drawn to scale.  
 2. All measurements are given in inches.



- ① Place one 3/4- by 42- by 32-inch piece of plywood on the base. Do not glue to base.
- ② Glue and nail four 2- by 4- by 32-inch pieces of lumber to the 3/4- by 42- by 32-inch piece of plywood, one piece flush with right edge and one piece flush with left edge. Place one piece 8 1/2 inches from the right piece and one piece 8 1/2 inches from the left piece.
- ③ Glue and nail one 3/4- by 42- by 32-inch piece of plywood on top of the 2- by 4- by 32-inch piece of lumber.
- ④ Glue and nail one 3/4- by 42- by 18-inch piece of plywood on a 3/4- by 42- by 32-inch of plywood flush with front edge.
- ⑤ Glue and nail two 2- by 6- by 18-inch pieces of lumber, one piece 3 inches from right edge of 3/4- by 42- by 18-inch piece of plywood and one piece 3 inches from left side.
- ⑥ Glue and nail one 3/4- by 4- by 6-inch piece of plywood with the 4-inch side centered on the front edge of stack.
- ⑦ Glue and nail one 3/4- by 42- by 6-inch piece of plywood flush with rear edge of stack.

Figure 5-11. Stack 3 frame support built

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

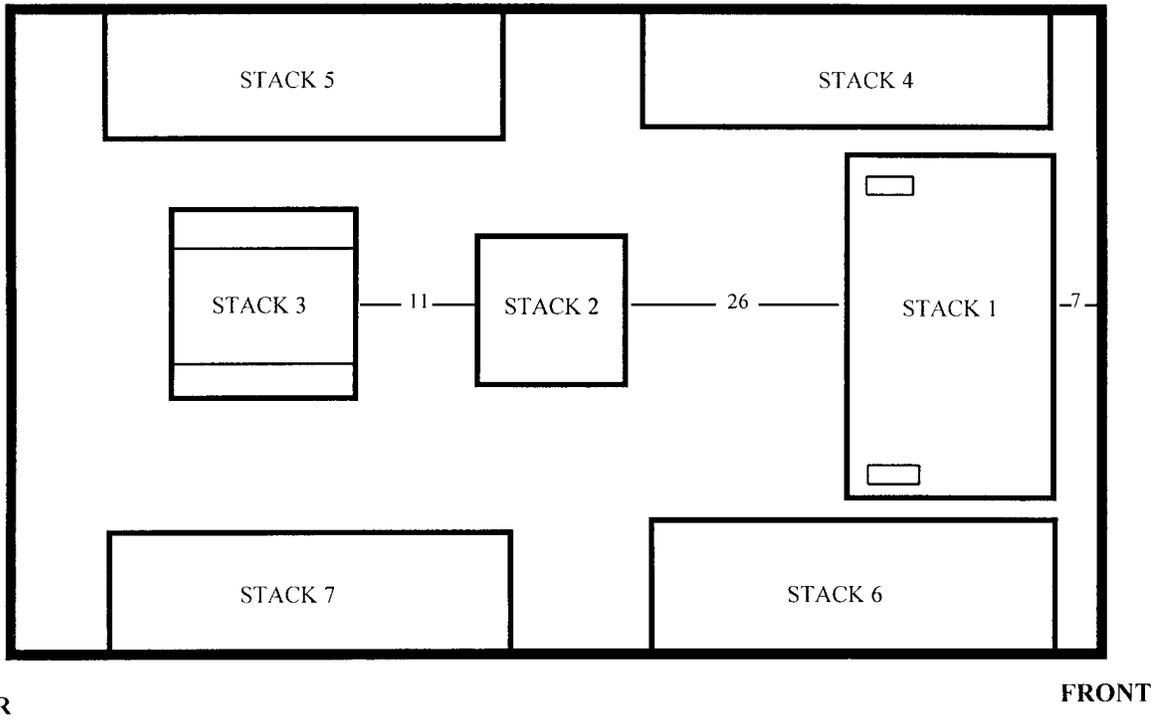


**STACKS**  
4, 5, 6, 7

- ① Glue three 27- by 68-inch pieces of honeycomb to form stack.

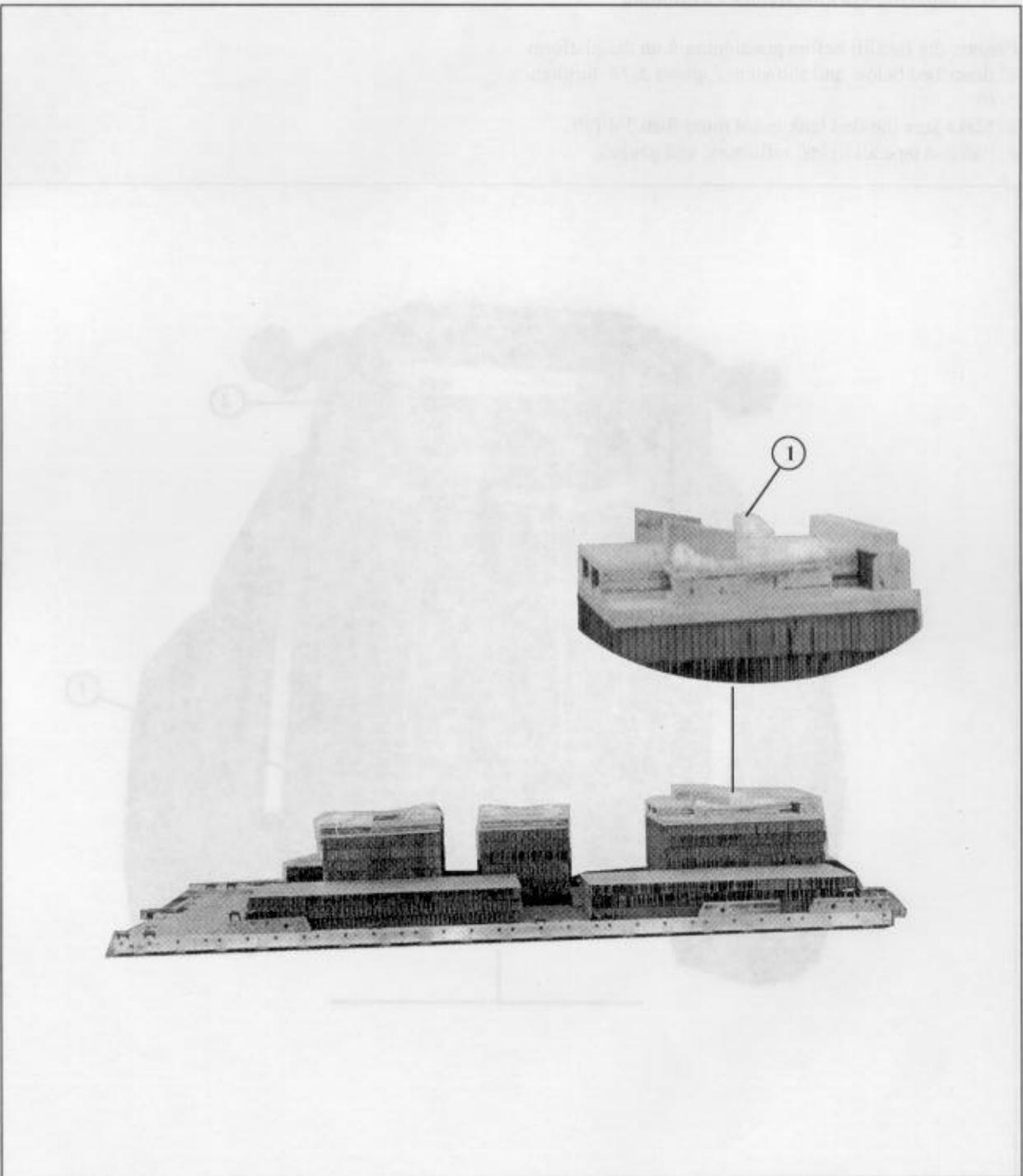
*Figure 5-12. Stacks 4, 5, 6, and 7 prepared*

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



Stack Number	Position of Honeycomb Stacks on Platform
1 2 3 4, 5, 6, & 7	Place stack:  Centered 7 inches from the front edge of the platform. Centered 26 inches from Stack 1. Centered 11 inches from Stack 2. Positioned one under each tire of the forklift. Position each stack so that the larger surface area is to the rear of the tires to aid in backing the vehicle off the platform.

Figure 5-13. Detail of honeycomb stacks positioned on platform



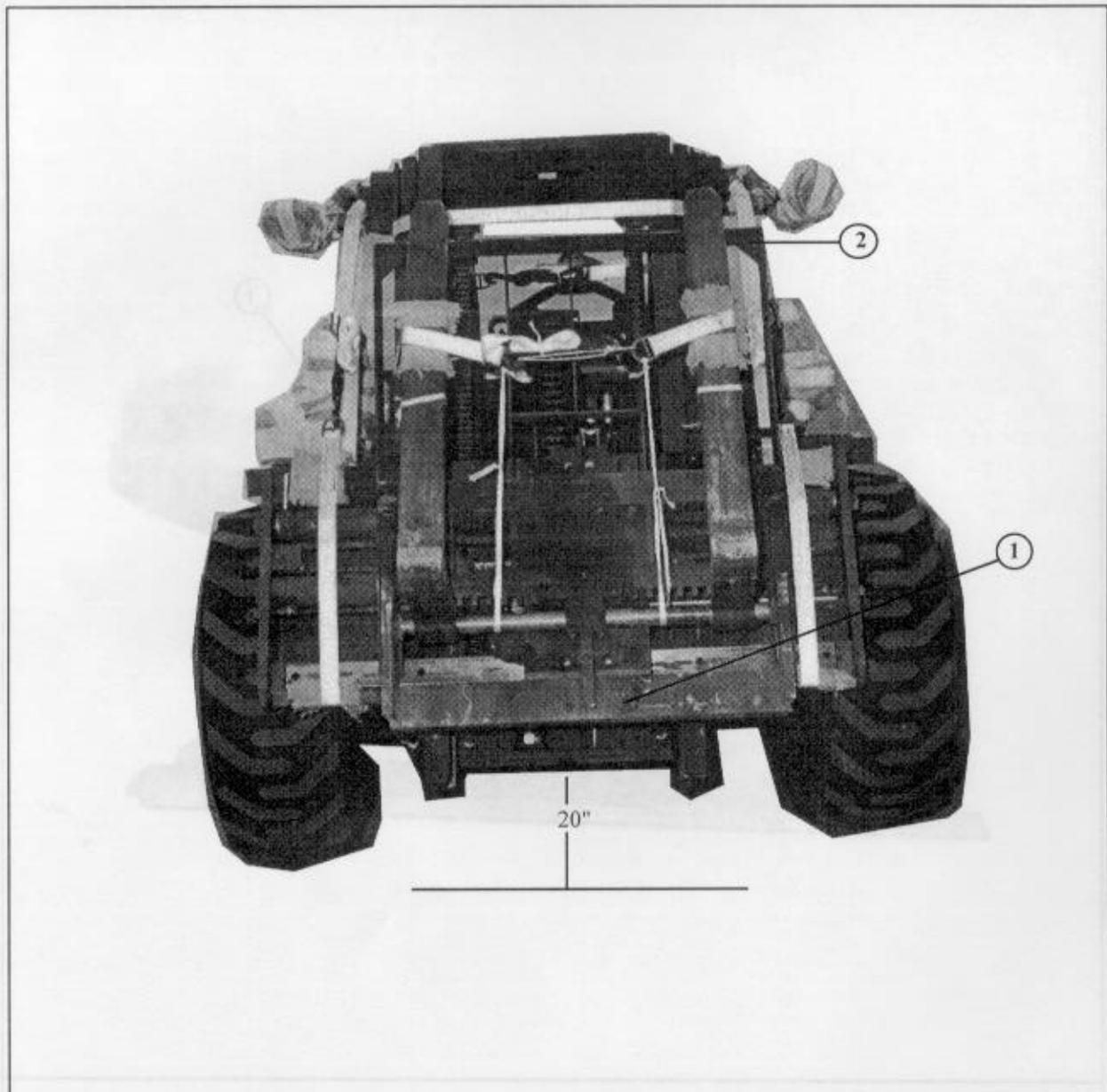
- ① Load spreaders **"Are Not Glued To The Honeycomb"**. They will be tied to the bottom of the forklift with two lengths of 1/2-inch tubular nylon webbing each approximately 150 inches. Run the webbing through the right and left most outside openings leaving equal lengths on both running ends.

Figure 5-14. Honeycomb stacks positioned on platform

#### 5-4. Preparing Forklift Before Positioning

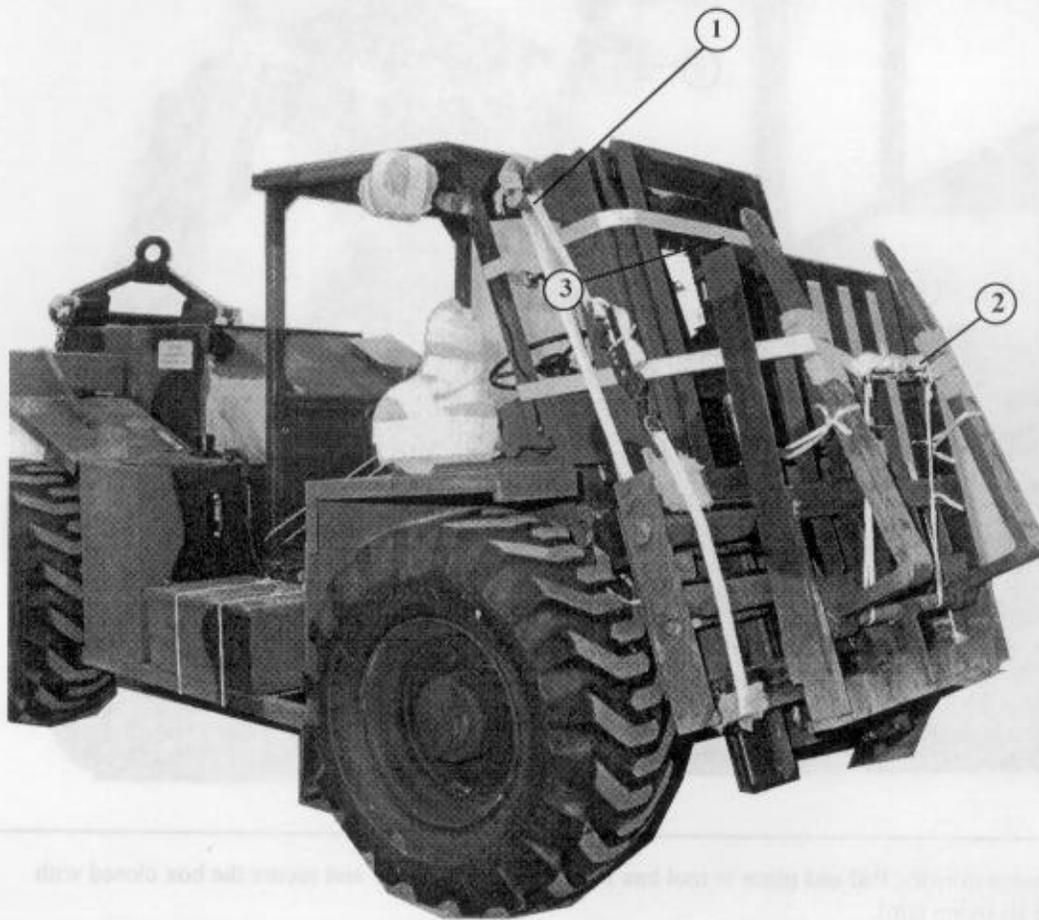
Prepare the forklift before positioning it on the platform as described below and shown in *Figures 5-15* through *5-18*.

