

## CHAPTER 2

# RIGGING M1081, 2 1/2-TON CARGO TRUCK ON A 24-FOOT TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

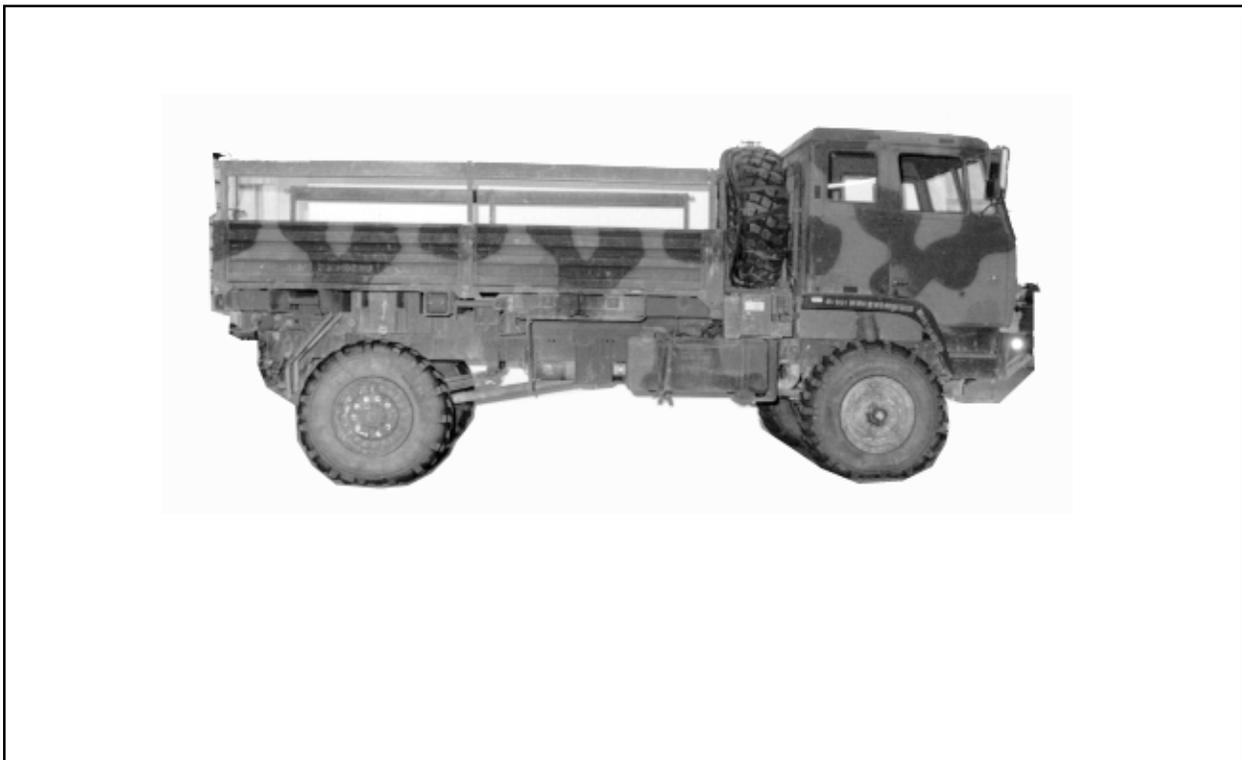
### Section I

#### RIGGING M1081, 2 1/2-TON CARGO TRUCK WITH BASIC LOAD

##### 2-1. Description of Load

The M1081, 2 1/2-ton cargo truck (*Figure 2-1*) is rigged on a 24-foot, type V airdrop platform with five G-11 cargo parachutes.

The load consists of the M1081, 2 1/2-ton cargo truck and basic load. This load is 93 inches in height, 108 inches in width, 315 inches in length and has a rigged weight of 23,181 pounds.

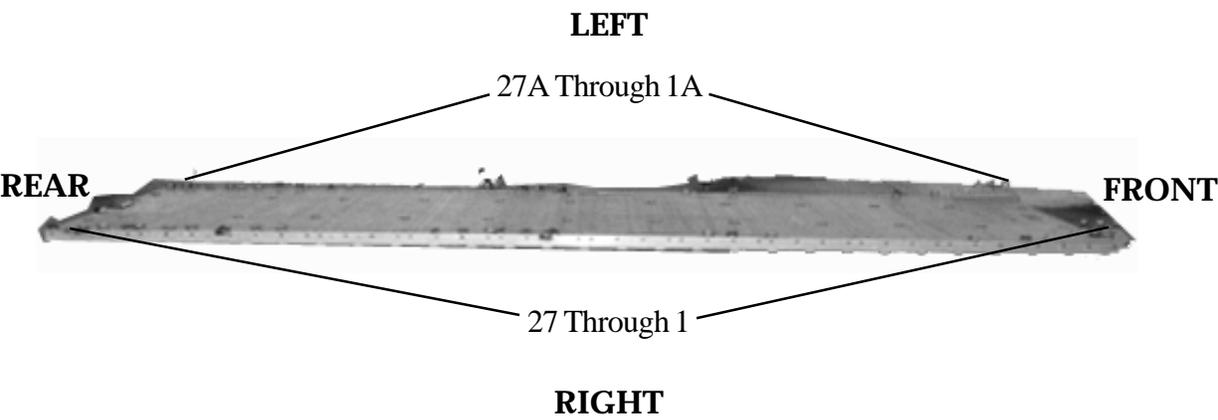


*Figure 2-1. M1081, 2 1/2-ton cargo truck*

### 2-2. Preparing Platform

Prepare a 24-foot, type V platform as shown in *Figure 2-2*.

**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, a 24-foot, type V airdrop platform as outlined in TM 10-1670-268-20&P/TO 13C7-52-22.
2. Install a tandem multi-purpose link to each platform side rail using holes 1, 2, and 3.
3. Attach clevises to each tandem link using bushings 1, 2, (tripled), and 3.
4. Starting at the front of each platform side rail, install clevises using bushings bolted to holes 5, 7, 16, 18, 19, 26 (doubled), 27, 28, 29, 30, 31, 39, 41 (doubled), 42, 43, 44, 45, 46, 47, (tripled), and 48.
5. Starting at the front of the platform, number the clevises 1 through 27 on the right side and 1A through 27A on the left side.

*Figure 2-2. Platform prepared*

**2-3. Preparing Honeycomb Stacks**

Use the material in *Table 2-1* to prepare 10 honeycomb stacks as shown in *Figures 2-3 through 2-10*.

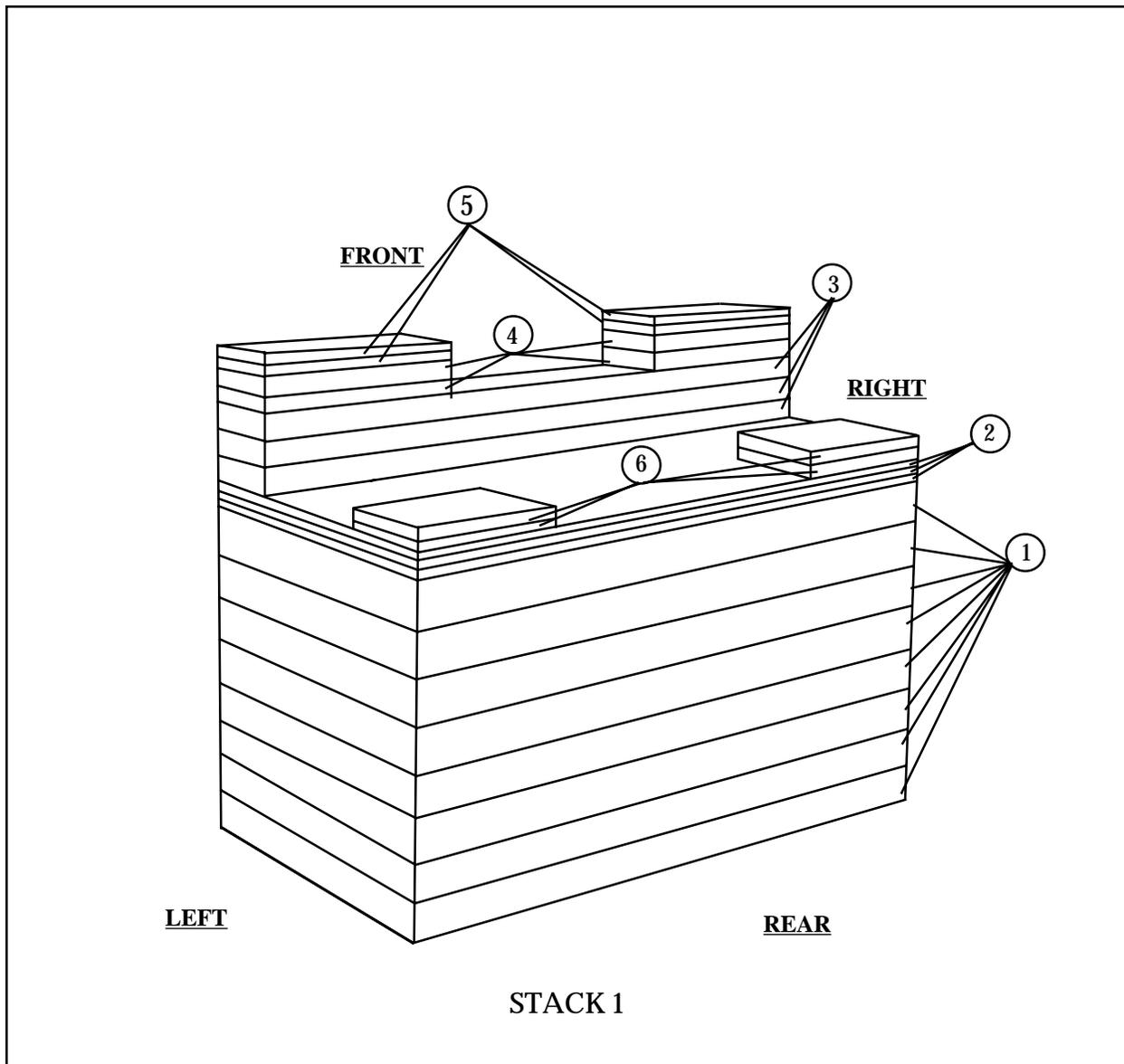
*Table 2-1. Material needed to build honeycomb stacks.*

<b>Stack Number</b>	<b>Pieces</b>	<b>Width (Inches)</b>	<b>Length (Inches)</b>	<b>Material</b>	<b>Instructions</b>
1	8	43	24	Honeycomb	See <i>Figure 2-3</i> .
	3	43	24	3/4-inch Plywood	
	3	2- by 8	43	Lumber	
	4	2- by 8	12	Lumber	
	4	12	7 1/2	3/4-inch Plywood	
	4	14	7	3/4-inch Plywood	
2	5	48	18	Honeycomb	See <i>Figure 2-4</i> .
	2	48	18	3/4-inch Plywood	
	2	2- by 6	18	Lumber	
	6	18	5 1/2	3/4-inch Plywood	
3	2	36	46	Honeycomb	See <i>Figure 2-5</i> .
	2	12	46	Honeycomb	
	12	18	46	Honeycomb	
	6	12	36	Honeycomb	
	4	48	46	3/4-inch Plywood	
	2	2- by 8	26 1/2	Lumber	
	1	7 1/2	26 1/2	1/2-inch Plywood	
	2	7 1/2	8	3/4-inch Plywood	
	1	8	16	3/4-inch Plywood	
	1	8	6	3/4-inch Plywood	
	1	10	10	3/4-inch Plywood	
	4	12	14	3/4-inch Plywood	
4	2	36	44	Honeycomb	See <i>Figure 2-6</i> .
	2	12	44	Honeycomb	
	12	18	44	Honeycomb	
	6	12	36	Honeycomb	
	3	48	44	3/4-inch Plywood	
	1	2- by 6	48	Lumber	
	2	2- by 12	34	Lumber	
	6	2- by 6	21	Lumber	
	6	2- by 12	12	Lumber	

Table 2-1. Material needed to build honeycomb stacks (continued).

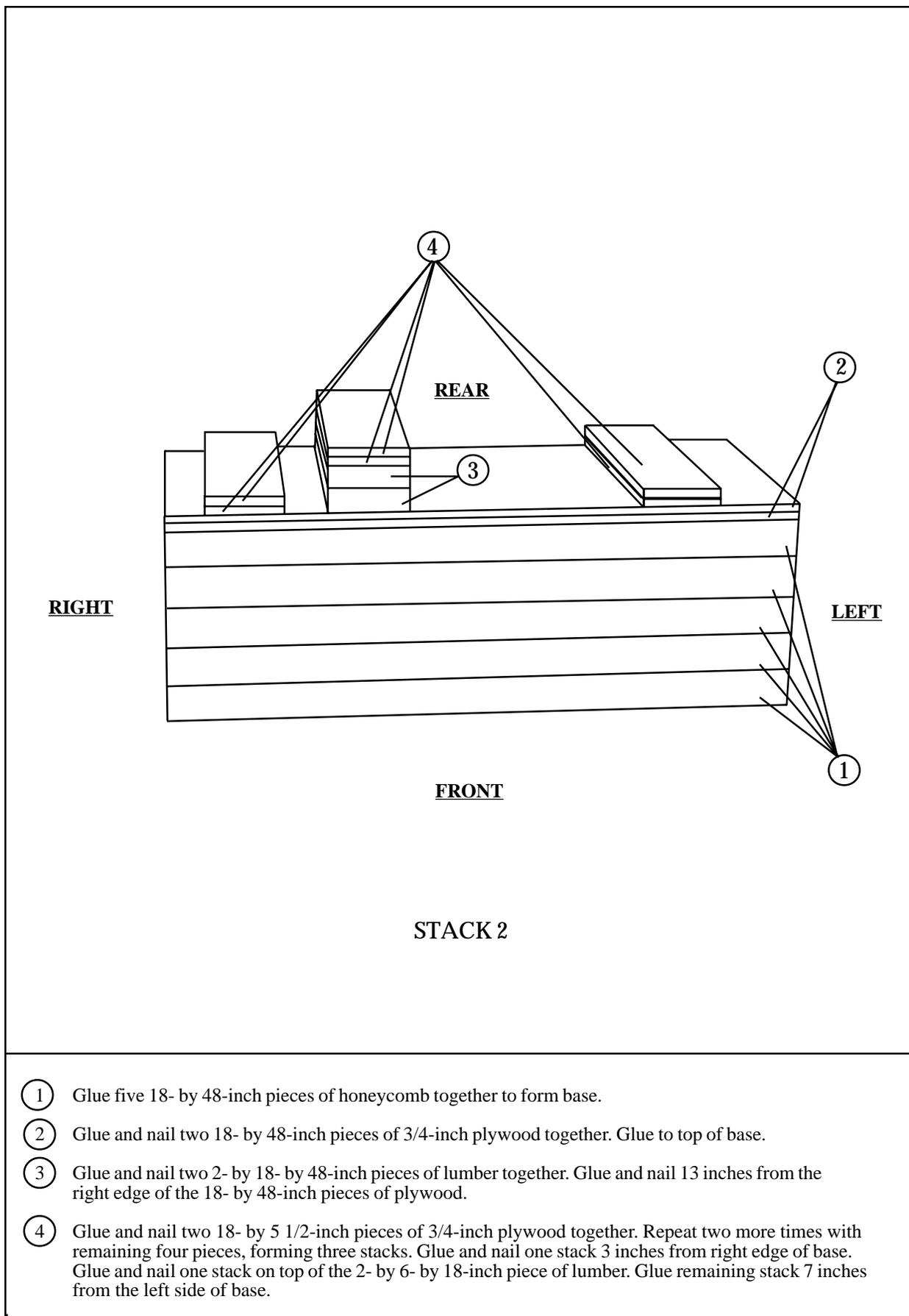
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
5	5	60	18	Honeycomb	See Figure 2-7.
	2	60	18	3/4-inch Plywood	
	2	2- by 6	18	Lumber	
	6	5 1/2	18	3/4-inch Plywood	
6	8	48	18	Honeycomb	See Figure 2-8.
	3	48	18	3/4-inch Plywood	
	4	2- by 6	45	Lumber	
	6	2- by 6	8	Lumber	
	3	2- by 6	33	Lumber	
7	1	18	96	Honeycomb	See Figure 2-9.
8	1	18	96	Honeycomb	See Figure 2-9.
9	1	18	74	Honeycomb	See Figure 2-10.
10	1	18	74	Honeycomb	See Figure 2-10.

**NOTE:** On all stacks the plywood must be cut to fit lumber. **EXAMPLE:** An 11 1/2- by 24 inch piece of plywood sits on a 2- by 12- by 24-inch piece of lumber but hangs over a 1/2 inch on the 11 1/2 inch side. Cut it to 11 by 24 inches to insure it fits. This is not due to improper measurements but to the fact that lumber varies in true sizes.



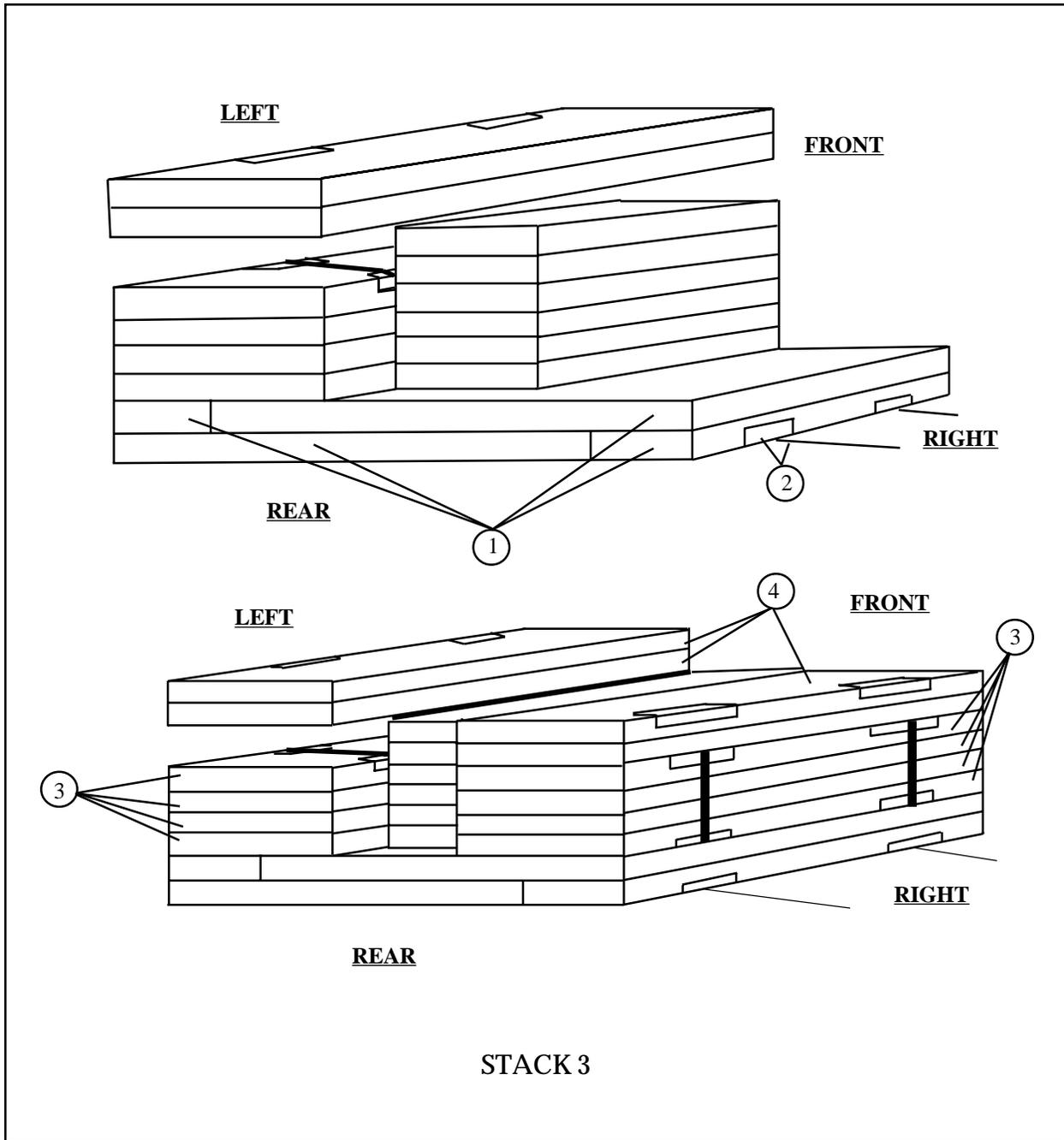
- ① Glue eight 43- by 24-inch pieces of honeycomb together to form a base.
- ② Glue and nail three 43- by 24-inch pieces of 3/4-inch plywood together. Glue the plywood to the top of the base.
- ③ Glue and nail three 2- by 8- by 43-inch pieces of lumber together. Center and glue the lumber flush with the front of base.
- ④ Glue and nail two 2- by 8- by 12-inch pieces of lumber together. Repeat with remaining two pieces, forming two stacks. Glue and nail one stack to the right side, and the other stack to the left side of previous 2- by 8- by 43-inch piece of lumber.
- ⑤ Glue and nail two 12- by 7 1/2- by 3/4-inch pieces of plywood together. Repeat with remaining two pieces, forming two stacks. Glue and nail one stack to the right side, and the other stack to the left side of previous 2- by 8- by 12-inch piece of lumber.
- ⑥ Glue and nail two 14- by 7- by 3/4-inch pieces of plywood together. Repeat with remaining two pieces, forming two stacks. Glue one stack to the rear right side, and the other stack to the rear left side of base.

Figure 2-3. Stack 1 prepared



- ① Glue five 18- by 48-inch pieces of honeycomb together to form base.
- ② Glue and nail two 18- by 48-inch pieces of 3/4-inch plywood together. Glue to top of base.
- ③ Glue and nail two 2- by 18- by 48-inch pieces of lumber together. Glue and nail 13 inches from the right edge of the 18- by 48-inch pieces of plywood.
- ④ Glue and nail two 18- by 5 1/2-inch pieces of 3/4-inch plywood together. Repeat two more times with remaining four pieces, forming three stacks. Glue and nail one stack 3 inches from right edge of base. Glue and nail one stack on top of the 2- by 6- by 18-inch piece of lumber. Glue remaining stack 7 inches from the left side of base.

