

**Section I**  
**RIGGING TRUCK FOR A LOW-VELOCITY AIRDROP**

**8-1. Description of Load**

The M35A1, M35A2 (line number X40009), and M35A2C (line number X40077), 2 1/2-ton, 6 X 6, cargo trucks, with or without accompanying load, are rigged on a 24-foot, type V platform with four G-11B cargo parachutes. The load shown in

this chapter has an accompanying load containing 14 boxes of 105-millimeter ammunition which weighs 1,568 pounds. The unrigged data for the trucks can be found in Table 8-1. This load can be airdropped from C-130, C-141, or C-5 aircraft.

**Table 8-1. Data for M35 series, 2 1/2-ton trucks**

TRUCK TYPE	WEIGHT (POUNDS)		LENGTH (INCHES)		WIDTH (INCHES)	HEIGHT (INCHES)	REDUCIBLE HEIGHT (INCHES)
	with winch	without winch	with winch	without winch			
M35A2C Cargo	13,530	13,030	278 1/4	264 1/4	96	112	81
M35A1 Cargo	13,860	13,443	277	263	96	112	80
M35A2 Cargo	13,530	13,000	277	263	96	112	80

## 8-2. Preparing Platform

Prepare a 24-foot, type V airdrop platform as described below.

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

*b. Installing Suspension Links.* Install the suspension links on assembled platforms according to FM 10-500-2/TO 13C7-1-5, and as shown in Figure 8-1.

*c. Installing Tandem Links.* Install a tandem link on the front of each rail as shown in Figure 8-1.

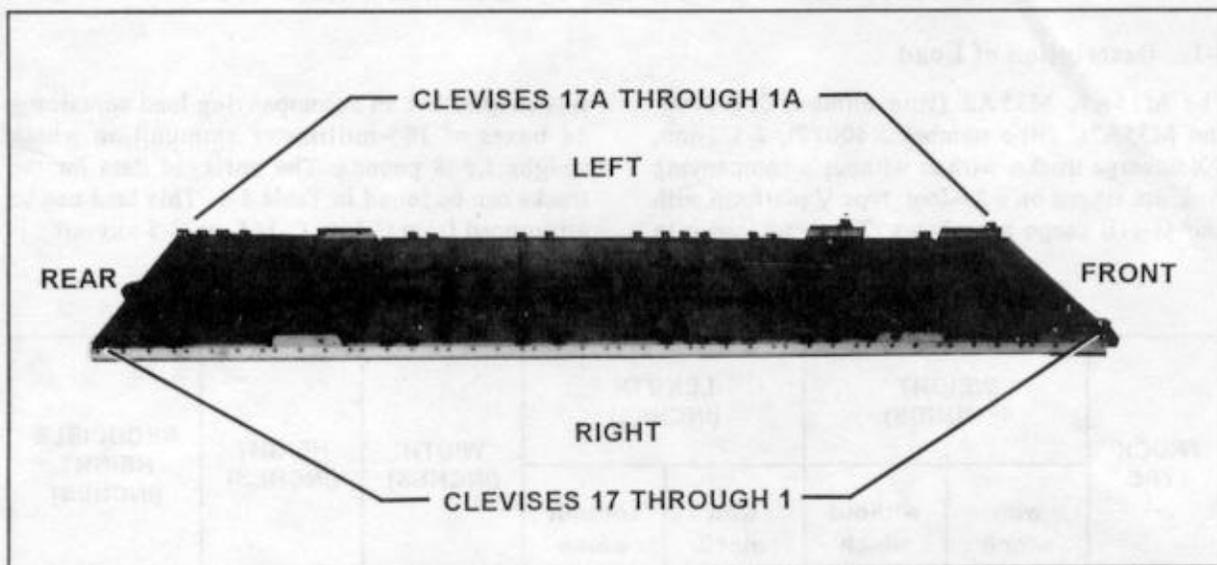
*d. Installing and Numbering Clevises.* Bolt and number 34 clevis assemblies as shown in Figure 8-1.

### 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.

3. If the platform must be assembled, install the suspension links when assembling the platform. See Figure 8-1 for the location of the suspension links.



### 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 suspension link on each platform side rail using bushings 9, 10, and 11.
3. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
4. Install a suspension link on each platform side rail using bushings 38, 39, and 40.
5. Install a clevis on bushing 1 on each tandem link.
6. Install a clevis on bushing 2 on each first suspension link.

Figure 8-1. Platform prepared

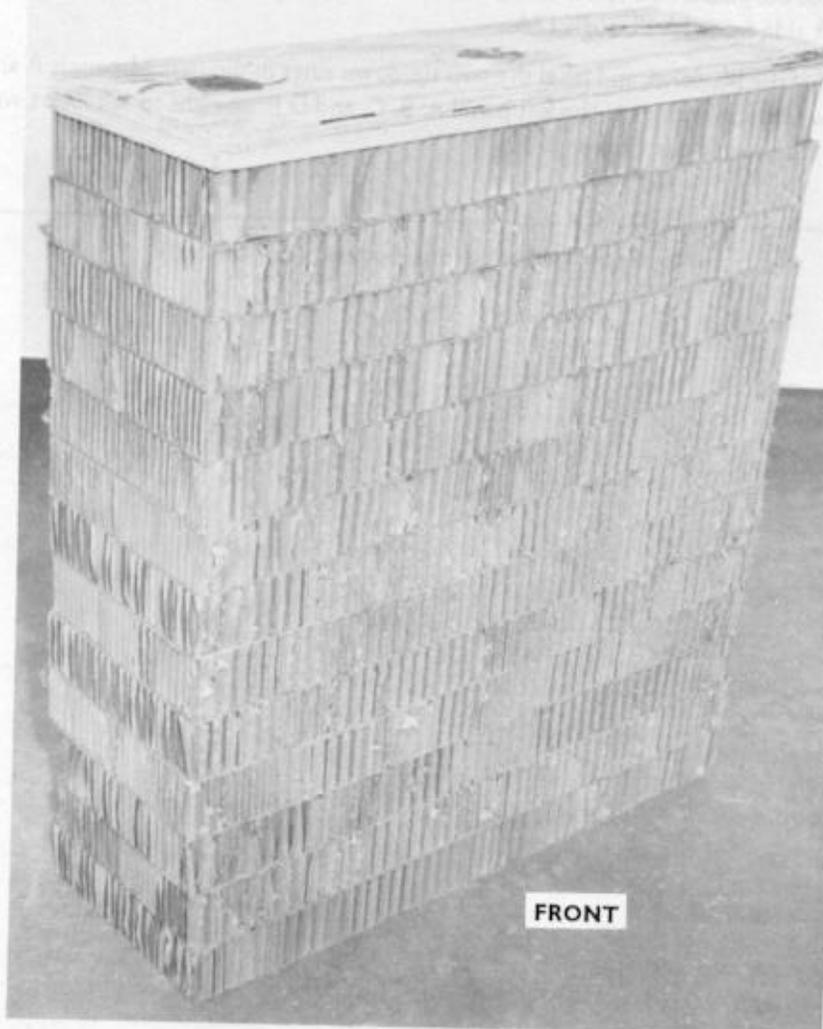
Step:

7. Start at the front of each platform side rail, and install clevises on each platform side rail using the bushings bolted on holes 5, 14, 15, 18, 19, 20, 22, 27, 29, 34, 35, 45, 46, 47, and 48.
8. Start at the front of the platform, and number the clevises bolted to the right side from 1 through 17 and those bolted to the left side from 1A through 17A.
9. Start at the front of the platform, and label the two tie-down rings in the first 11 panels A and B from right to left. Label the four tie-down rings in the last panel A, B, C, and D from right to left. Start with the first panel, and number the tie-down rings 1 through 12.

**Figure 8-1. Platform prepared (continued)**

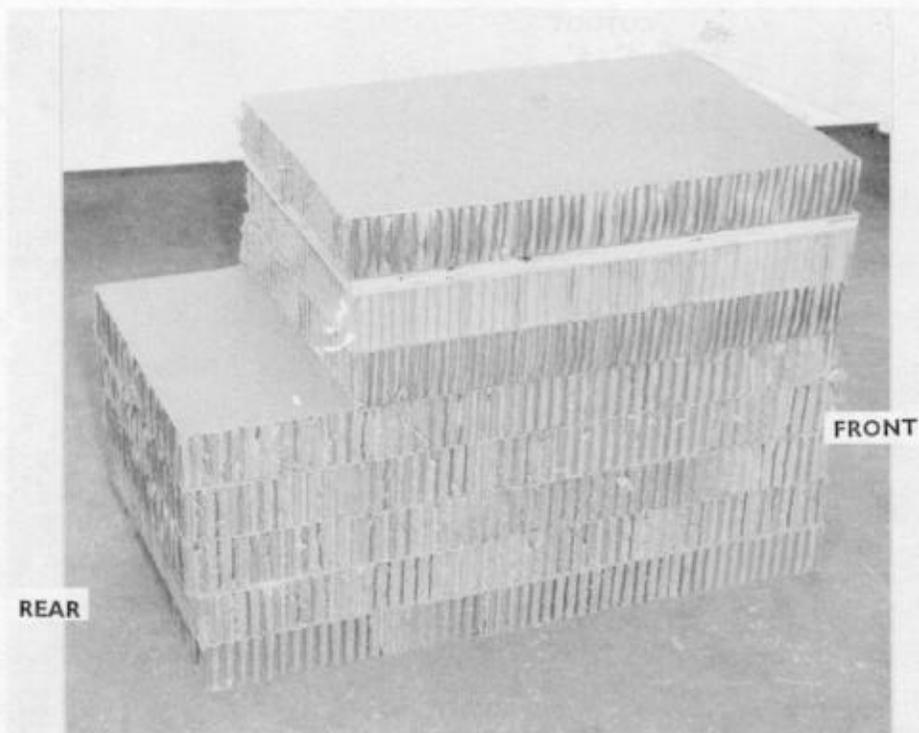
### 8-3. Preparing and Positioning Honeycomb Stacks

Prepare and position honeycomb stacks as shown in Figures 8-2 through 8-9.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	13	36	12	Honeycomb	Form honeycomb base.
	2	36	12	3/4-in plywood	Place the plywood pieces on top of honeycomb base.

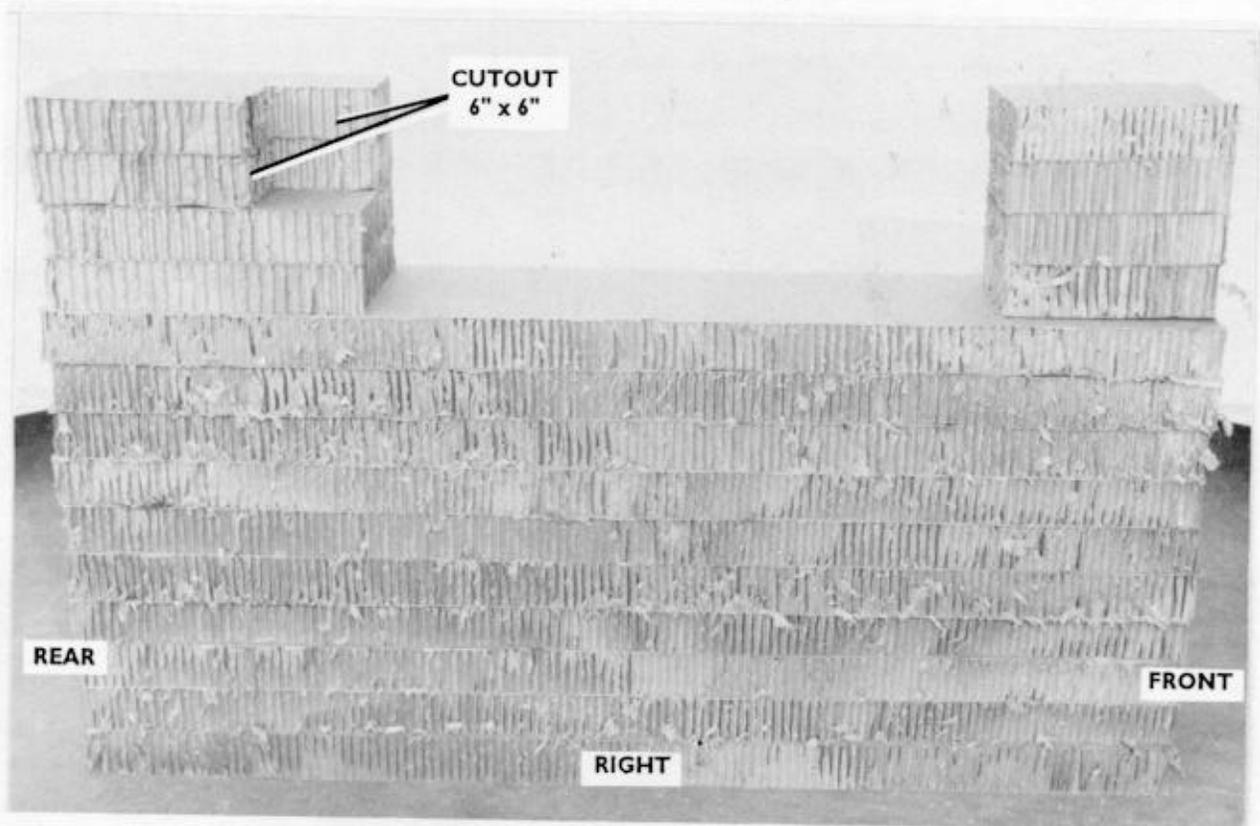
Figure 8-2. Honeycomb stack 1 prepared



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
2 & 3	5	18	36	Honeycomb	Form honeycomb base.
	3	18	27	Honeycomb	Place the honeycomb pieces on the front edge of honeycomb base.
	1	18	27	3/4-in plywood	Place plywood under the top layer of 18-by-27-inch honeycomb piece.

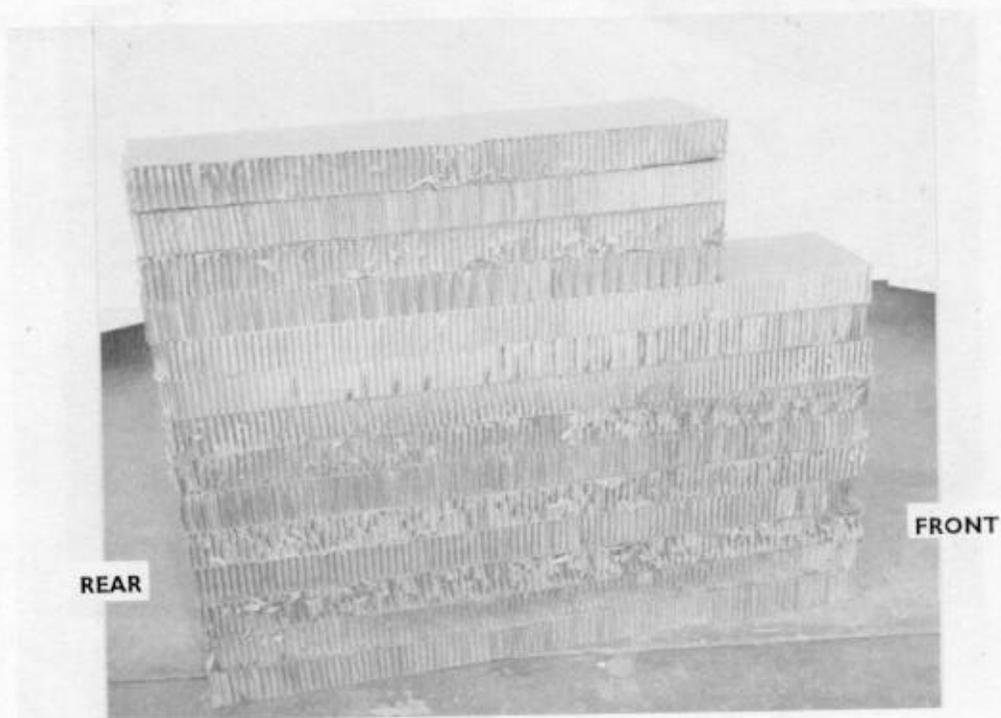
Figure 8-3. Honeycomb stacks 2 and 3 prepared

Note: Dimensions are in inches.



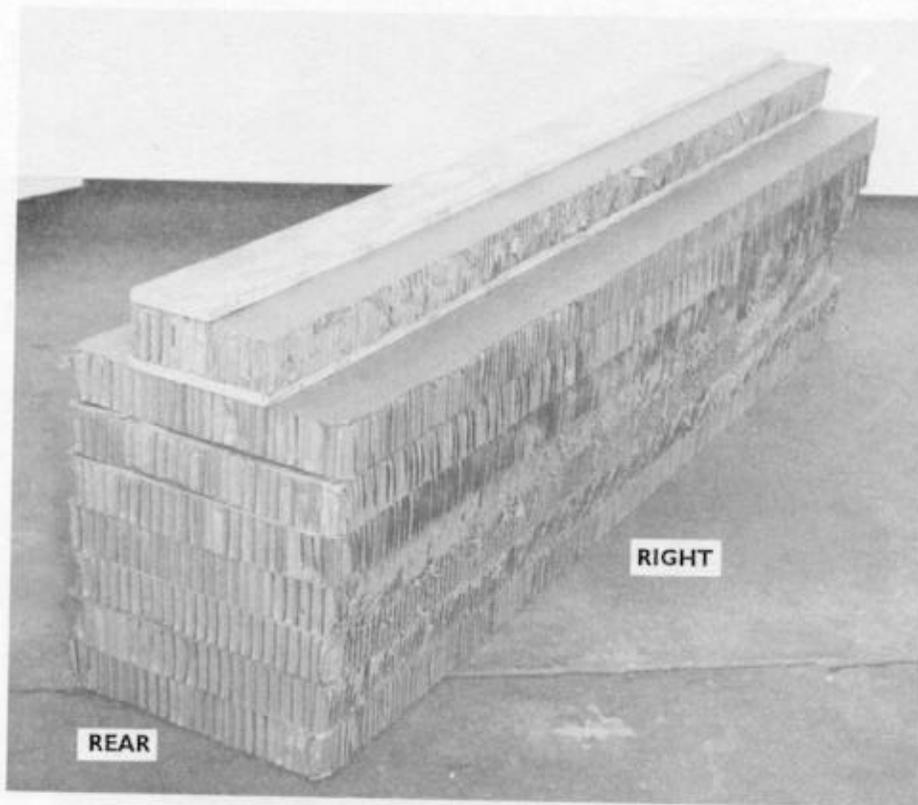
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
4	10	12	54	Honeycomb	Form honeycomb base.
	4	9	12	Honeycomb	Center honeycomb pieces on the front edge of honeycomb base.
	2	12	15	Honeycomb	Center honeycomb pieces on the rear edge of honeycomb base.
	2	12	15	Honeycomb	Make a 6- by 6-inch cutout on the right front end. Place the honeycomb piece on top of the 12- by 15-inch piece of honeycomb on the rear edge of honeycomb base.