- a. Make sure the fuel tank is not more than 3/4 full.
- b. Pad and tape all lights, reflectors, and gauges.



- ① Raise the front forks approximately 20 inches off the ground, measuring from the carriage assembly.
- ② Tilt carriage toward the cab.

*Figure 5-15. Front forks prepared*



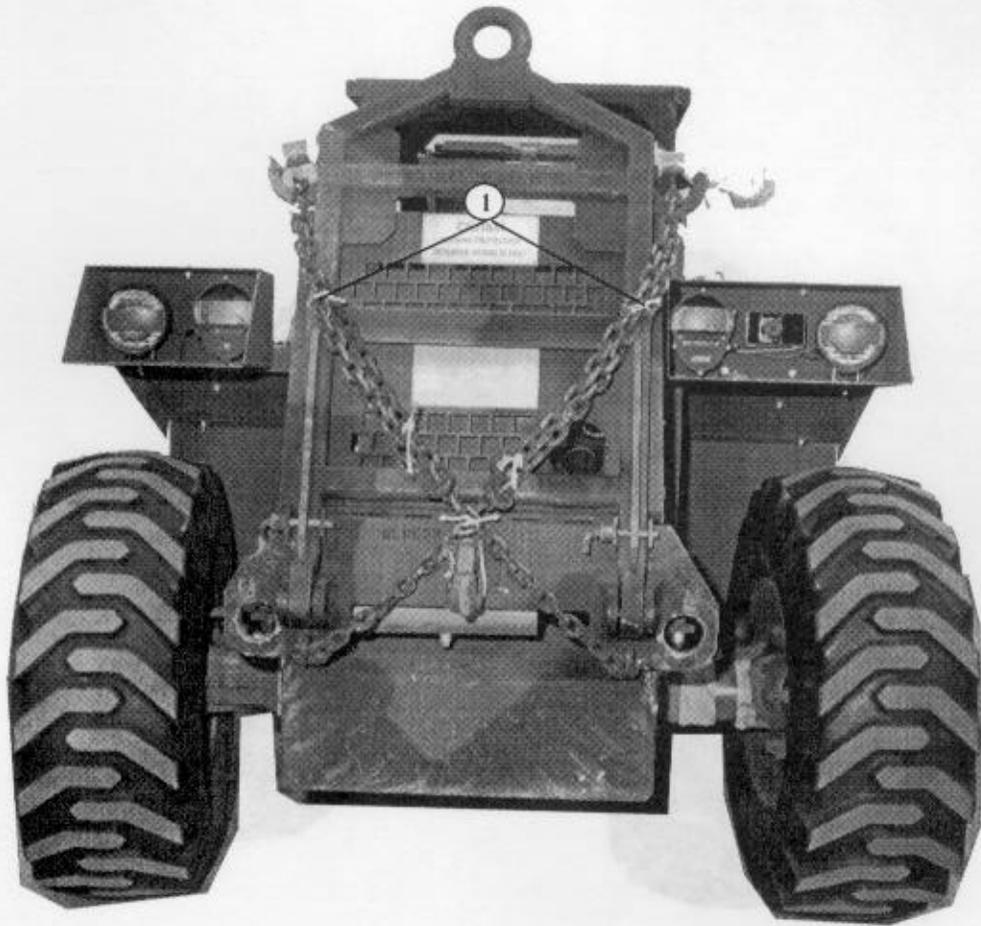
- ① Run a lashing from front lifting ring around entire fork carriage on the right and left sides.
- ② Rotate the forks up toward the cab and secure with a lashing to the cab support bar and safety tie the load binder twice to the carriage with 1/2-inch tubular nylon webbing.
- ③ Secure the carriage support assembly to the cab support bar with a lashing.

Figure 5-16. Fork carriage prepared



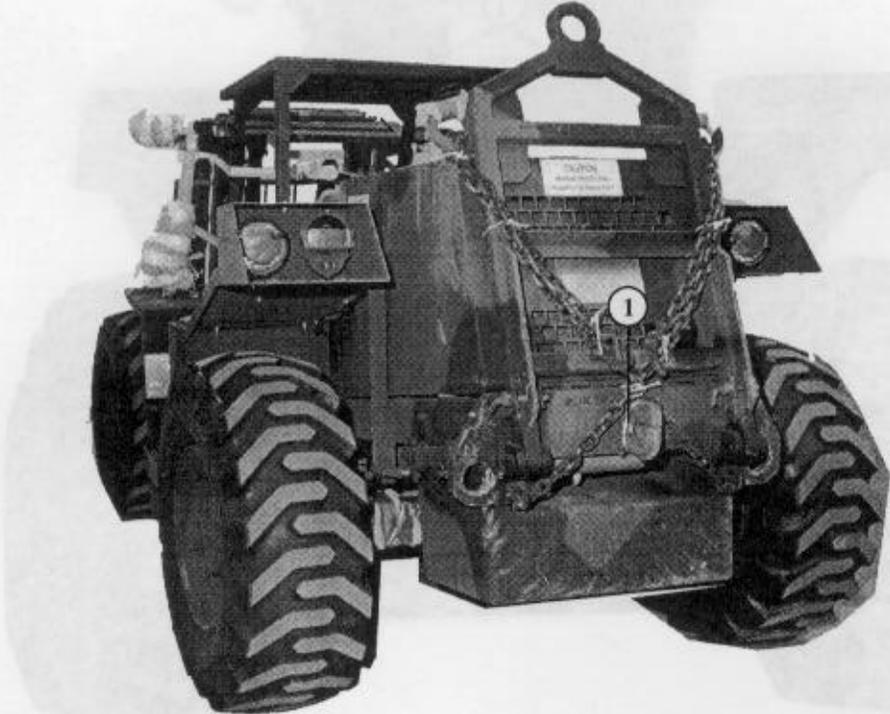
- ① Remove mirrors. Pad and place in tool box behind the driver's seat and secure the box closed with type III nylon cord.
- ② Secure the steering wheel with type III nylon cord.
- ③ Pad and tape all lights.
- ④ Pad and tape right side electrical panel.
- ⑤ Safety tie battery box closed with type III cord.
- ⑥ Safety tie fuel filter with type III nylon cord. (Not shown)

Figure 5-17. Mirrors, steering wheel, lights, electrical panel, battery box and fuel filter secured



- ① Safety tie chains on the rear of forklift with type III nylon cord to the body of the forklift. ○

*Figure 5-18. Rear of forklift prepared*



① Safety the pintle with type III nylon cord.

Figure 5-19. Forklift pintle secured

**5-5. Building and Positioning the Fender Protection Kit**

Build and position the fender protection kit as described below.

a. Build two honeycomb fender protection kits as shown in *Figures 5-20* and *5-21*.

b. Position the fender protection kits on the appropriate fender as shown in *Figure 5-22*.

c. Secure fender protection kits on forklift as shown in *Figures 5-23* and *5-24*.

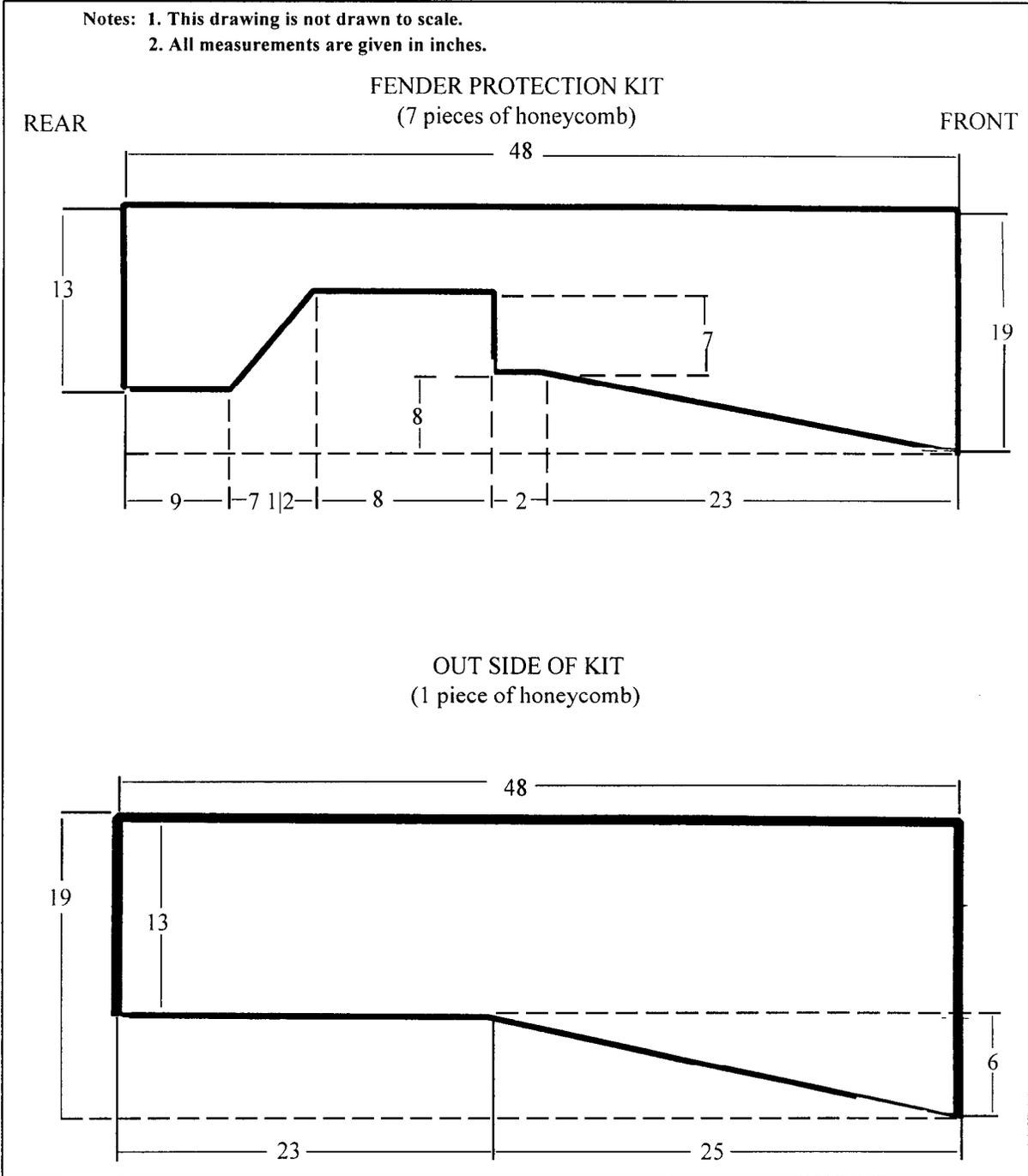
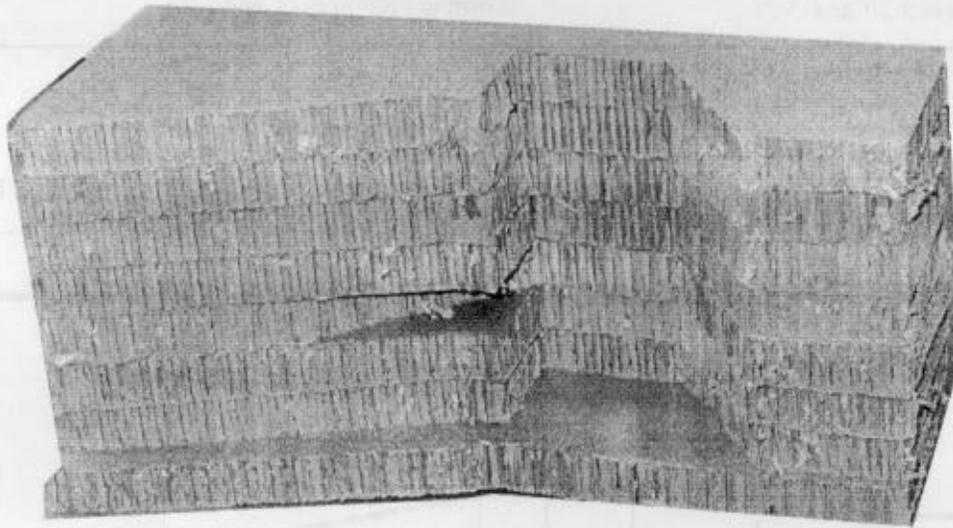
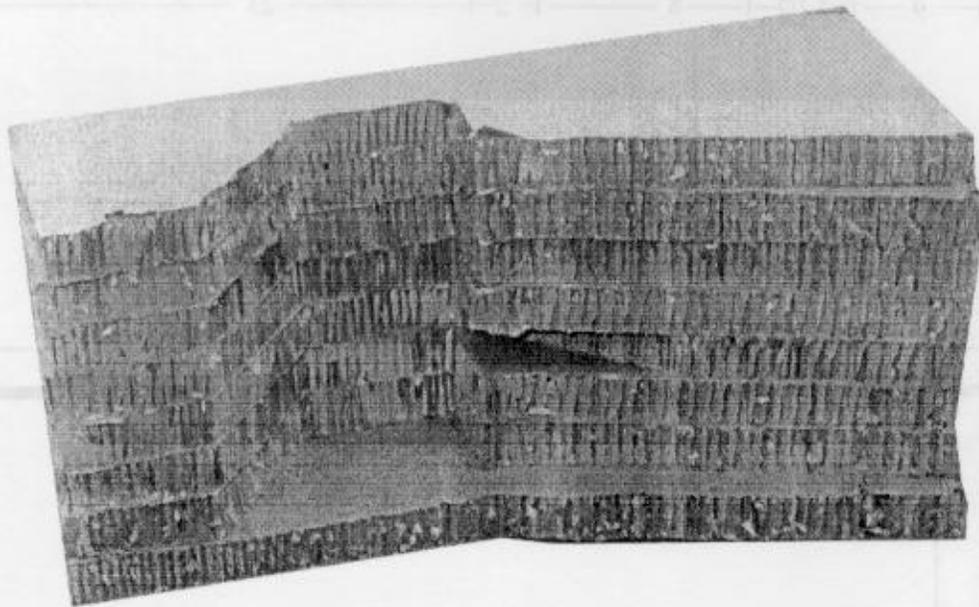