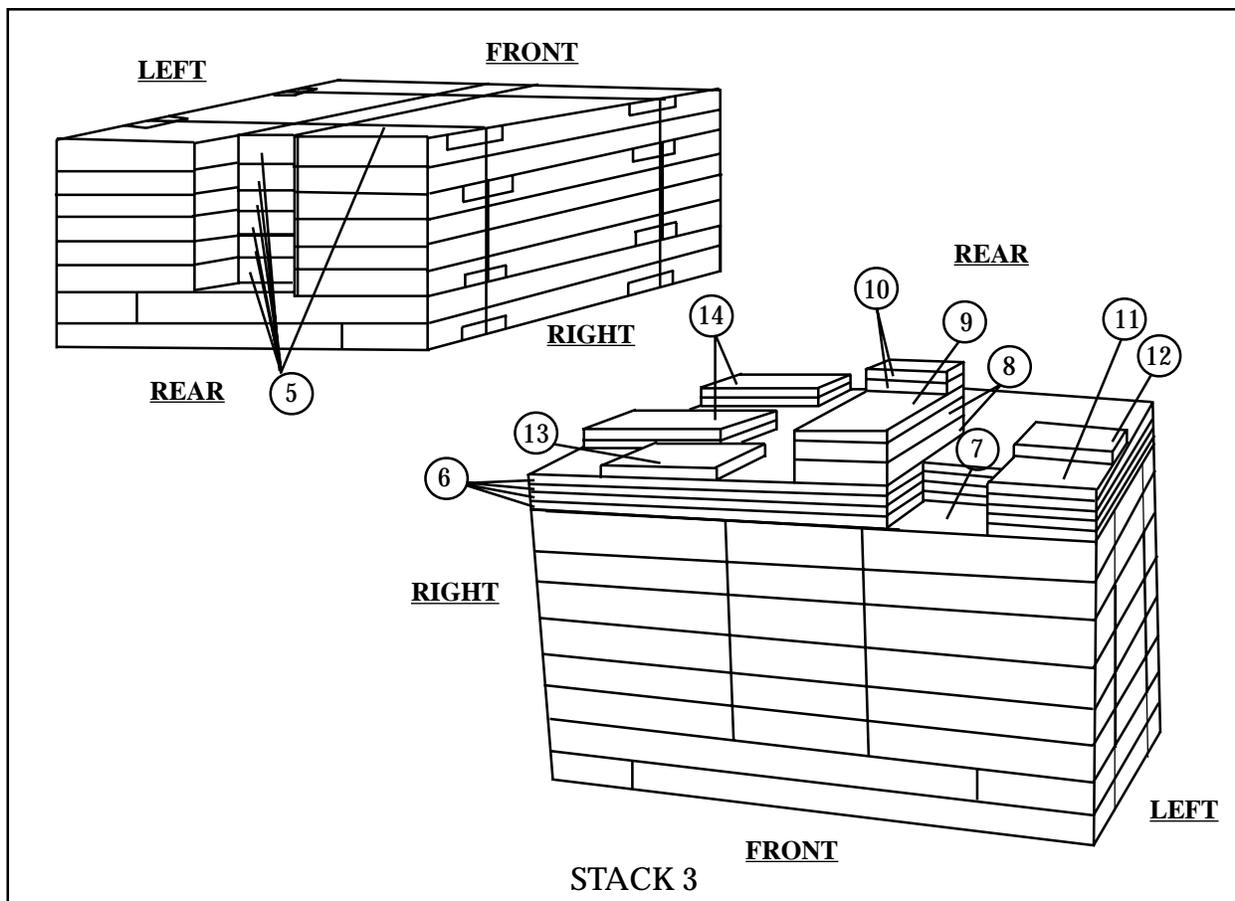
Figure 2-4. Stack 2 prepared



**STACK 3**

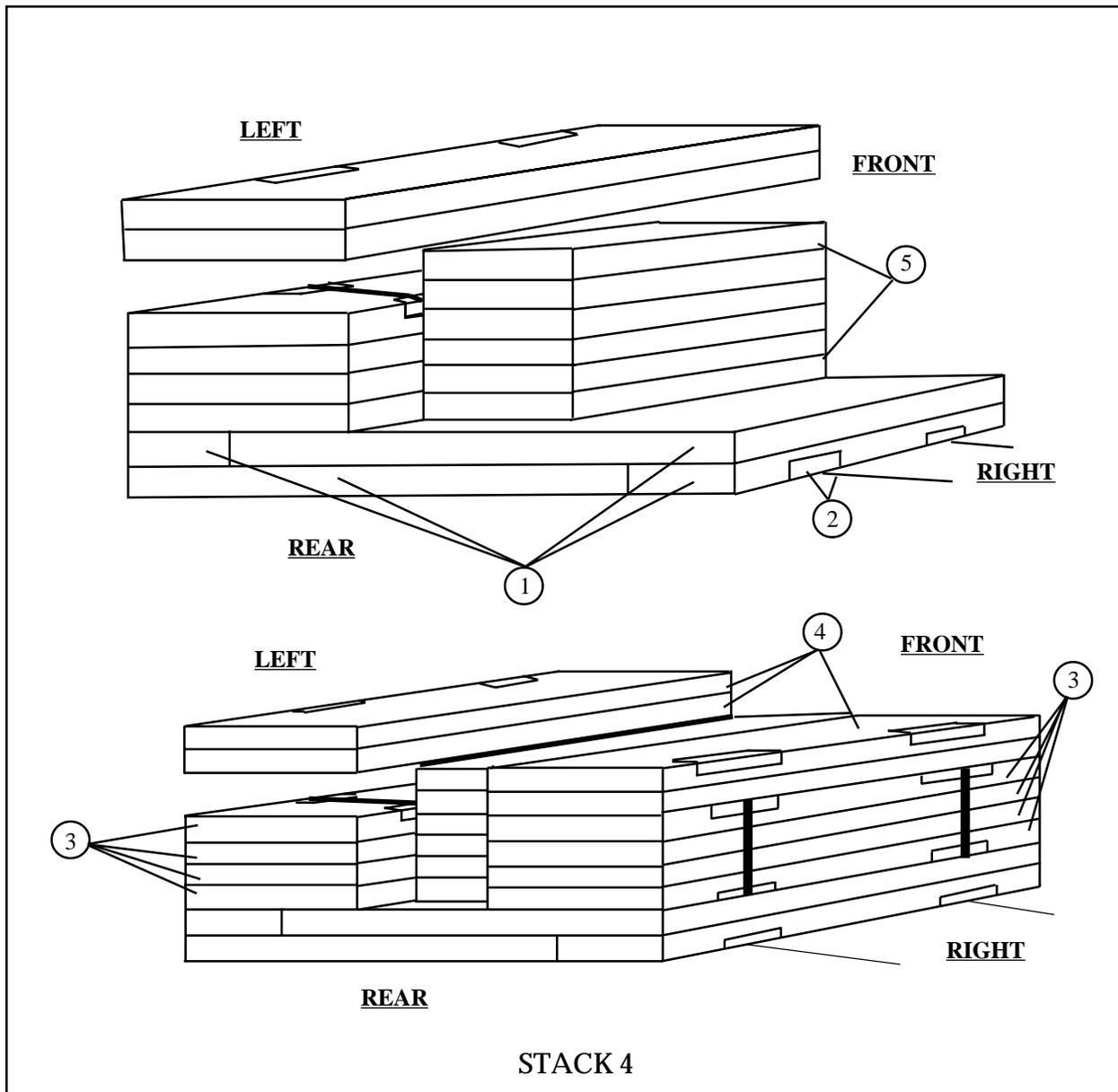
- ① Position a 36- by 46-inch piece of honeycomb beside a 12- by 46-inch piece of honeycomb. Alternate and glue a 36- by 46-inch piece of honeycomb and a 12- by 46-inch piece of honeycomb on top of the pieces of honeycomb to form the base.
- ② Place length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base aligned with the strips of tape.
- ③ Form two stacks by gluing four 12- by 46-inch pieces of honeycomb together. Place length of tape on all edges. Run two lengths of 1/2-inch tubular nylon webbing over the strips of tape and around the stack. Secure and tie with a square knot on the outside of the stack. Place on the left and right sides of base (**Do NOT glue to base**).
- ④ Form two stacks by gluing two 12- by 46-inch pieces of honeycomb together. Place length of cloth backed tape on the outer edges (**Do NOT glue to stacks**). Position one stack on each of the previous stacks.

Figure 2-5. Stack 3 prepared



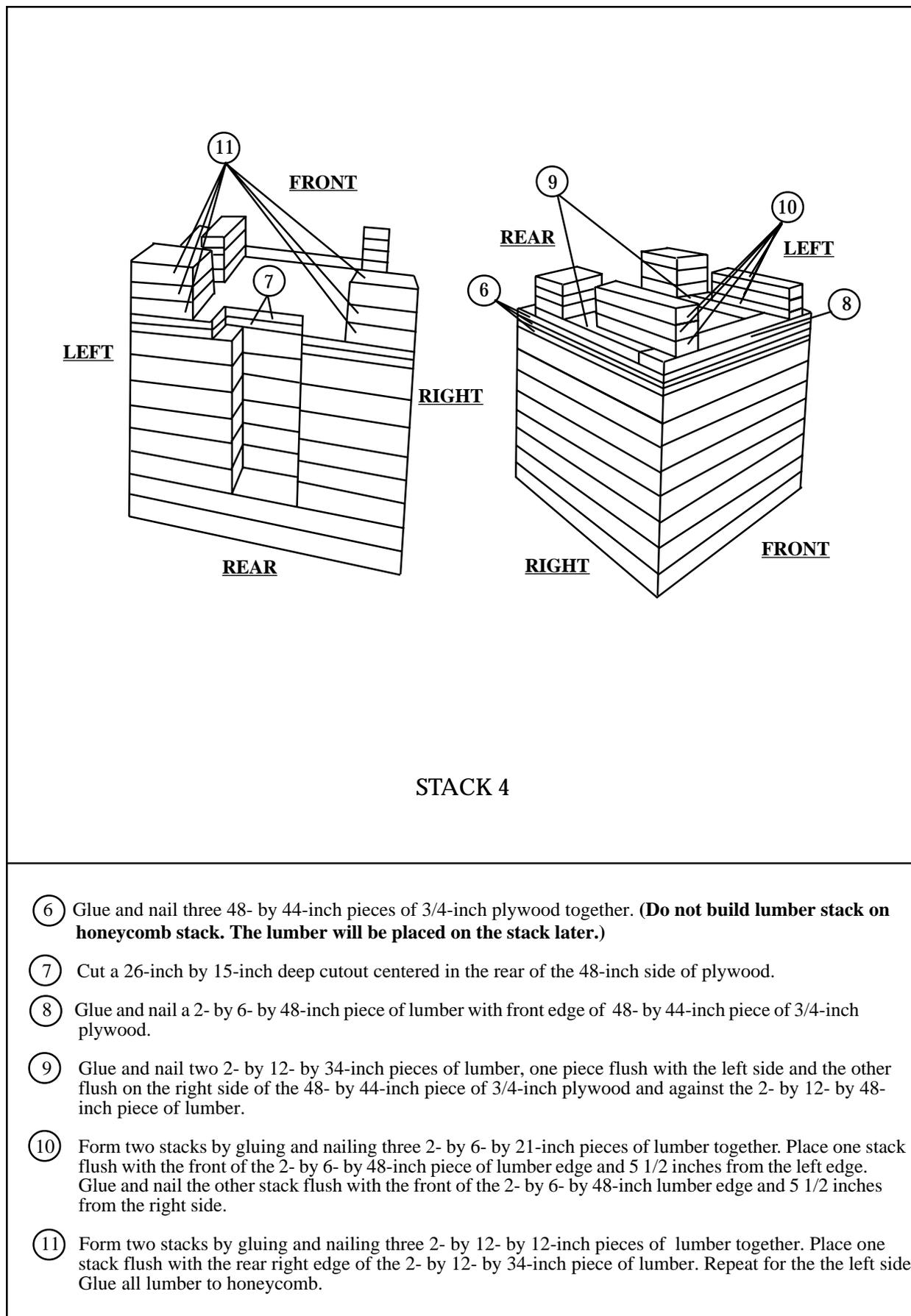
- 5 Glue six 12- by 36-inch pieces of honeycomb together to form a stack. Position between 18- by 46-inch stacks and flush with the front of base (**Do NOT glue to base**). Secure and tie the type III nylon cord around the completed honeycomb stack.
- 6 Glue and nail four 48- by 46-inch pieces of 3/4-inch plywood together. (**Do not build lumber stack on honeycomb stack. The lumber will be placed on the stack later.**)
- 7 Cut an 8-inch long, 12-inch deep cutout in the front of each of the 48-inch sides of plywood and 8 inches from the left 46 inch side of the plywood.
- 8 Glue and nail two 2- by 8- by 26 1/2-inch pieces of lumber flush with front edge and right edge of cutout. Glue and nail each piece separately.
- 9 Glue and nail a 7 1/2- by 26 1/2-inch piece of 1/2-inch plywood on top of the 2- by 8- by 26 1/2-inch piece of lumber.
- 10 Glue and nail two 7 1/2- by 8-inch pieces of 3/4-inch plywood. Glue the plywood flush and to the rear of the 7 1/2- by 26 1/2-inch pieces of 1/2-inch plywood.
- 11 Glue and nail a 8- by 16-inch piece of 3/4-inch plywood flush with front left edge of the 48- by 46-inch piece of 3/4-inch plywood.
- 12 Glue and nail a 8- by 6-inch piece of 3/4-inch plywood flush with rear left edge of the 8- by 16-inch piece of 3/4-inch plywood.
- 13 Glue and nail a 10- by 10-inch piece of 3/4-inch plywood flush with front edge, 8 inches from right side.
- 14 Form two stacks by gluing and nailing two 12- by 14-inch pieces of 3/4-inch plywood together. Position one stack against the rear edge of the 10- by 10-inch piece of 3/4-inch plywood. Ensure the 12 inch side is flush with right edge of the 48- by 46-inch piece of 3/4-inch plywood. Glue and nail the other stack flush with right rear edge of the 48- by 46-inch piece of 3/4-inch plywood. Ensure the 12 inch side is flush with right edge of the 48- by 46-inch piece of 3/4-inch plywood. Glue all lumber to honeycomb base.

Figure 2-5. Stack 3 prepared (continued)



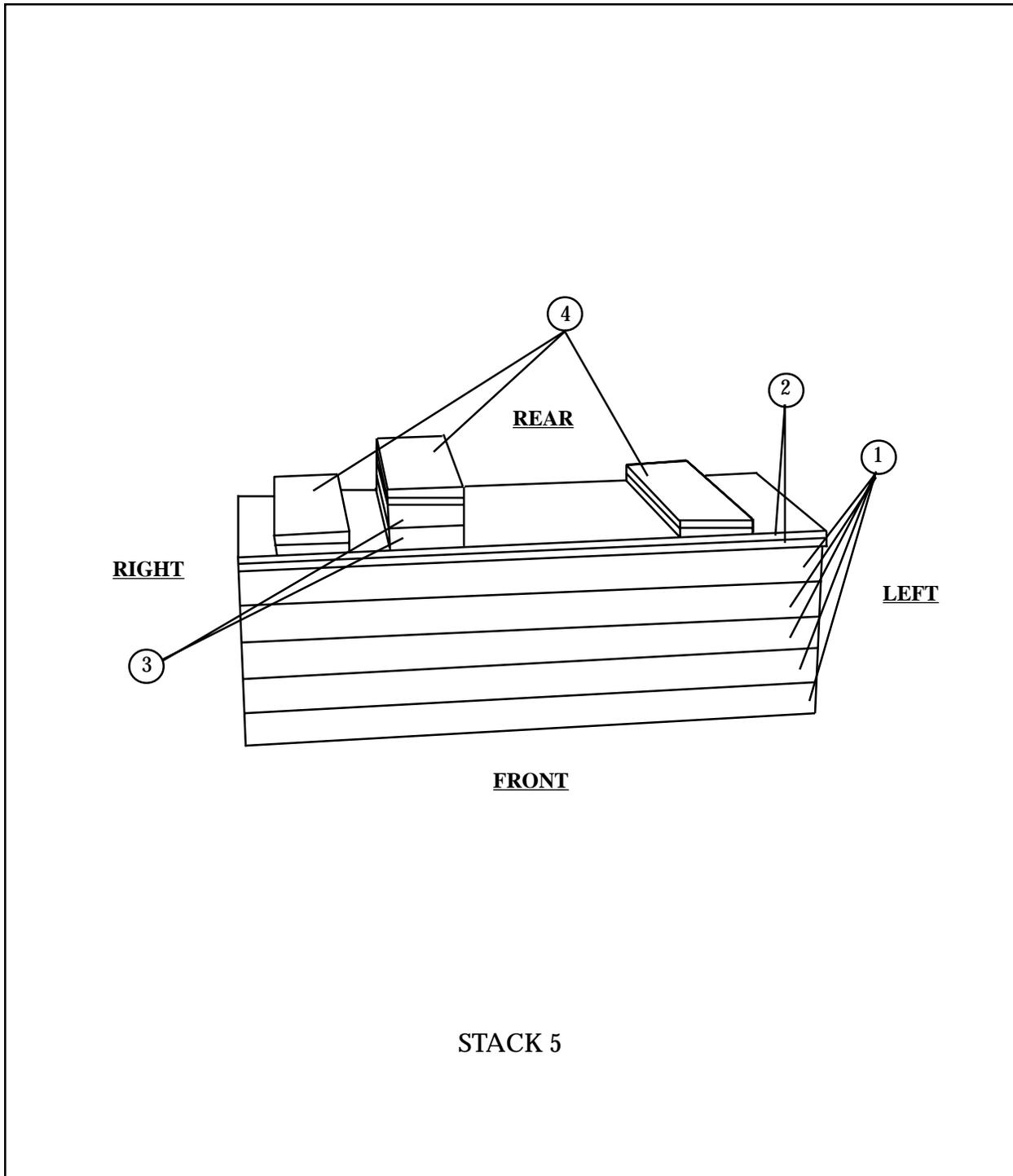
- ① Position a 36- by 44-inch piece of honeycomb beside a 12- by 44-inch piece of honeycomb. Alternate and glue a 36- by 44-inch piece of honeycomb and a 12- by 44-inch piece of honeycomb on top of the pieces of honeycomb to form the base.
- ② Place length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base aligned with the strips of tape.
- ③ Form two stacks by gluing four 18- by 44-inch pieces of honeycomb together. Place length of tape on all edges. Run two lengths of 1/2-inch tubular nylon webbing over the strips of tape and around the stack. Secure and tie with a square knot on the outside of the stack. Place on the left and right sides of base (**Do NOT glue to base**).
- ④ Form two stacks by gluing two 12- by 44-inch pieces of honeycomb together. Place length of cloth backed tape on the outer edges (**Do NOT glue to stacks**). Position one stack on each of the previous stacks.
- ⑤ Glue six 12- by 36-inch pieces of honeycomb together to form a stack. Position between 18- by 44-inch stacks and flush with the front of base (**Do NOT glue to base**). Secure and tie the type III nylon cord around the completed honeycomb stack.

Figure 2-6. Stack 4 prepared



- ⑥ Glue and nail three 48- by 44-inch pieces of 3/4-inch plywood together. **(Do not build lumber stack on honeycomb stack. The lumber will be placed on the stack later.)**
- ⑦ Cut a 26-inch by 15-inch deep cutout centered in the rear of the 48-inch side of plywood.
- ⑧ Glue and nail a 2- by 6- by 48-inch piece of lumber with front edge of 48- by 44-inch piece of 3/4-inch plywood.
- ⑨ Glue and nail two 2- by 12- by 34-inch pieces of lumber, one piece flush with the left side and the other flush on the right side of the 48- by 44-inch piece of 3/4-inch plywood and against the 2- by 12- by 48-inch piece of lumber.
- ⑩ Form two stacks by gluing and nailing three 2- by 6- by 21-inch pieces of lumber together. Place one stack flush with the front of the 2- by 6- by 48-inch piece of lumber edge and 5 1/2 inches from the left edge. Glue and nail the other stack flush with the front of the 2- by 6- by 48-inch lumber edge and 5 1/2 inches from the right side.
- ⑪ Form two stacks by gluing and nailing three 2- by 12- by 12-inch pieces of lumber together. Place one stack flush with the rear right edge of the 2- by 12- by 34-inch piece of lumber. Repeat for the the left side. Glue all lumber to honeycomb.

Figure 2-6. Stack 4 prepared (continued)



STACK 5

- ① Glue five 18- by 60-inch pieces of honeycomb together to form base.
- ② Glue and nail two 18- by 60-inch pieces of 3/4-inch plywood together. Glue to top of base.
- ③ Glue and nail two 2- by 6- by 18-inch pieces of lumber together. Glue and nail 16 1/2 inches from right edge of 18- by 60-inch piece of 3/4-inch plywood.
- ④ Form three stacks by gluing and nailing two 5 1/2- by 18-inch pieces of 3/4-inch plywood together. Glue one stack 5-inches from right edge of base. Glue another stack on top of the 2- by 6- by 18-inch piece of lumber. Glue the remaining stack 5 inches from the left side of base. Glue all lumber to honeycomb.

Figure 2-7. Stack 5 prepared

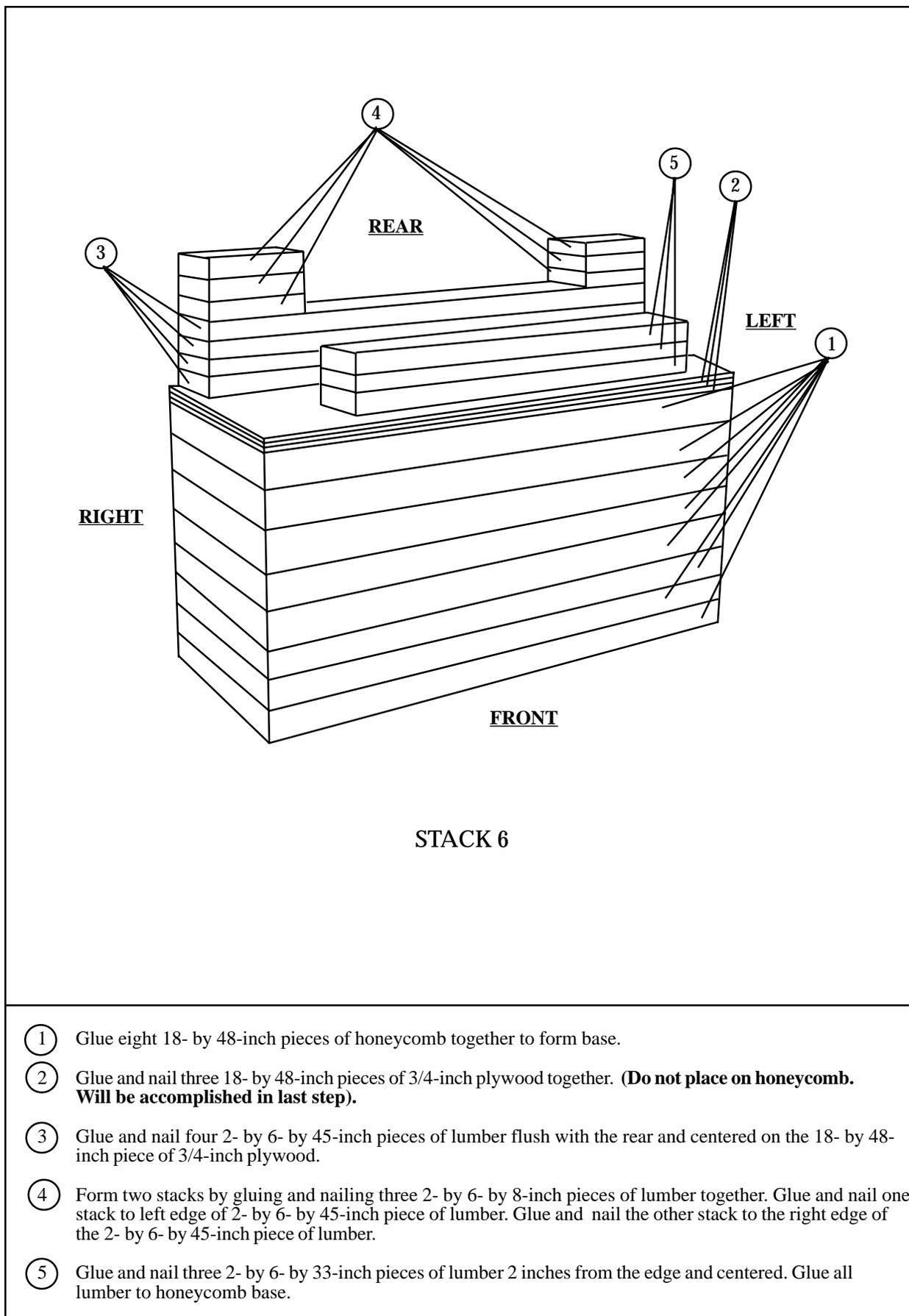
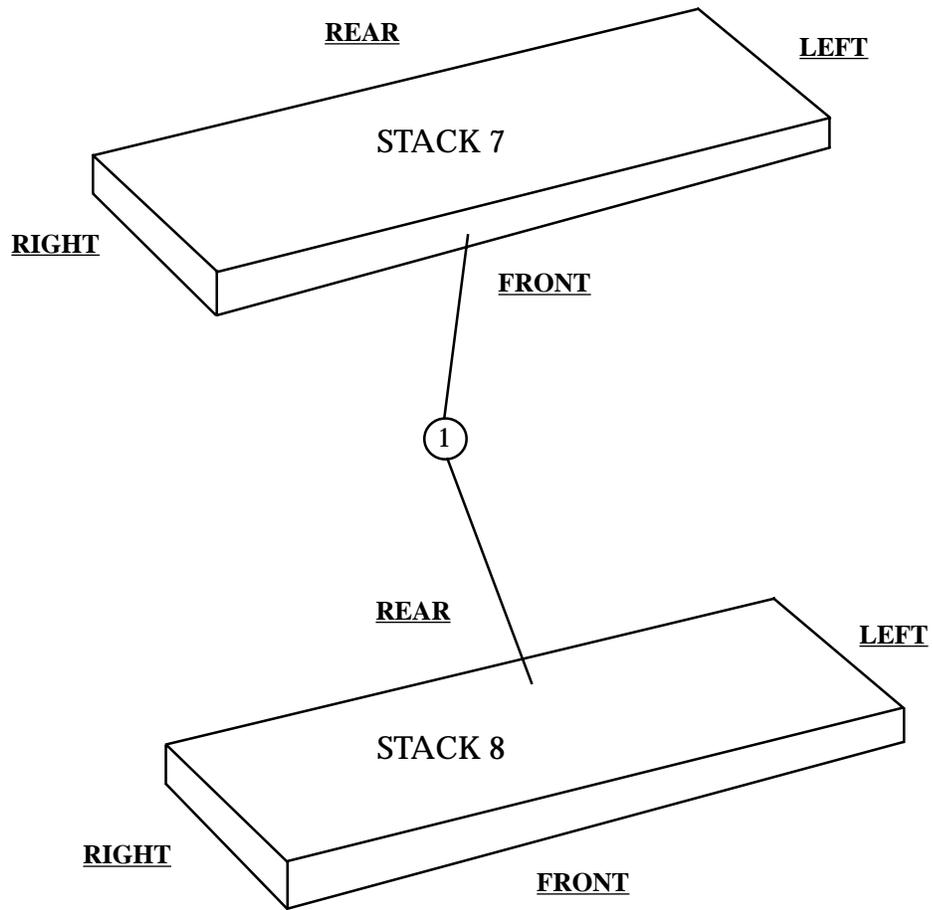
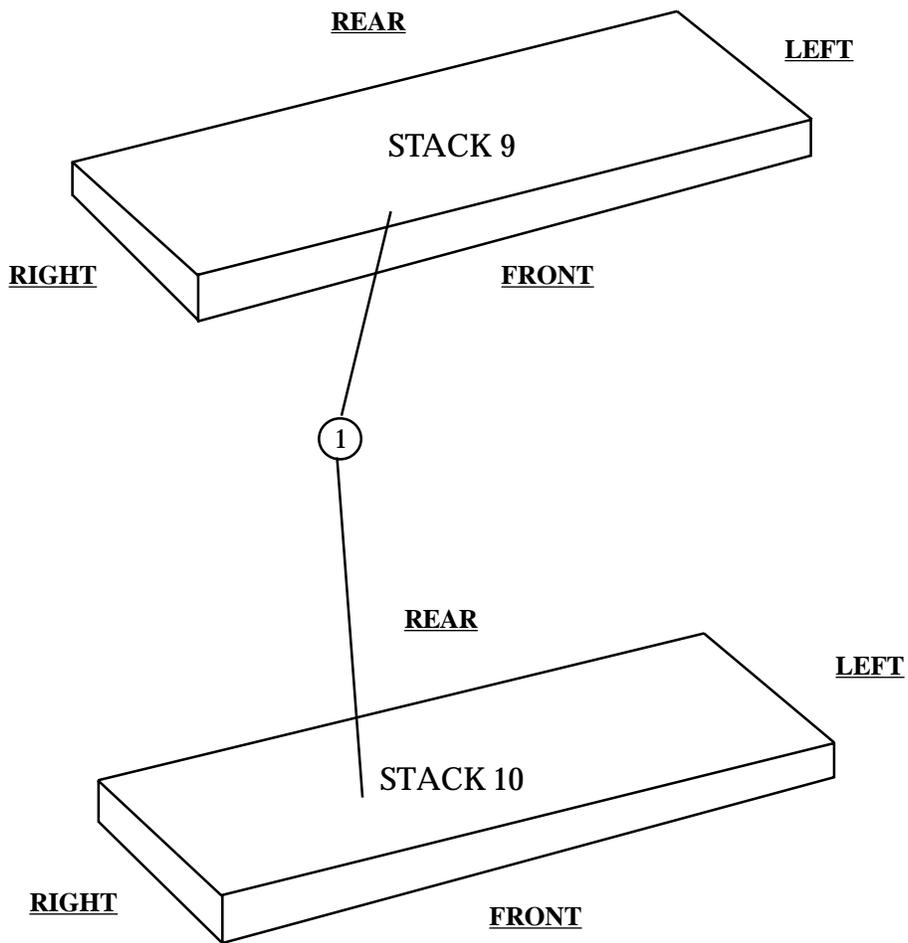


Figure 2-8. Stack 6 prepared



① Cut two 18- by 96-inch pieces of honeycomb. No further preparation is needed.