Figure 8-4. Honeycomb stack 4 prepared



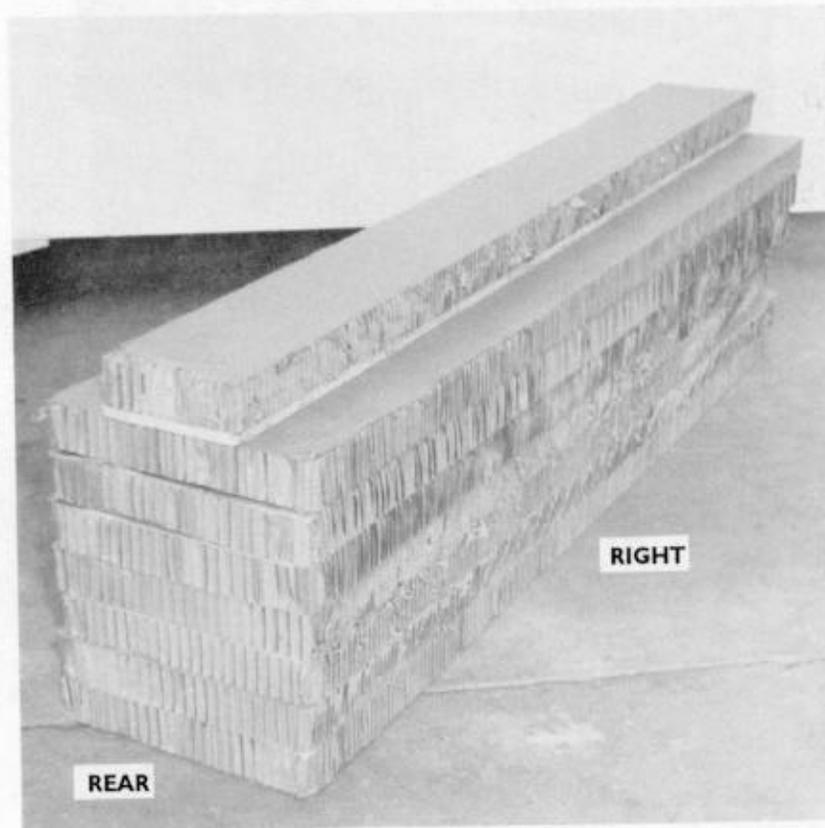
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
5	10	12	54	Honeycomb	Form honeycomb base.
	4	12	42	Honeycomb	Place honeycomb pieces flush with a rear edge of honeycomb base.

Figure 8-5. Honeycomb stack 5 prepared



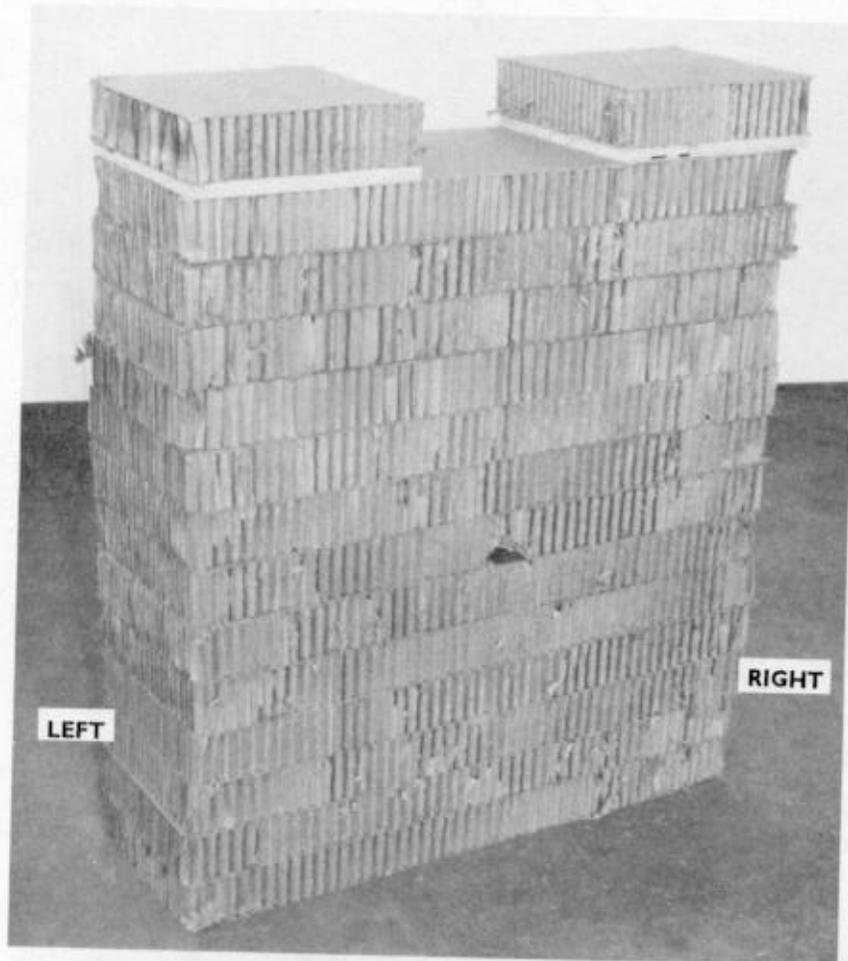
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
6	7	18	84	Honeycomb	Form honeycomb base.
	1	9	84	3/4-inch plywood	Center plywood on honeycomb base.
	1	9	84	Honeycomb	Center honeycomb on the 9- by 84-inch piece of 3/4-inch plywood.
	1	5	84	3/4-inch plywood	Place plywood on the left edge of the 9- by 84-inch piece of honeycomb.

Figure 8-6. Honeycomb stack 6 prepared



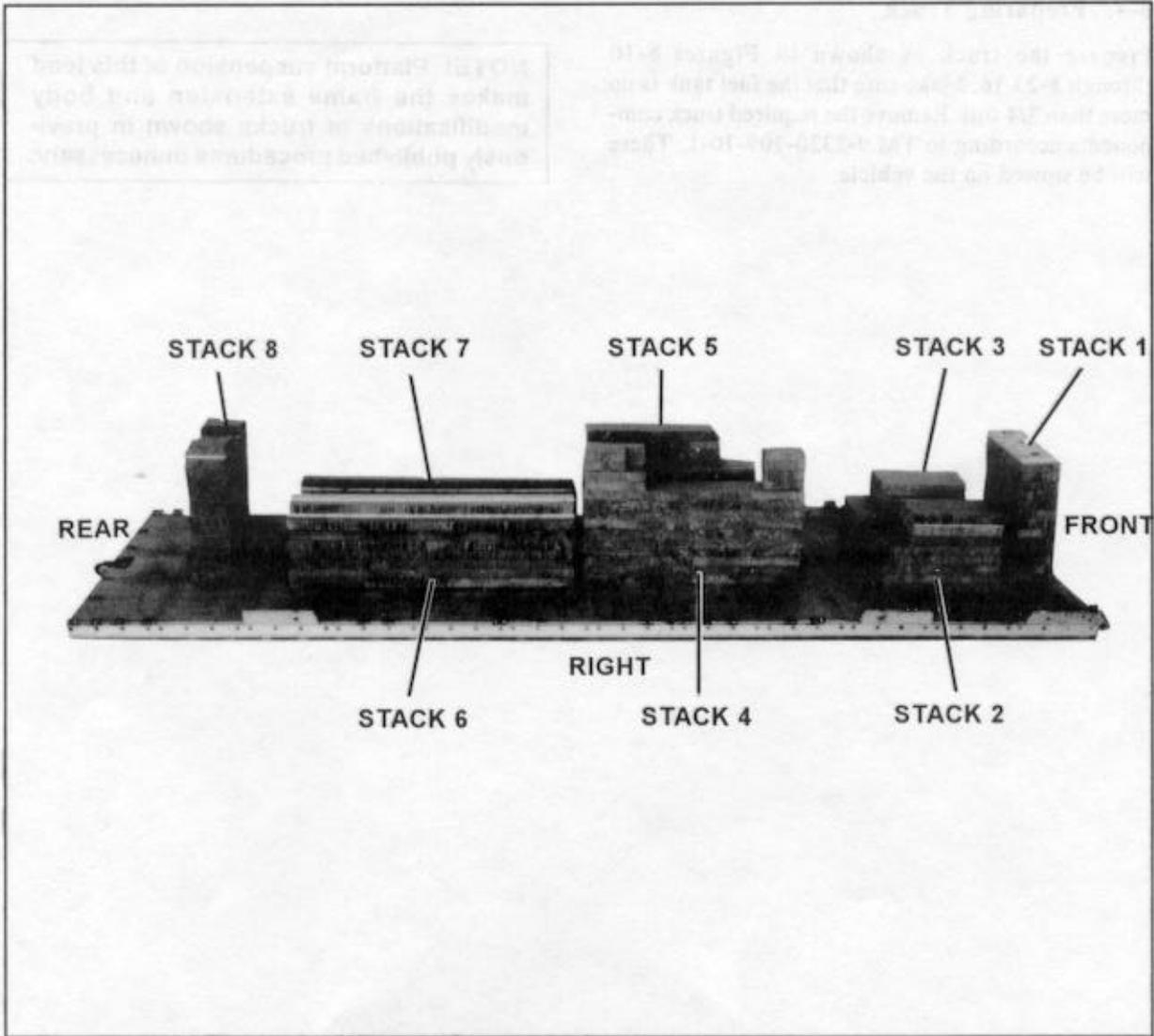
Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
7	7	18	84	Honeycomb	Form honeycomb base.
	1	9	84	3/4-in plywood	Center plywood on honeycomb base.
	1	9	84	Honeycomb	Center honeycomb on the 9- by 84-inch piece of plywood.

Figure 8-7. Honeycomb stack 7 prepared



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
8	13	36	12	Honeycomb	Form honeycomb base.
	2	12	12	3/4-in plywood	Place one piece of plywood on the left and right ends of the honeycomb base.
	2	12	12	Honeycomb	Place one piece of honeycomb on top of each 12-by 12-inch piece of 3/4-inch plywood.

Figure 8-8. Honeycomb stack 8 prepared



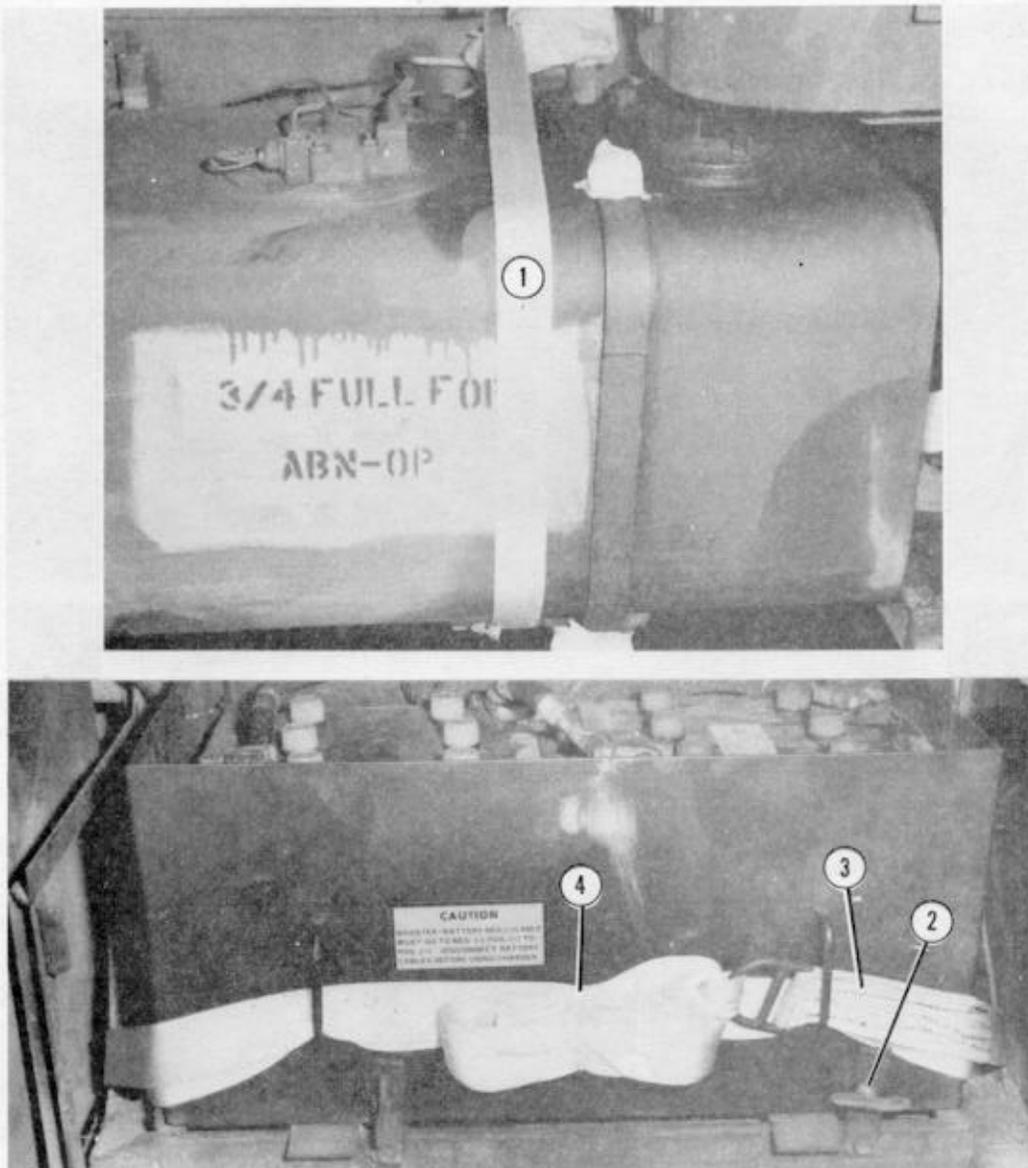
Stack Number	Position of Stack on Platform
1	Place stack: Centered flush with the front edge of the platform.
2	8 inches from stack 1, and 27 inches from the right rail.
3	8 inches from stack 1, and 27 inches from the left rail.
4	26 inches from stack 2, and 35 inches from the right rail.
5	34 inches from stack 3, and 35 inches from the left rail.
6	2 inches from stack 4, and 31 inches from the right rail.
7	2 inches from stack 5, and 31 inches from the left rail.
8	Centered on the rear of the platform 26 inches from stacks 6 and 7.

Figure 8-9. Honeycomb stacks positioned on platform

#### 8-4. Preparing Truck

Prepare the truck as shown in Figures 8-10 through 8-23.16. Make sure that the fuel tank is no more than 3/4 full. Remove the required truck components according to TM 9-2320-209-10-1. These will be stowed on the vehicle.

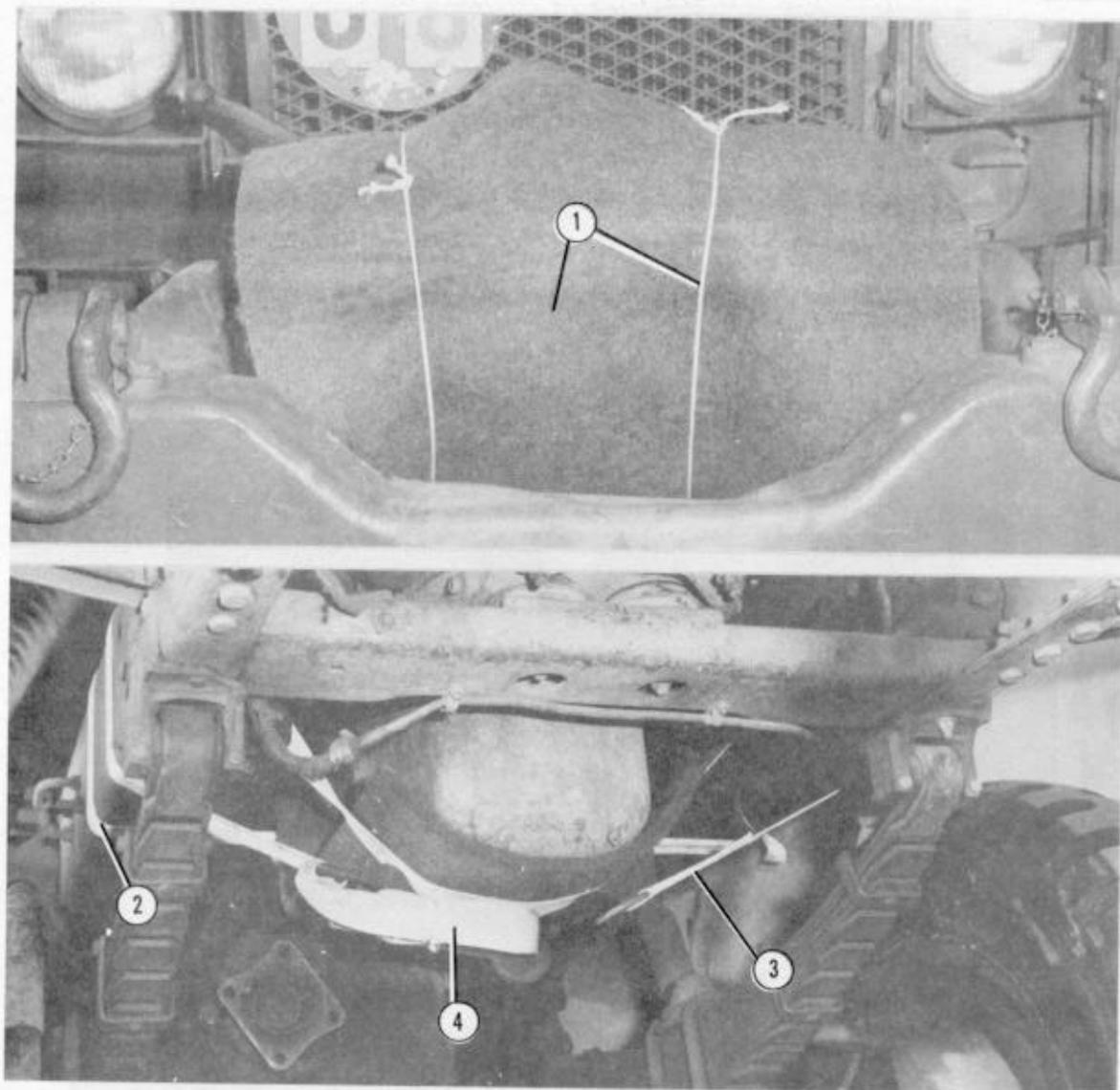
**NOTE: Platform suspension of this load makes the frame extension and body modifications of trucks shown in previously published procedures unnecessary.**



- ① Pass a 15-foot lashing around the fuel tank and truck frame. Secure the ends together.
- ② Make sure that the battery hold-down clamps keep the battery in place.
- ③ Pass a 15-foot lashing around the left side brace, through the handles on the front of the battery box, and around the right side brace.
- ④ Tie the ends of the lashing together. Fold and tie or tape the excess webbing.