Figure 5-20. Detail for honeycomb fender protectors

### Fender Protectors

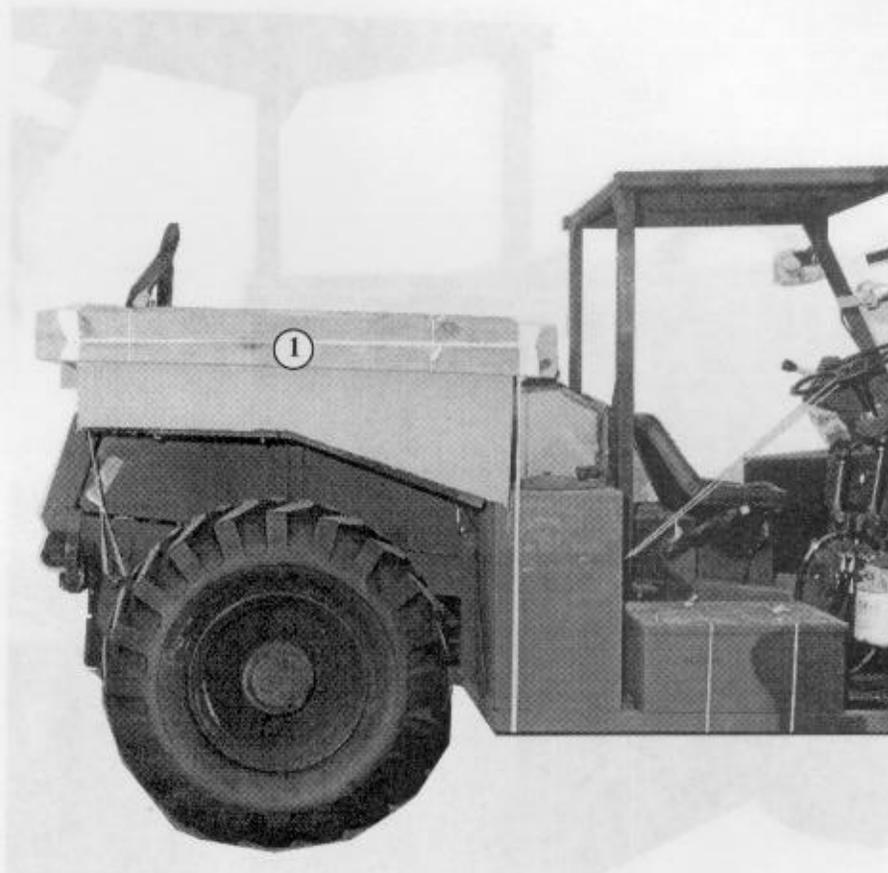


RIGHT



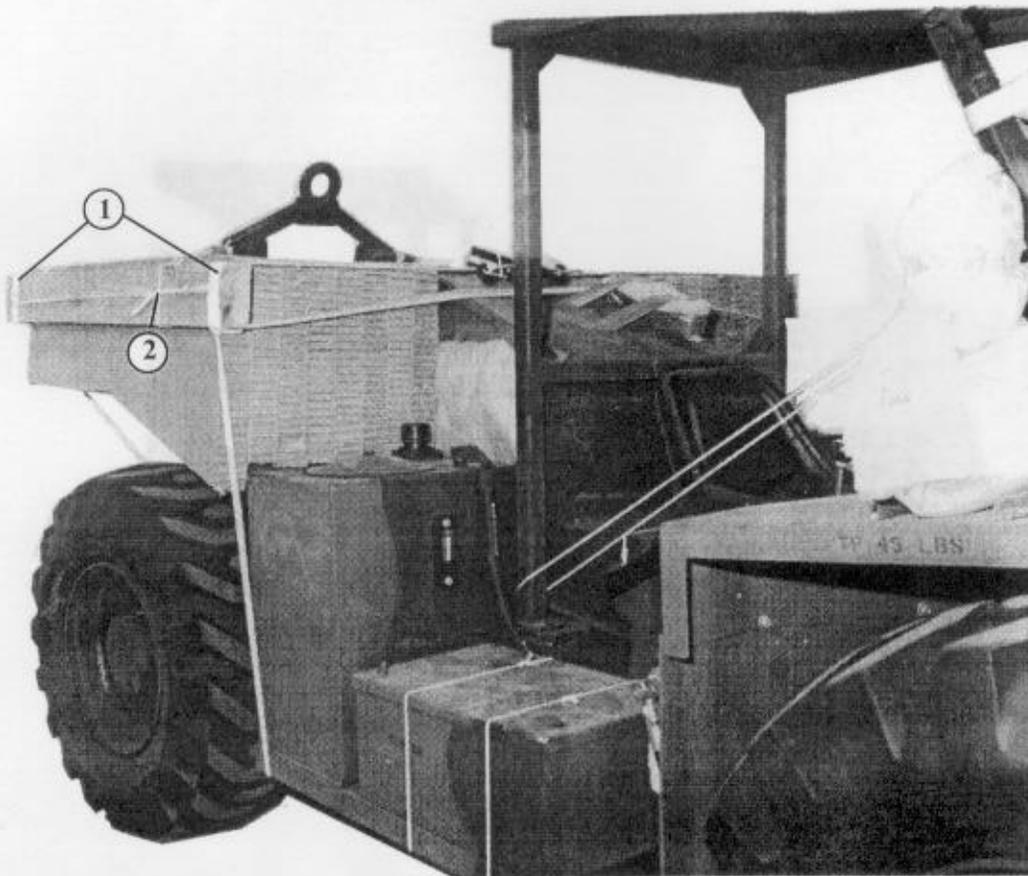
LEFT

Figure 5-21. Honeycomb fender protectors completed



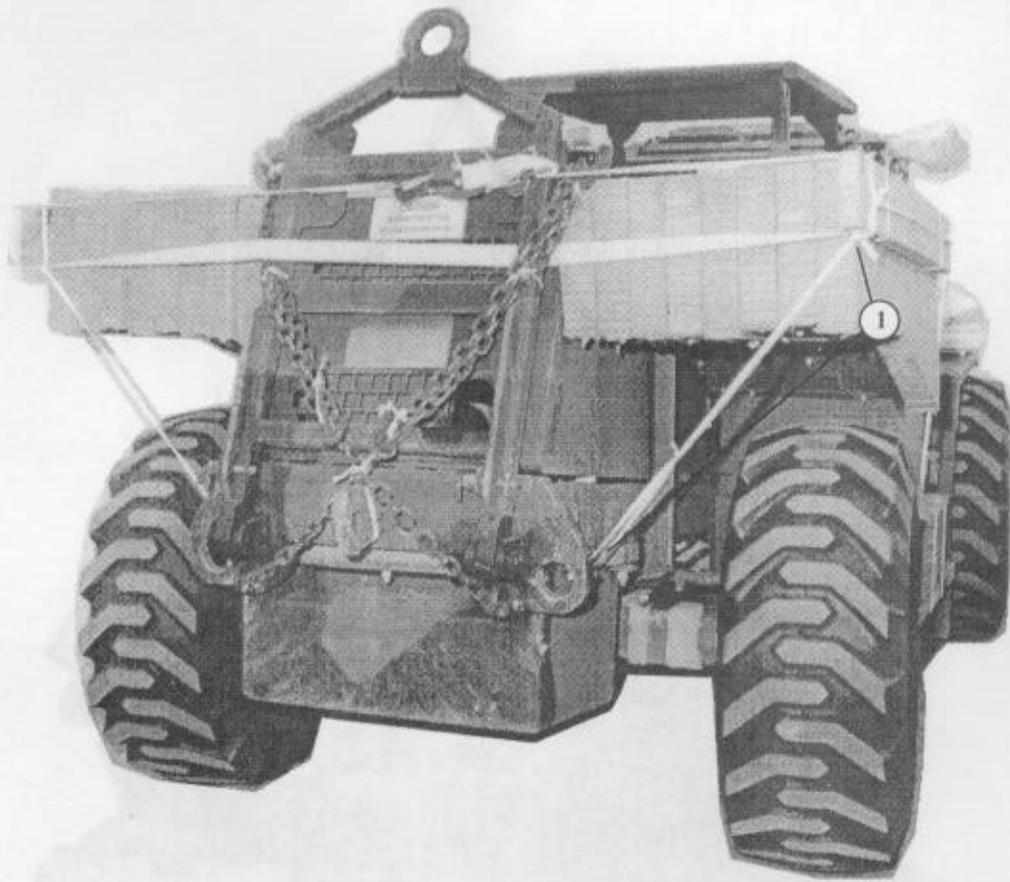
- ① Cut two 2- by 6- by 56-inch pieces of lumber and position one on each fender protector flush and centered with the top edge. Use type III nylon cord to hold them temporarily in place.

*Figure 5-22. Honeycomb fender protectors positioned*



- ① Secure the lumber in place with a lashing on the front and the rear of the lumber as shown above.
- ② Safety the lashing together with a length of 1/2-inch tubular nylon webbing.

*Figure 5-23. Honeycomb fender protectors secured*

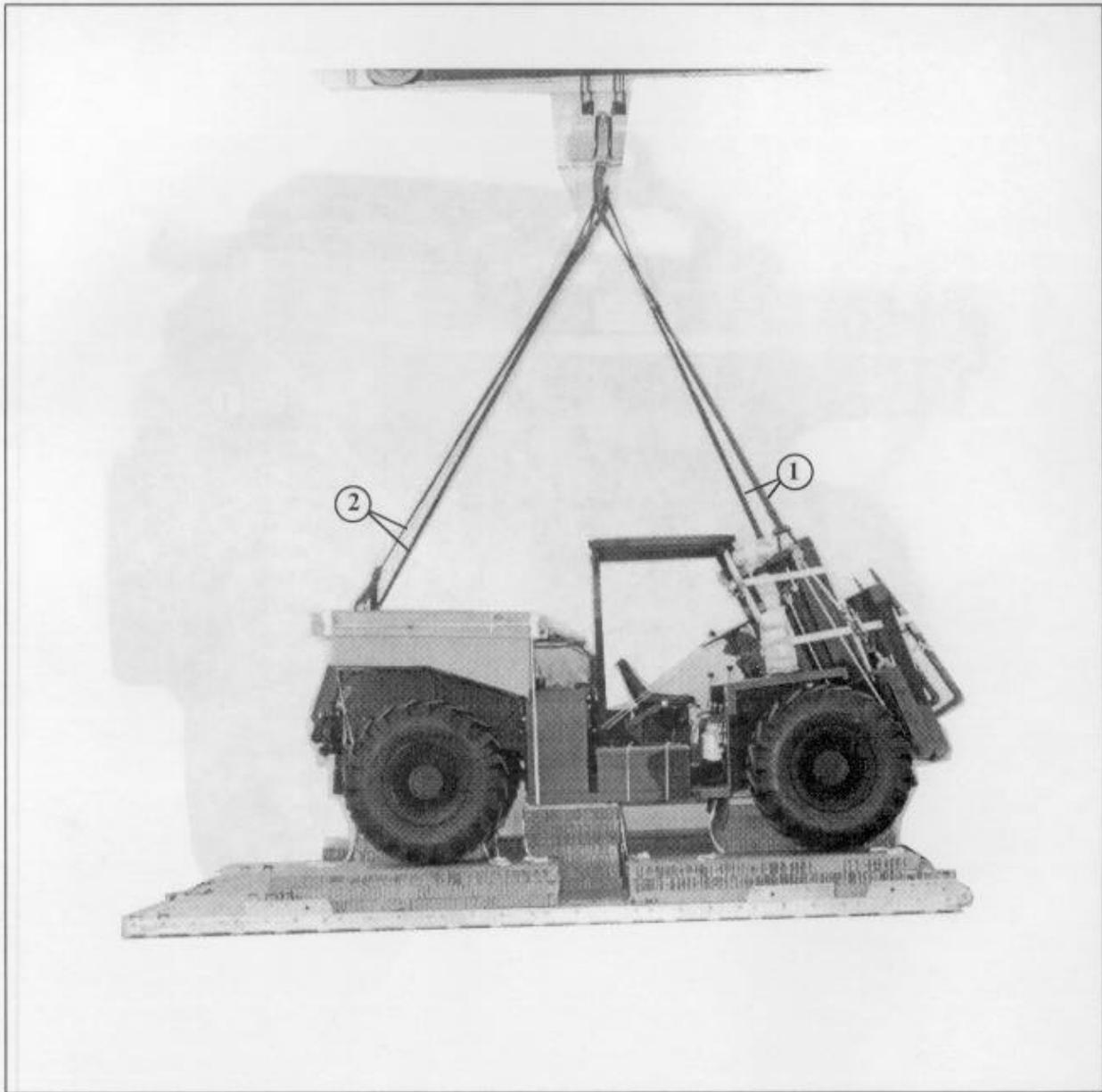


- ① Ensure the lumber does not rise up. Secure each side down with two lengths of 1/2-inch tubular nylon webbing, one on each end of the lumber tied off at convenient points on the vehicle. Make sure the lumber remains level.