Figure 2-9. Stacks 7 and 8 prepared



① Cut two 18- by 74-inch pieces of honeycomb. No further preparation is needed.

Figure 2-10. Stacks 9 and 10 prepared

**2-4. Positioning Honeycomb Stacks**

Position the honeycomb stacks as shown in *Figure 2-11*.

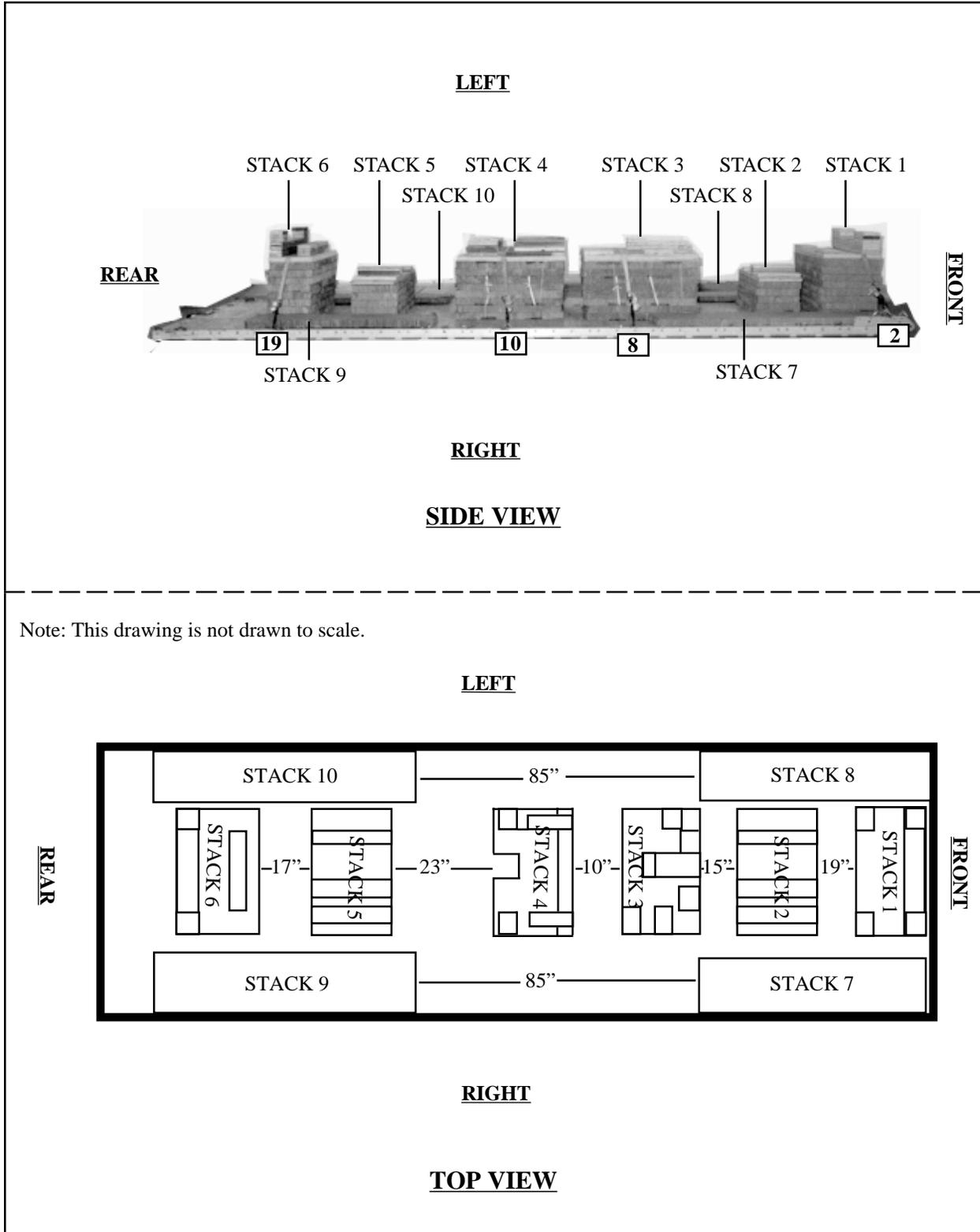


Figure 2-11. Honeycomb stacks positioned on platform

Stack Number	Instructions
1	Position stack 1, centered and flush with the front edge of the platform. Secure the stack by passing a lashing through clevis 2A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 2.
2	Position stack 2, 19 inches from stack 1, 22 inches from the left side rail, and 28 inches from right side rail.
3	Position stack 3, 15 inches from stack 2, 30 1/4 inches from the left side rail and 19 1/4 inches from the right side rail. Secure the stack by passing a lashing through clevis 8A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 8.
4	Position stack 4, 10 inches from stack 3, 25 1/2 inches from the left side rail and 24 1/4 inches from the right side rail. Secure the stack by passing a lashing through clevis 10A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 10.
5	Position stack 5, 23 inches from stack 4, 19 1/4 inches from the left side rail, and 18 inches from right side rail.
6	Position stack 6, 17 inches from stack 5, 26 inches from the left side rail and 23 inches from the right side rail. Secure the stack by passing a lashing through clevis 19A and it's own D-ring. Route the lashing over the stack and secure it with a loadbinder to clevis 19.
7	Position stack 7, flush with the front edge of the platform and flush with the right side rail.
8	Position stack 8, flush with the front edge of the platform and flush with the left side rail.
9	Position stack 9, 85 inches from the rear of stack 7 and flush with the right side rail.
10	Position stack 10, 85 inches from the rear of stack 8 and flush with the left side rail.

Figure 2-11. Honeycomb stacks positioned on platform (Continued)

## 2-5. Preparing Truck

Prepare the M1081 truck as described below and as shown in *Figure 2-12*.

- a. Make sure the fuel tank is 3/4 full.
- b. Make sure the batteries and compartment comply with AFJMAN 24-204/TM 38-250.

*The following is a list of materials used for truck preparation.*

PIECES	WIDTH (inches)	LENGTH (inches)	MATERIAL
1	36	36	Honeycomb
1	36	80	Honeycomb
2	18	60	Honeycomb
10	2- by 6	13	Lumber
2	4- by 4	6	Lumber
2	4- by 4	15	Lumber
4	2- by 4	6	Lumber
1	10	10	3/4-inch Plywood
3	2- by 6	6	Lumber
1	36	96	Honeycomb
4	1/2	10	Bolts (washers and nuts)

- NOTES:**
1. The truck should arrive at the rigging site with the gun turret removed from roof and replaced with flat insert.
  2. The cargo/troop carrier cover, bows, cargo/troop carrier cover poles, bed stakes, seat bars, seats and side rails located in the rear of the truck should be removed and packed as basic load.

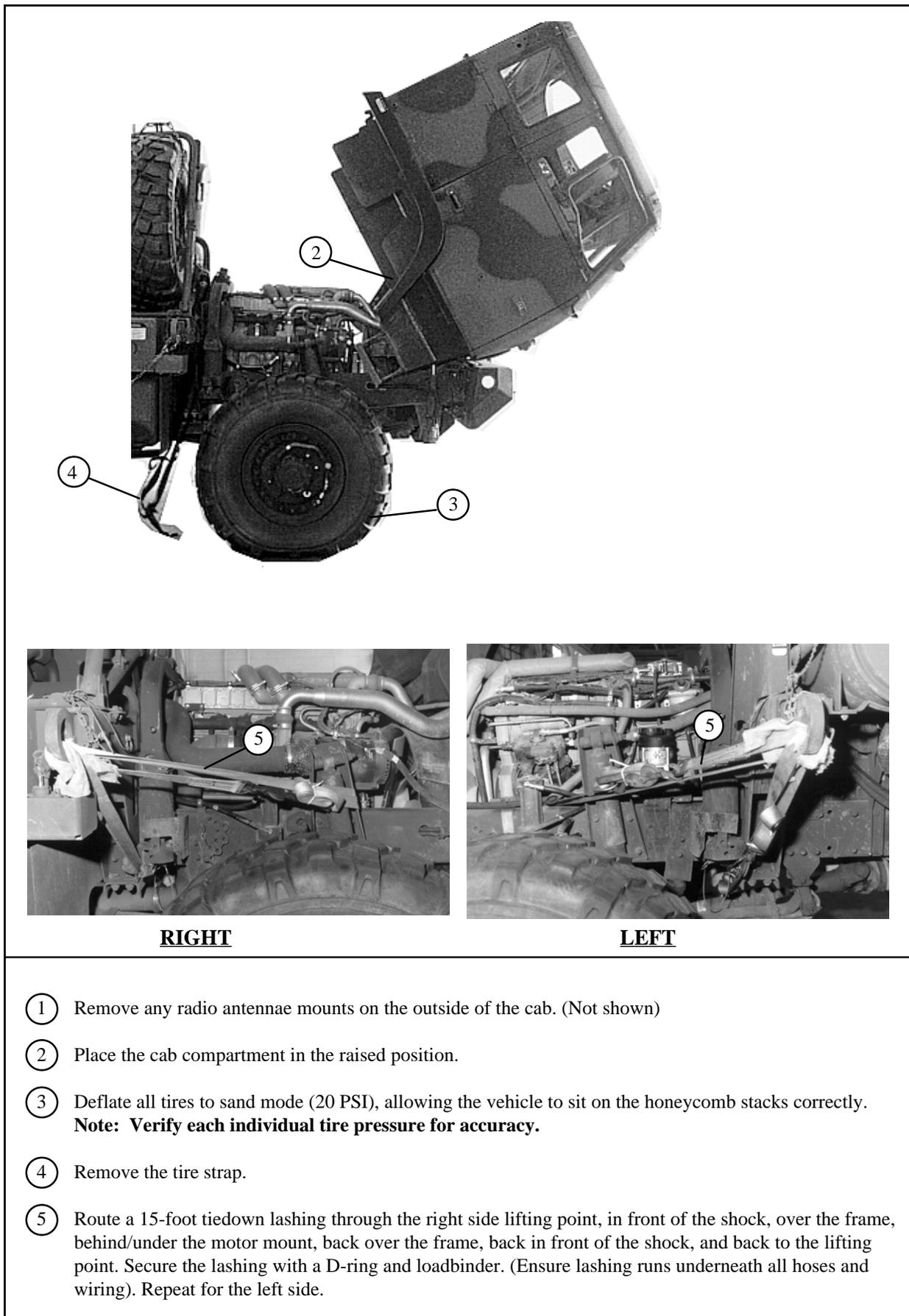
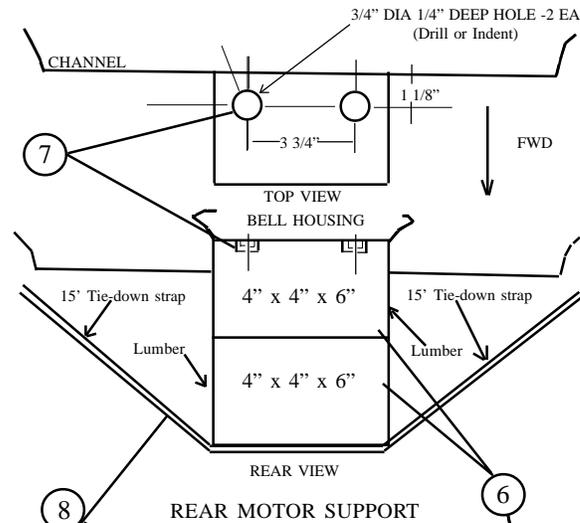


Figure 2-12. Truck prepared

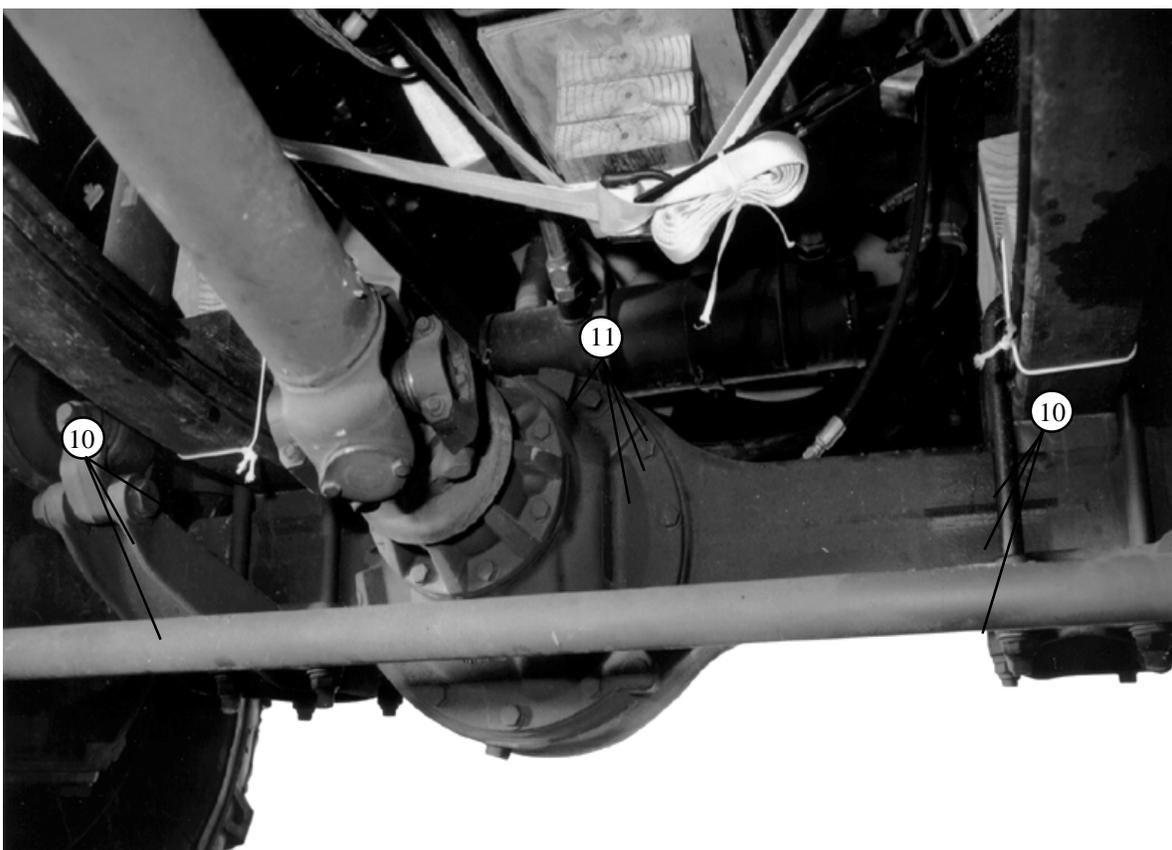
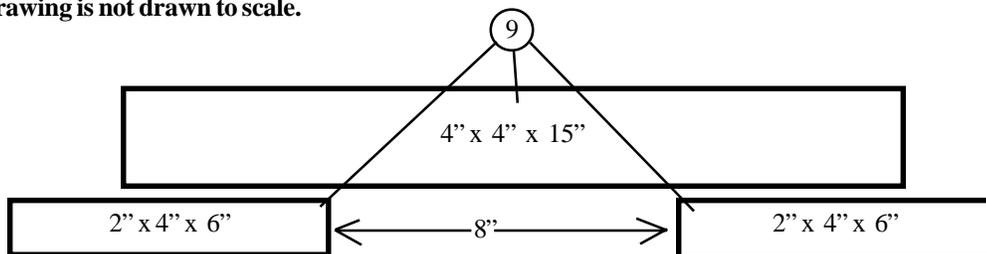
**Note: This drawing is not drawn to scale.**



- ⑥ Cut two 4- by 4- by 6-inch pieces of lumber.
- ⑦ Countersink two holes 3/4-inch in diameter, 1/4-inch deep, and 1 1/8 inch from the edge on the 6 inch side, with a 3 3/4 inch center to center hole measurement in one piece of 4- by 4- by 6-inch lumber. Place the other 4 - by 4- by 6-inch piece of lumber under the first piece of lumber and tape them together leaving the holes exposed.
- ⑧ Place the countersunk holes of the 4- by 4- by 6-inch piece of lumber over the bolts in the bell housing. Route a 30-foot lashing through the right side lifting point under the 4- by 4- by 6-inch piece of lumber and through the left side lifting point, and back under the 4- by 4- by 6-inch piece of lumber. Secure with a D-ring and loadbinder.

Figure 2-12. Truck prepared (Continued)

Note: This drawing is not drawn to scale.



- ⑨ Glue and nail together one 4- by 4- by 15-inch piece of lumber and two 2- by 4- by 6-inch pieces of lumber for each axle.
- ⑩ Position them on top of the right and left axles and secure with type III nylon cord.
- ⑪ Position a 10- by 10- by 3/4-inch piece of plywood and three 2- by 6- by 6-inch pieces of lumber against the oil pan and front of the engine.

Figure 2-12. Truck prepared (Continued)



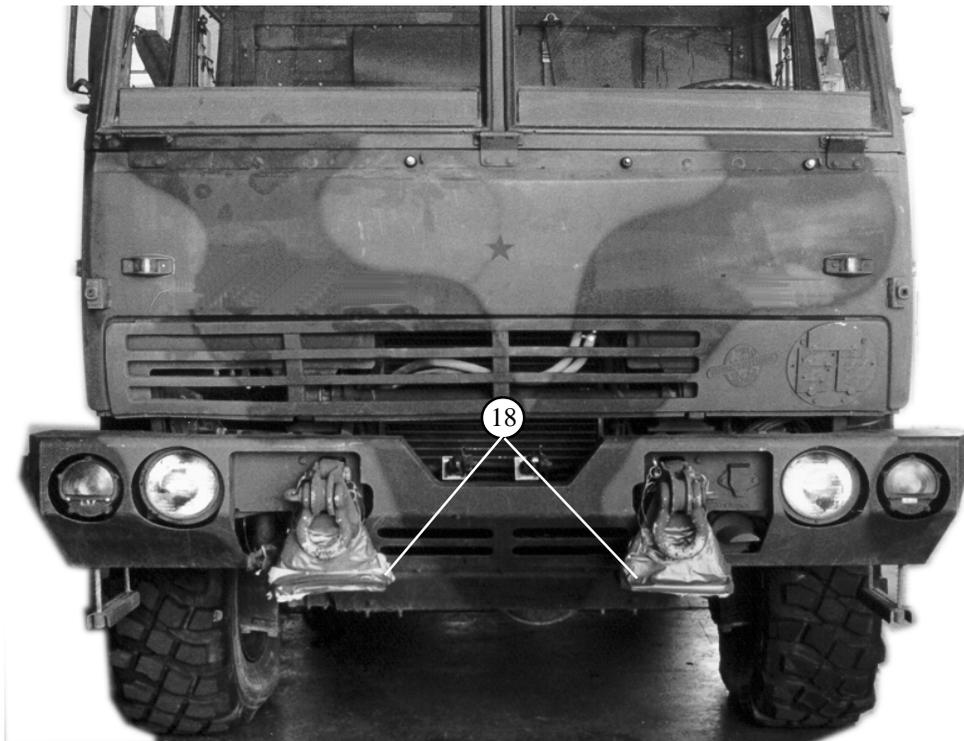
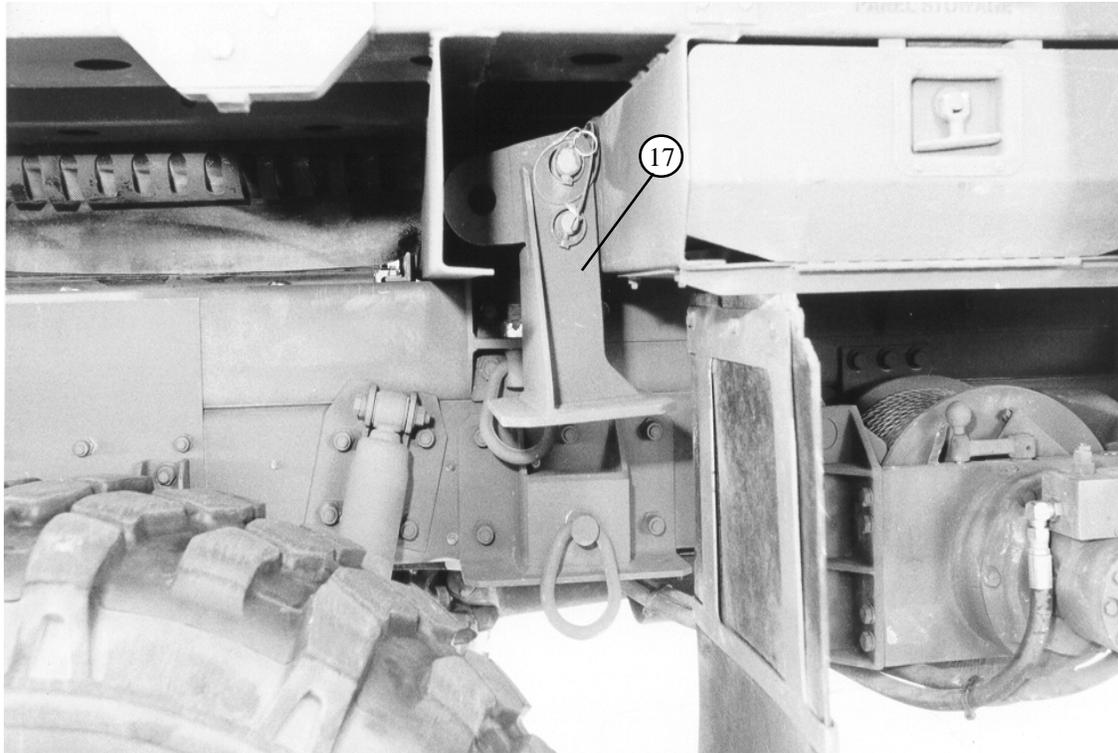
- ⑫ Route a 15-foot lashing in rear of motor mounts around the left and right main frames (under all hoses). Secure the lumber and plywood with D-ring and loadbinder.