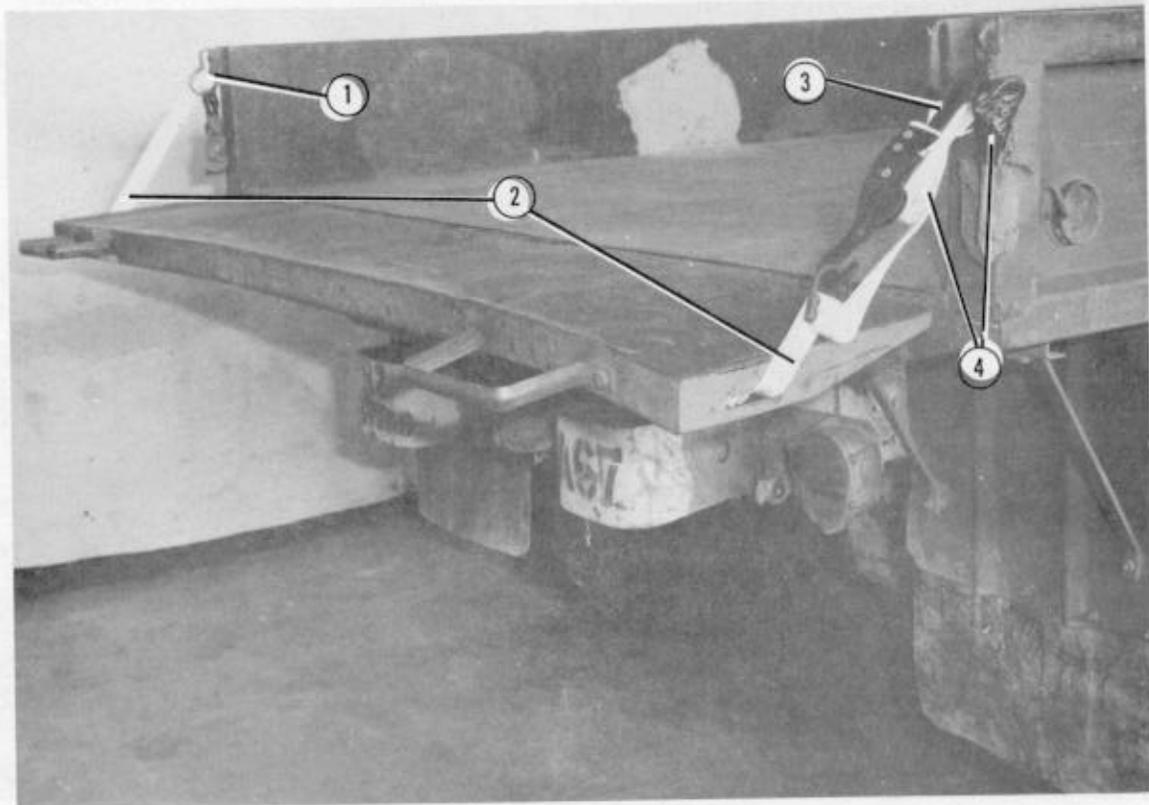
**Note:** Cover the battery with plastic or nonflammable material.

Figure 8-10. Fuel tank and battery box secured



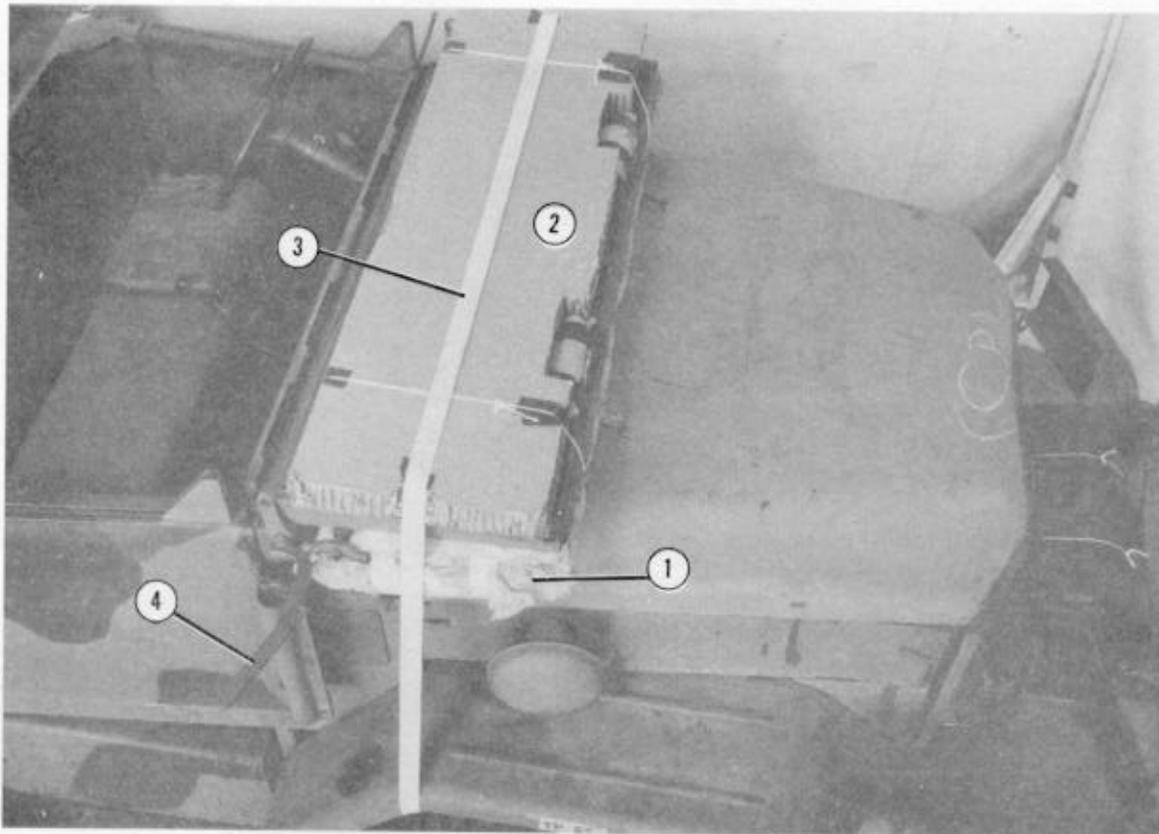
- ① Safety the winch chain with 1/2-inch tubular nylon webbing. Cover the winch with a 24- by 24-inch piece of felt. Safety tie it in place with type III nylon cord.
- ② Pass one end of a 15-foot lashing around each mainframe and under the rear of the oil pan. Place a 14- by 14-inch piece of felt under the pan. Hook the ends together with a D-ring and a load binder.
- ③ Pass a second 15-foot lashing around each mainframe under the front of the oil pan. Hook the ends of the tie-down strap together with a D-ring and a load binder.
- ④ Fold the excess webbing, and tie the folds to the load binders.

Figure 8-11. Winch safetied and engine support straps installed



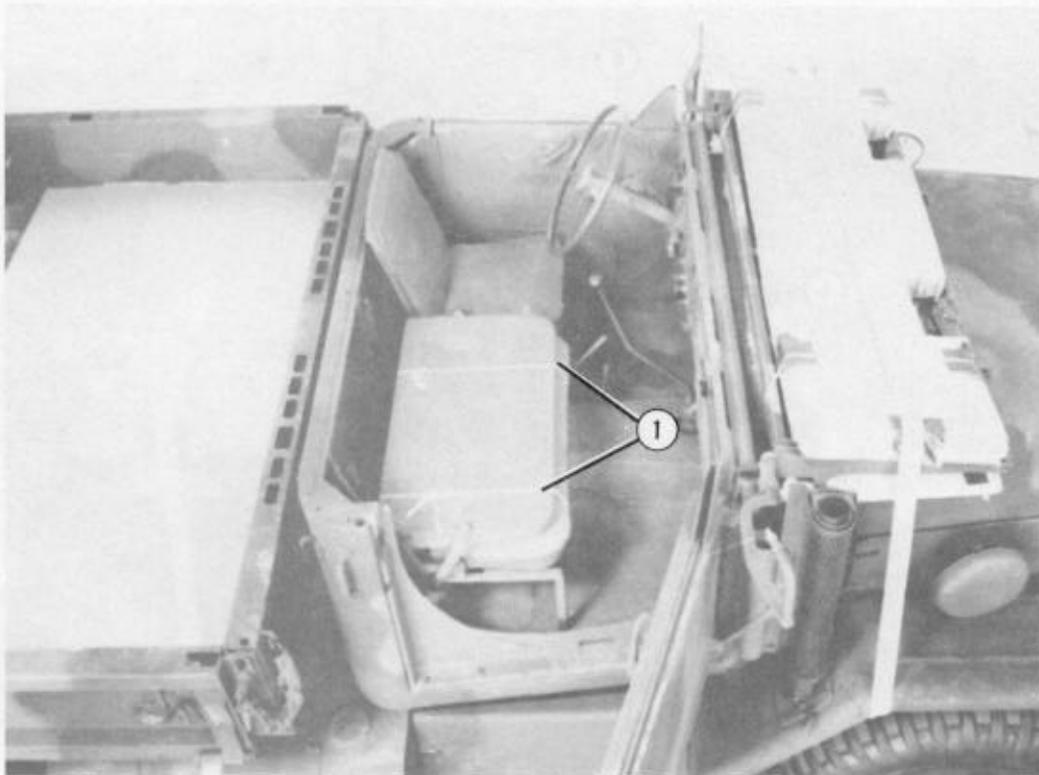
- ① Pass a 15-foot lashing through the left endgate chain slot and through its own D-ring. Pull the strap taut.
- ② Pass the lashing through the endgate slot, under the endgate, and through the slot on the right side of the endgate.
- ③ Level the endgate with the cargo bed, and secure the lashing with a D-ring and a load binder. Attach the load binder to the endgate chain slot.
- ④ Secure the load binder and excess lashing. Tape the endgate chains together.

**Figure 8-12. Endgate secured**



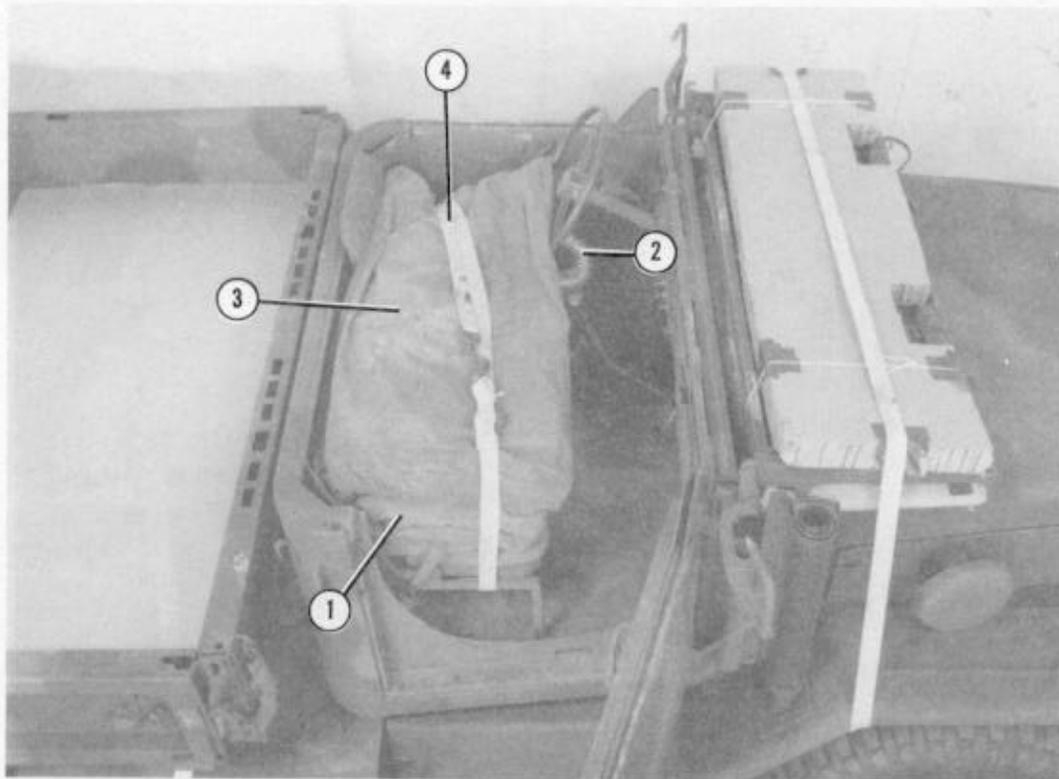
- ① Wrap a 3/4- by 65- by 19-inch piece of plywood with enough cellulose wadding to form a 2-inch pad. Place it across the hood of the truck, and fold the windshield down. Be sure the windshield wipers are clear of the support.
- ② Place a 65- by 19-inch piece of honeycomb on top of the windshield.
- ③ Use a 15-foot lashing to secure the windshield. Pass the lashing through the second tie-down provision on the right mainframe and through its own D-ring. Pass the lashing over the honeycomb, and attach it to the second tie-down provision on the left mainframe with a D-ring and a load binder.
- ④ Remove the mirrors, and pad them with cellulose wadding. Stow them in the glove compartment or the OVM box.

Figure 8-13. Windshield secured



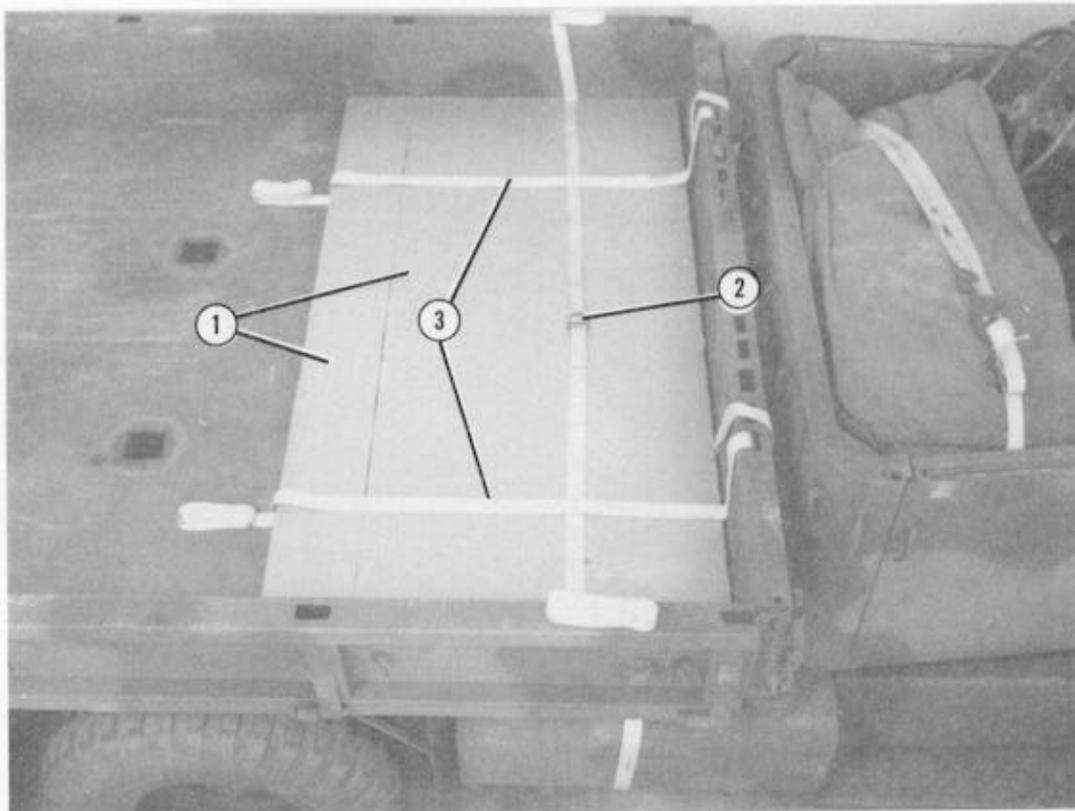
- ① Fold the passenger seat down, and secure it with type III nylon cord.