Figure 5-24. Honeycomb fender protectors prepared

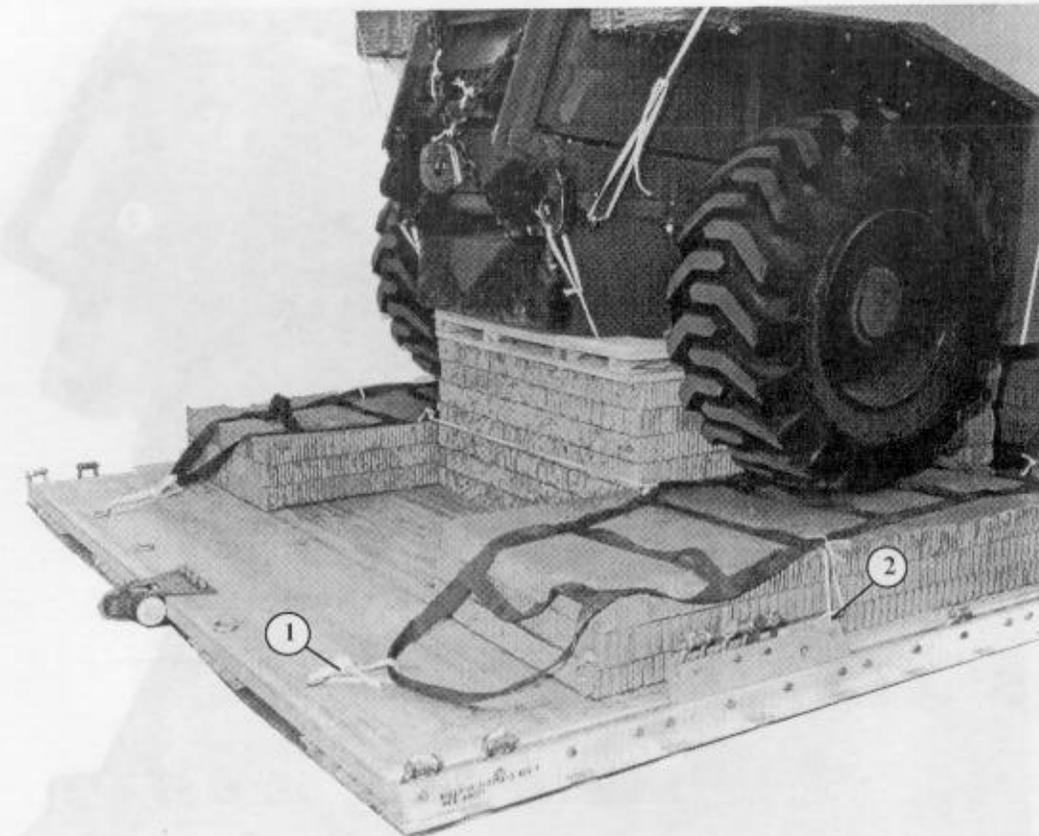
### 5-6. Installing Lifting Slings and Positioning Drive-Off Aids

Install the lifting slings as shown and described in *Figure 5-25*. Position the drive-off aids as shown and described in *Figures 5-26* and *5-27*.



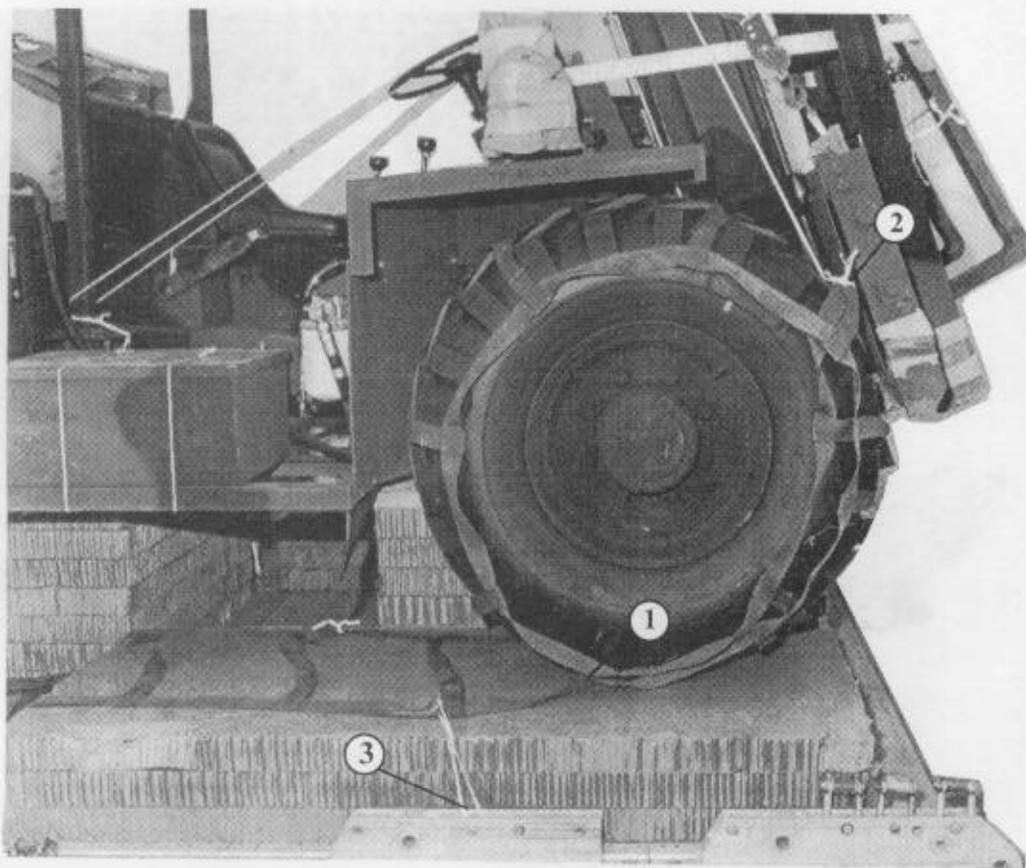
- ① Attach a 9-foot (4-loop), type XXVI nylon sling to each front lifting point using large clevises.
- ② Attach a 12-foot (4-loop), type XXVI nylon sling to each rear lifting point using large clevises and join the running ends of the two rear slings together with one 3-foot (4-loop), type XXVI nylon sling.

*Figure 5-25. Lifting slings installed*



- ① Lay a drive-off aid on each side of the platform and secure the rear end to tie-down ring A8 on the right side and tie-down ring D8 on the left side using type V nylon webbing. Tie the webbing according to FM 10-500-2/TO 13C7-1-5.
- ② Secure the drive off aid along the side of the platform using 1/4-inch cotton webbing to convenient points on the platform.

Figure 5-26. Drive-off aids positioned

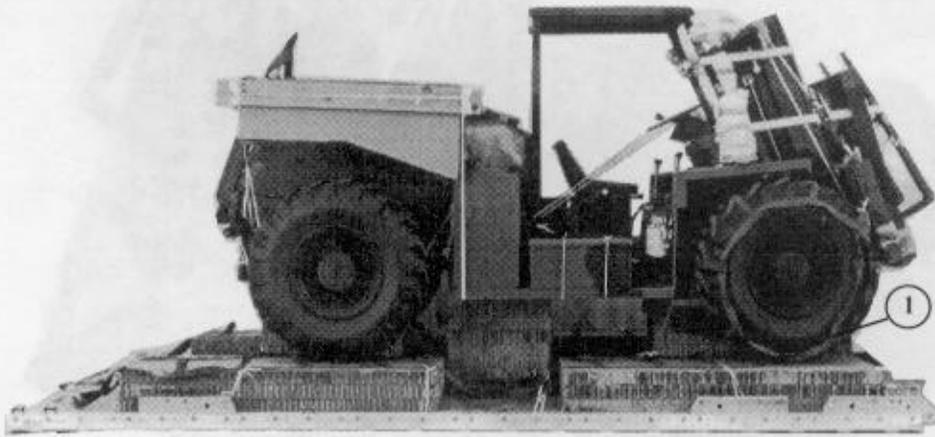


- ① Lay the running end of each drive-off aid under the front wheels. Holding the drive-off aid against the wheel, turn the right wheel counterclockwise until the drive-off aids are under slight tension. Repeat for the left side turning the wheel clockwise.
- ② Tie the end loop of drive-off aid to the nearest cross piece with a double length of type I, 1/4-inch cotton webbing.
- ③ Secure drive-off aids to convenient points on the platform using type I, 1/4-inch cotton webbing.

Figure 5-27. Drive-off aids installed

### 5-7. Positioning Forklift

Position the forklift on the platform as shown and described in *Figure 5-28*.

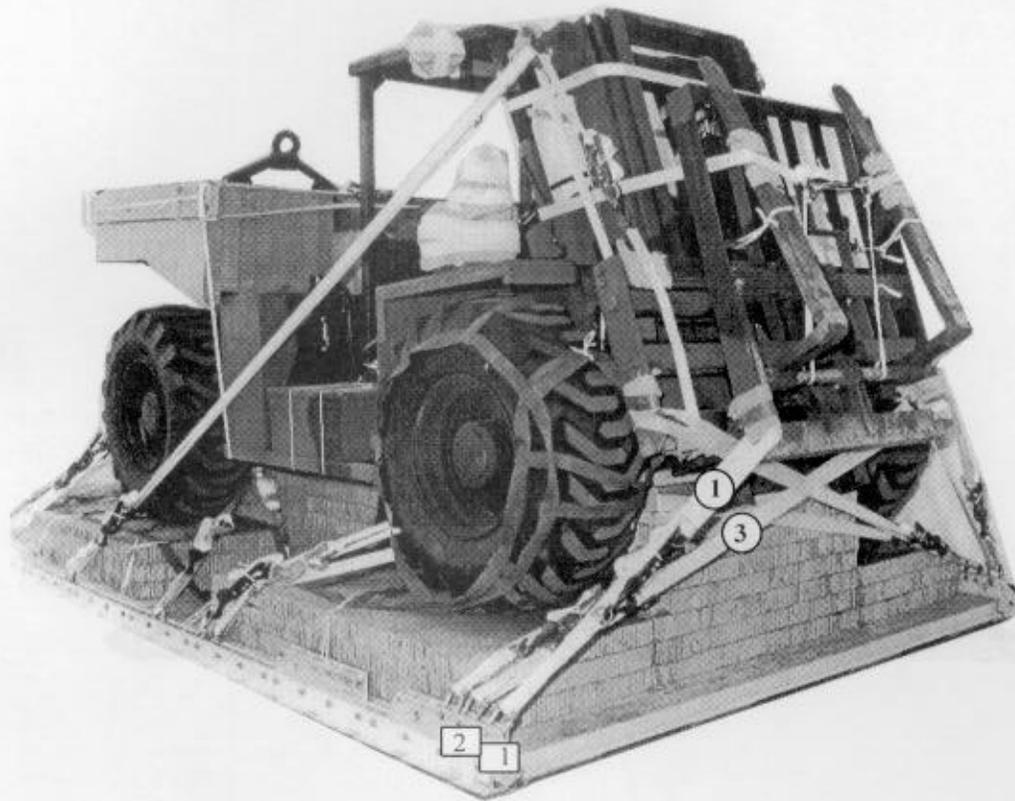


- ① Position the forklift on the platform with the center of the front wheel 24 inches from the front edge of the platform.
- ② Remove lifting slings and clevises (Not shown).
- ③ Tie the load spreaders to the bottom of the forklift securing them to convenient points on the vehicle using the 1/2-inch tubular nylon webbing prepositioned on the load spreaders (Not shown).

*Figure 5-28. Forklift positioned on platform*

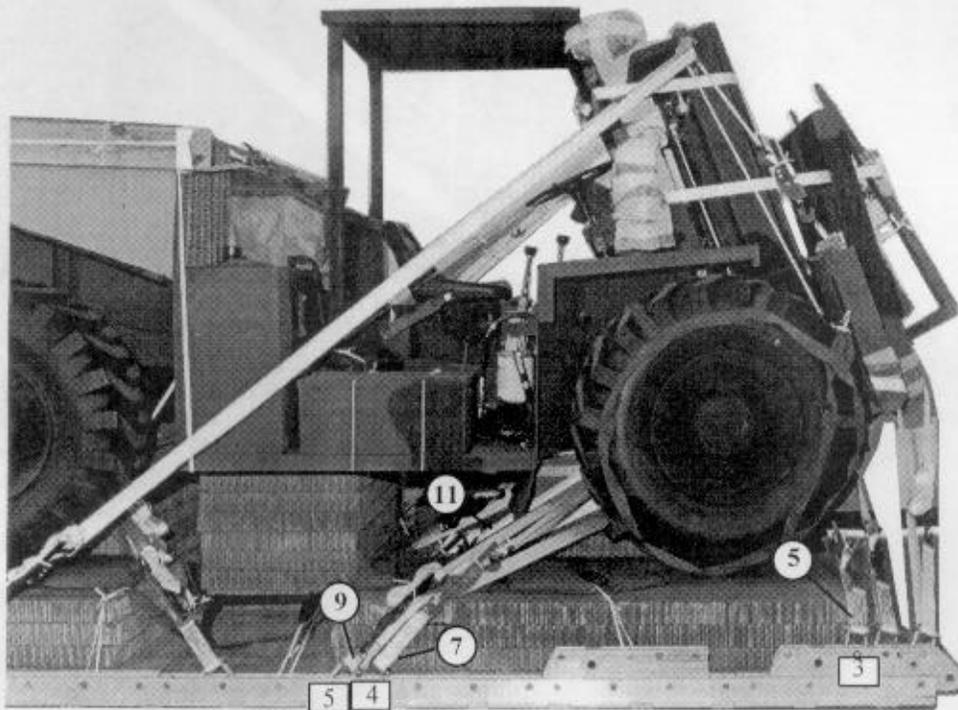
### 5-8. Lashing Forklift

Lash the forklift to the platform using twenty-six 15-foot tie-down assemblies. Install the lashings according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figures 5-29 through 5-32*.