Figure 2-12. Truck prepared (Continued)



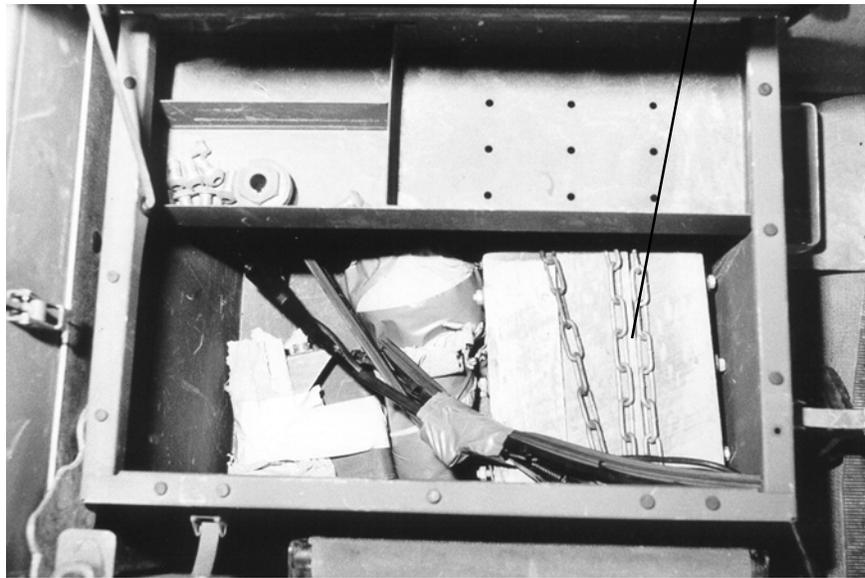
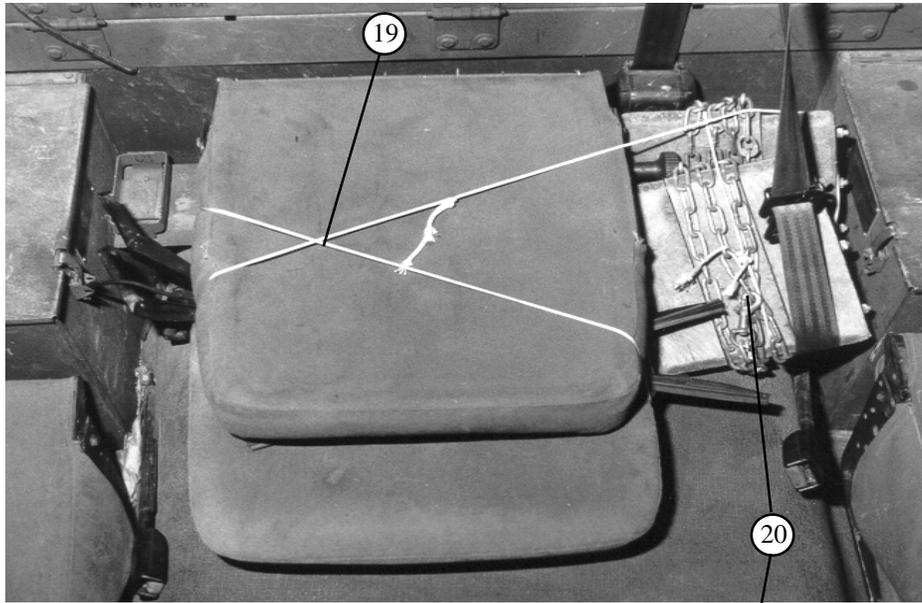
- ⑬ Place the cab in the lowered position.
- ⑭ Remove the spare tire from the rack and leave the spare tire carrier down.
- ⑮ Remove the davit. (It is attached to the back of cab.) (Not shown)
- ⑯ Remove the windshield wipers and stow the bolts and blades in the cab. (Not shown)

*Figure 2-12. Truck prepared (Continued)*



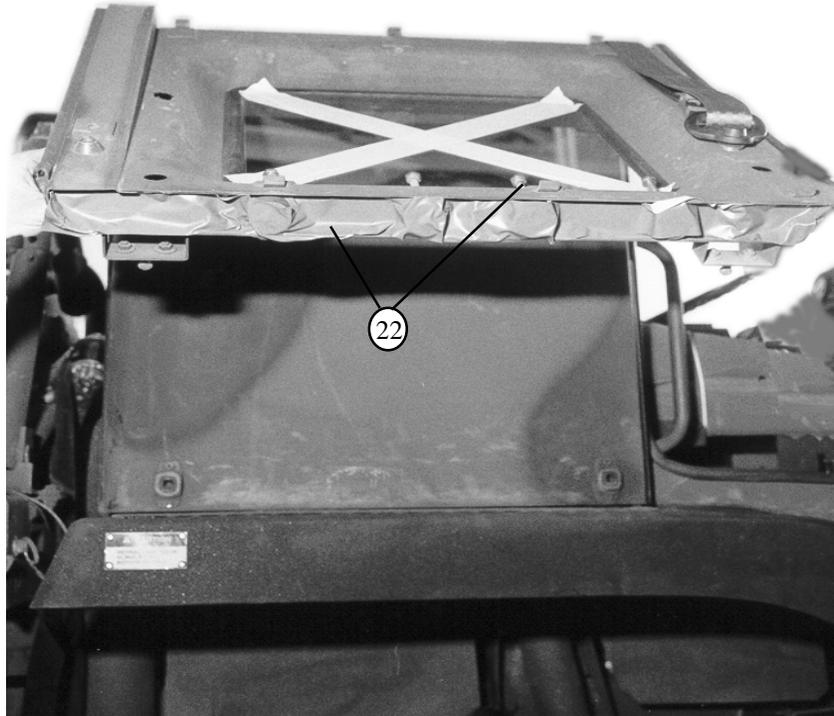
- ①7 Remove the front support brackets from under the bed of the truck.
- ①8 Install them on the front of the vehicle and wrap the outside edges with cellulose wadding and tape.

Figure 2-12. Truck prepared (Continued)



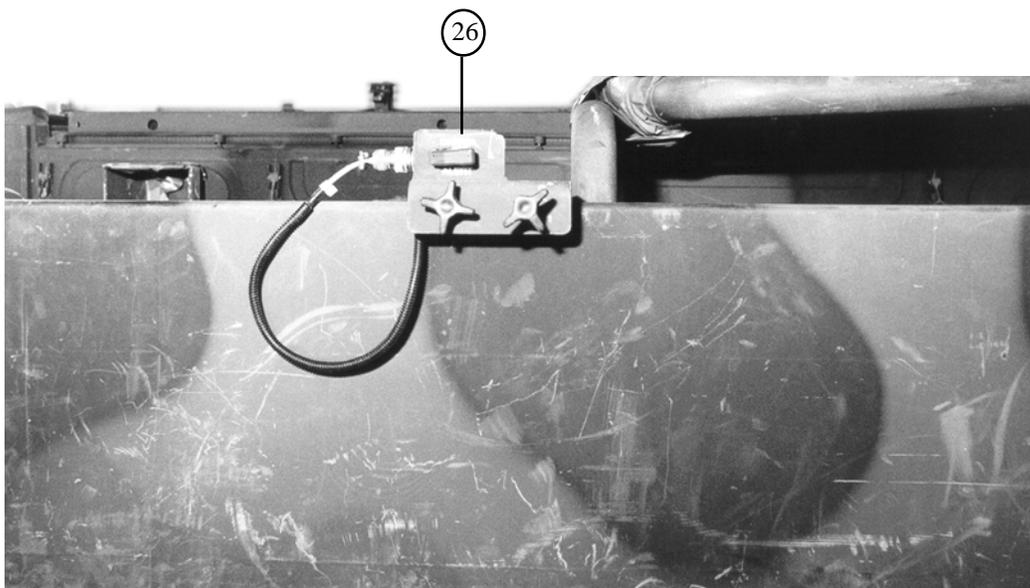
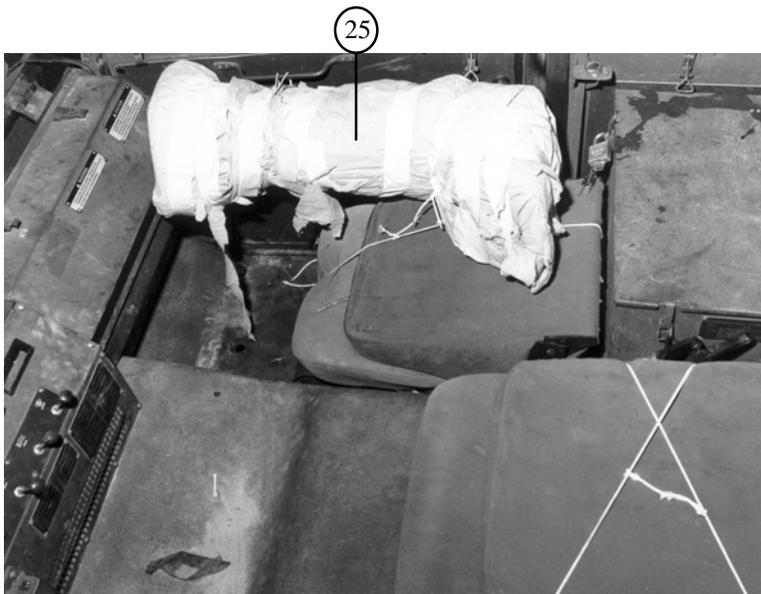
- ①⑨ Secure the chock blocks in cab or in storage box.
- ②⑩ Lower the seats and secure with type III nylon cord.
- ②⑪ Secure the fire extinguisher with type III nylon cord. (Not shown)

Figure 2-12. Truck prepared (Continued)



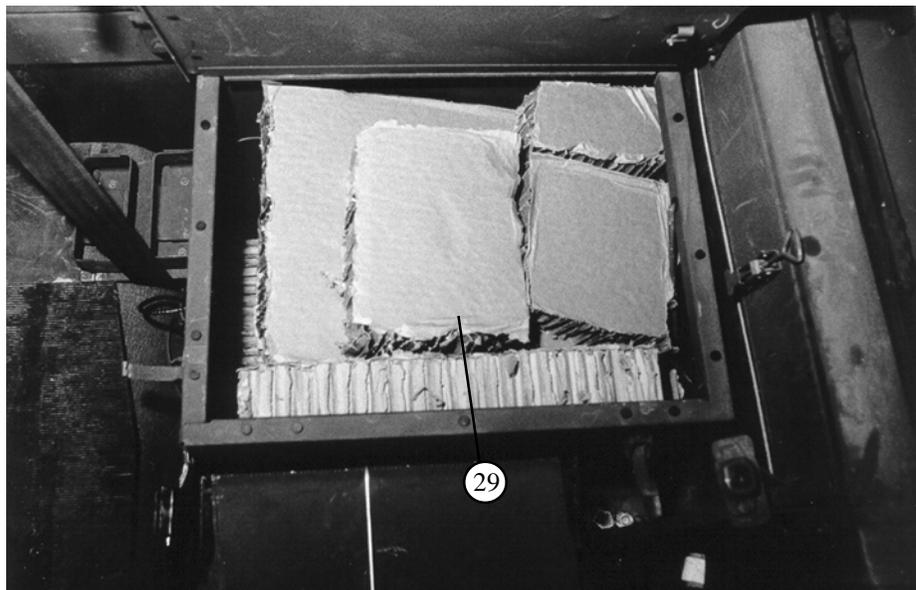
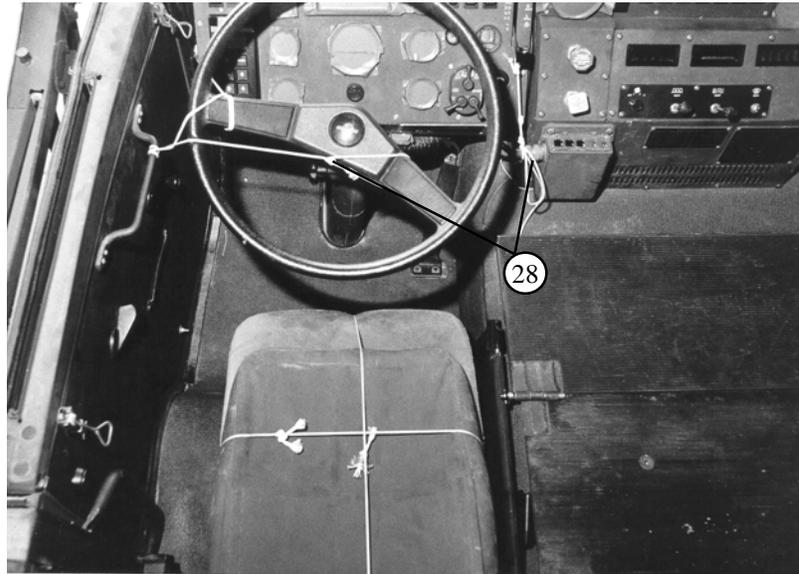
- ②② Remove the roof and secure the roof bolts with tape.
- ②③ Fold down the windows, windshield and rear of the cab.
- ②④ Roll the windows down.

Figure 2-12. Truck prepared (Continued)



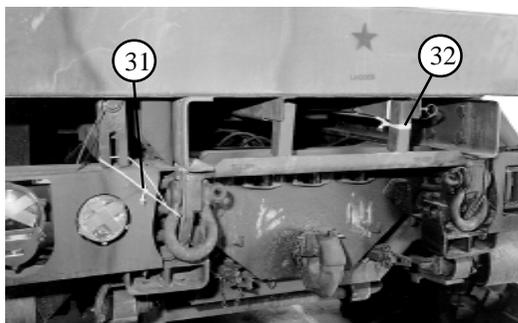
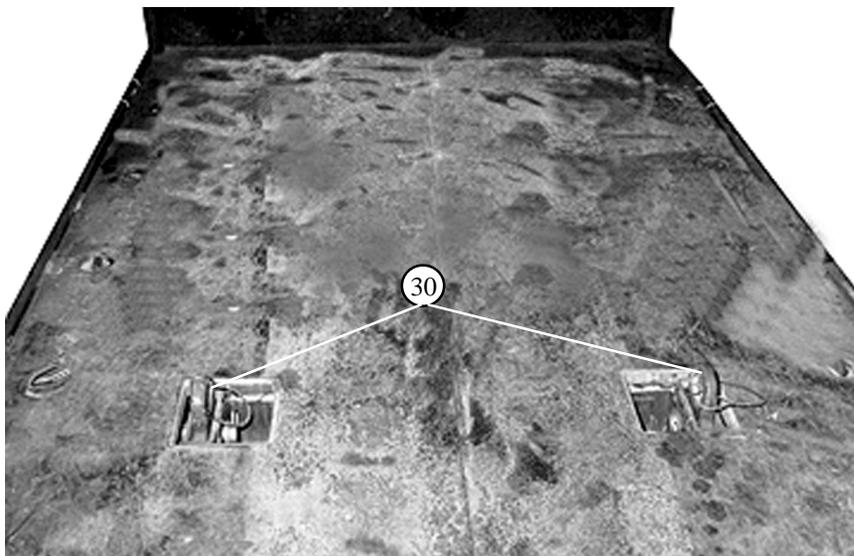
- ②5 Remove the air intake stack. Wrap it with cellulose wadding and stow in the cab.
- ②6 Remove the driver alert switch and stow in the cab. Tape the electrical connection.
- ②7 Remove the sunvisors and stow in the cab. (Not shown)

Figure 2-12. Truck prepared (Continued)



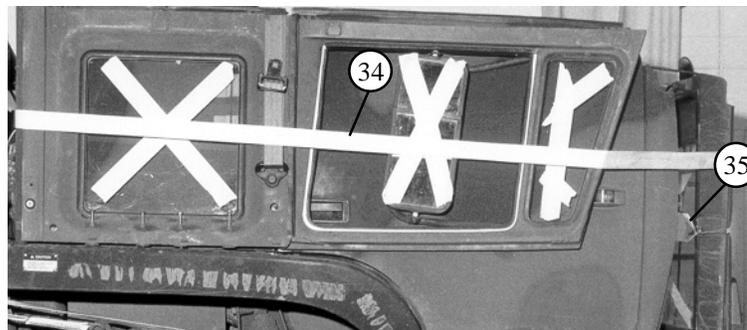
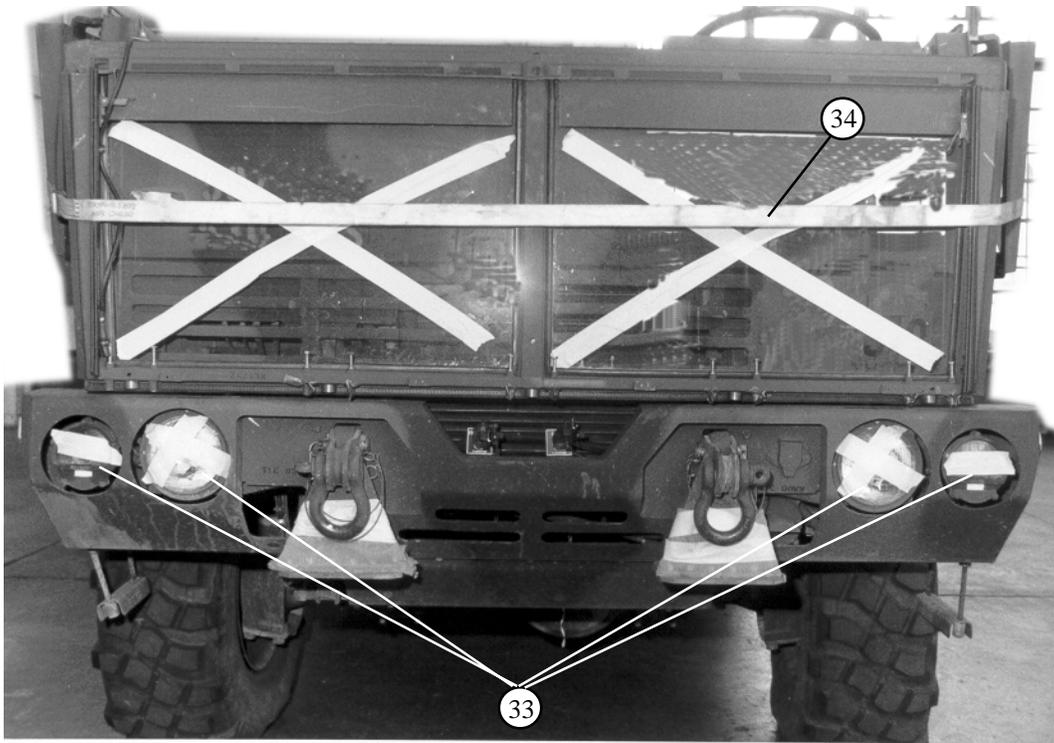
- ②⑧ Secure the steering wheel and hand throttle with type III nylon cord.
- ②⑨ Fill the driver and passenger storage boxes with honeycomb.

Figure 2-12. Truck prepared (Continued)



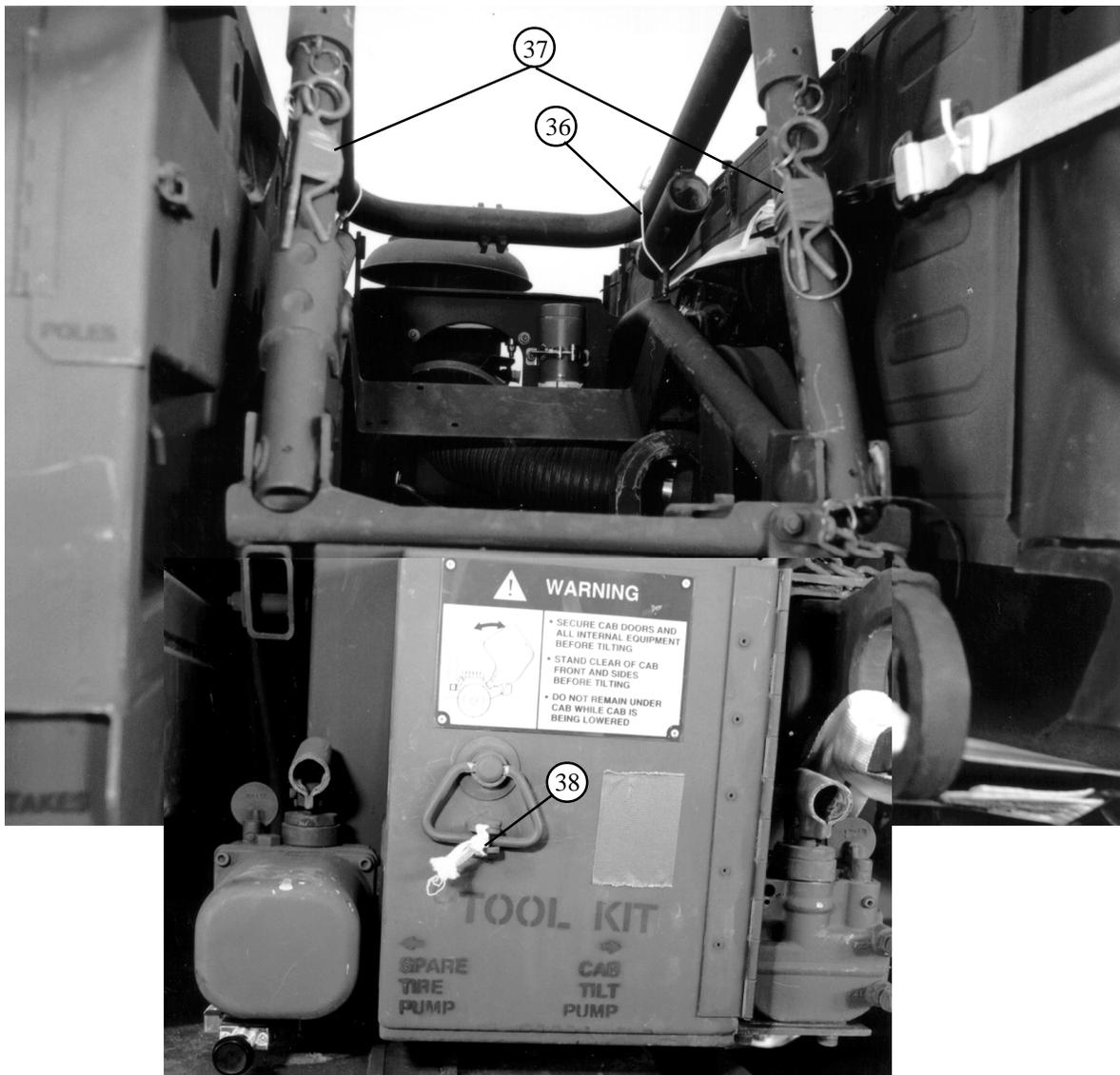
- ③⑩ Safety the left and right rear lifting pins (located on the truck bed near the rear with cover over them) with type III nylon cord. Route the type III nylon cord through the safety pin pull ring and around the safety pin. Stow the covers in the cab.
- ③⑪ Secure the ladder in place with a length of 1/2 -inch tubular nylon webbing.
- ③⑫ Secure the tow bar on the left side of the truck with a piece of type III nylon cord to the top left rear tie-down point.

Figure 2-12. Truck prepared (Continued)



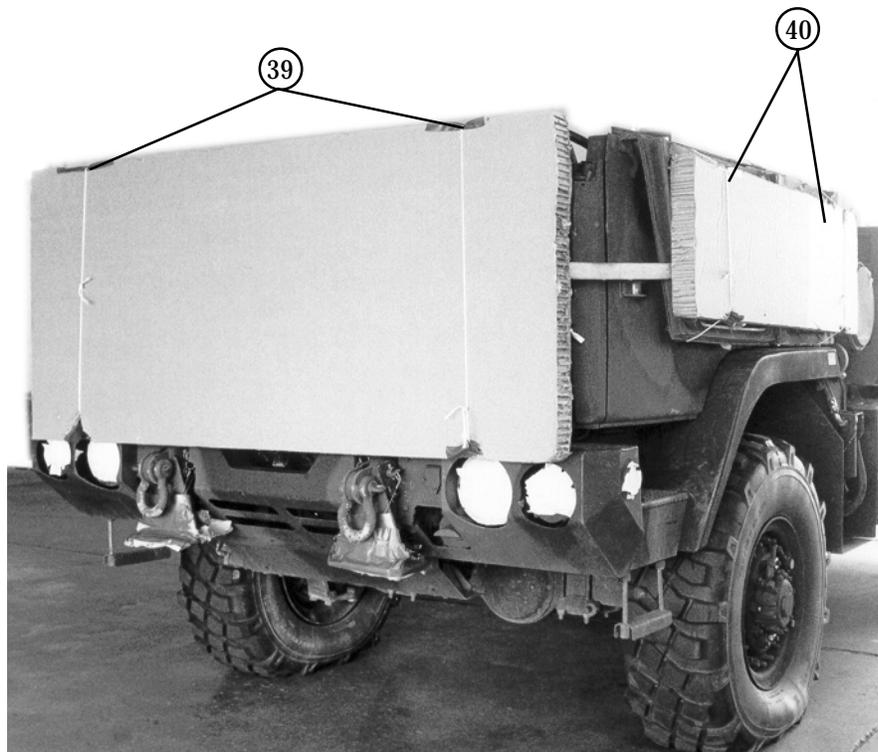
- ③③ Tape all lights, reflectors, and windows and pad mirrors with cellulose wadding and tape.
- ③④ Route a 30-foot lashing around the cab and secure with a loadbinder and D-rings in the rear of the cab. (Ensure D-rings do not come in contact with the glass).
- ③⑤ Secure the windshield to the left and right windshield stops with 1/2 -inch tubular nylon webbing.