Figure 8-14. Passenger seat secured



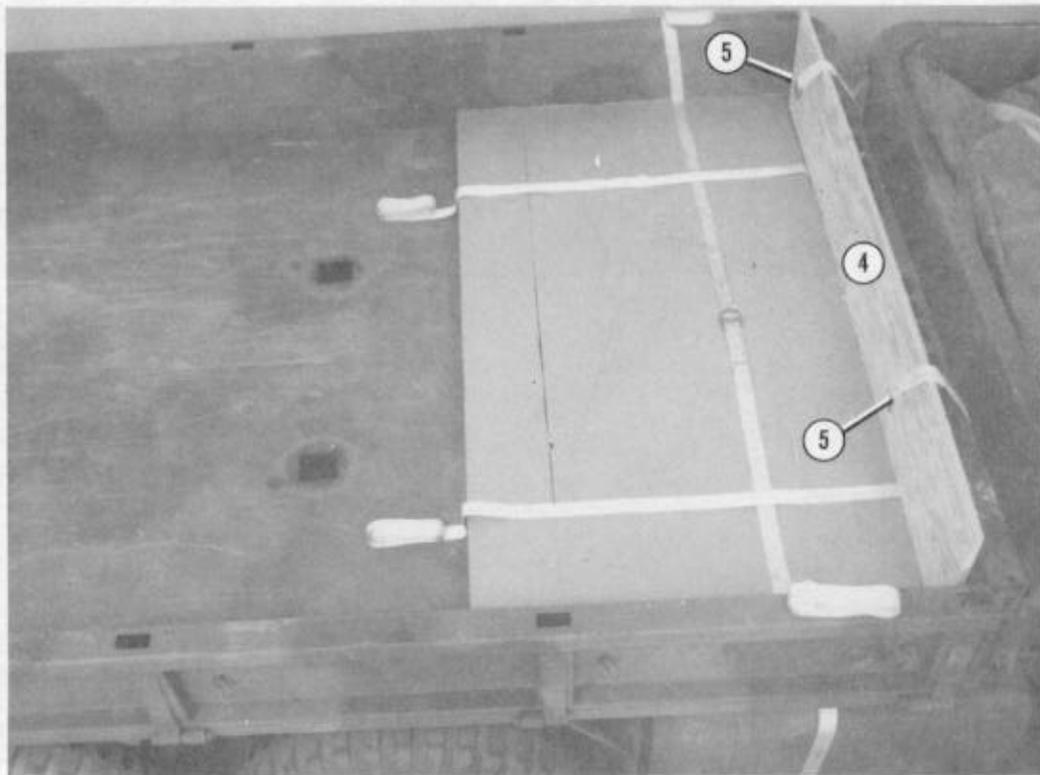
- ① Place the cab pillar posts, side roof rails, and rear curtain into the body top tarpaulin. Roll the tarpaulin closed and position it on top of the passenger seat.
- ② Place the muffler on the driver seat. Tie the flexible tube to the muffler with type III nylon cord.
- ③ Roll the rear canvas cover and place it on top of the body tarpaulin.
- ④ Secure the above mentioned items by passing a 15-foot lashing around the passenger and driver seat. Secure the ends of the lashing with a load binder and a D-ring.

Figure 8-15. Operator compartment prepared



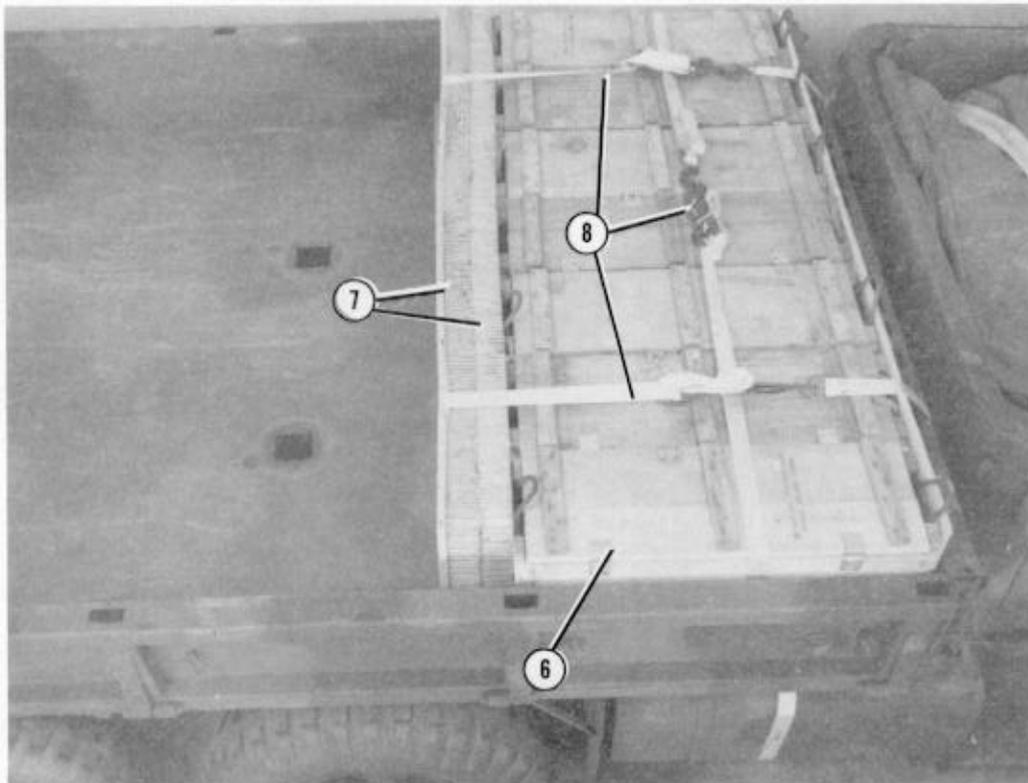
- ① Place a 96- by 36-inch and a 96- by 9-inch piece of honeycomb on the front of the cargo bed floor.
- ② Pass a 30-foot lashing across the honeycomb from side to side.
- ③ Pass a 15-foot lashing through each outer end rack support bracket and across the honeycomb from front to rear.

Figure 8-16. Accompanying load stowed



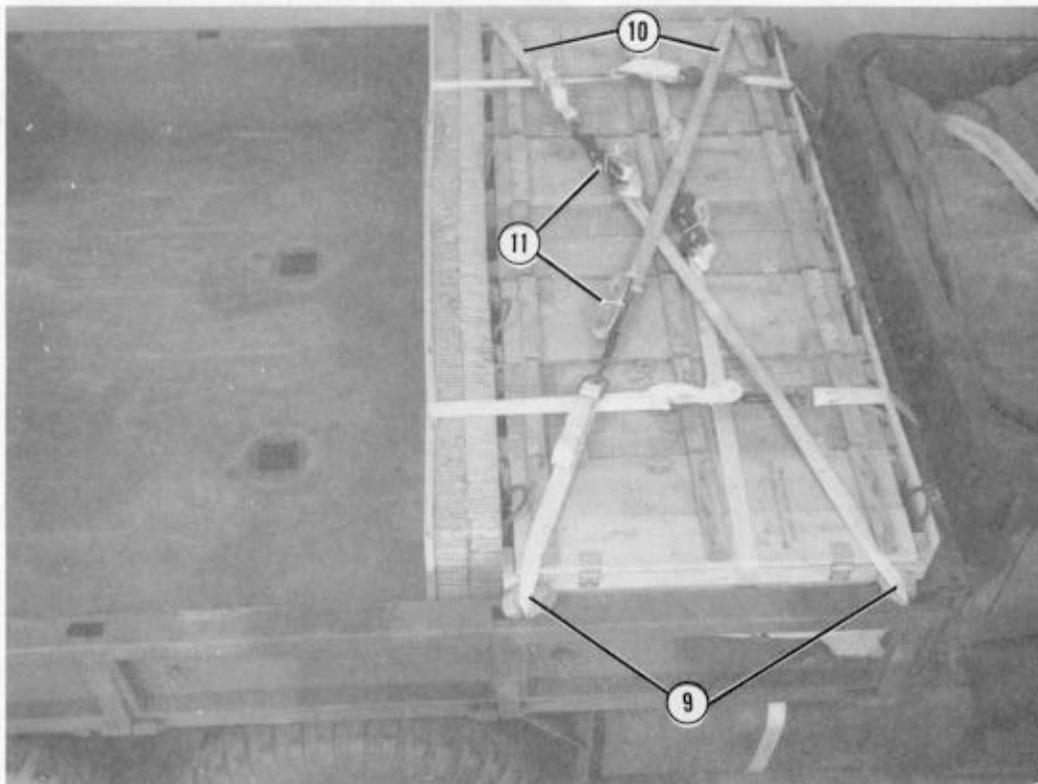
- ④ Place a 3/4- by 83- by 15-inch piece of plywood against the front of the cargo bed.
- ⑤ Place the ends of the pre-positioned lashings over the positioned plywood.

Figure 8-17. Plywood and pre-positioned lashings stowed



- ⑥ Position 14 boxes of 105-millimeter ammunition on the pre-positioned lashings.
- ⑦ Position two 83- by 15-inch pieces of honeycomb against the aft end of the ammunition boxes. Position one 3/4- by 83- by 15-inch piece of plywood against the two honeycomb pieces.
- ⑧ Pass each of the pre-positioned lashings over the top of the ammunition boxes. Secure each of the lashings with a load binder and a D-ring.

Figure 8-18. Accompanying load positioned

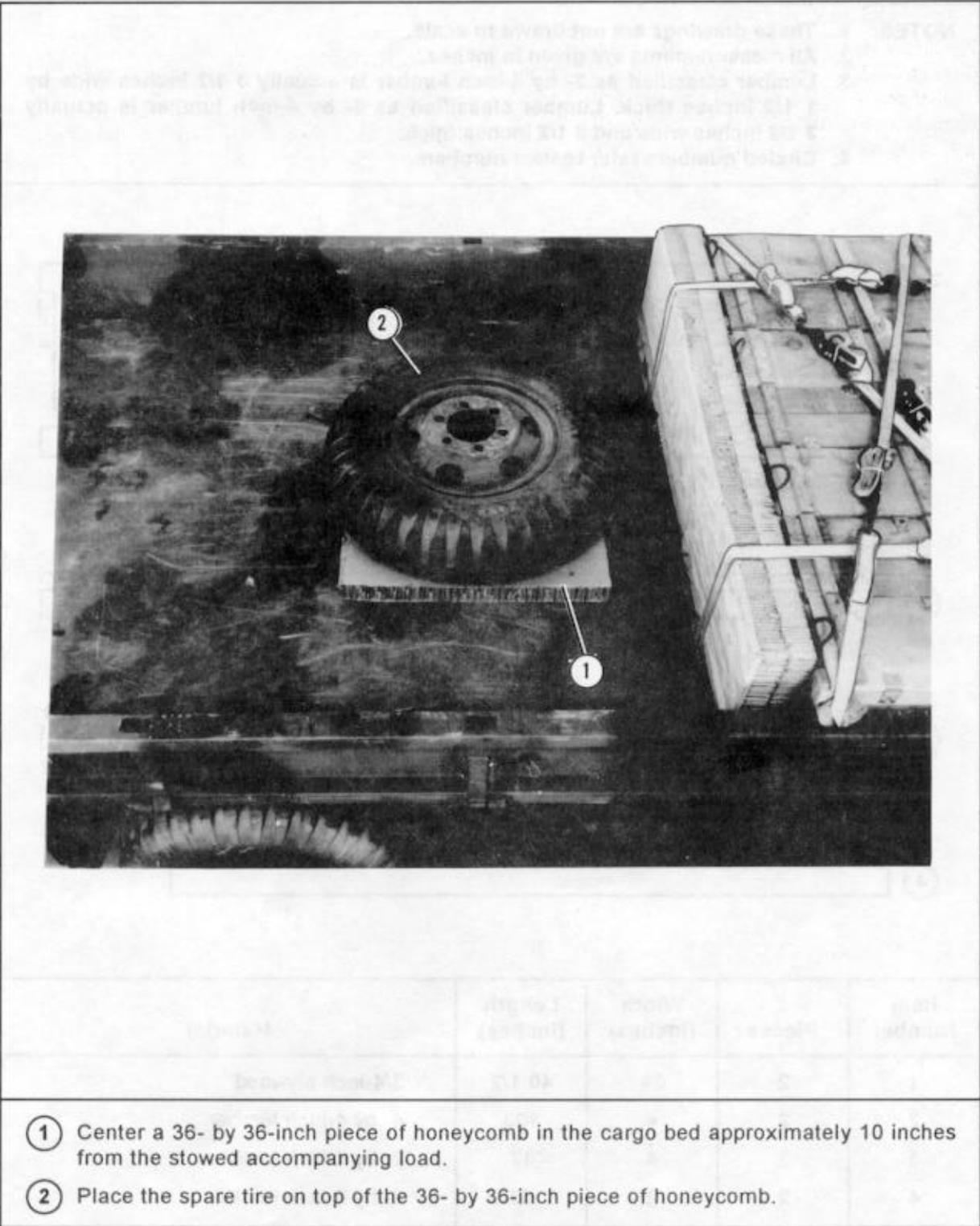


- ⑨ Form a 30-foot lashing. Center the lashing under the right front side rail of the cargo bed. Pass the free ends of the lashing up through the rack support openings on the rails, onto the top of the load.

**Note: Pad all sharp areas of the truck where lashings may make contact.**

- ⑩ Repeat procedure 1 for the left side of the truck.
- ⑪ Criss-cross the lashings over the ammunition boxes. Secure the lashings with load binders and D-rings.

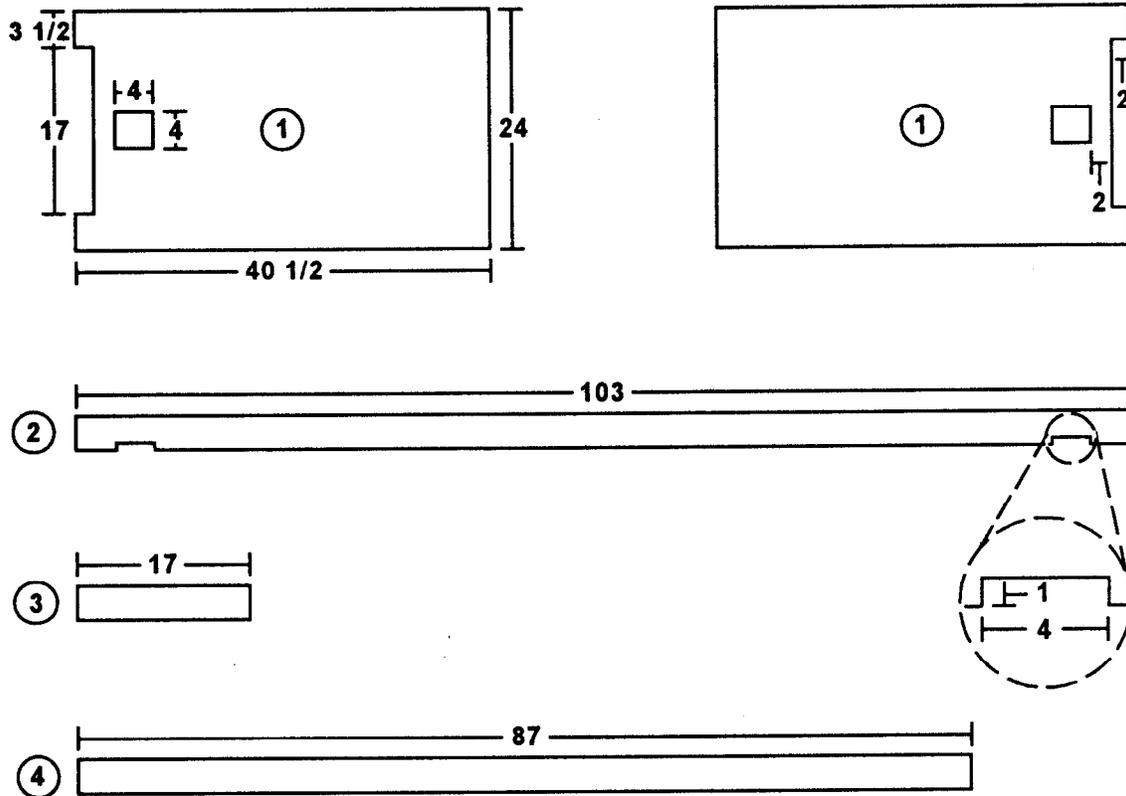
Figure 8-19. Accompanying load secured



- ① Center a 36- by 36-inch piece of honeycomb in the cargo bed approximately 10 inches from the stowed accompanying load.
- ② Place the spare tire on top of the 36- by 36-inch piece of honeycomb.

Figure 8-20. Spare tire positioned

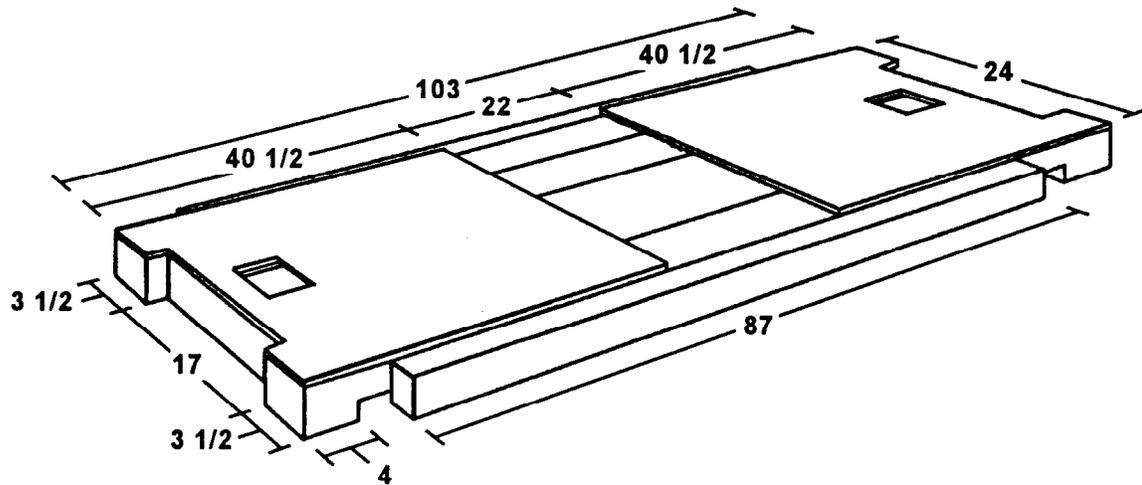
- NOTES:**
1. These drawings are not drawn to scale.
  2. All measurements are given in inches.
  3. Lumber classified as 2- by 4-inch lumber is actually 3 1/2 inches wide by 1 1/2 inches thick. Lumber classified as 4- by 4-inch lumber is actually 3 1/2 inches wide and 3 1/2 inches thick.
  4. Circled numbers refer to item numbers.