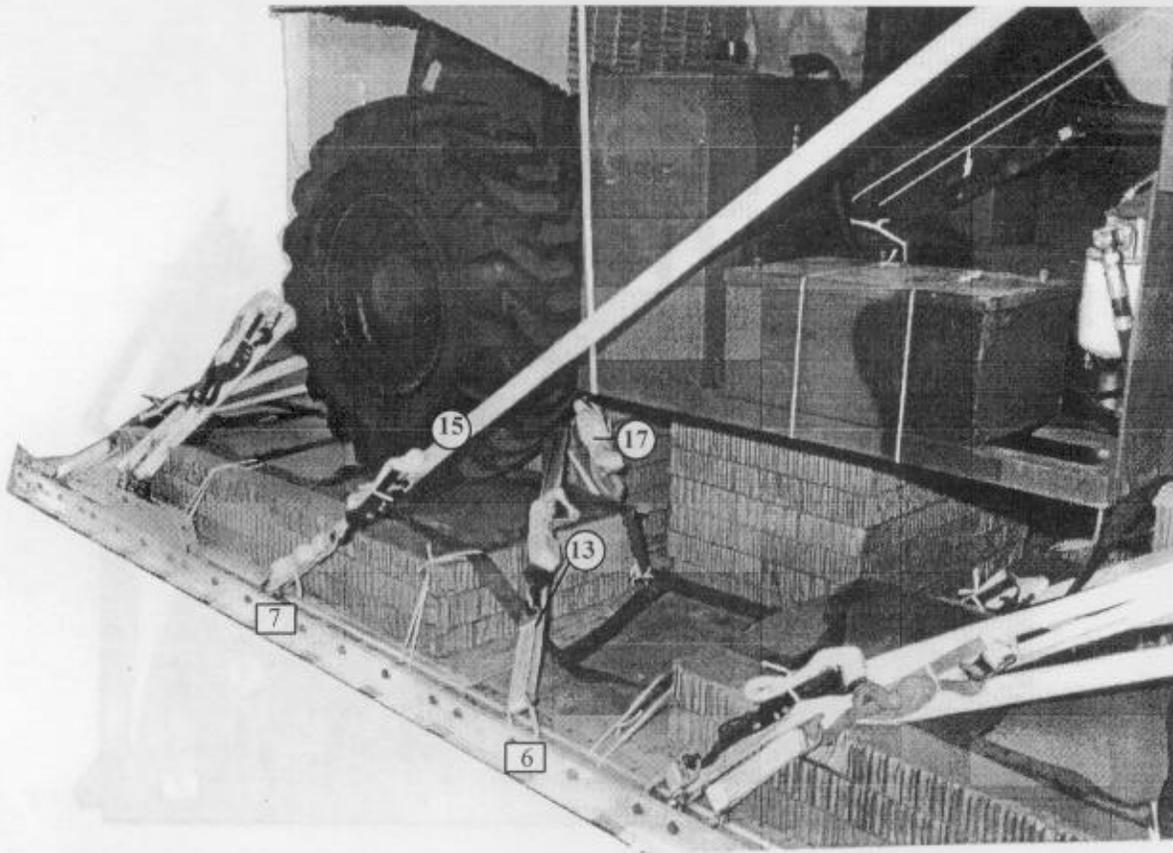
LASHING NUMBER	CLEVIS NUMBER	INSTRUCTIONS
		Pass lashing:
1	1	To fork's right side.
2	1A	To fork's left side.
3	2	To fork's carriage left side
4	3	To fork's carriage right side.

*Figure 5-29. Lashings 1 through 4 secured*



LASHING NUMBER	CLEVIS NUMBER	INSTRUCTIONS
		Pass lashing:
5	3	To front axle ring left side.
6	3A	To front axle ring right side.
7	4	To front axle right side.
8	4A	To front axle left side.
9	5	To front axle right side.
10	5A	To front axle left side.
11	A4	To front axle right side.
12	B4	To front axle left side.

Figure 5-30. Lashings 5 through 12 secured



LASHING NUMBER	CLEVIS NUMBER	INSTRUCTIONS
		Pass lashing:
		Note: *30-foot lashings.
13	6	To rear axle right side.
14	6A	To rear axle left side.
*15	7	To top lifting ring on fork's right side.
*16	7A	To top lifting ring on fork's left side.
17	A5	To rear axle right side.
18	B5	To rear axle left side.

Figure 5-31. Lashings 13 through 18 secured



LASHING NUMBER	CLEVIS NUMBER	INSTRUCTIONS
		Pass lashing:
19	9	To a medium clevis attached to right rear tie down point.
20	9A	To a medium clevis attached to left rear tie down point.
21	10	To towing pintle.
22	10A	To towing pintle.
23	11	To rear axle right side.
24	11A	To rear axle left side.

Figure 5-32. Lashings 19 through 24 secured

### 5-9. Building and Positioning Parachute Stowage Platform

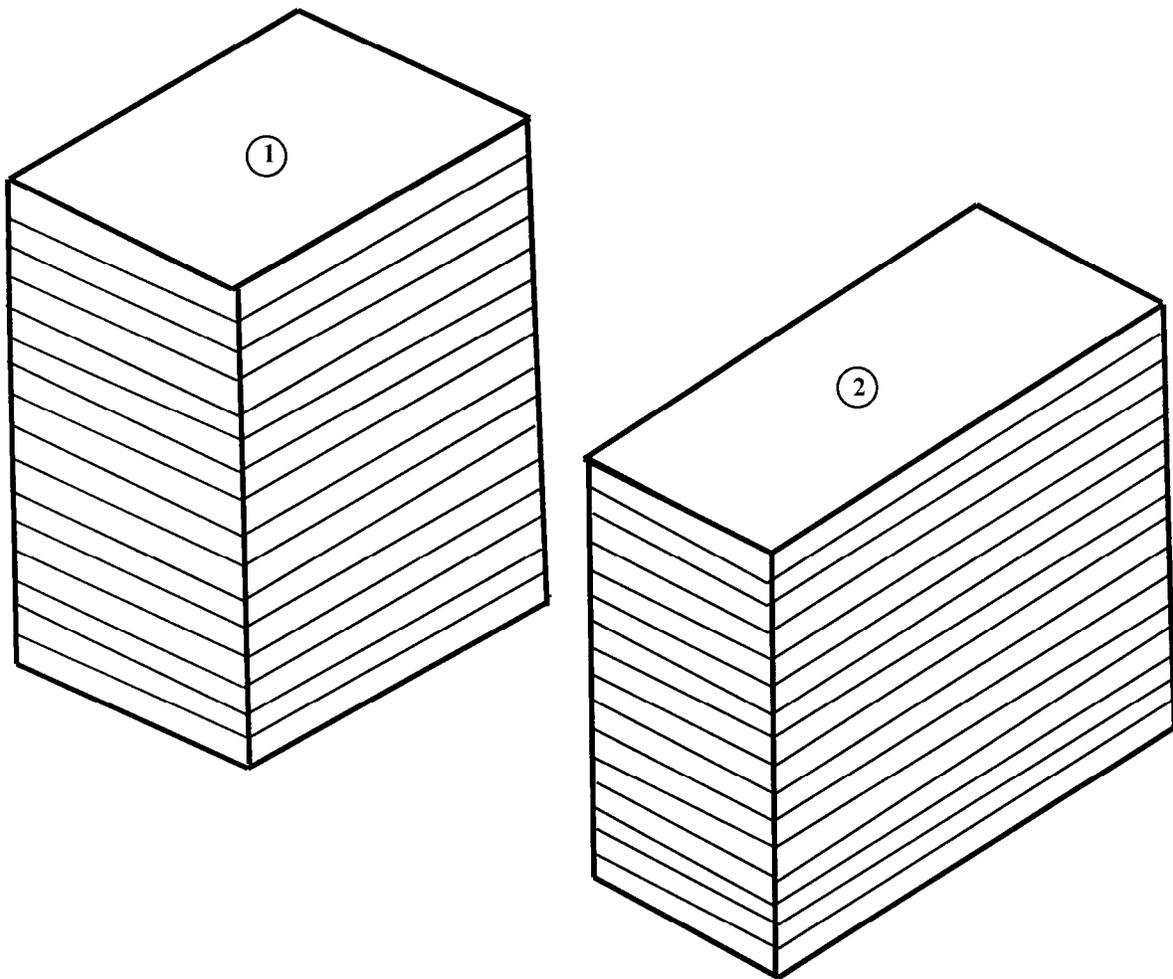
Build and position the parachute stowage platform as described below.

a. Build the honeycomb support stacks as shown in *Figure 5-33*.

b. Build a parachute stowage platform as shown in *Figure 5-34*.

c. Position the honeycomb support and parachute stowage platform. Lash the parachute stowage platform as shown in *Figure 5-35*.

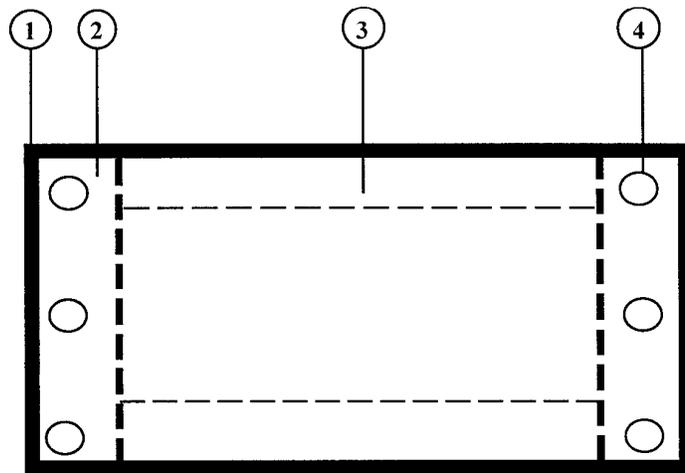
- Notes:
1. This drawing is not drawn to scale.
  2. All measurements are given in inches.



- ① Build two honeycomb support stacks by gluing sixteen 15- by 15-inch pieces of honeycomb together in each stack.
- ② Build a third honeycomb support stack by gluing sixteen 15-by 36-inch pieces of honeycomb together.

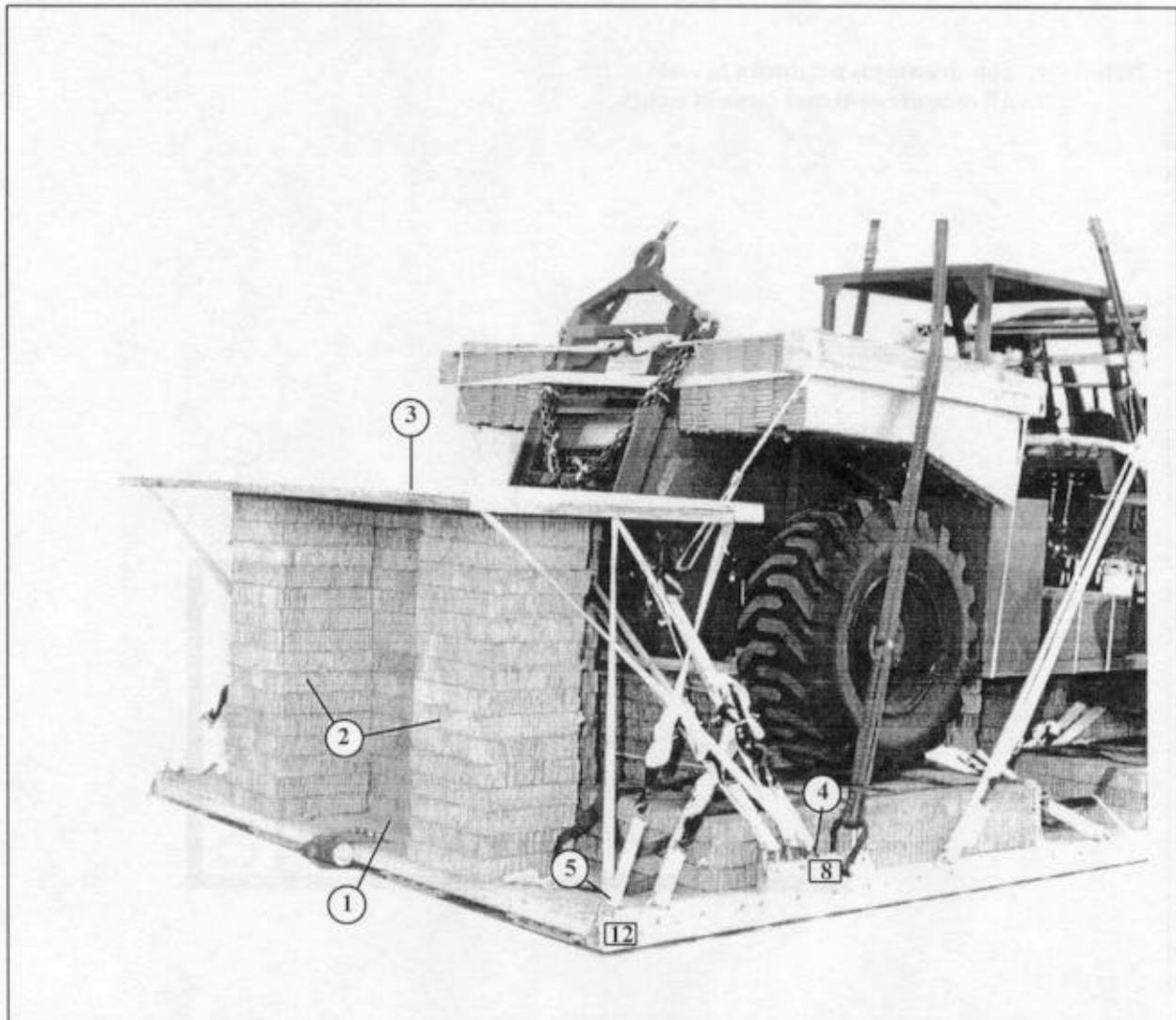
*Figure 5-33. Honeycomb support built*

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



- ① Cut a 3/4- by 48- by 82-inch piece of plywood.
- ② Cut two 2- by 6- by 48-inch pieces of lumber. Place each piece flush at each end of the plywood and secure with 10d nails.
- ③ Cut two 2- by 6- by 71-inch pieces of lumber. Place each piece flush at each side of the plywood and flush against the 2- by 6- by 48-inch pieces of lumber. Secure with 10d nails.
- ④ Drill six 2 inch holes as shown.