Figure 2-12. Truck prepared (Continued)



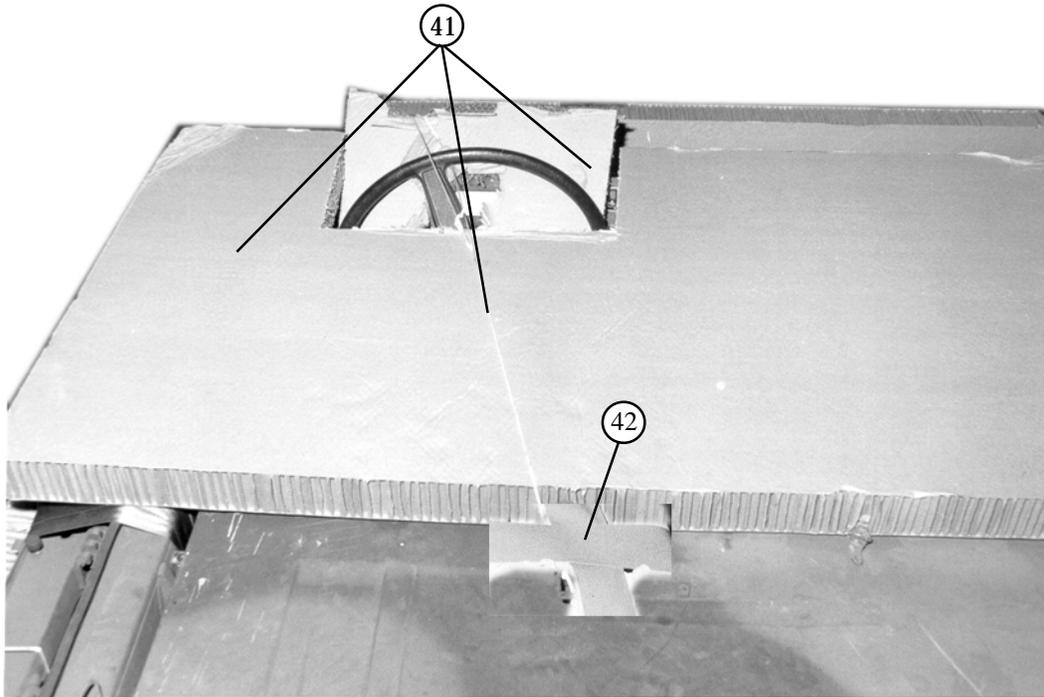
- ③⑥ Retract the spare tire carrier and secure with 1/2-inch tubular nylon webbing.
- ③⑦ Tape the chains and pins in place on the spare tire carrier.
- ③⑧ Secure the tool kit access panel with a length of type III nylon cord.

Figure 2-12. Truck prepared (Continued)



- ③⑨ Place a 36- by 80-inch piece of honeycomb on the windshield. Secure it with two lengths of type III nylon cord.
- ④⑩ Place one 18- by 60-inch piece of honeycomb on the left side window and one piece on the right side window. Secure each with two lengths of type III nylon cord.

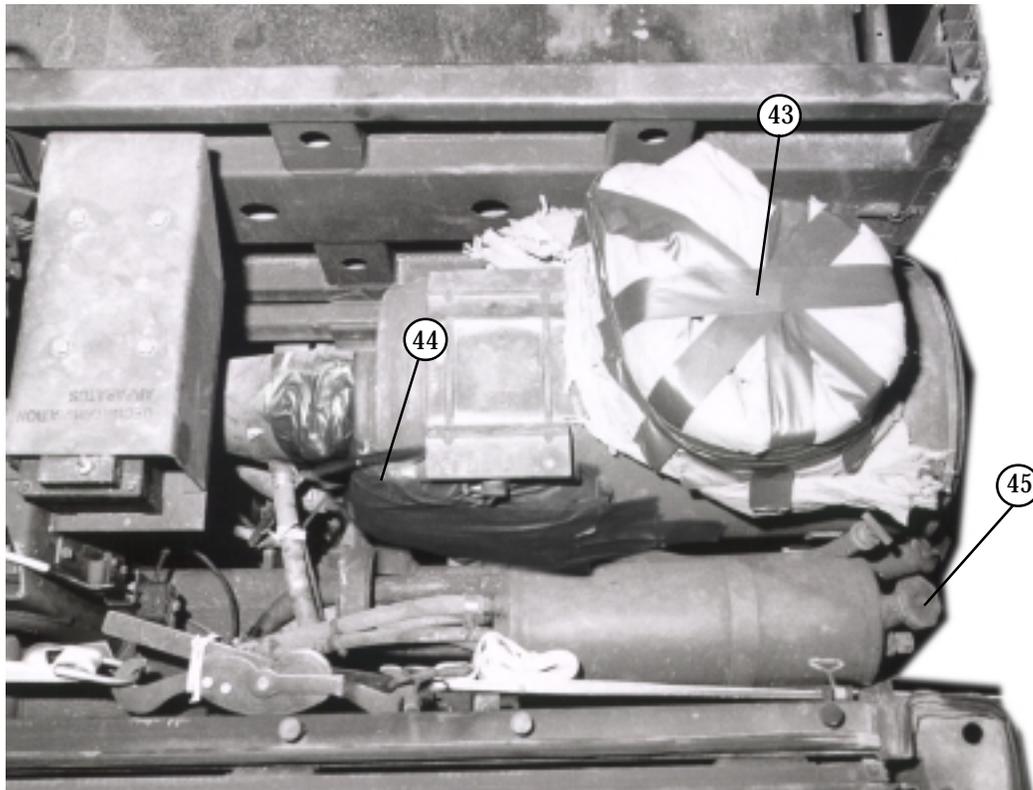
Figure 2-12. Truck prepared (Continued)



- ④① Place a 36- by 96-inch piece of honeycomb over the driver's compartment. Cut out a section (approximately 12- by 21-inches) for the steering wheel and place it over the instrumentation panel in the cab. Secure both pieces with type III nylon cord.
- ④② Pad the davit holders with cellulose wadding and secure with cloth-backed tape.

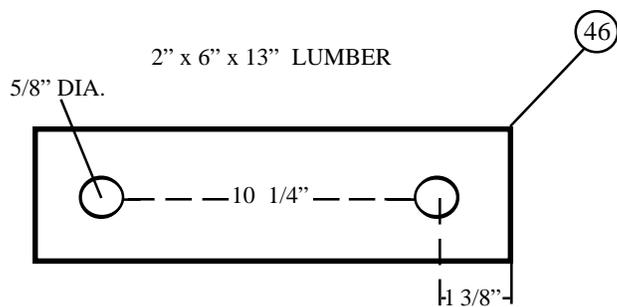
Figure 2-12. Truck prepared (Continued)

**Note:** Hoses that will interfere with the attaching of the suspension slings should be tied back.



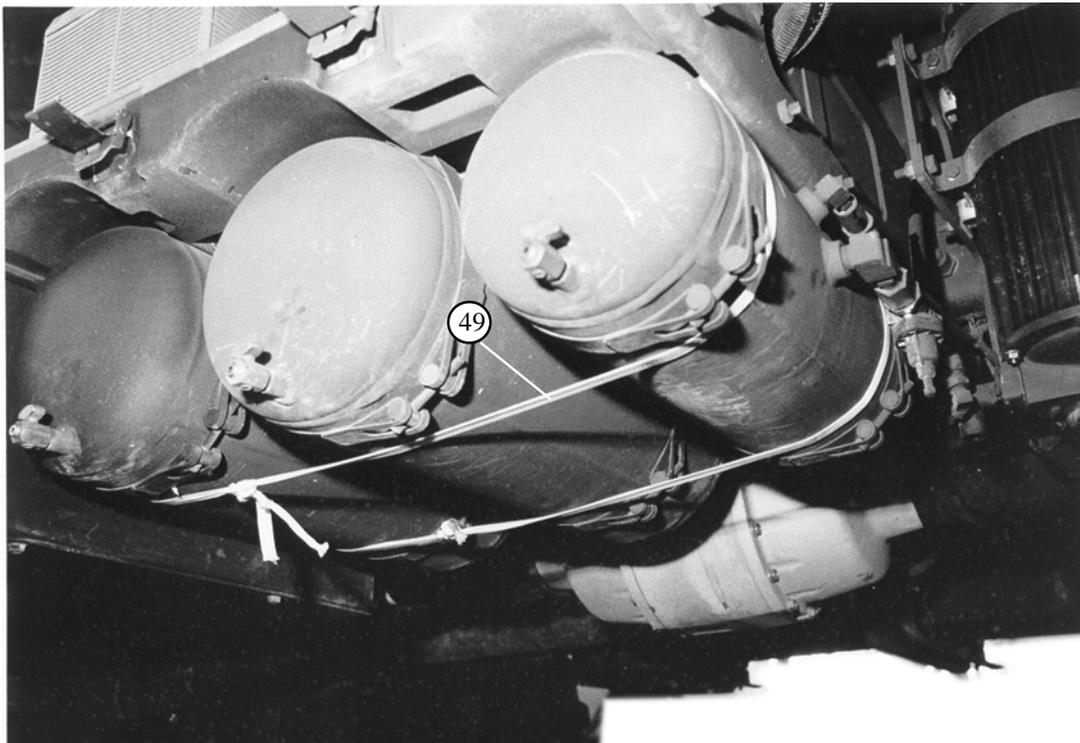
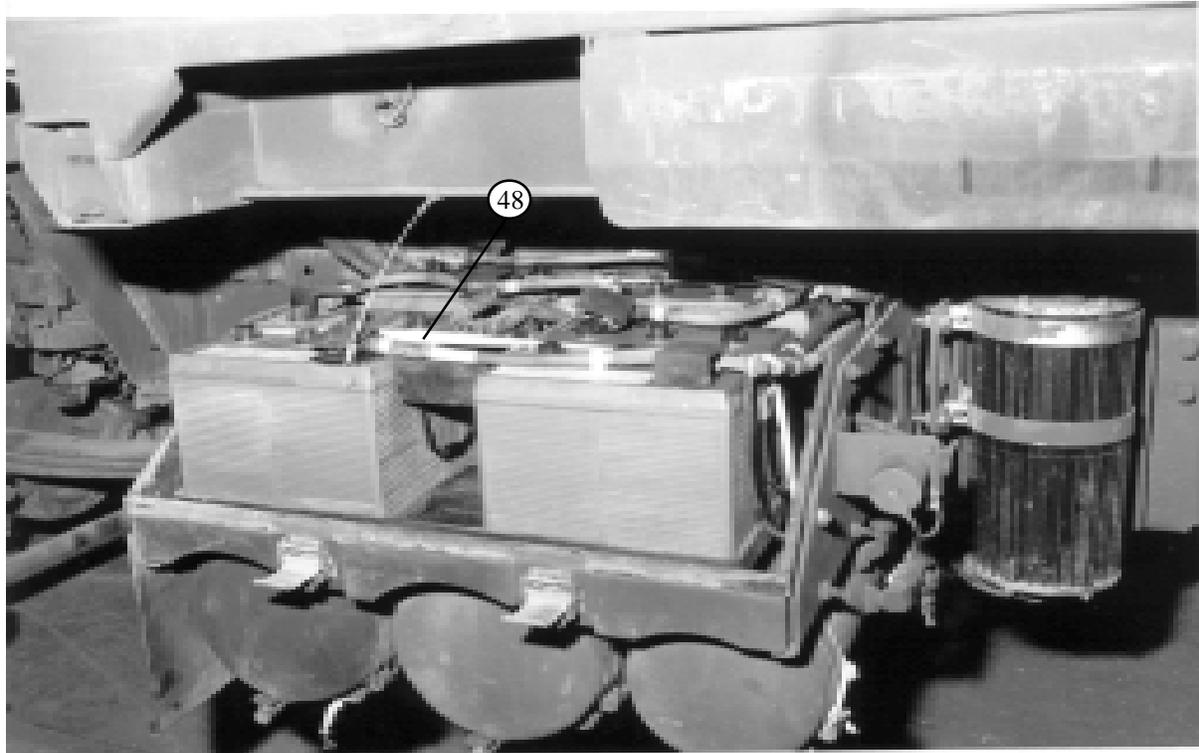
- ④3 Wrap the air intake fitting with cellulose wadding and secure with cloth-backed tape. Secure the end hose out of the way with type III nylon cord.
- ④4 Pad the lower air intake fitting with felt and secure with cloth-backed tape.
- ④5 Ensure the radiator pressure cap is secure.

*Figure 2-12. Truck prepared (Continued)*



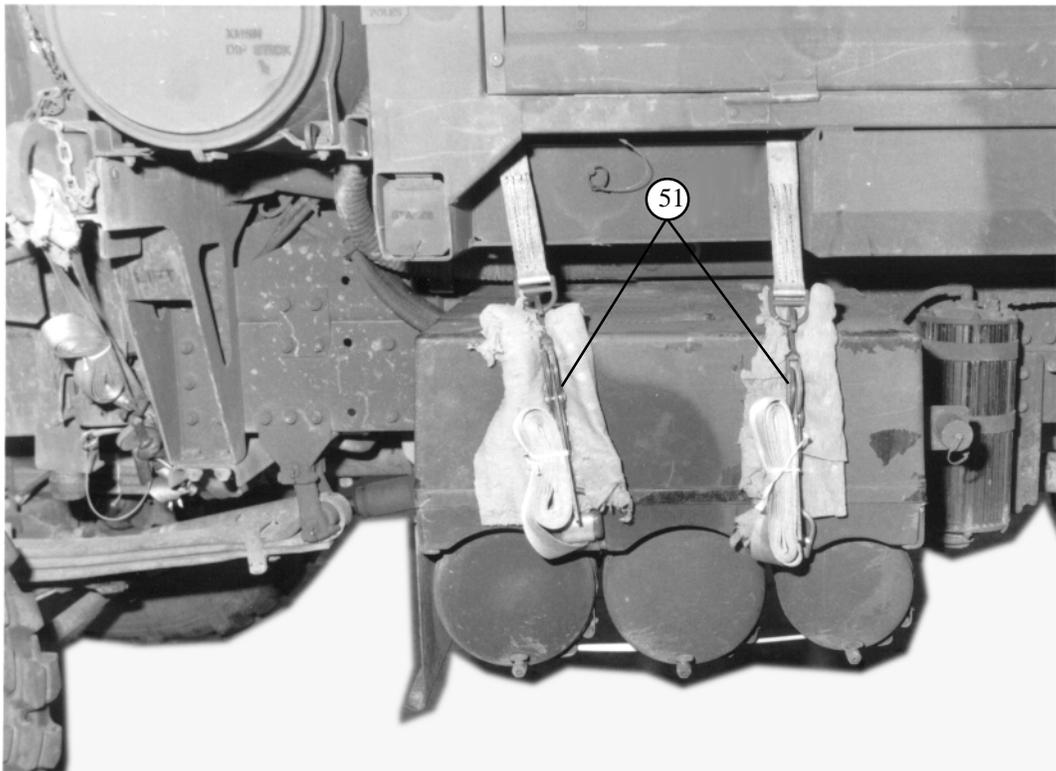
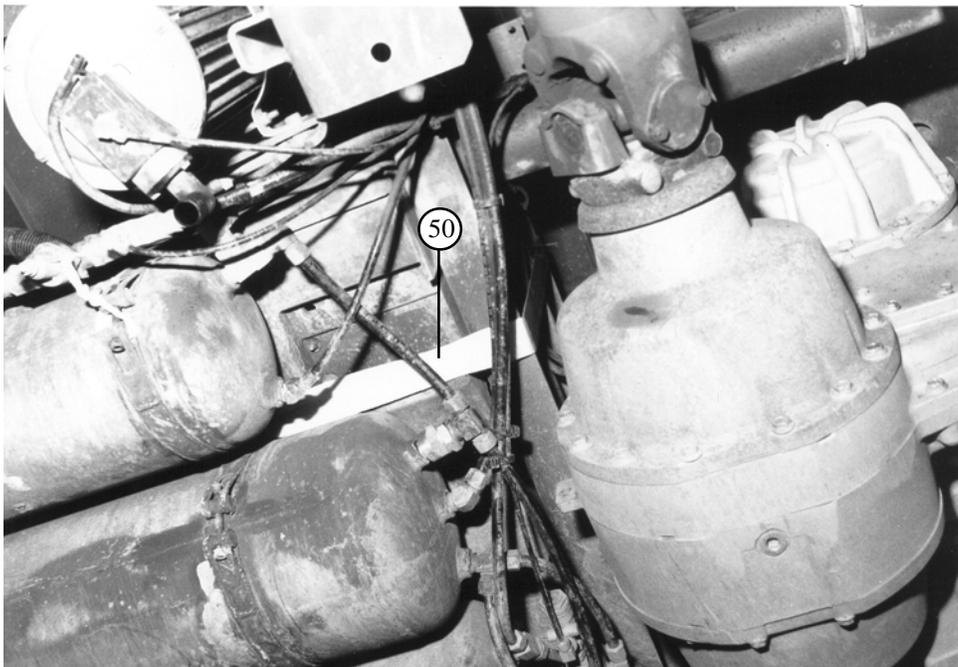
- ④⑥ Cut ten 2- by 6- by 13-inch pieces of lumber. Drill two 5/8-inch diameter holes 1 3/8-inches from the edge, with a 10 1/4-inch center to center hole measurement in each piece of lumber.
- ④⑦ Bolt five 2- by 6- by 13-inch pieces of lumber to the left and right side frame pads using two 1/2- by 10-inch bolts on each side.

Figure 2-12. Truck prepared (Continued)



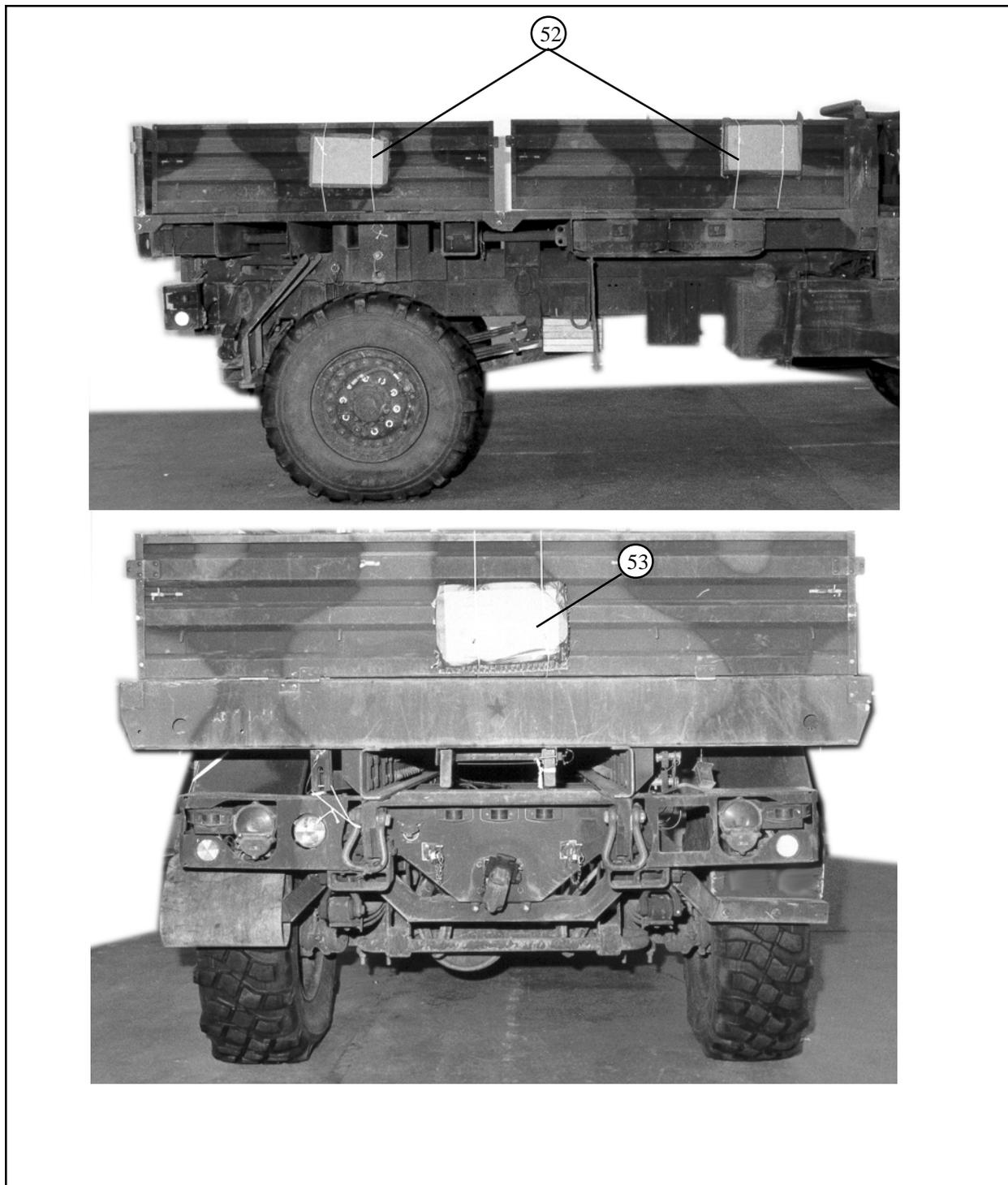
- ④8 Remove the battery box cover and secure the batteries in place with two lengths of 1/2-inch tubular nylon webbing.
- ④9 Run the nylon webbing over the batteries down through the battery box and under the air tanks.

Figure 2-12. Truck prepared (Continued)



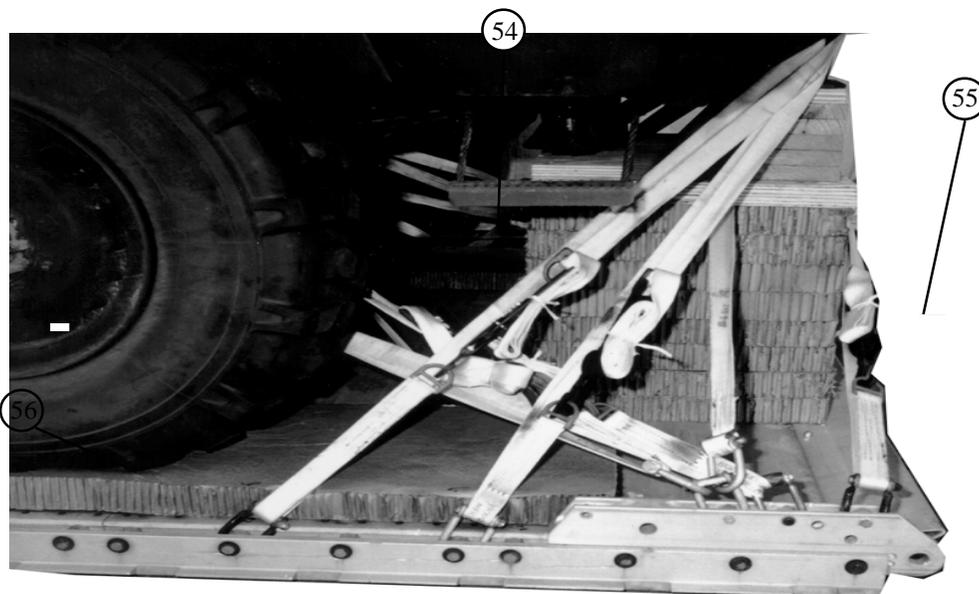
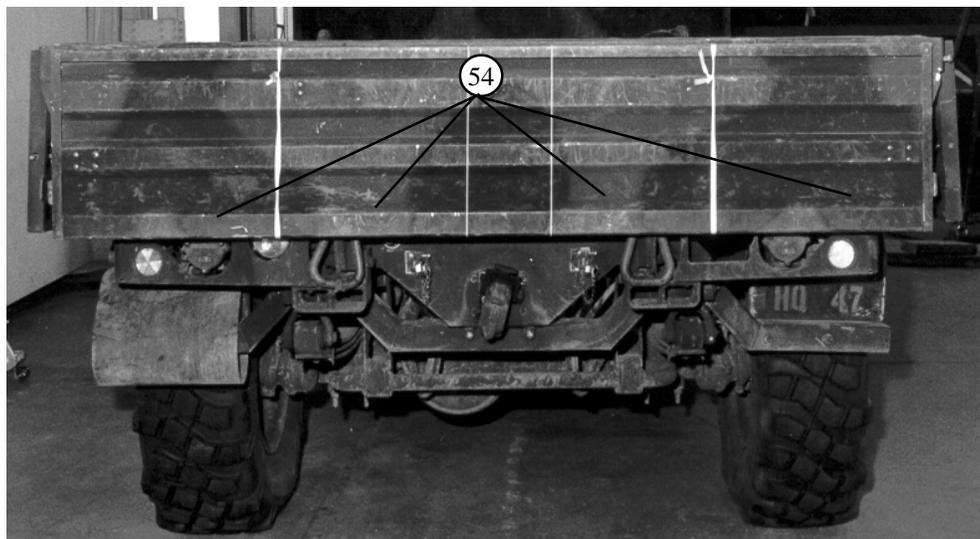
- ⑤① Replace the cover. Route two 15-foot lashings around the main frame, under the battery box, between the air tanks. Ensure hoses are not crimped.
- ⑤① Secure with D-ring and loadbinder on top of battery box. Pad with felt or cellulose wadding.