Item Number	Pieces	Width (Inches)	Length (Inches)	Material
1	2	24	40 1/2	3/4-inch plywood
2	2	4	103	4- by 4-inch lumber
3	2	4	17	2- by 4-inch lumber
4	2	2	87	2- by 4-inch lumber

Figure 8-21. Material and cutouts required for rear suspension sling spreader

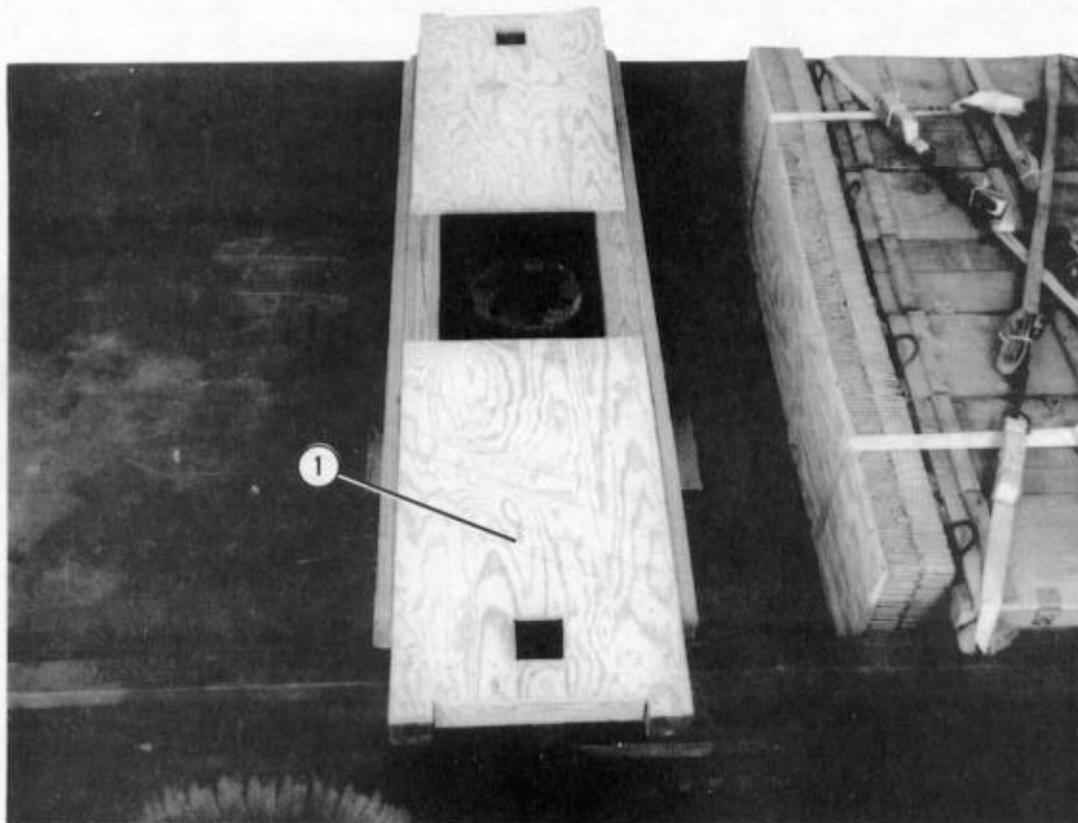
- NOTES:**
1. This drawing is not drawn to scale.
  2. All measurements are given in inches.
  3. Use 8d and 16d nails.
  4. Circled numbers refer to item numbers on the previous page.



**Step:**

1. Nail the 2- by 4-inch lumber flush to each long 4- by 4-inch piece and centered.
2. Face the long pieces assembled in step 1 with the cutouts down. Nail the plywood over these pieces with the cutouts facing the outside and the edges of the plywood flush with the edges of the 4- by 4-inch lumber.
3. Nail the 17-inch cross pieces between the long pieces two inches from each end of the sling spreader.

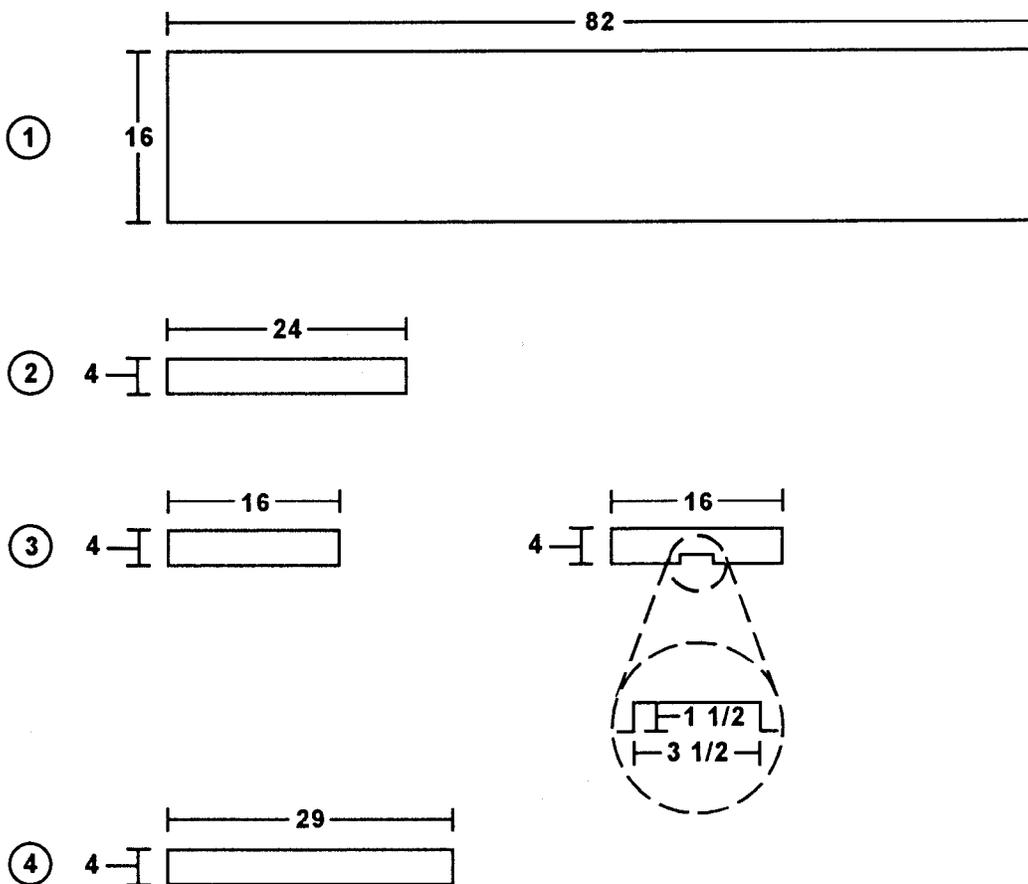
**Figure 8-22. Rear suspension sling spreader constructed**



- ① Position the rear suspension sling spreader on top of the spare tire.

Figure 8-23. Rear suspension sling spreader positioned

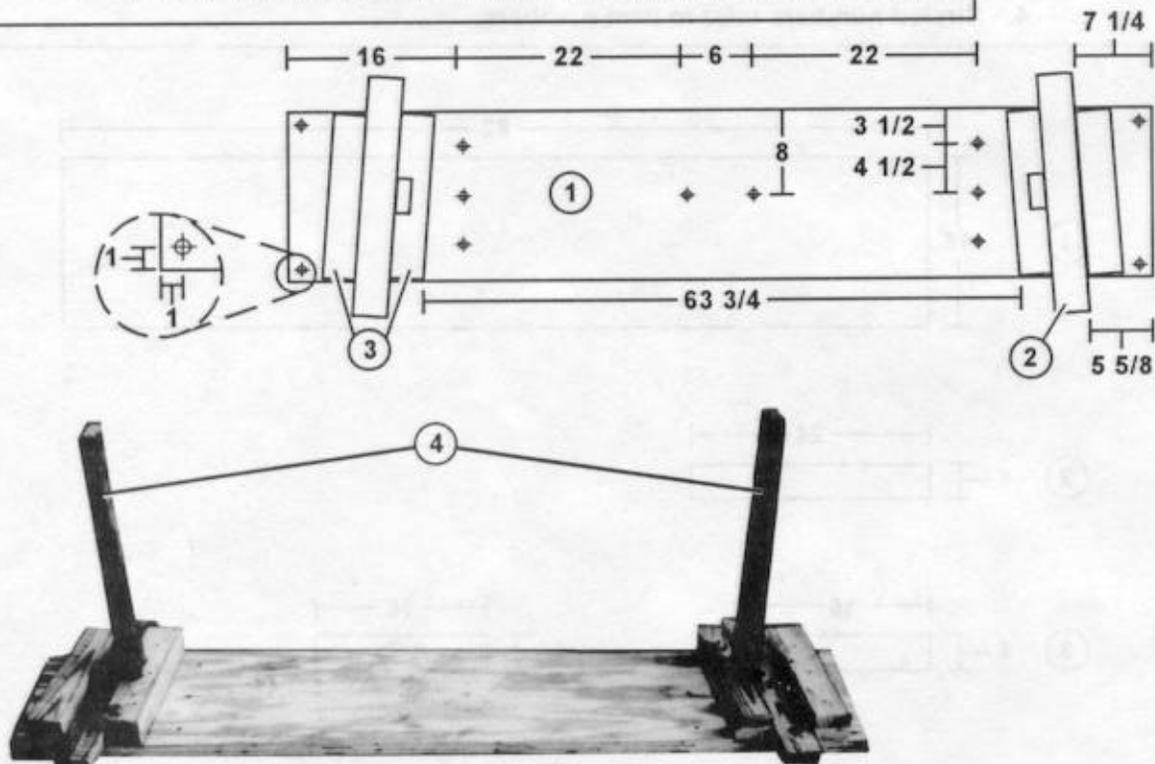
- NOTES:**
1. These drawings are not drawn to scale.
  2. All measurements are given in inches.
  3. Lumber classified as 2- by 4-inch lumber is actually 3 1/2 inches wide and 1 1/2 inches thick.
  4. Circled numbers refer to item numbers.



Item Number	Pieces	Width (Inches)	Length (Inches)	Material
1	2	16	82	3/4-inch plywood
2	2	4	24	2- by 4-inch lumber
3	8	4	16	2- by 4-inch lumber
4	2	4	29	2- by 4-inch lumber

Figure 8-23.1. Material and cutouts required for front suspension sling spreader

- NOTES: 1. These drawings are not drawn to scale.  
 2. All measurements are given in inches.  
 3. Use 8d and 12d nails.  
 4. Circled numbers refer to item numbers on the previous page.



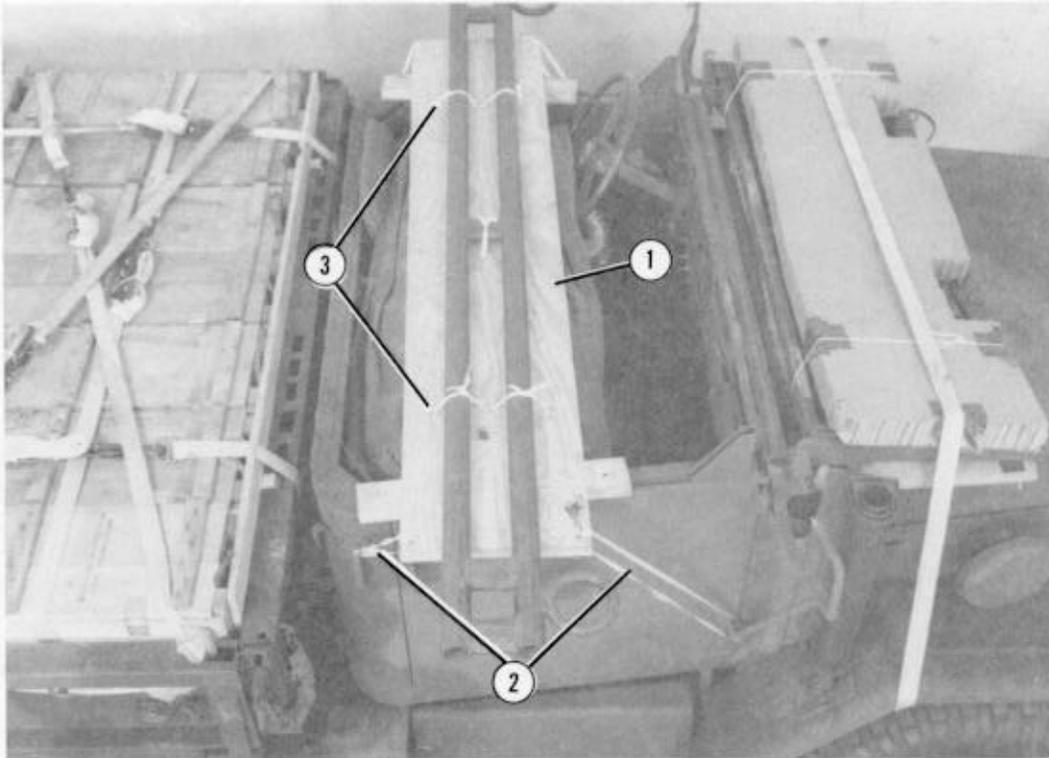
**STEP:**

1. Nail two pieces of 3/4- by 16- by 82-inch plywood flush together.
2. Nail a 2- by 4- by 24-inch piece of lumber centered across each side of the base and angled as shown.

**NOTE:** The lumber will rest on the cab doors. Proper spacing can be verified by placing the base and lumber over the cab.

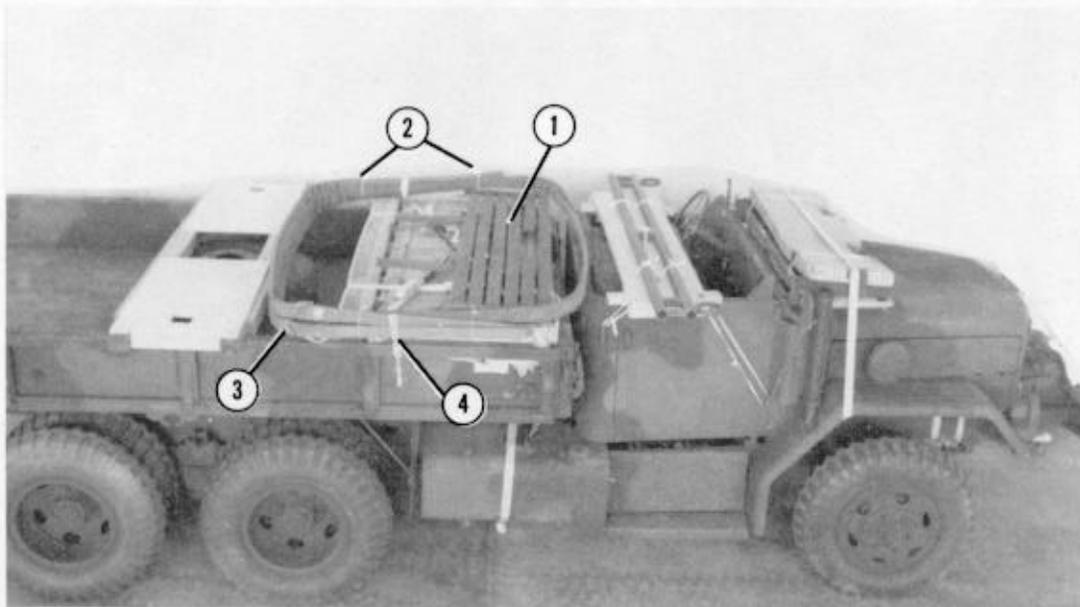
3. Drill 1/2-inch holes spaced as shown. Holes are measured on center.
4. Nail two 2- by 4- by 16-inch pieces of lumber flush to the outside of the lumber pieces placed in step 2, Figure 8-23.1.
5. Nail two 2- by 4- by 16-inch pieces to the right inside of the lumber placed in step 2 with the cutouts flush together and facing to the outside. Repeat this procedure for the left side.
6. Place a 2- by 4- by 29-inch piece of lumber upright in each of the cutouts, and nail it in place.

Figure 8-23.2. Front suspension sling spreader constructed



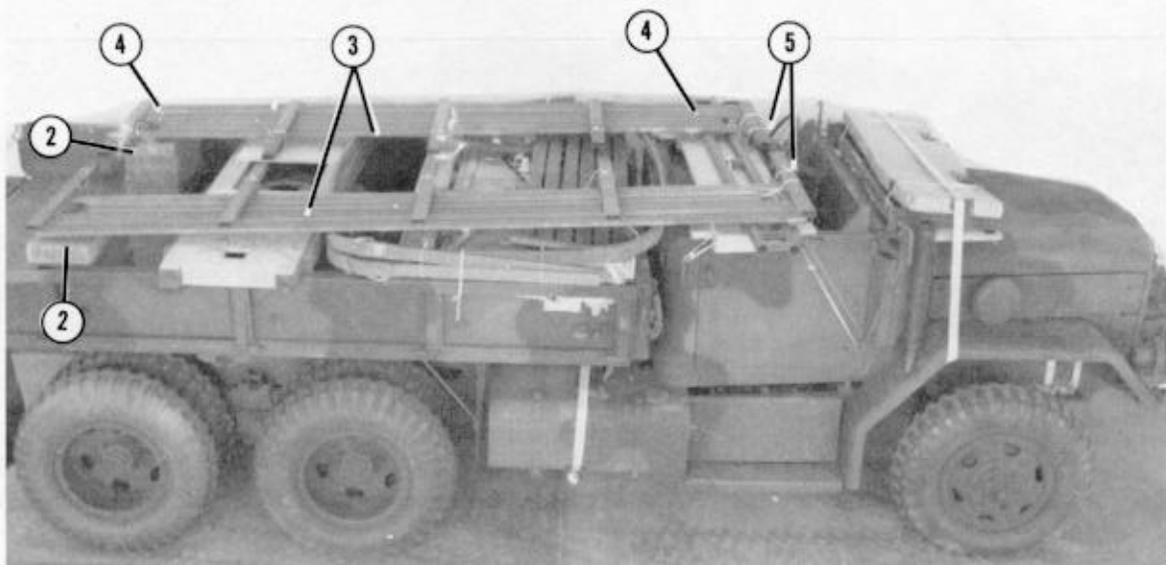
- ① Position the front suspension sling spreader on the operator compartment of the truck.
- ② Safety tie the front suspension sling spreader in place with four pieces of 1/2-inch tubular nylon webbing.
- ③ Position an ACB on top of the front suspension sling spreader with the ring toward the front of the truck. Secure the ACB in place with four pieces of 1/2-inch tubular nylon webbing.