Figure 5-34. Detail of parachute stowage platform built

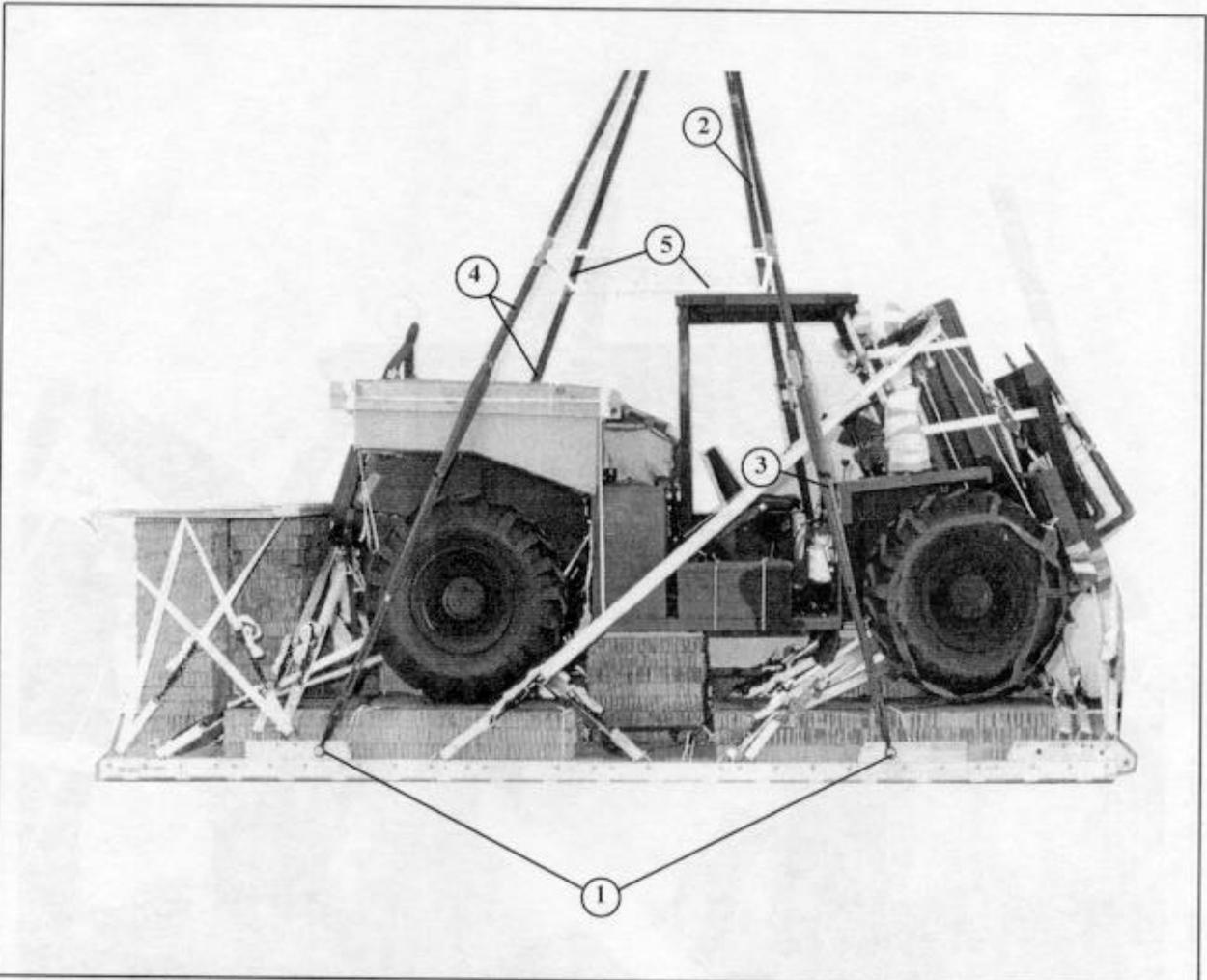


- ① Position honeycomb support 15 inches and centered from the rear of the platform.
- ② Position honeycomb supports flush with rear of the platform and 36 inches apart.
- ③ Position parachute stowage platform on top of honeycomb supports.
- ④ Pass a 15-foot lashing through clevis 8 and up through the right rear parachute stowage platform hole and down through the center right parachute stowage platform hole. Secure the ends with a D-ring and load binder.
- ⑤ Pass a 15-foot lashing through clevis 12 and up through the right center parachute stowage platform hole and down through the right front parachute stowage platform hole. Secure the ends with a D-ring and load binder.
- ⑥ Repeat steps 4 and 5 for the left side of load using clevises 8A and 12A (not shown).

Figure 5-35. Positioning and securing parachute stowage platform

### 5-10. Installing Suspension Slings and Deadman's Tie

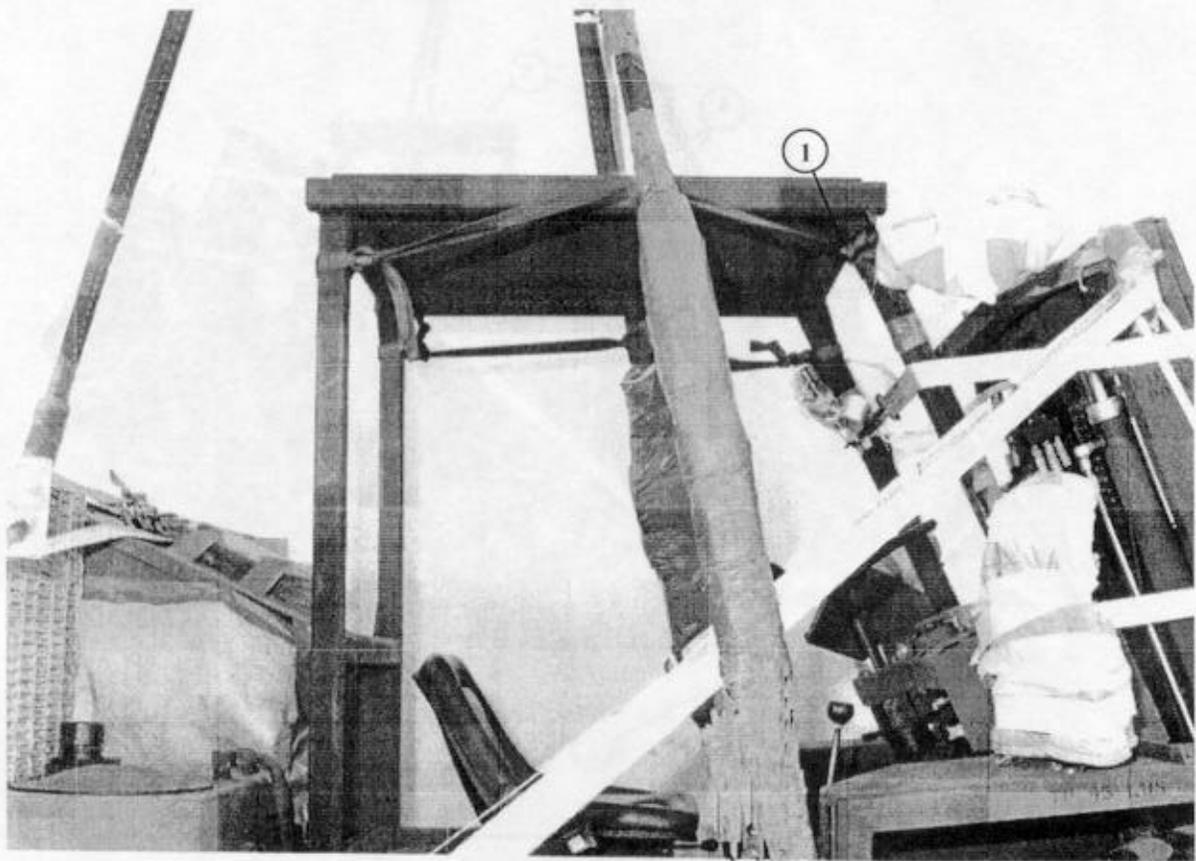
Install the suspension slings and deadman's tie as shown in Figures 5-36 through 5-38.



- ① Attach large clevises to the platform suspension links.
- ② Attach an 11-foot (2-loop), type XXVI nylon suspension sling to each front suspension link and half them through a 5.5-inch link. Attach the running end to the clevis.
- ③ Attach a 9-foot (4-loop), type XXVI nylon suspension sling to the end of the 5 1/2-inch link in step 2.
- ④ Attach a 16-foot (4-loop), type XXVI nylon suspension sling to each of the rear suspension links.
- ⑤ Raise the slings and install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

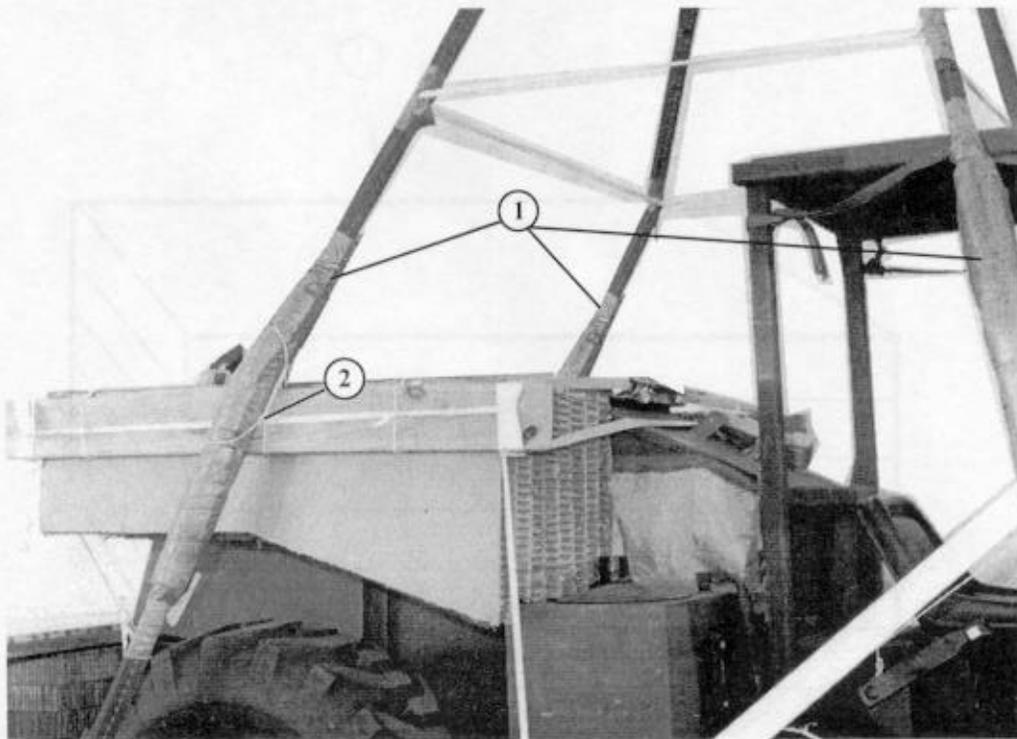
Figure 5-36. Suspension sling installed

**Note:** Do not safety tie to light brackets.



- ① With tension on slings, place a safety tie to each front slings using doubled 1-inch tubular nylon webbing and secure it to the driver's cab. **Do not safety tie to light brackets.**

*Figure 5-37. Suspension sling safetied*

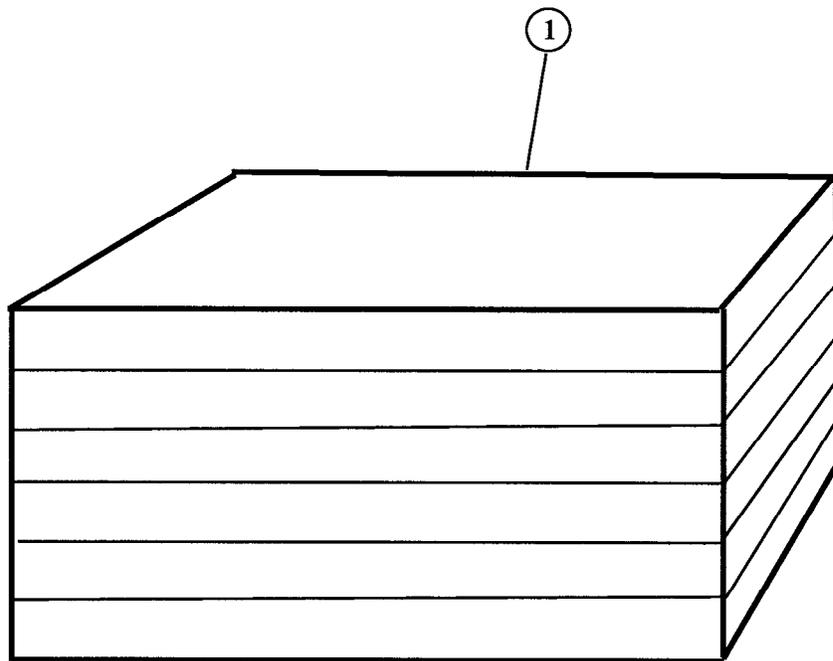


- ① Pad all four slings according to FM 10-500-2/TO 13C7-1-5. Ensure front suspension slings are padded 6 inches above the driver's cab and approximately 18 inches below the top of the front fenders.
- ② Safety tie the rear slings to the side of the lumber with type III nylon cord.

*Figure 5-38. Suspension sling safetied*

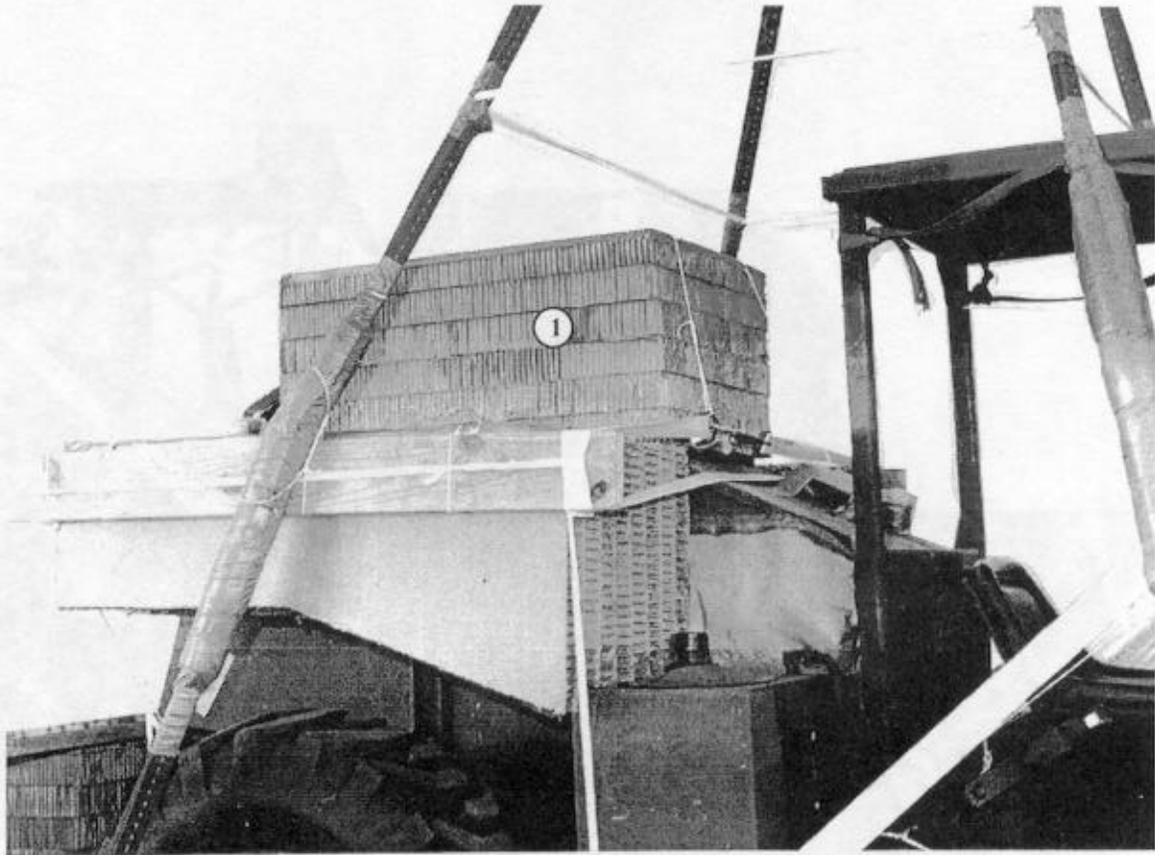
**5-11. Building and Positioning Parachute Release Tray**

Build a parachute release tray as shown in *Figure 5-39* and position the parachute release tray as shown in *Figure 5-40*.