Figure 2-12. Truck prepared (Continued)



- ⑤② Raise the side panels and place an 11- by 16-inch piece of honeycomb on each contact point. Position the pieces on the front panels where they will come in contact with the fuel tank and battery box. Place the pieces on the rear panels where they will come in contact with the tires. Secure the honeycomb in place with type III nylon cord.
- ⑤③ Raise the tailgate and place an 11- by 16-inch piece of honeycomb on the center of the tailgate. Secure the honeycomb in place with type III nylon cord..

Figure 2-12. Truck prepared (Continued)



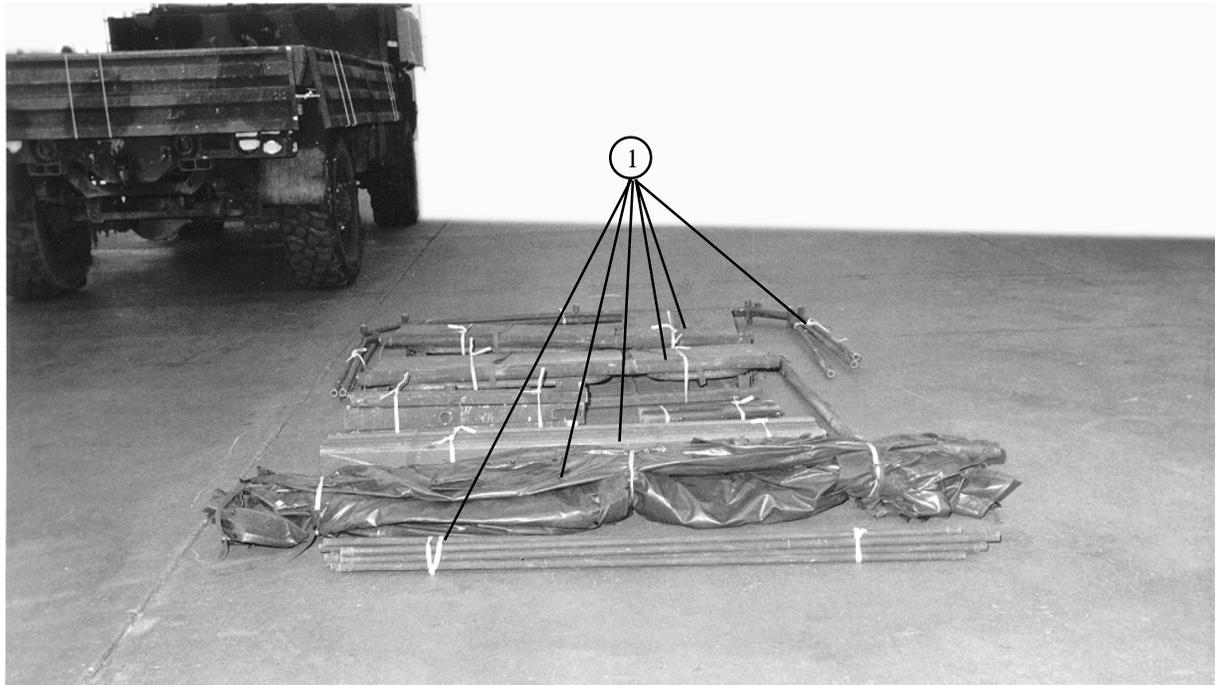
- ⑤4 Secure the side panels and tailgate down using 1/2-inch tubular nylon webbing. Tie to convenient locations on the truck.
- ⑤5 Using 1/2-inch tubular nylon webbing, tie the corners of the rear side panels and tailgate together. Tie the front of the forward side to convenient locations on the truck.
- ⑤6 Tie the mud flaps up with type III nylon cord.

**Note: Steps 54 and 55 ties must be secured. No slippage of the ties is allowed. If the ties are not secure, damage may occur.**

Figure 2-12. Truck prepared (Continued)

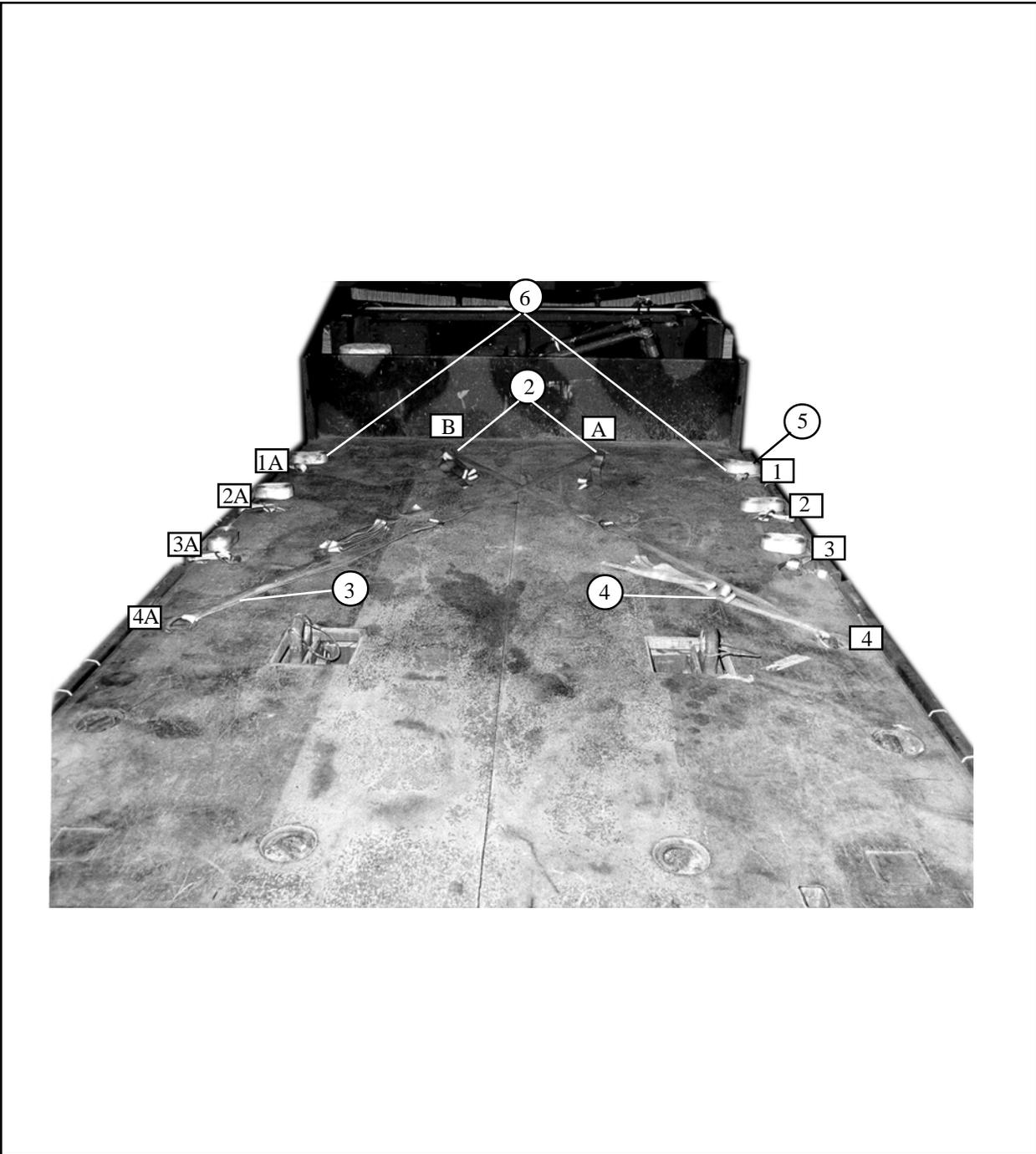
## 2-6. Stowing Basic Load

Basic accompanying load consists of the roof, spare tire, tire strap, davit, cargo/troop carrier cover, bows, cargo/troop carrier cover poles, bed stakes, seat bars, seats and side rails. Stow the vehicle parts as shown in *Figure 2-13*.



- ① Tie each like item together using 1/2-inch tubular nylon webbing, except the seats. They will be tied into two sets of two seats each.

*Figure 2-13. Basic load stowed*



- ② Starting at the front of the truck bed, label the right side truck bed tiedown rings 1 through 4 and the left side 1A through 4A. Label the front center truck rings as A and B.
- ③ Route a 30-foot lashing from bed ring A to 4A .
- ④ Route a 30-foot lashing from bed ring B to 4 .
- ⑤ Route a 15-foot lashing through the truck bed tiedown ring 1, and through it's own D-ring. Lay it to the vehicle side or roll it up and lay it to the side.
- ⑥ Repeat for truck bed tiedown rings 2, 3, 1A, 2A and 3A.

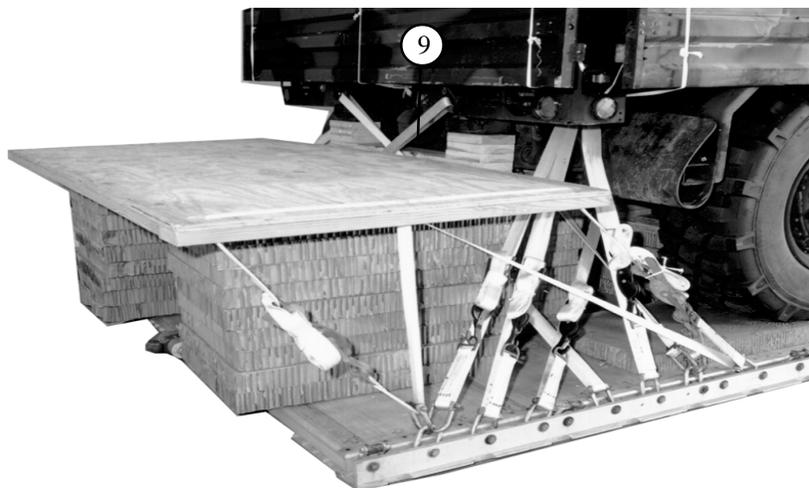
Figure 2-13. Basic load stowed (Continued)

**NOTE:** Before positioning roof, make sure that all tiedown rings are laying to the outside of the truck bed.



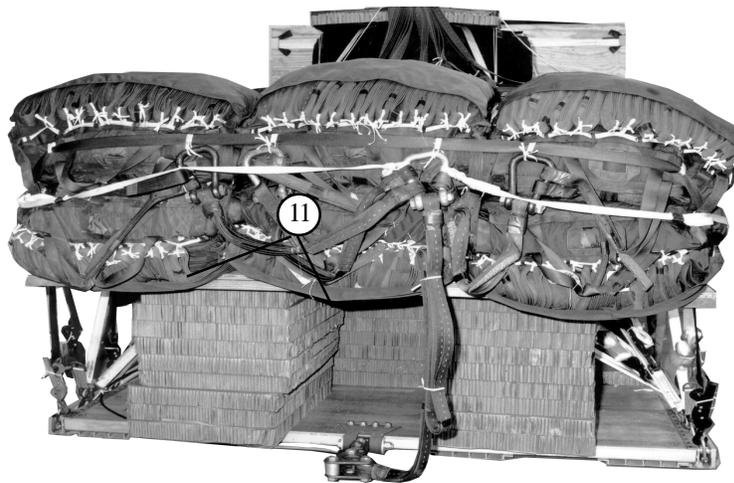
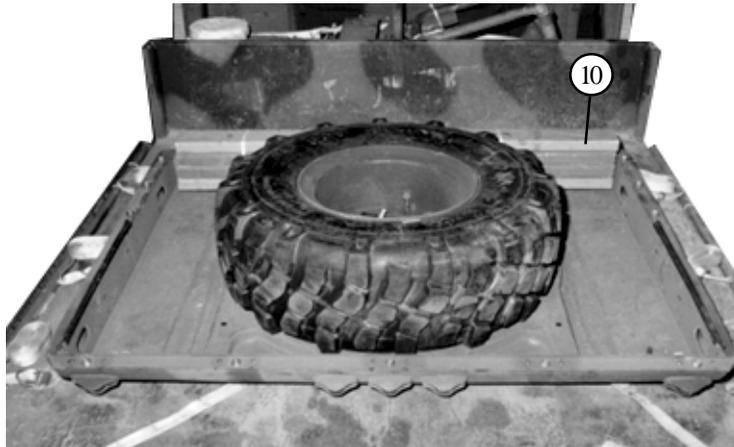
- ⑦ Position the roof upside down and centered between truck bed tiedown rings 1, 2, 3, 1A, 2A, and 3A, with the lights facing the rear of the vehicle.

*Figure 2-13. Basic load stowed (Continued)*



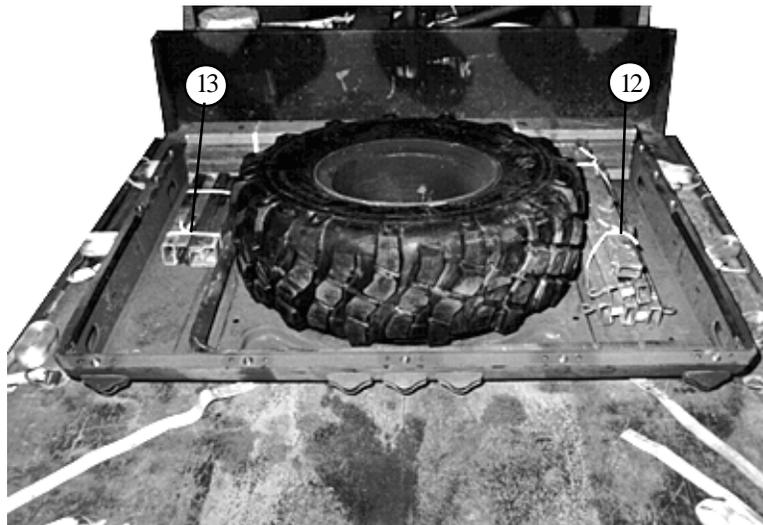
- ⑧ Roll and tape the tire strap. Secure it in the spare tire using 1/2-inch tubular nylon webbing.
- ⑨ Position the spare tire in the center of the roof.

Figure 2-13. Basic load stowed (Continued)



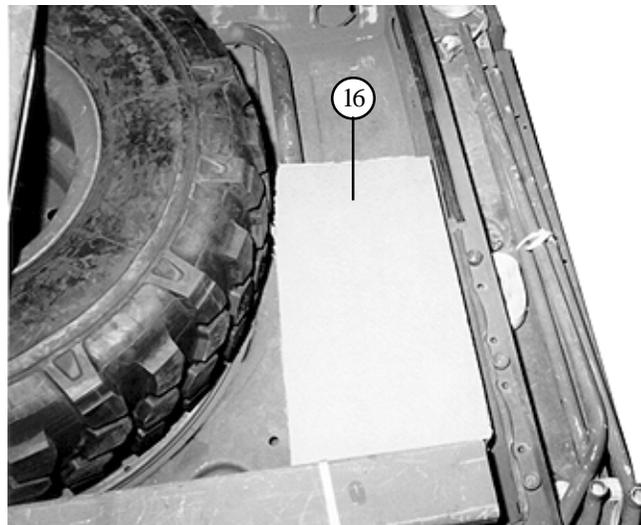
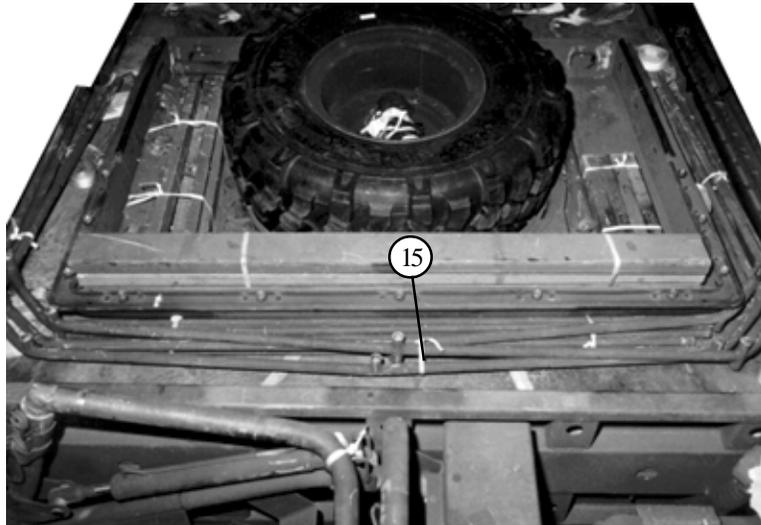
- ⑩ Position the side rails inside the roof in front of the spare tire.
- ⑪ Position the davit to the rear of the spare tire.

Figure 2-13. Basic load stowed (Continued)



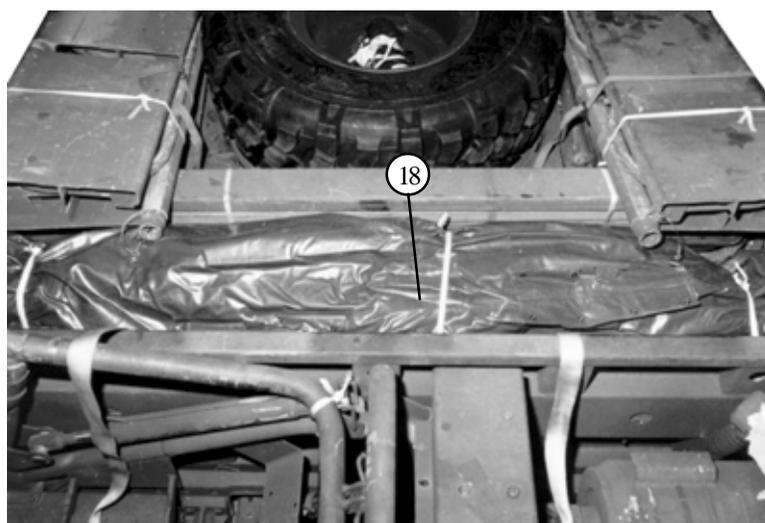
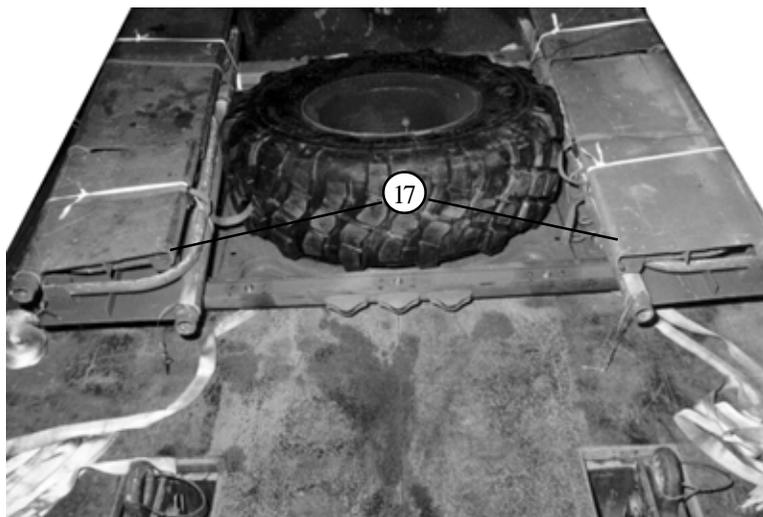
- ⑫ Place the seat bars inside the roof and to the right of the spare tire.
- ⑬ Place the bed stakes inside the roof and to the left of the spare tire.
- ⑭ Place the cargo/troop carrier cover poles in the pole holder in the front of the truck bed. (Not shown)

*Figure 2-13. Basic load stowed (Continued)*

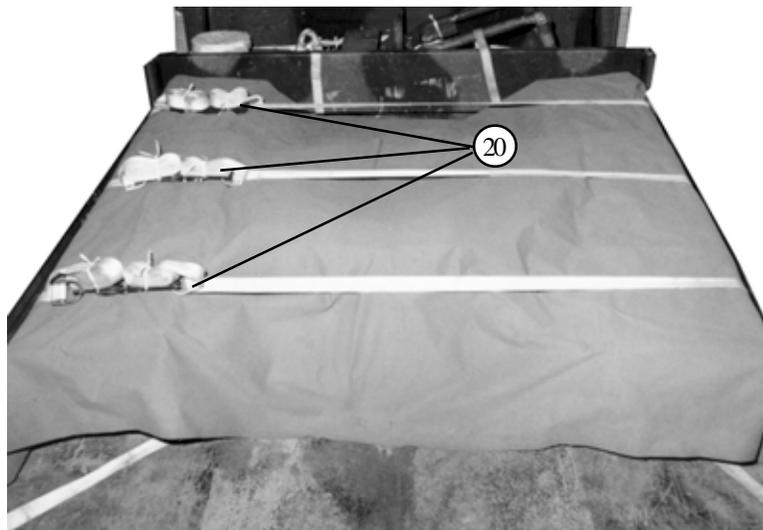
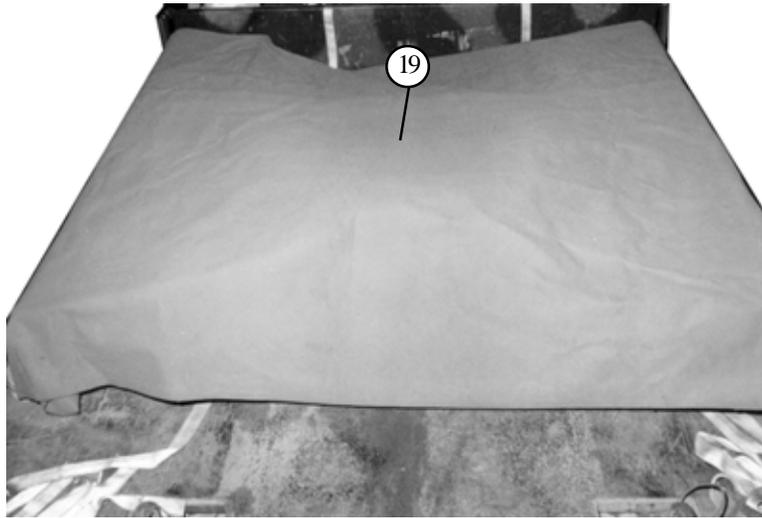


- ⑮ Position the bows in front and around the roof.
- ⑯ Position two pieces of honeycomb on the bed stakes to create a level surface.

Figure 2-13. Basic load stowed (Continued)

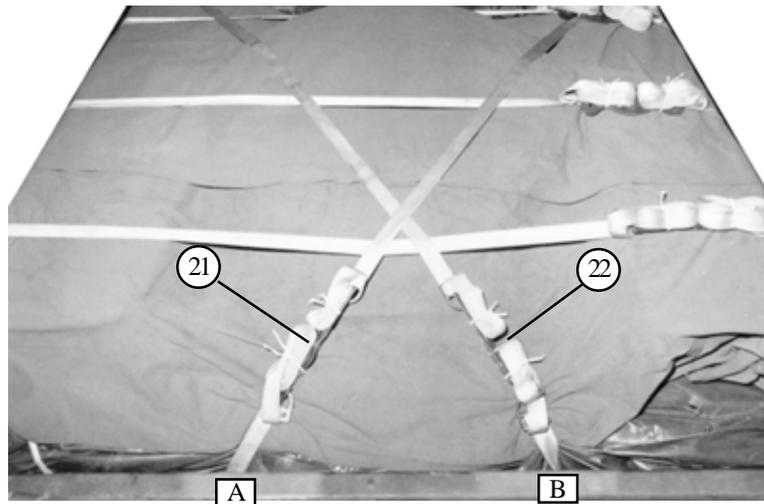


- ①⑦ Position one set of the seats to the left side and one set to the right side of the spare tire.
- ①⑧ Position the cargo/troop carrier cover to the front outside of the roof.



- ①⑨ Position the canvas over the basic load.
- ②⑩ Secure the lashings on top of the seats on the left side, lashing 1 to 1A, 2 to 2A, and 3 to 3A over the load. (Ensure the bows are outside the lashings to prevent bending.)