**Figure 8-23.3. Front suspension sling spreader positioned and secured**



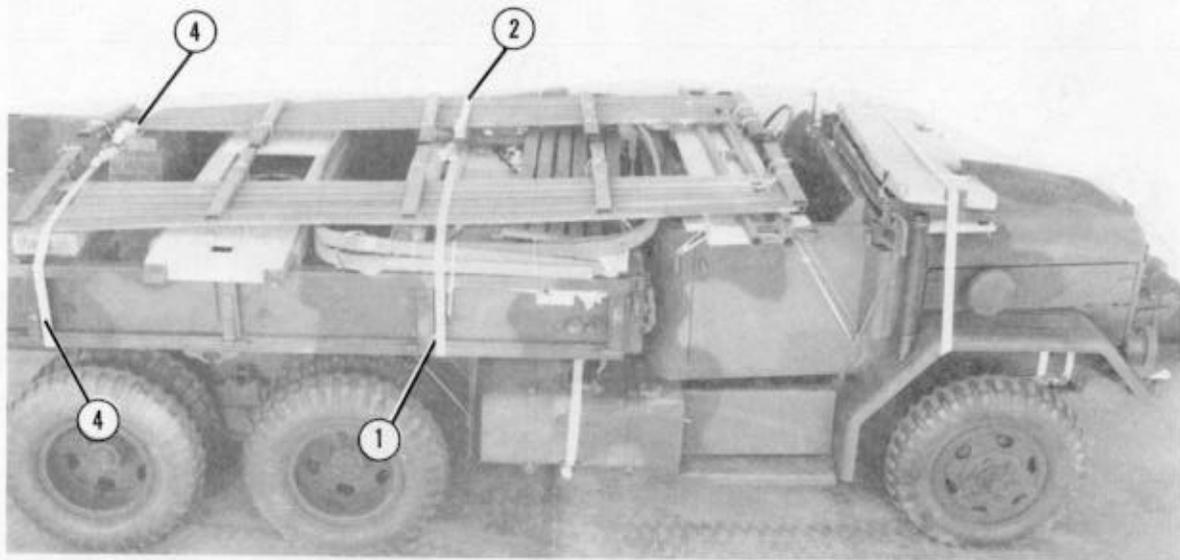
- ① Position the front end rack on top of the ammunition boxes.
- ② Place the top bows together and tie them with type III nylon cord.
- ③ Position the tied bows on top of the accompanying load.
- ④ Secure the top bows and front end rack to convenient points with type III nylon cord.

Figure 8-23.4. Top bows and front end rack positioned and secured



- ① Build two honeycomb stacks. Each stack will have six 24- by 12-inch pieces of honeycomb (not shown).
- ② Place one stack on each side of the cargo bed 33 inches from the tailgate.
- ③ Tie each set of side racks, with seat backs, together using type III nylon cord.
- ④ Position the side racks on top of the cargo bed. Make sure the front end of the racks rest on the front suspension sling spreader.
- ⑤ Tie the racks to the ACB with type III nylon cord.

Figure 8-23.5. Side racks positioned



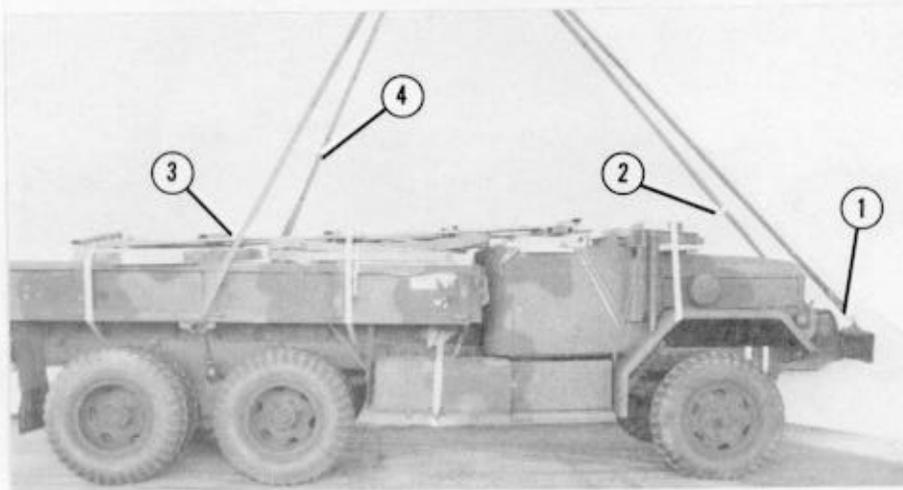
- ① Pass a 15-foot lashing through the second tie-down provision on the right side of the truck (not shown), through its own D-ring, then over the top of the side racks.
- ② Repeat step 1 for the left side of the truck. Secure the lashings together according to FM 10-500-2/TO 13C7-1-5.
- ③ Pass a 15-foot lashing through the third tie-down provision on the right side of the truck (not shown), through its own D-ring, then over the top of the side racks.
- ④ Repeat step 3 for the left side of the truck. Secure the lashings according to FM 10-500-2/TO 13C7-1-5.

Figure 8-23.6. Side racks secured

### 8-5. Installing Lifting Slings

Install the lifting slings as shown in Figure 8-23.7.

**Note:** If there is no bumper extension or wench, attach a 3-foot (2-loop) sling around the bumper on each side. Attach a large clevis to each 3-foot sling for lifting slings provisions. Safety the sling to the shackle to ensure that the slings do not slide off the bumper.



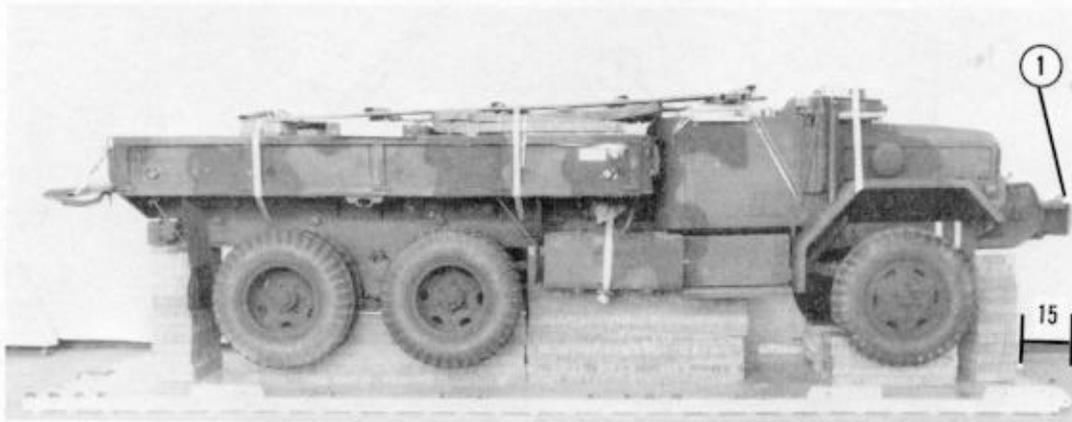
- ① Pass a large clevis through the end of a 16-foot (4-loop), type XXVI nylon webbing sling. Bolt the large clevis to the right front lifting shackle bracket.
- ② Repeat step 1 for the left front lifting shackle bracket.
- ③ Pass a large clevis through the end of a 16-foot (4-loop), type XXVI nylon webbing sling. Bolt the large clevis to the right rear spring lifting provision.
- ④ Repeat step 3 for the left rear spring lifting provision.

Figure 8-23.7. Lifting slings installed

### 8-6. Positioning Truck on Platform

Position the truck on the platform as shown in Figure 8-23.8.

Note: Dimension is in inches.



① Position the truck with the front edge over-hanging the front of the platform 15 inches.

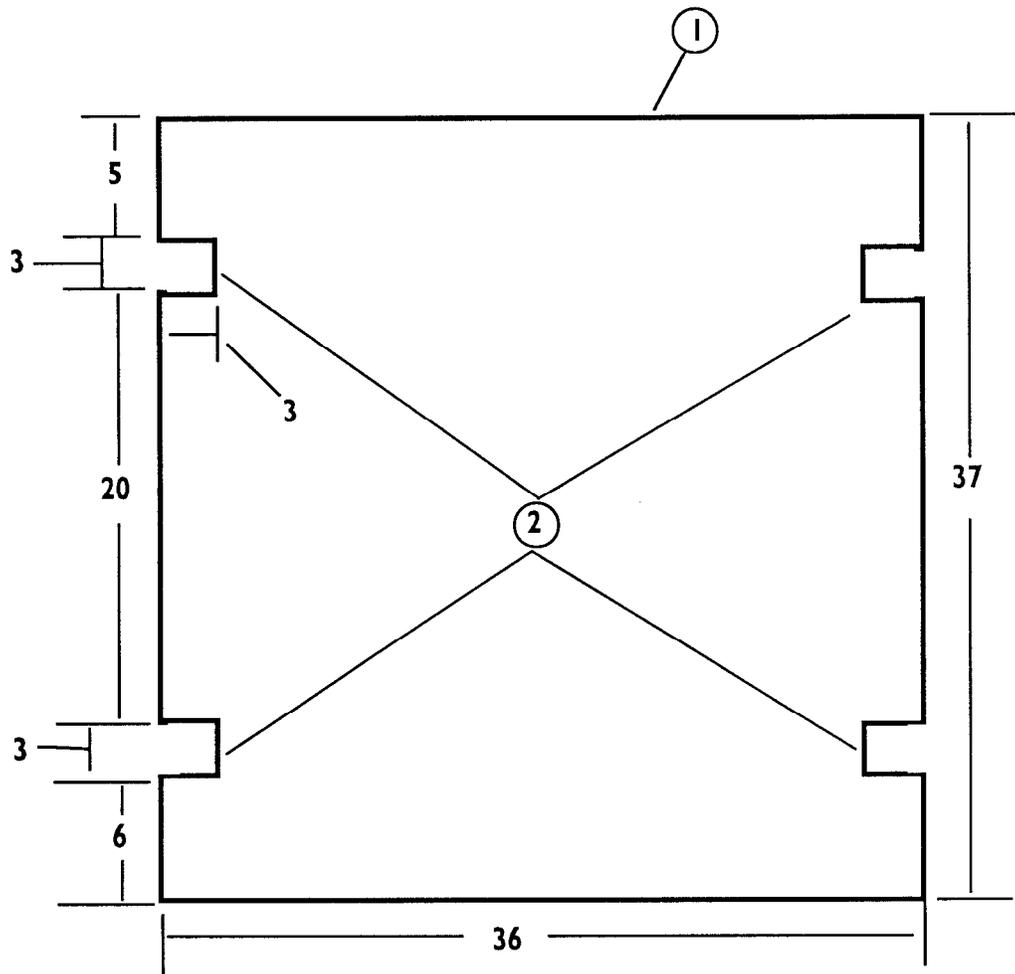
- Notes: 1. The front axle will rest on honeycomb stacks 2 and 3.  
2. The rear truck frame will rest on honeycomb stack 8.

Figure 8-23.8. Truck positioned

### 8-7. Building and Positioning Honeycomb Stack Support

Build and position the honeycomb stack support as shown in Figure 8-23.9.

Note: Dimensions are in inches.



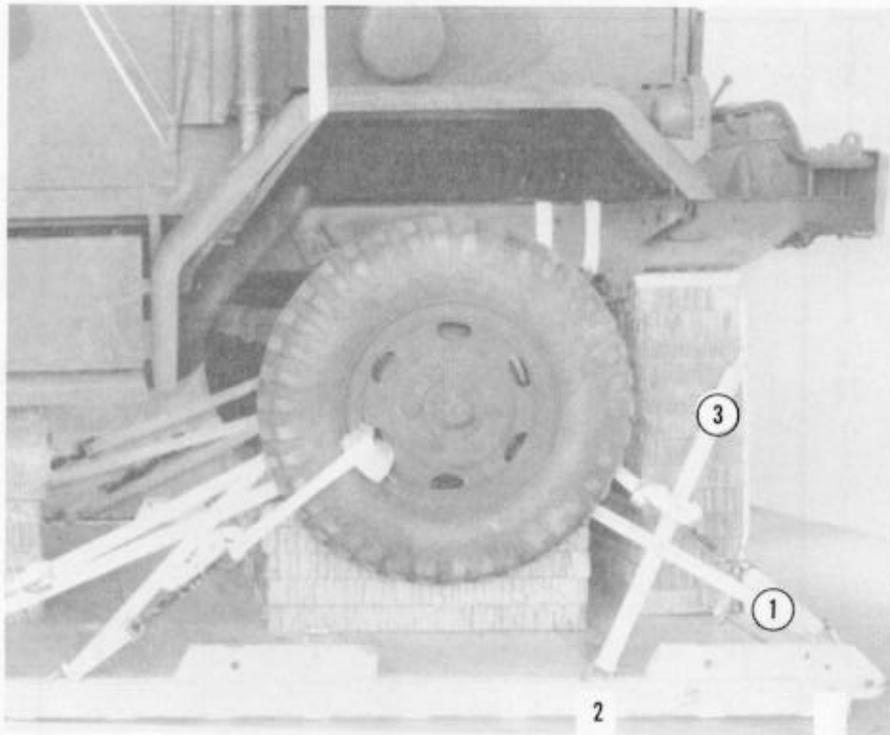
- ① Use a 3/4- by 36- by 37-inch piece of plywood for the honeycomb stack support.
- ② Make four 3- by 3-inch cutouts in the plywood as shown.
- ③ Position the honeycomb support against the front of honeycomb stack 1 (not shown).

Figure 8-23.9. Honeycomb support built and positioned

### 8-8. Lashing Truck

Lash the truck to the platform using thirty-six 15-foot tie-down assemblies as shown in Figures 8-23.10 through 8-23.15. Secure the tie-down assemblies according to FM 10-500-2/TO 13C7-1-5.

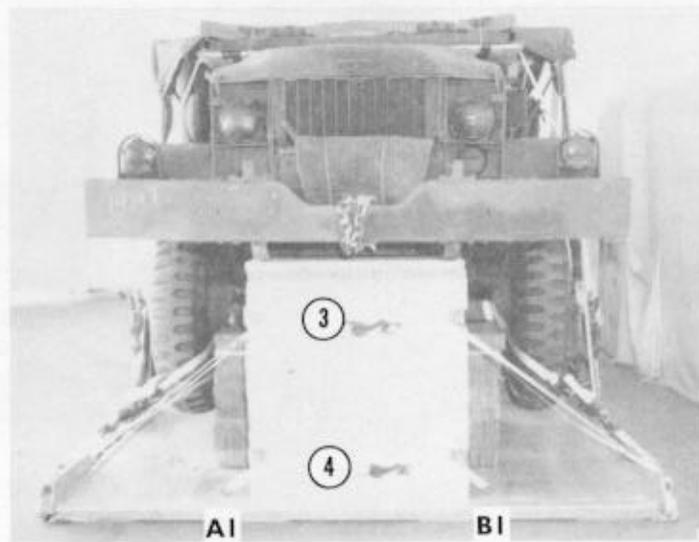
**Note:** Pad all sharp areas of the truck where lashings may make contact.



Lashing Number	Tie-Down Clevis Number	Instructions
1	1	Pass lashing: Around the right axle, inside the U-bolt. Around the left axle, inside the U-bolt. Through clevis 2, through top cutouts of the honeycomb support, through clevis 2A, back to front of honeycomb support.
2	1A	
3*	2 and 2A	

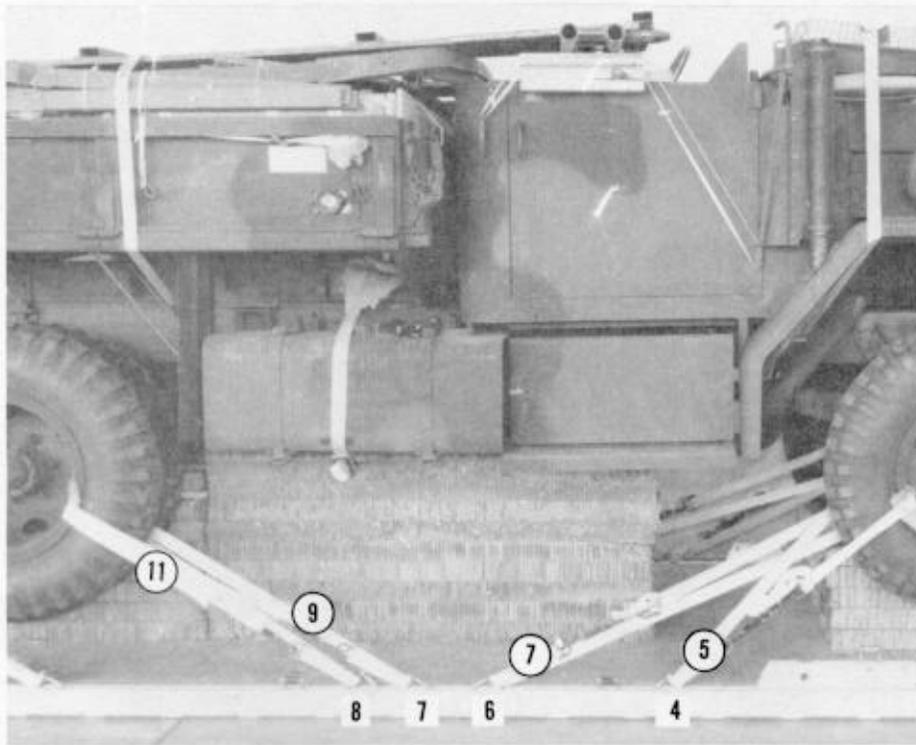
\*30-foot lashings

Figure 8-23.10. Lashings 1 through 3 installed



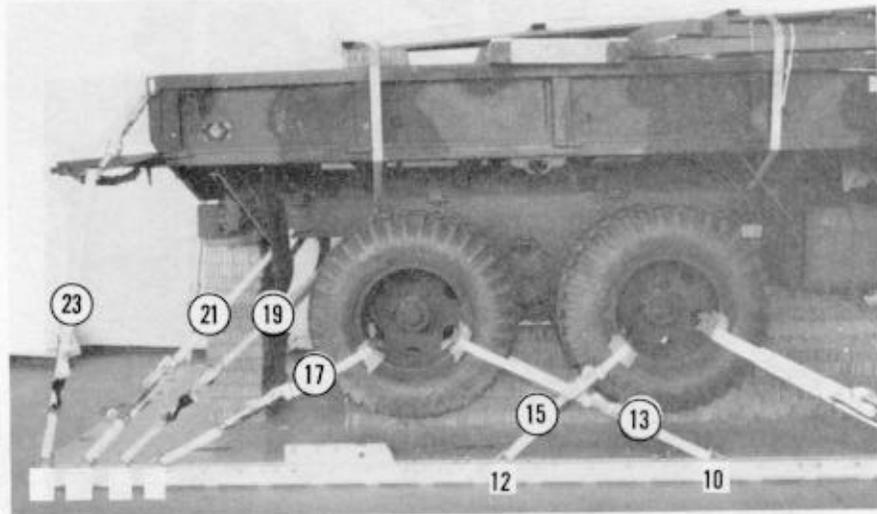
Lashing Number	Tie-Down Clevis Number	Instructions
4		Pass lashing: Through tie-down ring B-1, through bottom cutouts of honeycomb support, through tie-down ring A-1, to front of honeycomb support.