① Cut and glue six pieces of 28-inch by 48-inch honeycomb together.

*Figure 5-39. Parachute release tray build*

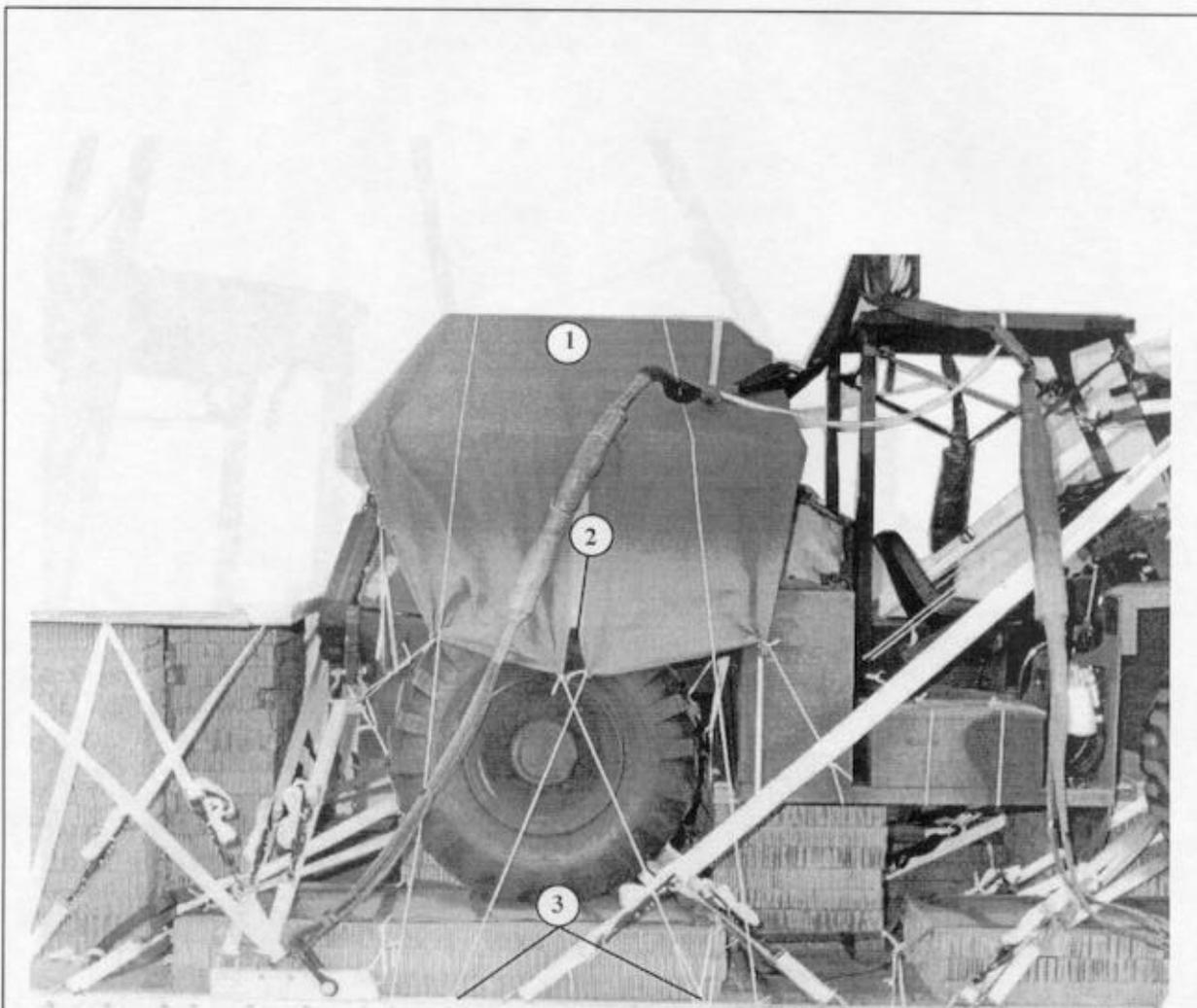


- ① Position the honeycomb stack on the forklift engine compartment and secure in place with type III nylon cord to convenient points.

*Figure 5-40. Parachute release tray positioned*

### 5-12. Positioning Load Cover

Position a 12-foot canvas load cover over the parachute release tray as shown in *Figure 5-41*.

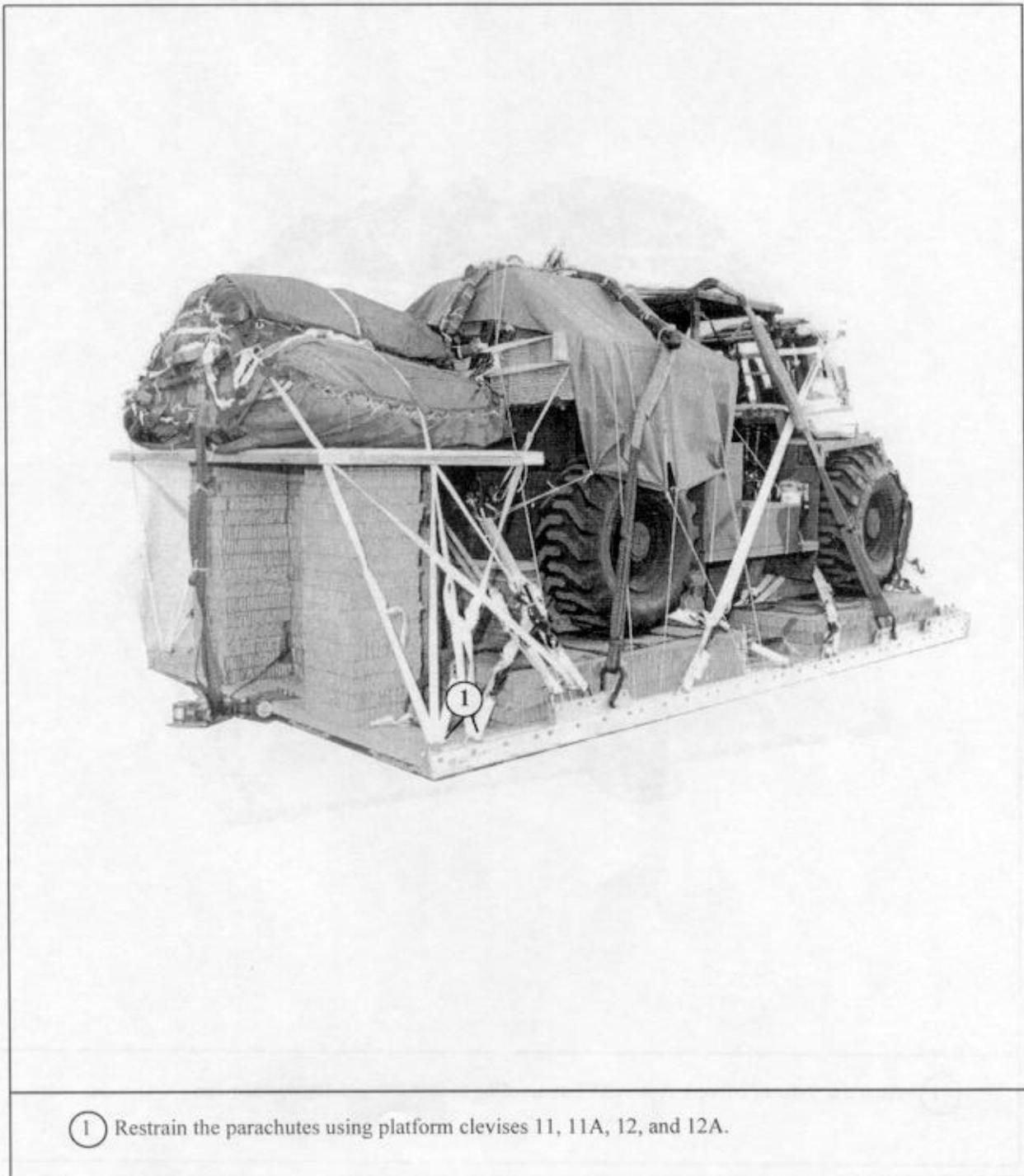


- ① Position a 12-foot canvas load cover over the honeycomb.
- ② Cut the side to allow for the safety tie of the rear slings.
- ③ Secure the cover in place with type III nylon cord tied to convenient points on the load.

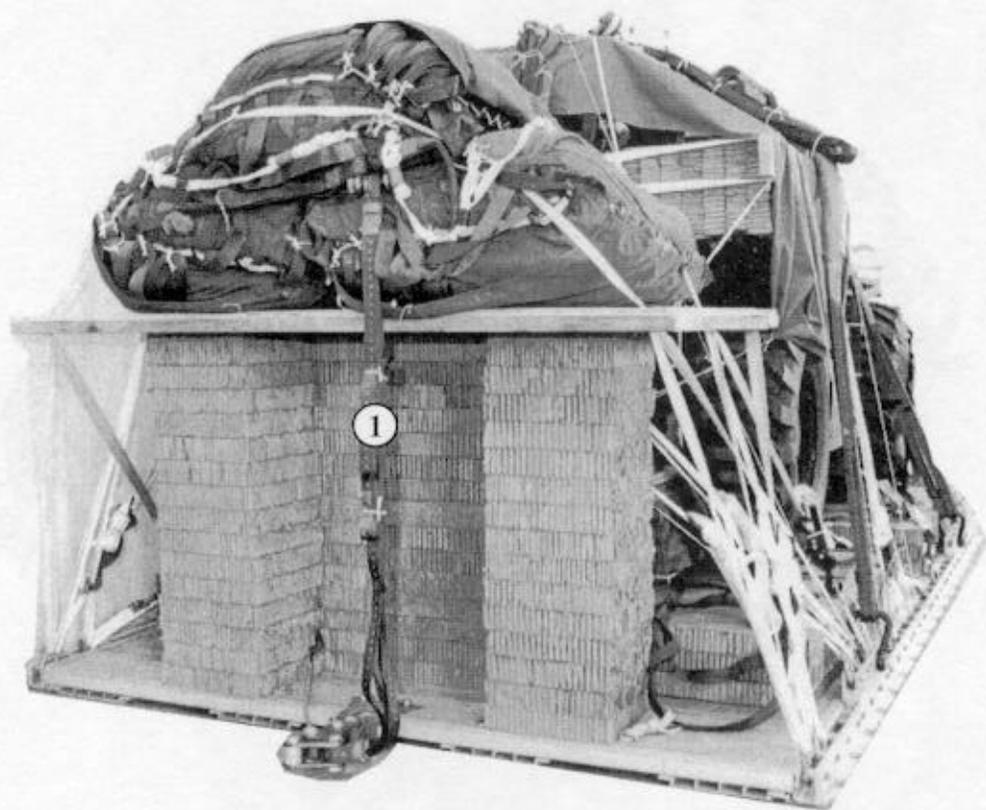
*Figure 5-41. Parachute release tray covered*

### 5-13. Stowing Cargo Parachute

Prepare, stow and restrain three G-11 cargo parachutes on the parachute stowage platform according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figures 5-42 and 5-43*.



*Figure 5-42. Cargo parachutes stowed*

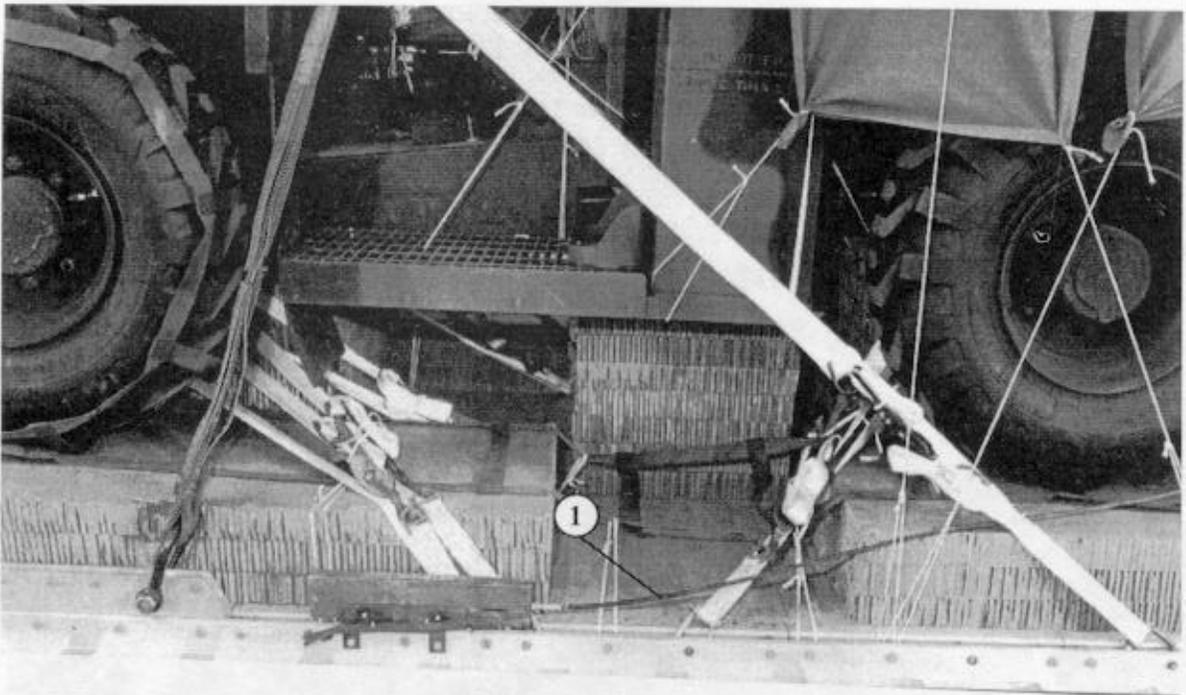


- 1 Attach a 9-foot (2-loop), type XXVI nylon sling to be used as a deployment line.