Figure 2-13. Basic load stowed (Continued)

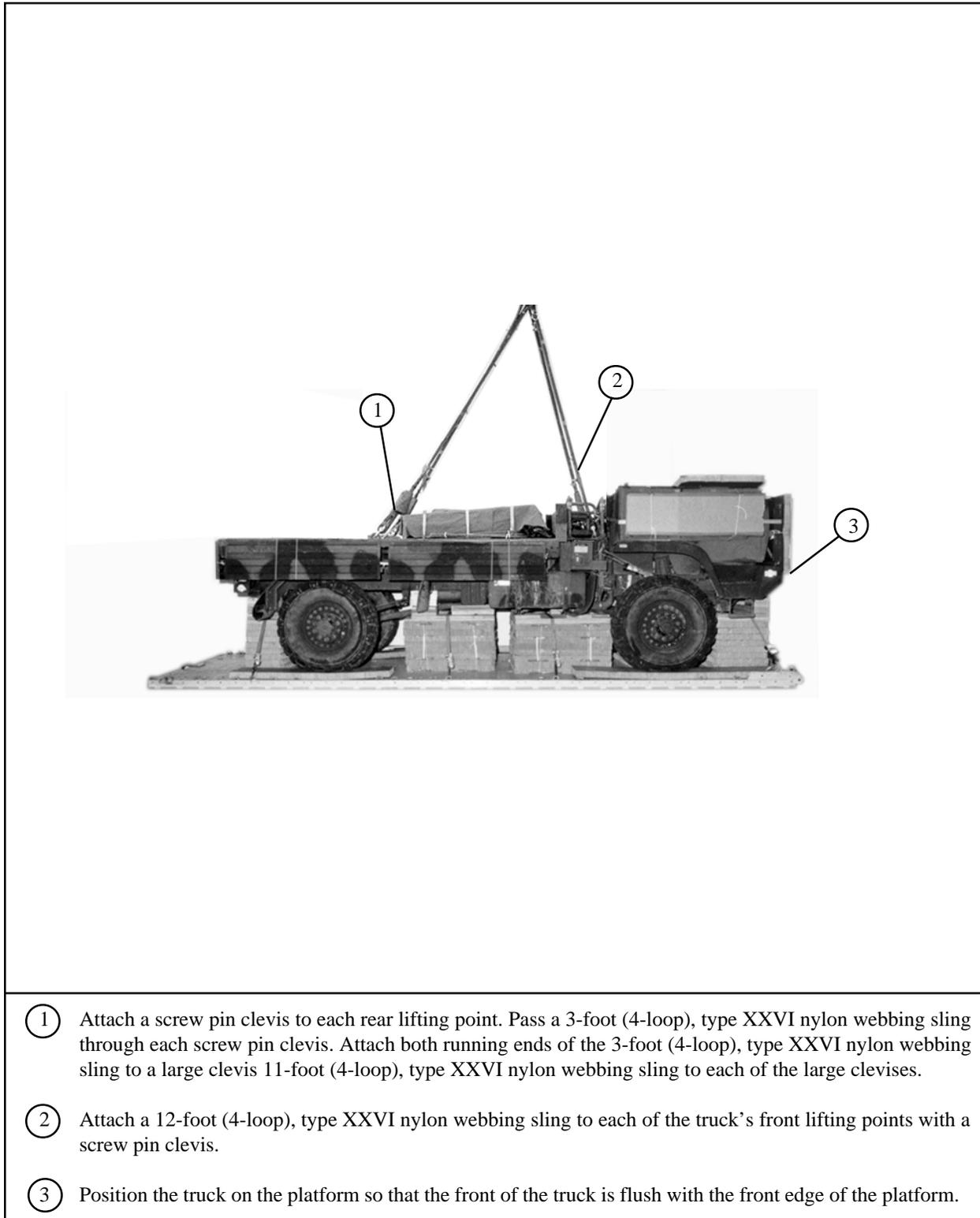


- ②1 Secure the 30-foot lashing routed from truck bed center tiedown rings A to 4A.
- ②2 Secure the 30-foot lashing routed from truck bed center tiedown rings B to 4.
- ②3 Secure the bows to 2 and 2A with 1/2-inch tubular nylon webbing. (Not shown).

*Figure 2-13. Basic load stowed (Continued)*

## 2-7. Lifting and Positioning Truck

Install lifting sling on the M1081 truck and position the truck on the platform as shown in *Figure 2-14*.

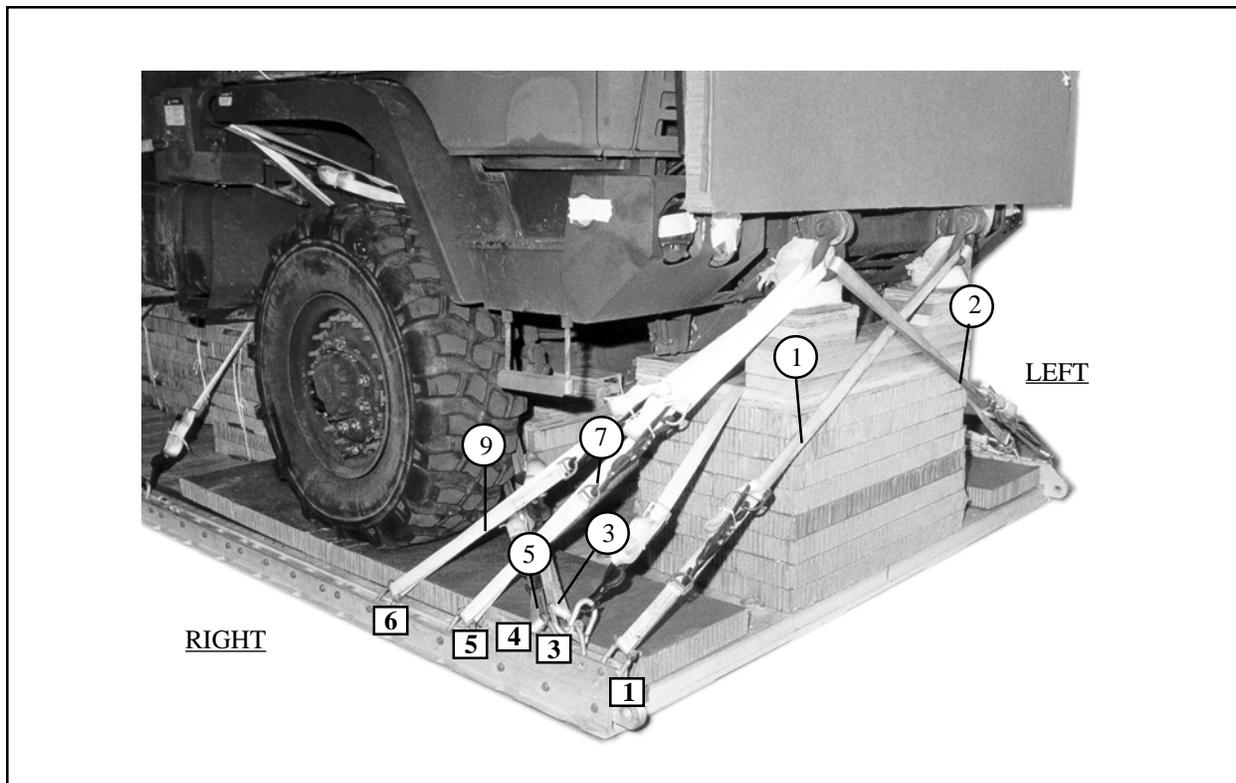


- ① Attach a screw pin clevis to each rear lifting point. Pass a 3-foot (4-loop), type XXVI nylon webbing sling through each screw pin clevis. Attach both running ends of the 3-foot (4-loop), type XXVI nylon webbing sling to a large clevis 11-foot (4-loop), type XXVI nylon webbing sling to each of the large clevises.
- ② Attach a 12-foot (4-loop), type XXVI nylon webbing sling to each of the truck's front lifting points with a screw pin clevis.
- ③ Position the truck on the platform so that the front of the truck is flush with the front edge of the platform.

*Figure 2-14. Lifting slings installed and truck positioned on the platform*

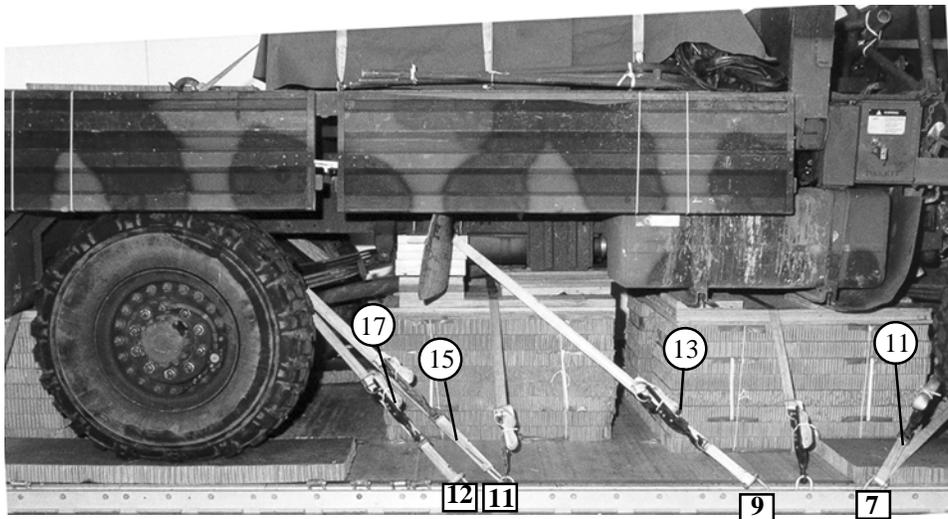
**2-8. Installing Lashings**

Lash the truck to the platform as shown in *Figure 2-15*.  
Install the lashings according to FM 10-500-2/TO 13C7-1-5.



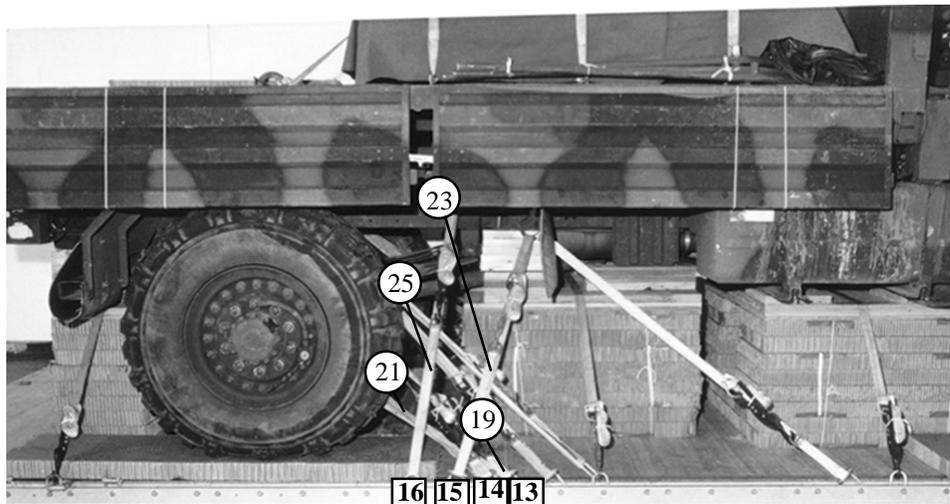
Lashing Number	Clevis Number	Instructions
1	1	Route a 15-foot lashing through the front shackle on the left side.
2	1a	Route a 15-foot lashing through the front shackle on the right side.
3	3	Route a 15-foot lashing around the front axle, right side.
4	3a	Route a 15-foot lashing around the front axle, left side.
5	4	Route a 15-foot lashing around the front axle, right side.
6	4a	Route a 15-foot lashing around the front axle, left side.
7	5	Route a 15-foot lashing through the front shackle on the right side.
8	5a	Route a 15-foot lashing through the front shackle on the left side.
9	6	Route a 15-foot lashing through the front shackle on the right side.
10	6a	Route a 15-foot lashing through the front shackle on the left side.

*Figure 2-15. Lashings installed*



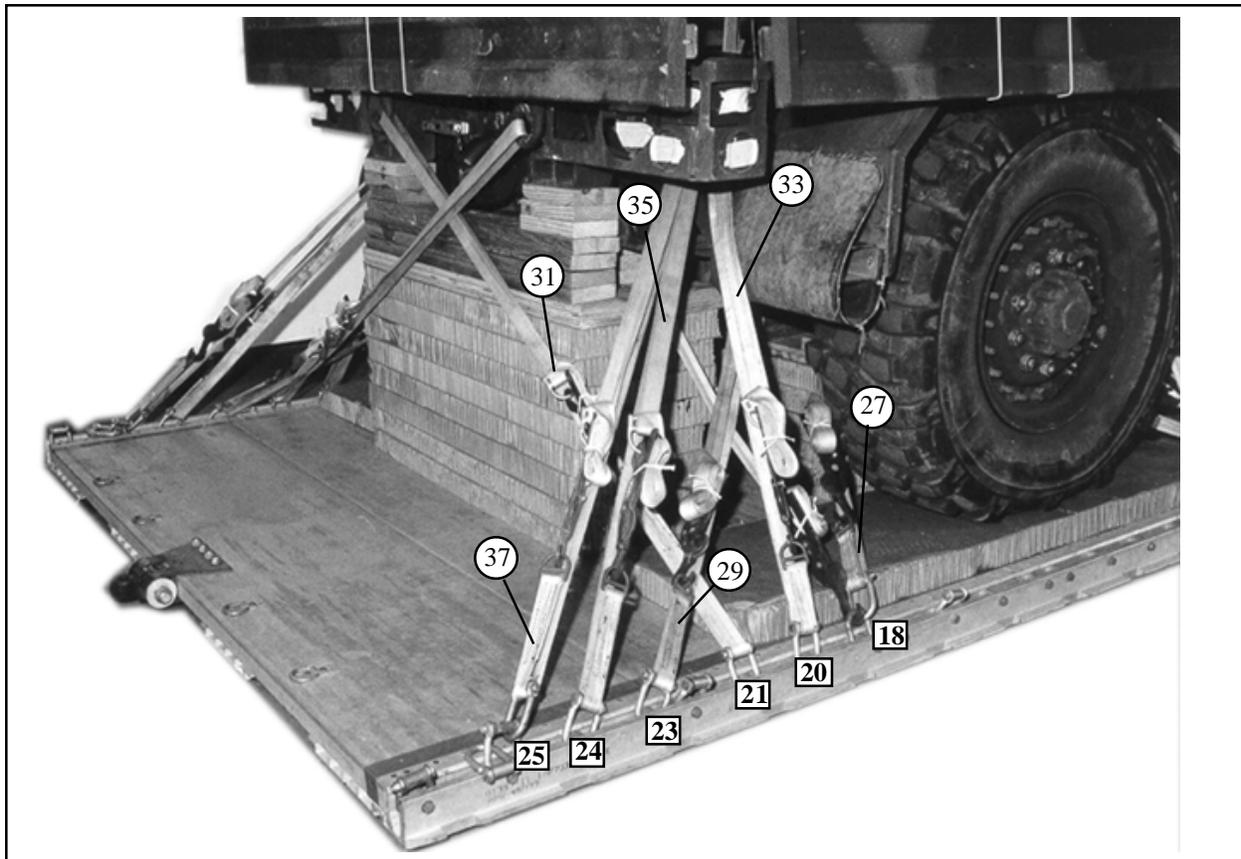
Lashing Number	Clevis Number	Instructions
11	7	Route a 15-foot lashing around the front axle, right side.
12	7a	Route a 15-foot lashing around the front axle, left side.
13	9	Route a 15-foot lashing through tiedown point #1 on the right side.
14	9a	Route a 15-foot lashing through tiedown point #1 on the left side.
15	11	Route a 15-foot lashing through tiedown point #3 on the right side.
16	11a	Route a 15-foot lashing through tiedown point #3 on the left side.
17	12	Route a 15-foot lashing through tiedown point #3 on the right side.
18	12a	Route a 15-foot lashing through tiedown point #3 on the left side.

Figure 2-15. Lashings installed (Continued)



Lashing Number	Clevis Number	Instructions
19	13	Route a 15-foot lashing around the rear axle, right side.
20	13a	Route a 15-foot lashing around the rear axle, left side.
21	14	Route a 15-foot lashing around the rear axle, right side.
22	14a	Route a 15-foot lashing around the rear axle, left side.
23	15	Route a 15-foot lashing through tiedown point #1 on the right side.
24	15a	Route a 15-foot lashing through tiedown point #1 on the left side.
25	16	Route a 15-foot lashing through tiedown point #2 on the right side.
26	16a	Route a 15-foot lashing through tiedown point #2 on the left side.

Figure 2-15. Lashings installed (Continued)

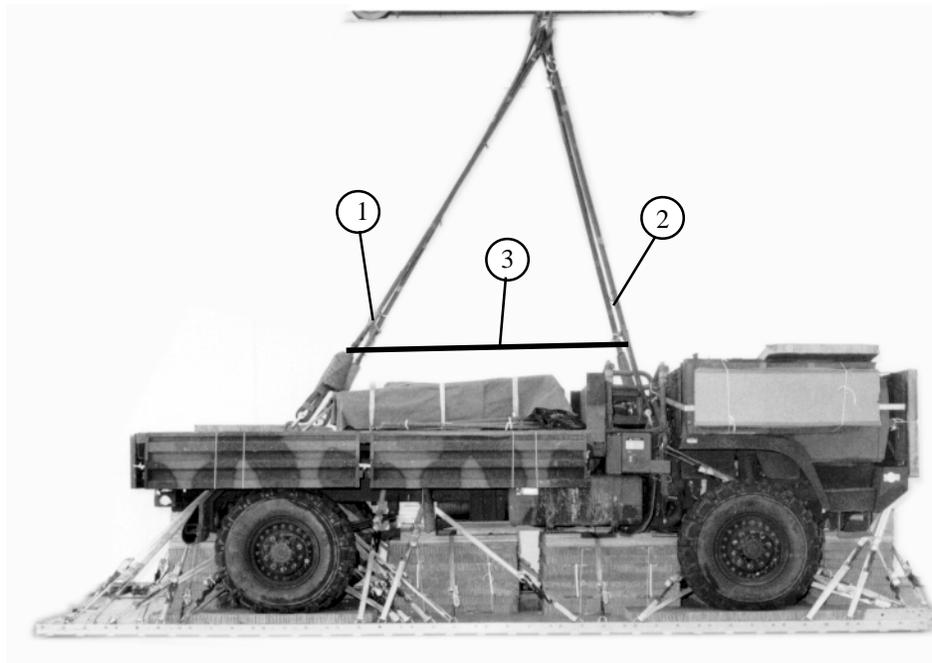


Lashing Number	Clevis Number	Instructions
27	18	Route a 15-foot lashing around the rear axle on the right side.
28	18a	Route a 15-foot lashing around the rear axle on the left side.
29	23	Route a 15-foot lashing around the rear axle stabilizer bar on the right side.
30	23a	Route a 15-foot lashing around the rear axle stabilizer bar on the left side.
31	21	Route a 15-foot lashing through the rear shackle on the left side.
32	21a	Route a 15-foot lashing through the rear shackle on the right side.
33	20	Route a 15-foot lashing through tiedown point #4 on the right side.
34	20a	Route a 15-foot lashing through tiedown point #4 on the right side.
35	24	Route a 15-foot lashing through tiedown point #4 on the right side.
36	24a	Route a 15-foot lashing through tiedown point #4 on the left side.
37	25	Route a 15-foot lashing through tiedown point #4 on the right side.
38	25a	Route a 15-foot lashing through tiedown point #4 on the left side.

Figure 2-15. Lashings installed (Continued)

### 2-9. Installing and Safetying Suspension Slings

Install and safety two 11-foot (4-loop), two 3-foot (4-loop), type XXVI nylon slings and two 12-foot (4-loop), type XXVI nylon slings as shown in *Figure 2-16*.



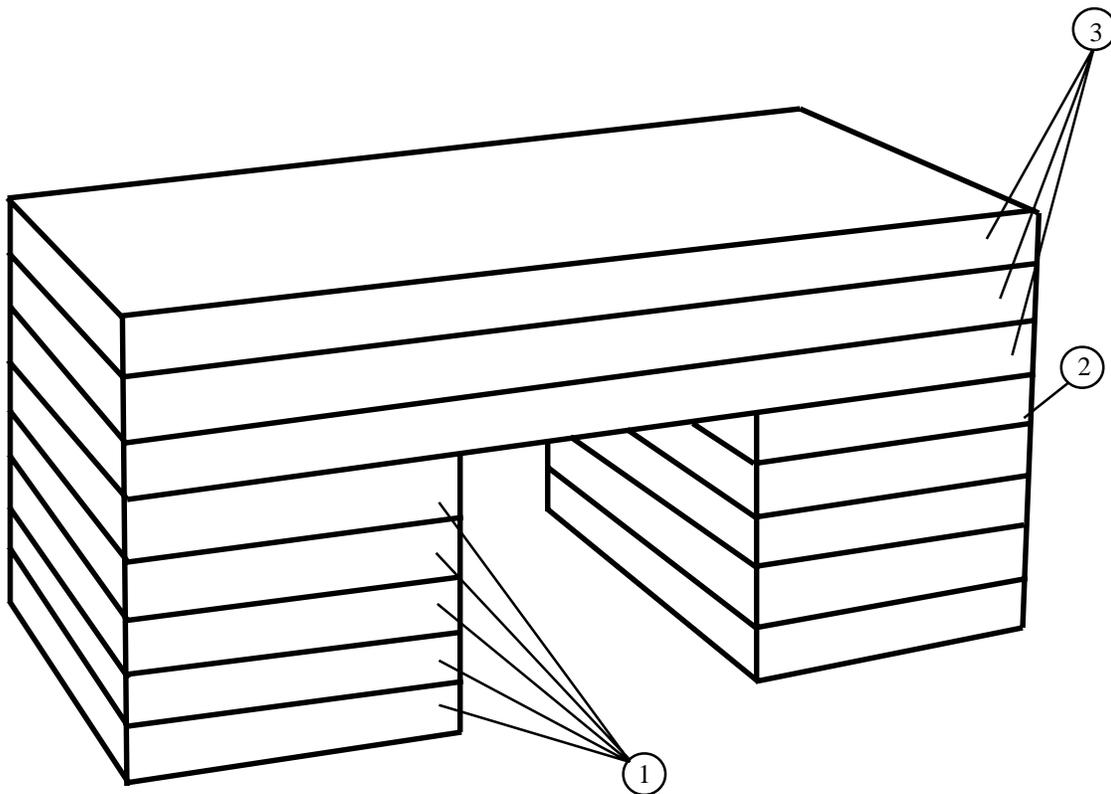
- ① Attach an 11-foot (4-loop), type XXVI sling to the rear lifting points with a screw pin clevis. Attach a 3-foot (4-loop), type XXVI sling to each of the rear slings with a 5 1/2-inch two-point link. Wrap with felt and tape the links.
- ② Attach a 12-foot (4-loop), type XXVI sling to each of the front lifting points with a screw pin clevis.
- ③ Raise the slings and install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

*Figure 2-16. Suspension slings installed and safetied*

## 2-10. Building and Positioning the Parachute Stowage Platform

Build and position the parachute stowage platform as shown in *Figure 2-17*.