Figure 8-23.11. Lashing 4 installed



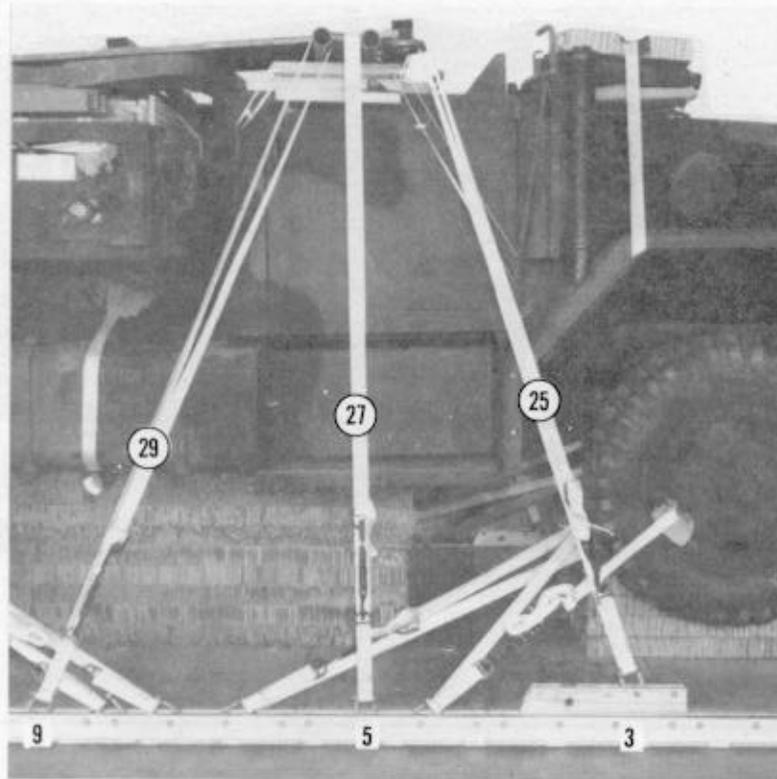
Lashing Number	Tie-Down Clevis Number	Instructions
5	4	Pass lashing: Through right front wheel.
6	4A	Through left front wheel.
7	6	Around right front axle, under the brake line.
8	6A	Around left front axle, under the brake line.
9	7	Through right outside center wheel.
10	7A	Through left outside center wheel.
11	8	Through right outside center wheel.
12	8A	Through left outside center wheel.

Figure 8-23.12. Lashings 5 through 12 installed



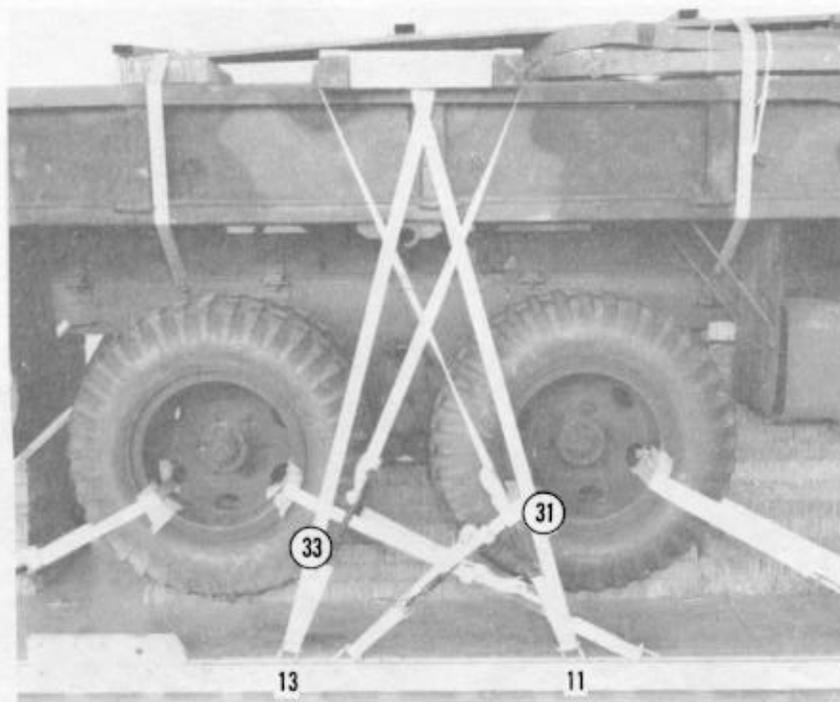
Lashing Number	Tie-Down Clevis Number	Instructions
13	10	Pass lashing: Through the right outside rear wheel.
14	10A	Through the left outside rear wheel.
15	12	Through the right outside center wheel.
16	12A	Through the left outside center wheel.
17	14	Through the right outside rear wheel.
18	14A	Through the left outside rear wheel.
19	15	Through third tie-down provision, right side.
20	15A	Through third tie-down provision, left side.
21	16	Through rear tie-down provision, right side.
22	16A	Through rear tie-down provision, left side.
23	17	Through tailgate hole, right side.
24	17A	Through tailgate hole, left side.

Figure 8-23.13. Lashings 13 through 24 installed



Lashing Number	Tie-Down Clevis Number	Instructions
25	3	Pass lashing: Through the right ring of the ACB.
26	3A	Through the left ring of the ACB.
27	5	Through the right end of the ACB.
28	5A	Through the left end of the ACB.
29	9	Around the top bar of the ACB, right side.
30	9A	Around the top bar of the ACB, left side.

Figure 8-23.14. Lashings 25 through 30 installed

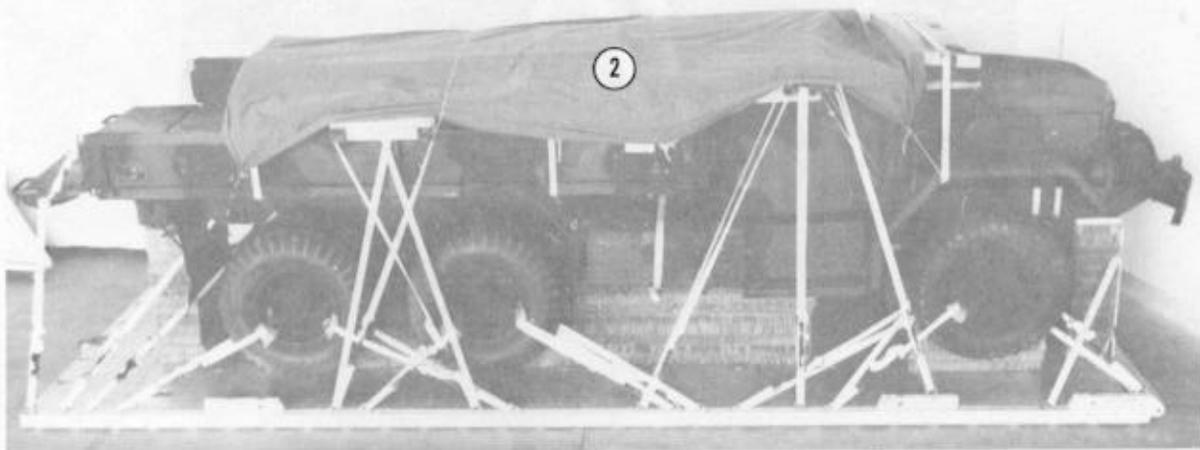


Lashing Number	Tie-Down Clevis Number	Instructions
31	11	Pass lashing: Through center opening, around the rear of the rear suspension sling spreader, right side.
32	11A	Through center opening, and the rear of the rear suspension sling spreader, left side.
33	13	Through center opening, around the front of the rear suspension sling spreader, right side.
34	13A	Through center opening, around the front of the rear suspension sling spreader, left side.

Figure 8-23.15. Lashings 31 through 34 installed

### 8-9. Installing Load Cover

Install the load cover as shown in Figure 8-23.16.

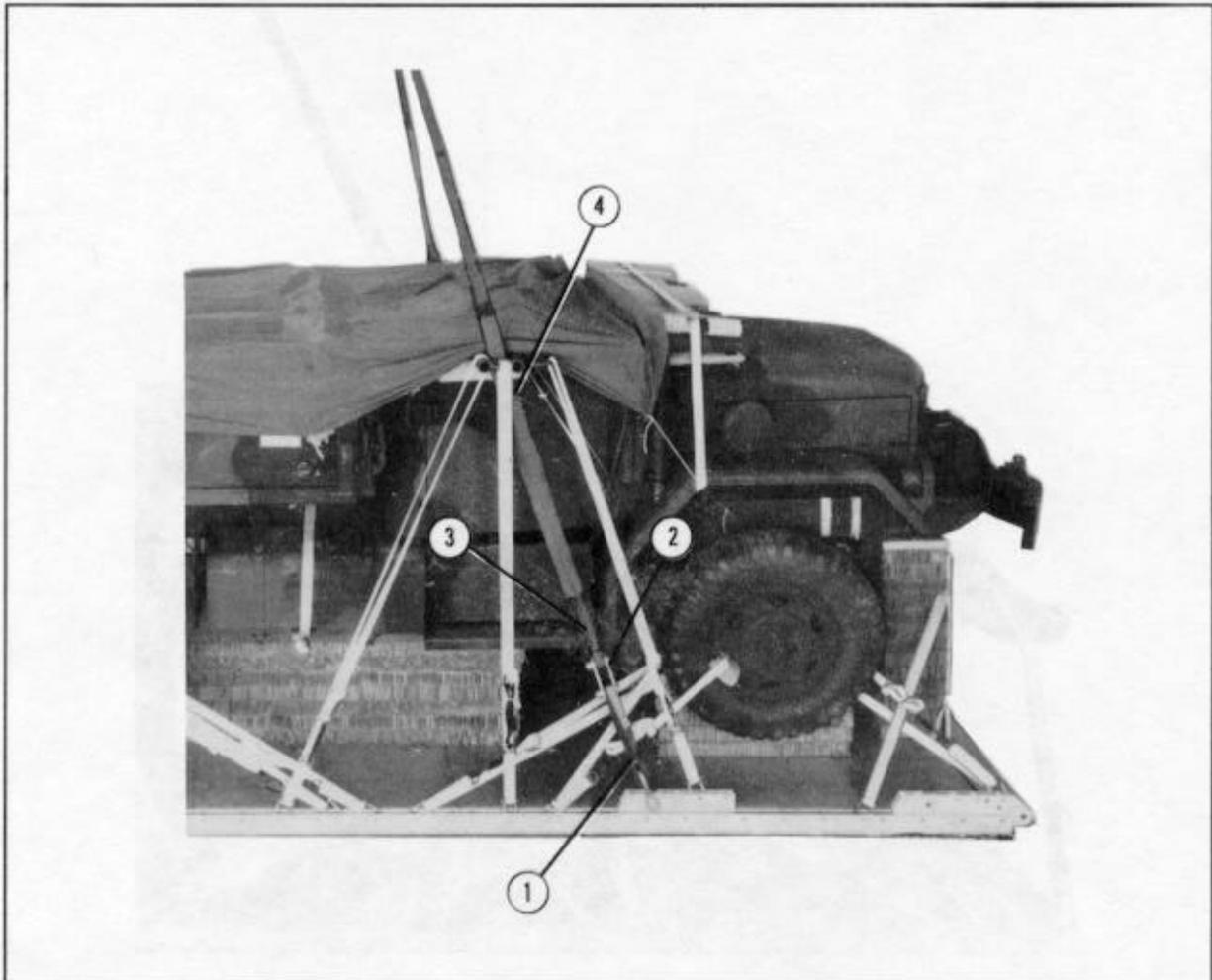


- ① Position a 36- by 96-inch piece of honeycomb on top of the load to the rear of the side racks. Secure the honeycomb in place with two lengths of type III nylon cord (not shown).
- ② Position a 10- by 15-foot cotton duck load cover on top of the truck. Make sure the operator compartment and accompanying load is covered by the load cover. Secure the load cover to the truck with type III nylon cord.

Figure 8-23.16. Load cover installed

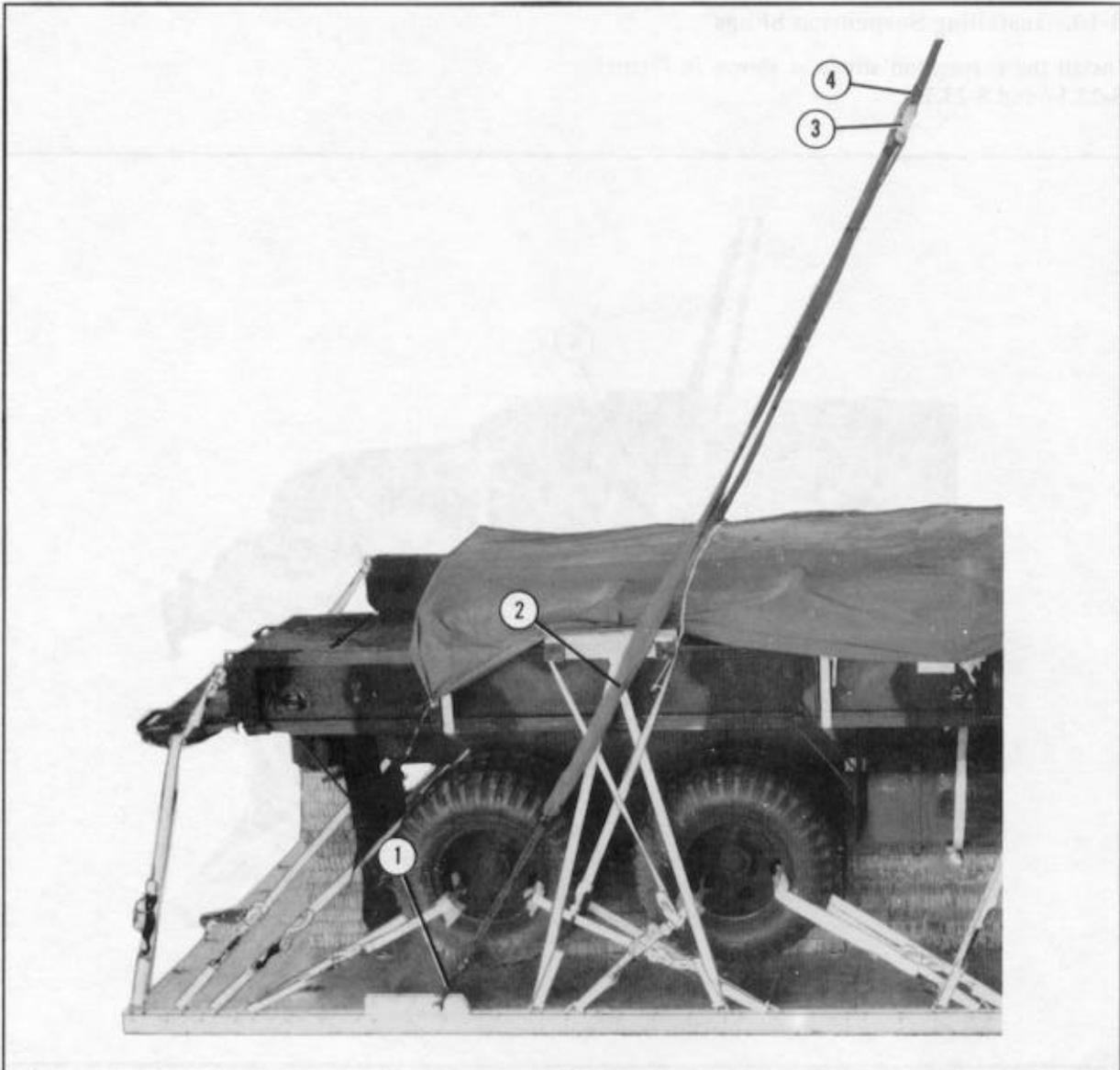
### 8-10. Installing Suspension Slings

Install the suspension slings as shown in Figures 8-23.17 and 8-23.18.



- ① Pass a large suspension clevis through both ends of a 3-foot (4-loop), type XXVI nylon webbing sling. Bolt the clevis to the right front suspension link. Repeat for the left side.
- ② Attach a 5 1/2-inch two-point link to the looped portion of each 3-foot (4-loop) sling.
- ③ Make four suspension sling sleeves with cotton duck cloth. Slide a sleeve onto each of two 16-foot (2-loop) type XXVI nylon webbing slings approximately 10 inches from the end of the sling. Tape the ends of the sleeves in place. Attach the sleeve end of each 16-foot sling to the free end of the 5 1/2-inch two-point link.
- ④ Pass each suspension sling through the square opening of the ACB, and up to the crane hook.