*Figure 5-43. Deployment line installed*

#### 5-14. Installing Extraction System

Install the extraction system according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 5-44*.

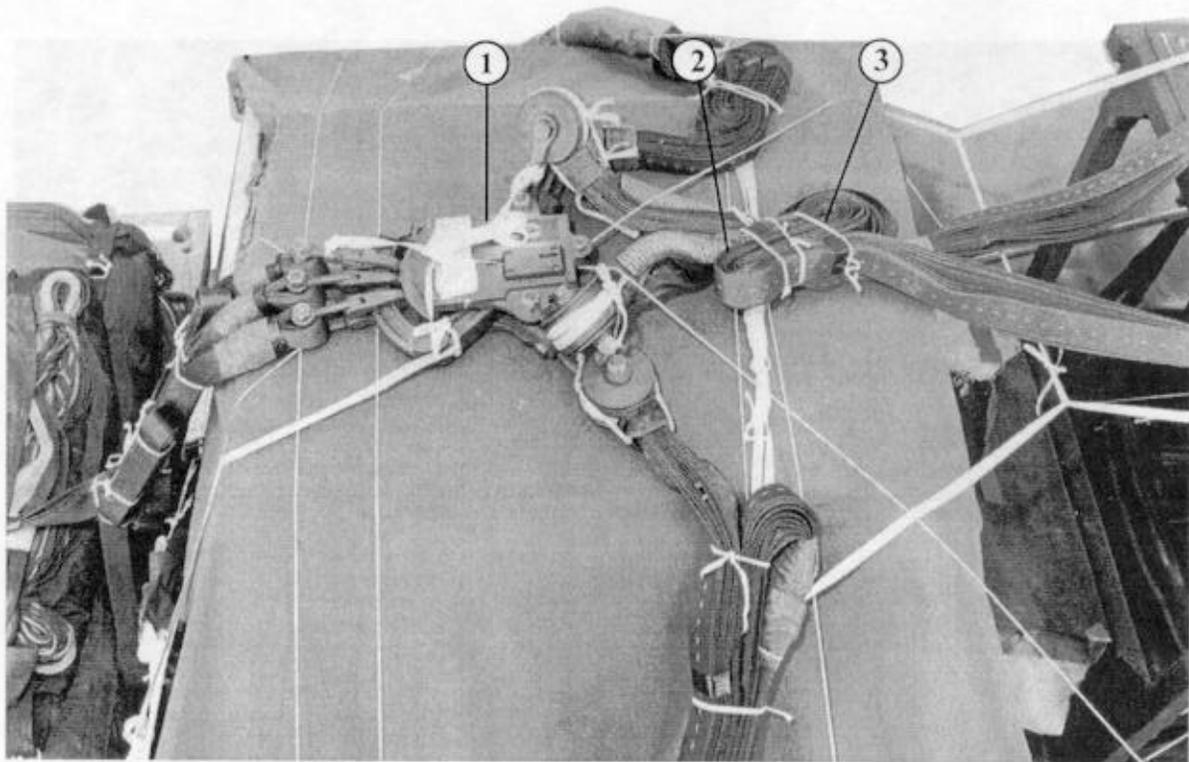


- ① Use a 12-foot EFTC cable and safety the cable to tie-down ring C8 using one turn type I, 1/4-inch cotton webbing.

*Figure 5-44. EFTC extraction system installed*

### 5-15. Installing Parachute Release

Prepare, attach, and safety an M-2 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 5-45*.



- ① Place the M-2 release on top of the load cover and safety it to convenient points on load.
- ② Attach the suspension slings and parachute riser extensions according to FM 10-500-2/TO 13C7-1-5.
- ③ S-fold the excess suspension slings, and tie it with type I, 1/4-inch cotton webbing.

*Figure 5-45. M-2 release installed*

**5-16. 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 line on the load for installation in the aircraft.

**5-17. Installing Provisions for Emergency Restraints**

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

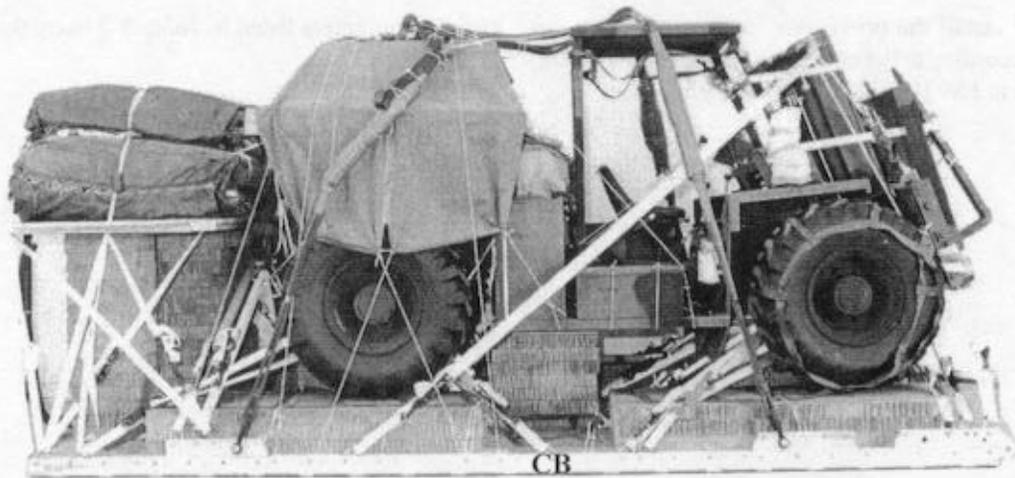
**5-18. Marking Rigged Load**

Mark the rigged load according to FM 10-500-2/ TO 13C7-1-5 and as shown in *Figure 5-46*. Complete Shipper's Declaration for Dangerous Goods and affix to load. If the load varies from the one shown, the weight, height, CB, tip off curve, and parachute requirements must be recomputed.

**5-19. Equipment Required**

Use the equipment listed in *Table 5-2* 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

Weight: Load shown	15,400 pounds
Maximum weight	15,600 pounds
Height	98 1/2 inches
Width	108 inches
Length	226 inches
Overhang: Front	15 inches
Rear	16 inches
Center of balance (CB): From front edge of platform	83 inches
Extraction system: Add 18 inches to length of platform	EFTC

Figure 5-46. M271 4,000-pound capacity forklift truck rigged on a type V platform for low-velocity airdrop

Table 5-2. Equipment required for rigging the M271 4,000-pound capacity forklift truck on a type V platform for low-velocity airdrop

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1 -gal	As required
1670-00-568-0323	Band, rubber, retainer	As required
	Clevis, suspension.	
4030-00-678-8562	3/4-in (medium)	2
4030-00-090-5354	1-in (large)	8
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
	Cover:	
1670-00-360-0328	Clevis, large	3
1670-00-360-0329	Link assembly (type IV)	7
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
8305-00-958-3685	Felt, 1/2-inch	As required
1670-01-183-2678	Left, extraction line	2
	Link assembly:	
	Two-point:	
5306-00-435-8994	Bolt, 1-in	4
5310-00-232-5165	Nut, 1-in	4
1670-00-003-1954	Plate, side, 5 1/2-in	4
1670-00-783-5988	Type IV	7
	Lumber:	
5510-00-220-6146	2- by 4-in:	
	22 1/2-in	2
	32-in	4
	37 1/2-in	3
5510-00-220-6148	2- by 6-in:	
	18-in	2
	24-in	4
	38-in	2
	48-in	2
	56-in	2
	71-in	2
5510-00-220-6274	4- by 4-in:	
	10-in	2
	Nail, steel wire, common:	
5315-00-010-4659	8d	As required
5315-00-010-6611	10d	As required
	Pad, energy-dissipating, honeycomb,	
1670-00-753-3928	3-by 36- by 96-in	26
	Parachute:	
	Cargo:	
1670-01-016-7841	G-11C	3
	Cargo extraction:	
1670-00-687-5458	22-ft	1
	Platform, AD. type V, 16-ft:	
	Bracket:	
1670-01-162-2375	Inside EFTA	(1)
1670-10-162-2374	Outside EFTA	(1)
1670-01-163-2372	Clevis assembly	(24)
1670-01-163-2376	Extraction bracket assembly	(1)
1670-01-243-2389	Suspension link	(4)

Table 5-2. Equipment required for rigging the M271 4,000-pound capacity forklift truck on a type V platform for low-velocity airdrop (continued)

National Stock Number	Item	Quantity
1670-01-163-2381	Tandem link	(2)
5530-00-129-7777	Plywood: 1/2-in: 38- by 4-in	(2)
5530-00-128-4981	3/4-in: 4- by 6-in	(1)
	16- by 24-in	(1)
	34- by 24-in	(2)
	38- by 4-in	(1)
	42- by 6-in	(1)
	42- by 18-in	(2)
	42- by 32-in	(1)
	42- by 37 1/2-in	(2)
	42- by 44-in	(2)
	82- by 48-in	(1)
1670-01-097-8817	Release, cargo parachute, M-2	1
	Sling, cargo airdrop: For deployment:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing <i>or</i>	1
1670-01-062-6305	9-ft (4-loop), type XXVI nylon webbing	1
	For extraction:	
1670-01-062-6313	60-ft (3-loop), type XXVI nylon webbing (C-130 aircraft)	1
1670-01-107-7651	140-ft (3-loop), type XXVI nylon webbing (C-141 aircraft)	1
	For lifting:	
1670-01-062-6305	9-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-6307	12-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-6306	3-ft (4-loop), type XXVI nylon webbing	1
	For moving:	
1670-01-062-6301	3-ft (2-loop), type XXVI nylon webbing	2
1670-01-062-6310	11-ft (4-loop), type XXVI nylon webbing	2
	For suspension:	
1670-01-062-6305	9-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-7760	11-ft (2-loop), type XXVI nylon webbing	2
1670-01-062-6308	16-ft (4-loop), type XXVI nylon webbing	2
	For riser extensions:	
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	6
	Strap:	
1670-00-040-8219	Parachute release, multi-cut with 3 knives	2
7510-00-266-5016	Tape, masking, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	36
1670-00-431-8486	Vehicle drive-off aids	1
	Webbing:	
8305-00-268-2411	Cotton, 1/4-inch, type I	As required
	Nylon:	
	Tubular:	
8305-00-082-5752	1/2-in, natural <i>or</i>	As required
8305-00-268-2453	1/2-in, olive drab	As required

## GLOSSARY

---



---

<b>ACB</b>	attitude control bar	<b>gal</b>	gallon
<b>AD</b>	Airdrop	<b>HQ</b>	headquarters
<b>AFB</b>	Air Force base	<b>in</b>	inch
<b>AFR</b>	Air Force regulation	<b>K</b>	thousand
<b>AFTO</b>	Air Force Technical Order	<b>LAPE</b>	low-altitude parachute-extraction
<b>ALC</b>	Airlift Logistics Center	<b>LAPES</b>	low-altitude parachute-extraction system
<b>attn</b>	attention	<b>lb</b>	pound
<b>C</b>	change	<b>no</b>	number
<b>CB</b>	center of balance	<b>psi</b>	pounds per square inch
<b>d</b>	penny	<b>ROPS</b>	roll-over protection structure
<b>DA</b>	Department of the Army	<b>TM</b>	technical manual
<b>DC</b>	District of Columbia	<b>TO</b>	technical order
<b>DD</b>	Department of Defense	<b>TRADOC</b>	United States Army Training and Doctrine Command
<b>diam</b>	diameter	<b>US</b>	United States
<b>ea</b>	each	<b>VA</b>	Virginia
<b>EFTA</b>	extraction force transfer actuator	<b>w</b>	with
<b>EFTC</b>	extraction force transfer coupling	<b>yd</b>	yard
<b>FM</b>	field manual		
<b>ft</b>	feet/foot		

## REFERENCES

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

AFR 76-4/AR 59-4	<i>Joint Airdrop Inspection Records, Malfunction Investigation and Activity Reporting. 27 November 1984</i>
*AFJMAN 24-204/TM 38-250/ NAVSUP PUB 505/MCO 4030.19F/DLAM 4145.3	<i>Preparing Hazardous Materials for Military Air Shipments. 25 November 1994</i>
FM 10-500-2/TO 13C7-1-5	<i>Airdrop of Supplies and Equipment: Rigging Airdrop Platforms. 1 November 1990</i>
TM 10-1670-268-20&P/TO 13C7-52-22	<i>Organizational Maintenance Manual With Repair Parts and Special Tools List: Type V Airdrop Platform. 1 June 1986</i>
TM 10-1670-278-23&P/TO 13C5-26-2/NAVAIR 13-1-27	<i>Unit and Intermediate Direct Support (DS) Maintenance Manual (Including Repair Parts and Special Tools List) for Parachute, Cargo Type: 15-Foot Diameter, Cargo Extraction Parachute. 6 November 1989</i>
TM 10-1670-280-23&P/TO 13C5-31-2/NAVAIR 13-1-31	<i>Unit and Intermediate Direct Support (DS) Maintenance Manual (Including Repair Parts and Special Tools List) for Parachute, Cargo Type: 100-Foot Diameter, Model G-11A, Model G-11B and Model G-11C. 5 August 1991</i>
TM 10-1670-286-20/TO 13C5-2-41	<i>Unit Maintenance Manual for Sling/ Extraction Line Panel (Including Stowing Procedures). 1 April 1986.</i>
AFTO Form 22	<i>Technical Order Publications Improvement Report. April 1973</i>
DA Form 2028	<i>Recommended Changes to Publications and Blank Forms. February 1974</i>
**Shipper's Declaration for Dangerous Goods	<i>Locally Procured Form</i>
DD Form 1748 Series	<i>Joint Airdrop Inspection Record</i>

\*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 and Change 1 still reference the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.

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