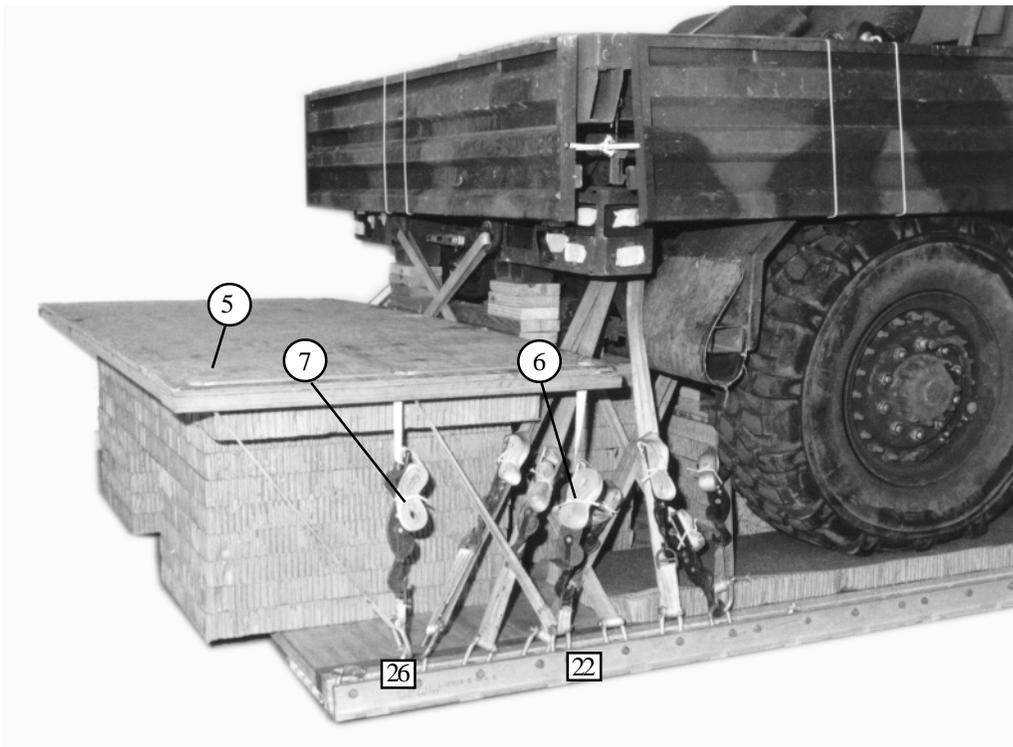
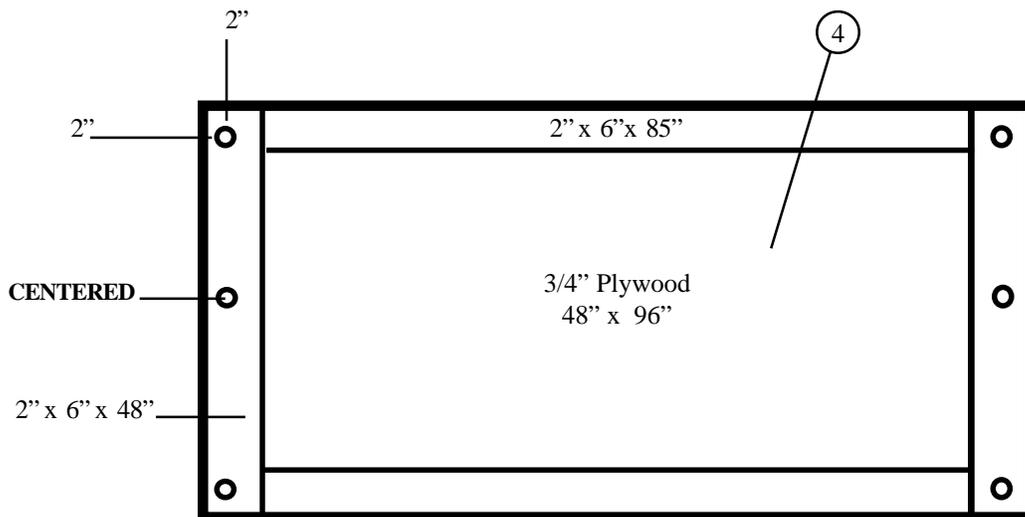
**Note:** This drawing is not drawn to scale.



- ① Cut ten pieces of 24- by 36-inch honeycomb. Glue five layers of honeycomb together forming a stack. Repeat forming the second stack.
- ② Cut three pieces of 36- by 70-inch honeycomb. Glue honeycomb together forming a stack.
- ③ Glue one 24- by 36-inch honeycomb stack to the right side and 22 inches apart from the other honeycomb stack on the left side of the 36- by 70-inch honeycomb stack.

*Figure 2-17. Cargo stowage platform positioned*

**Note: This drawing is not drawn to scale.**

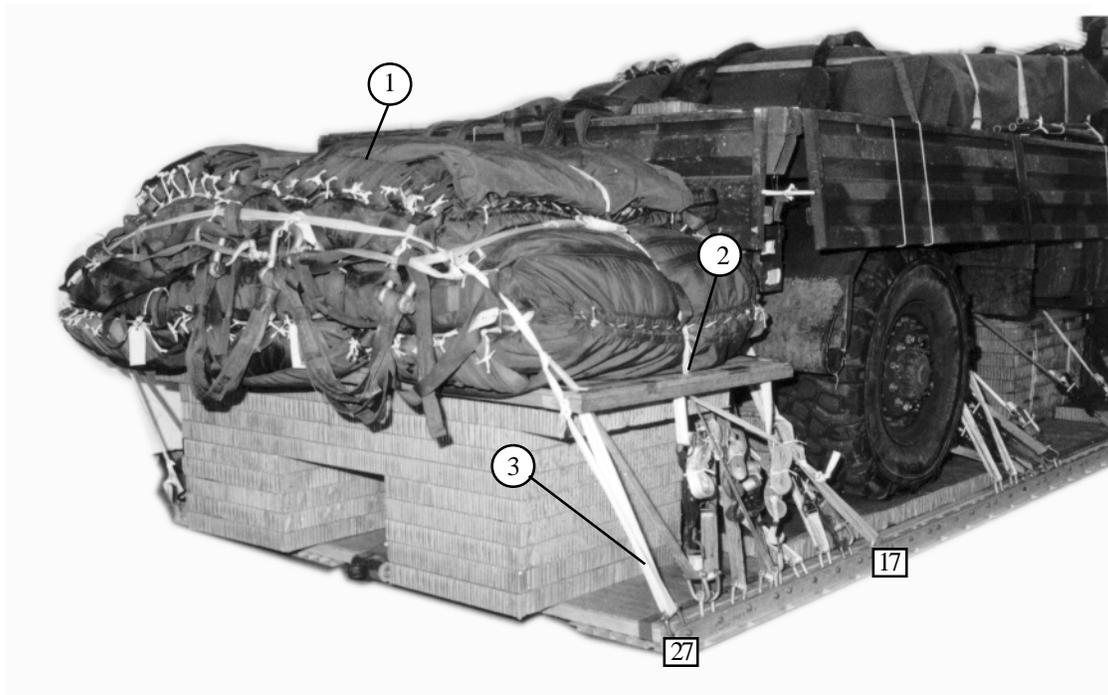


- ④ Construct a stowage platform as shown, using one sheet of 3/4-inch plywood. Glue two pieces of 36- by 84-inch honeycomb inside the stowage platform.
- ⑤ Center the stowage platform on the 36- by 70-inch honeycomb stack and flush against the lashings.
- ⑥ Route a lashing through clevis 22, through the front right hole in the stowage platform, and through the center right hole. Secure with a loadbinder. Repeat using clevis 22A for the left side.
- ⑦ Route a lashing through clevis 26, through the center right hole in the stowage platform, and through the rear right hole. Secure with a loadbinder. Repeat using clevis 26A for the left side.

Figure 2-17. Cargo stowage platform positioned (Continued)

## 2-11. Stowing Cargo Parachutes

Stow five G-11 cargo parachutes as shown in *Figure 2-18*.

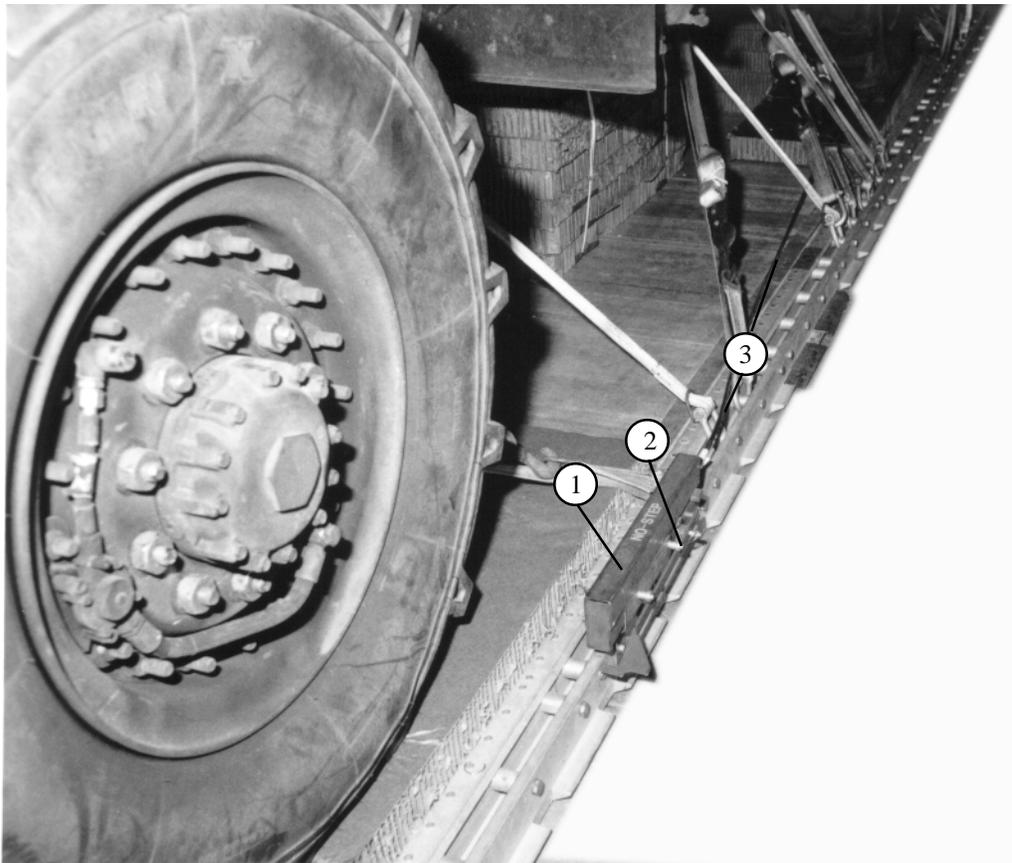


- ① Prepare, cluster and place five G-11 parachutes on the parachute stowage platform according to FM 10-500-2/TO 13C7-1-5. Install parachute restraints according to FM 10-500-2/TO 13C7-1-5.
- ② Secure the aft restraint to clevis 17 right side. Repeat for the left side using clevis 17A.
- ③ Secure the rear restraint to clevis 27 right side. Repeat for the left side using clevis 27A.

*Figure 2-18. Cargo parachutes stowed*

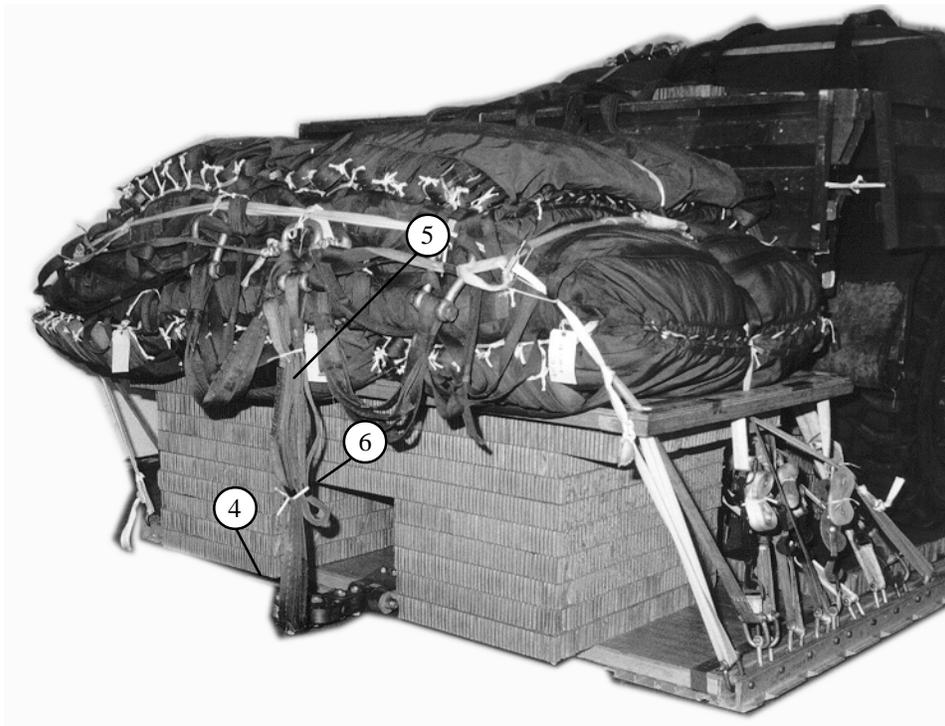
### 2-12. Installing Extraction System

Install the components of the extraction force transfer coupling (EFTC) according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 2-19*.



- ① Install the EFTC according to FM 10-500-2/TO 13C7-1-5.
- ② Install the EFTC mounting brackets in the rear mounting holes in the left platform rail.
- ③ Attach a 20-foot release cable to the actuator. Install the actuator in the EFTC mounting bracket.

*Figure 2-19. Extraction system installed*

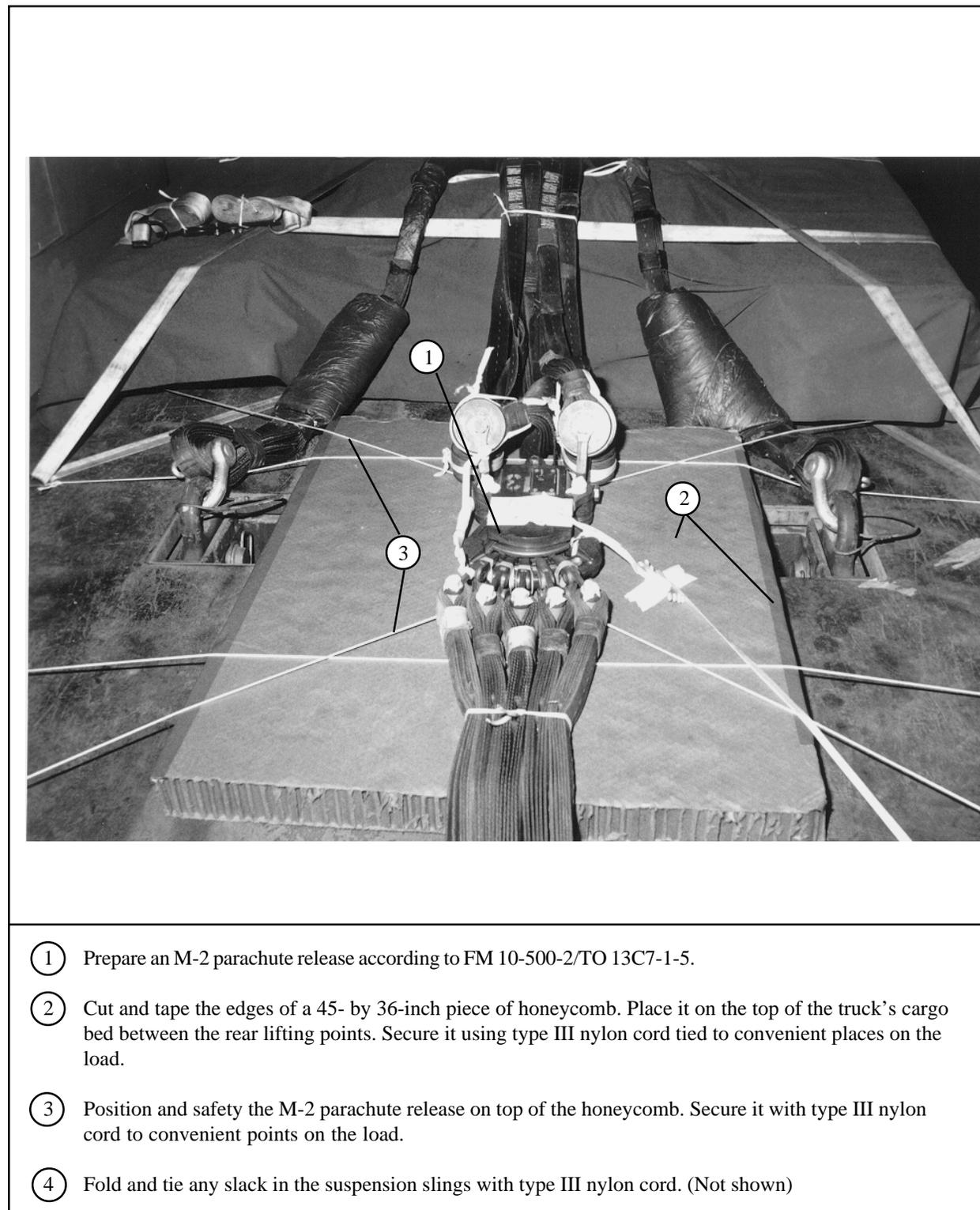


- ④ Safety the release cable with type I, 1/4-inch cotton webbing to the platform bushing or deck-rings.
- ⑤ Attach a 9-foot (2-loop), type XXXVI nylon sling, for use as a deployment line.
- ⑥ S-fold and secure the folds with type I, 1/4-inch cotton webbing according to FM 10-500-2/TO 13C7-1-5.

Figure 2-19. Extraction system installed (Continued)

### 2-13. Installing Release System

Install an M-2 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 2-20*.



*Figure 2-20. Parachute release installed*

**2-14. Installing Provisions for Emergency Restraints**

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

**2-15. 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.

**2-16. Marking the Rigged Load**

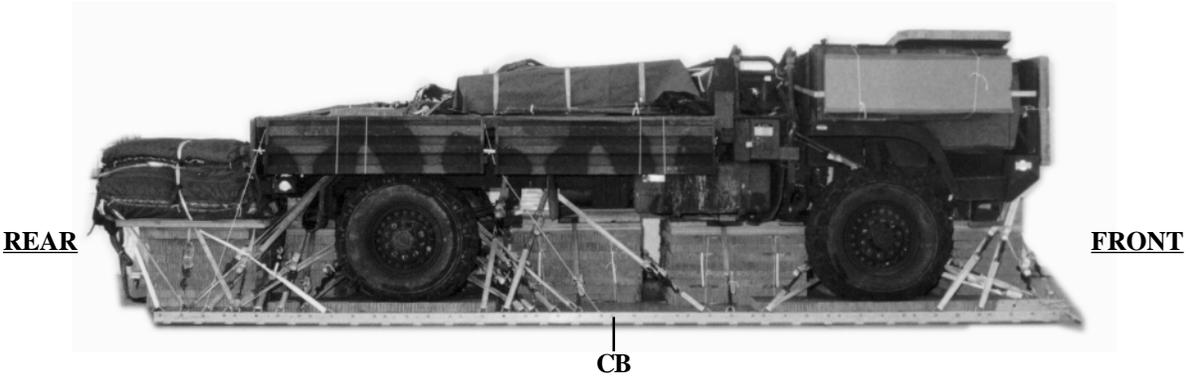
Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 2-21*. Complete Shipper's Declaration for Dangerous Goods and affix to load. If the load varies from the one shown, the weight, height, CB, tip-off curve and parachute requirements must be recomputed.

**2-17. Equipment Required**

Use the equipment listed in *Table 2-2* 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.



**RIGGEDLOADDATA**

<b>Weight: Load shown</b>	<b>23,181 pounds</b>
<b>Minimum weight:</b>	<b>22,500 pounds</b>
<b>Maximum weight:</b>	<b>23,000 pounds</b>
<b>Height:</b>	<b>93 inches</b>
<b>Width:</b>	<b>108 inches</b>
<b>Length:</b>	<b>315 inches</b>
<b>Overhang: Front:</b>	<b>0 inch</b>
<b>Rear:</b>	<b>27 inches</b>
<b>Center of Balance: (from the front edge of the platform)</b>	<b>135 inches</b>
<b>Extraction System</b>	<b>EFTC</b>

*Figure 2-21. M1081, 2 1/2-ton cargo truck rigged for low-velocity airdrop*

Table 2-2. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
N/A	Bolts, (washers and nuts), 1/2- by 10-in	4
1670-01-035-6054	Bridle, extraction line bag (Use with extraction line bag)	1
4030-00-432-2516	Clevis, screw pin	4
4030-00-090-5354	Clevis, suspension, 1-in (large)	3
8305-00-242-3593	Cloth, cotton duck, 60-in	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5787	Coupling, airdrop extraction force transfer cable, 20-ft	1
1670-00-360-0328	Cover, clevis, large	3
8135-00-664-6958	Cushioning material, packaging, (cellulose wadding)	As required
8305-00-958-3685	Felt, 1/2-in thick	As required
1670-01-183-2678	Leaf, extraction line, (line bag)	2
	Line, extraction line, type XXVI nylon webbing:	
1670-01-064-4452	60-ft (1-loop), drogue	1
1670-01-062-6313	60-ft (3-loop), type XXVI nylon webbing (for C-130)	1
1670-01-107-7651	140-ft (3-loop), type XXVI nylon webbing (for C-5, C-17, and C-141)	1
	Truck preparation Lumber:	
5510-00-220-6146	2- by 4- by 6	2
5510-00-220-6148	2- by 6- by 6	3
	2- by 6- by 13	1
5510-00-220-6274	4- by 4- by 6	2
	4- by 4- by 15	2
5530-00-128-4981	Plywood, 3/4-in:	
	10- by 10-in	1

Table 2-2. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on type V platform (continued)

National Stock Number	Item	Quantity
	Link assembly:	
1670-01-783-5988	Type IV	6
	Two-point:	1
5303-00-435-8994	Bolt, 1-in diam, 4-in long	(2)
5310-00-232-5161	Nut, 1-in, hexagonal	(2)
1670-00-003-3454	Plate, side, 5 1/2-in	(2)
1670-00-007-3414	Spacer, large	(2)
1670-00-006-2752	Link, suspension tandem	2
	Lumber:	
1670-00-162-4981	2- by 6- by 48-in	2
	2- by 6- by 85-in	2
	Load spreader for honeycomb stack 1:	
	Lumber:	
5305-00-435-8994	2- by 8- by 12-in	2
	2- by 8- by 43-in	2
	Plywood, 3/4-in:	
1670-00-003-1954	7 1/2- by 12-in	2
5510-00-128-4981	14- by 7-in	2
5365-00-007-3414	24- by 43-in	2

Table 2-2. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	Load spreader for honeycomb stack 2:	
5510-00-220-6148	Lumber, 2- by 6- by 18-in	2
5530-00-128-4981	Plywood, 3/4-in:	
	5 1/2- by 18-in	6
	18- by 48-in	2
	Load spreader for honeycomb stack 3:	
5510-00-220-6246	Lumber, 2- by 8- by 26 1/2-in	2
5530-00-129-7777	Plywood, 1/2-in:	
	7 1/2- by 26 1/2-in	1
5510-00-128-4981	Plywood, 3/4-in:	
	6- by 8-in	1
	7 1/2- by 8-in	2
	8- by 16-in	1
	10- by 10-in	1
	12- by 14-in	4
	46- by 48-in	4
	Load spreader for honeycomb stack 4:	
	Lumber:	
5510-00-220-6148	2- by 6- by 21-in	6
	2- by 6- by 48-in	1
5510-00-220-6250	2- by 12- by 12-in	6
	2- by 12- by 34- in	2
5510-00-220-6448	Plywood 3/4-in:	
	44- by 48-in	3

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity on type V airdrop platform (continued)

National Stock Number	Item	Quantity
	Load spreader for honeycomb stack 5:	
5510-00-220-6148	Lumber, 2- by 6- by 18-in	2
5530-00-128-4981	Plywood, 3/4-in:	
	5 1/2- by 18-in	6
	18- by 60-in	2
	Load spreader for honeycomb stack 6:	
	Lumber:	
5510-00-220-6148	2- by 6- by 8-in	6
	2- by 6- by 33-in	3
	2- by 6- by 45-in	4
5530-00-128-4981	Plywood, 3/4-in:	
	18- by 48-in	3
	Nail, steel wire, common:	
5315-00-010-4659	8d	As required
5315-00-753-3885	16d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in:	39 sheets
	4- by 6-in	1
	12- by 30-in	1
	12- by 31-in	12
	18- by 44-in	24
	18- by 48-in	13
	18- by 60-in	2
	24- by 34-in	4
	36- by 44-in	4
	36- by 80-in	1
	36- by 96-in	10
	43- by 20-in	5
	43- by 30-in	2
	74- by 18-in	2
	96- by 18-in	2

Table 2-4. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
1670-01-016-7841	Parachute, cargo: G-11C	5
	Parachute, cargo extraction:	
1670-00-040-8135	28-ft,	1
1670-01-063-3715	15-ft	1
	Platform, AD, type V, 24-ft	1
1670-01-353-8425	Bracket assembly, coupling	(1)
1670-01-162-2372	Clevis, assembly (type V)	(58)
1670-01-353-8424	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link assembly (Multipurpose link)	(2)
1670-01-097-8817	Release, cargo parachute, M-2	1
	Sling, cargo, airdrop:	
	For deployment line:	
	9-ft (2-loop), type XXVI nylon webbing	1
	For lifting and suspension:	
1670-01-062-6306	3-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-6310	11-ft (2-loop), type XXVI nylon webbing	2
1670-01-062-6307	12-ft (4-loop), type XXVI nylon webbing	2
	For riser extension:	
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	5

Table 2-2. Equipment required for rigging the M1081, 2 1/2-ton cargo truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
5340-00-040-8219	Strap, parachute release, multi-cut with 3 knives	2
7510-00-266-5016	Tape, adhesive, 2-in (masking)	As required
7510-00-079-7906	Tape, pressure, 2-in (pressure sensitive)	As required
1670-00-937-0271	Tiedown assembly, 15-ft	79
	Webbing:	
8305-00-268-2411	Cotton, 80-lb	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, 1,000-lb natural	As required
8305-00-263-3591	Type VIII	As required