Figure 8-23.17. Front suspension slings installed

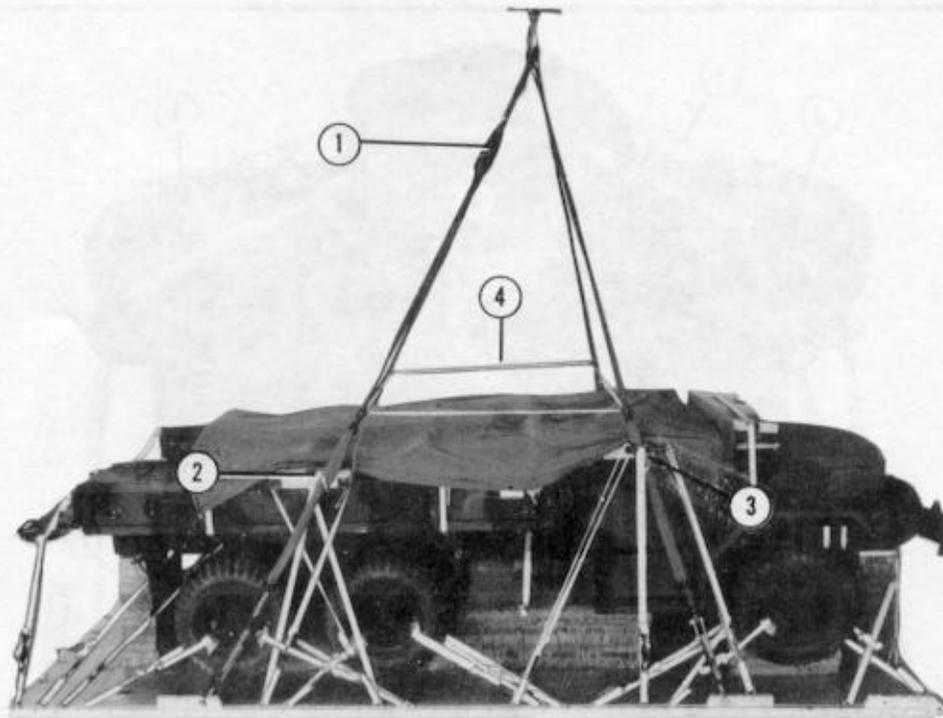


- ① Pass a large suspension clevis through the end of a 16-foot (4-loop), type XXVI nylon webbing sling. Bolt the large clevis to the right rear suspension link. Repeat for the left side.
- ② Slide a suspension sling sleeve over each sling to approximately 36 inches from the large clevis. Tape the ends of the sleeves in place.
- ③ Attach a 5 1/2-inch two-point link to the free end of each suspension sling.
- ④ Attach a 3-foot (4-loop), type XXVI nylon webbing sling to the other end of each 5 1/2-inch two-point link.

Figure 8-23.18. Rear suspension slings installed

### 8-11. Safetying Suspension Slings

Safety the suspension slings as shown in Figure 8-23.19.



- ① Pad and tape the two-point link assembly on each rear suspension sling.
- ② Pull the slack from the rear suspension slings and secure them to the rear suspension sling spreader with 1/2-inch tubular nylon webbing.
- ③ Pull the slack from the front suspension slings and secure them to the ACB with 1/2-inch tubular nylon webbing.
- ④ Install the deadman's tie according to FM 10-500-2/TO 13C7-1-5.

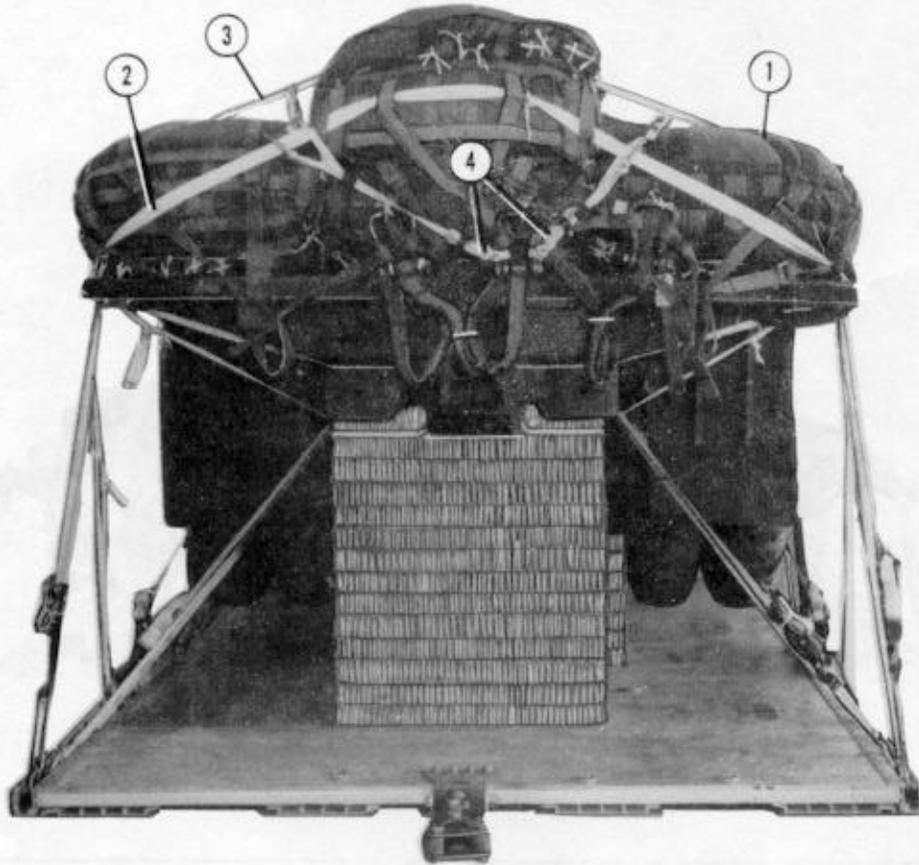
Figure 8-23.19. Suspension slings safetied

### 8-12. Stowing and Securing Cargo Parachutes

Prepare, stow, and secure four G-11B cargo parachutes as shown in Figure 8-23.20.

#### NOTICE OF EXCEPTION

The procedures in this figure are different from those in FM 10-500-2/TO 13C7-1-5. **Parachutes are stacked in this way to keep the parachutes from shifting.**

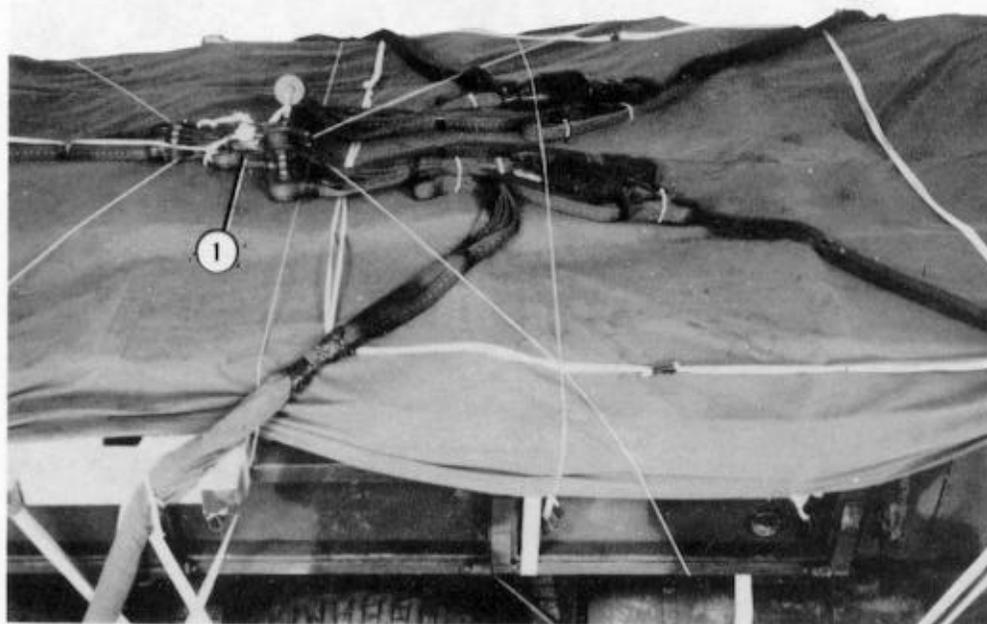


- ① Cluster four G-11B cargo parachutes as shown above.
- ② Install the first restraint strap to the bumperettes of the truck.
- ③ Install the second parachute restraint strap to clevises 17 and 17A.
- ④ Install two parachute release straps to the parachute restraint straps according to FM 10-500-2/TO 13C7-1-5.

Figure 8-23.20. Parachutes stowed and secured

### 8-13. Installing Parachute Release

Prepare, install, and safety an M-2 cargo parachute release according to FM 500-2/TO 13C7-1-5 and as shown in Figure 8-23.21.

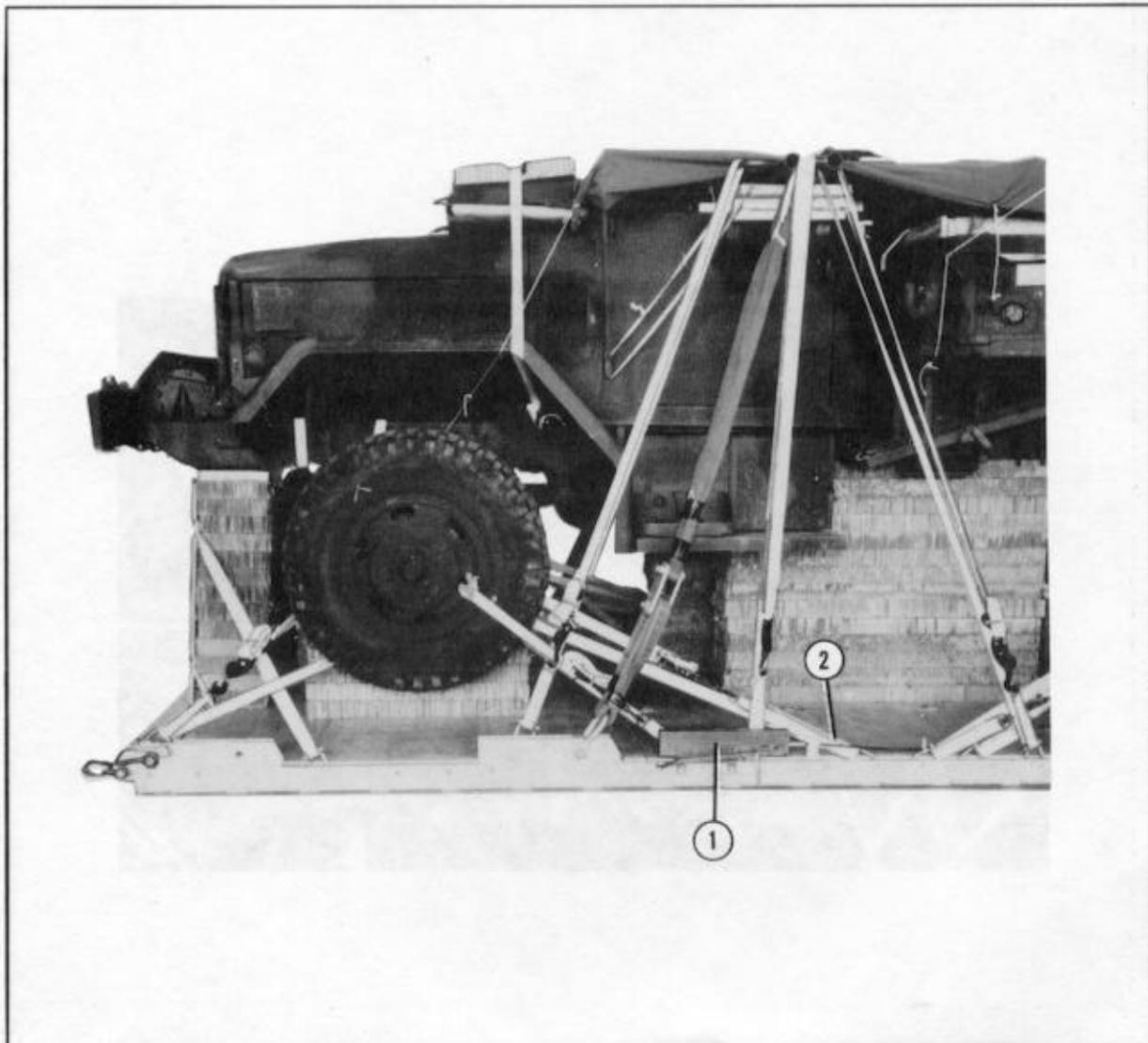


- ① Place the M-2 release on top of the load. Prepare and safety the M-2 release according to FM 10-500-2/TO 13C7-1-5.

Figure 8-23.21. Release system installed

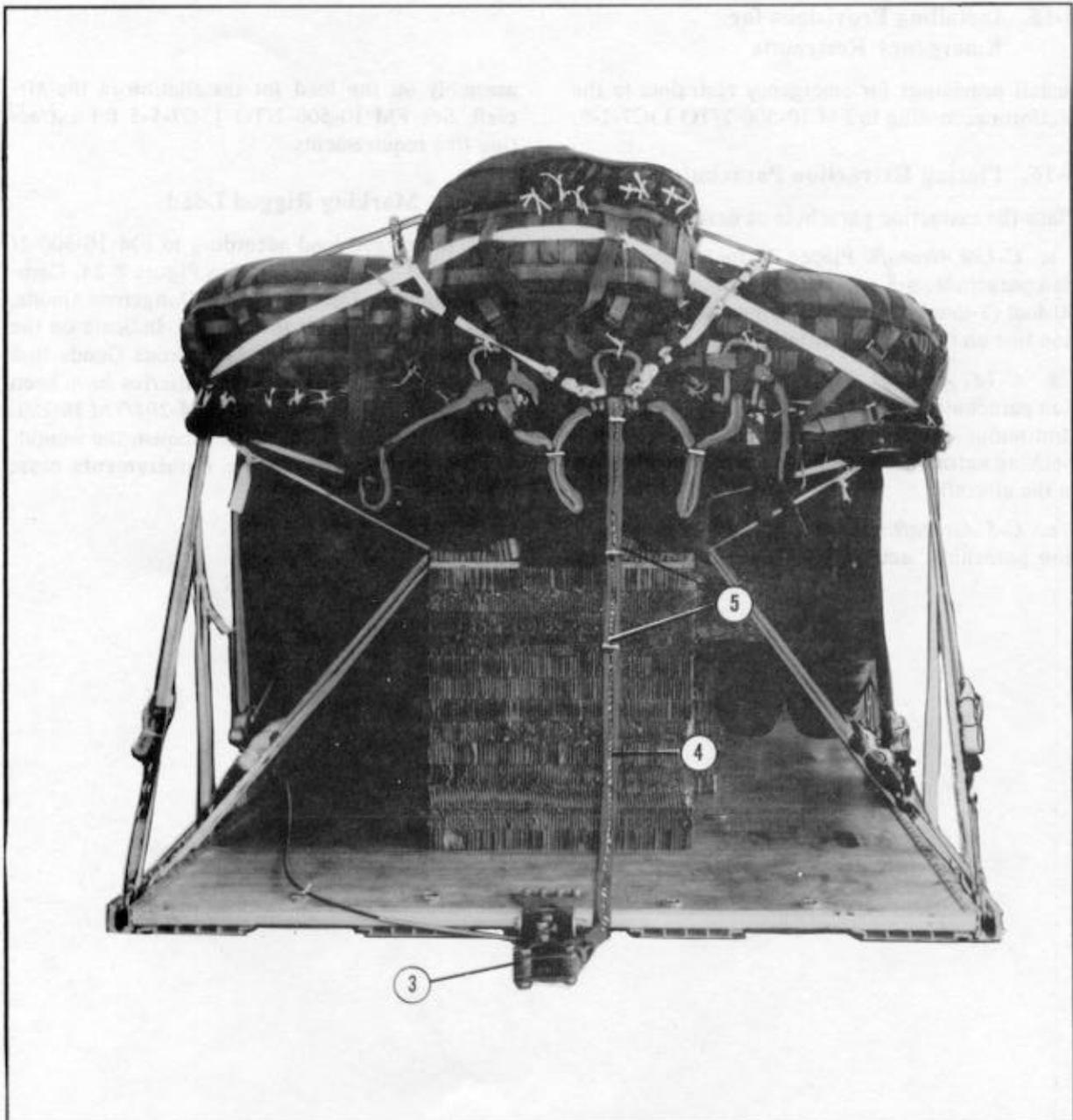
#### 8-14. Preparing and Installing Extraction System

Prepare and install the EFTC extraction system according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 8-23.22.



- ① Install the EFTA mounting brackets to the rear mounting holes in the left platform rail. Install the actuator to the EFTA brackets according to FM 10-500-2/TO 13C7-1-5.
- ② Attach a 24-foot cable to the actuator. Safety tie it to each clevis on the inside of the platform with type I, 1/4-inch cotton webbing.

Figure 8-23.22. Extraction system installed



- ③ Install the latch assembly to the extraction bracket according to FM 10-500-2/TO 13C7-1-5, and attach the cable.
- ④ Attach a 9-foot (2-loop), type XXVI nylon webbing sling as a deployment line to the load.
- ⑤ Fold the excess deployment line. Secure the folds in place with type I, 1/4-inch cotton webbing.

Figure 8-23.22. Extraction system installed (continued)

### 8-15. Installing Provisions for Emergency Restraints

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

### 8-16. Placing Extraction Parachute

Place the extraction parachute as described below.

*a. C-130 Aircraft.* Place a 28-foot cargo extraction parachute, a 5 1/2-inch, two-point link and a 60-foot (3-loop), type XXVI nylon webbing extraction line on the load for installation in the aircraft.

*b. C-141 Aircraft.* Place a 28-foot cargo extraction parachute, a 5 1/2-inch, two-point link, and a continuous 140-foot (3-loop), type XXVI nylon webbing extraction line on the load for installation in the aircraft.

*c. C-5 Aircraft.* Place a 28-foot cargo extraction parachute, and a 5 1/2-inch, two-point link

assembly on the load for installation in the aircraft. See FM 10-500-2/TO 13C7-1-5 for extraction line requirements.

#### 8-16.1. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 8-24. Complete Shipper's Declaration for Dangerous Goods, and securely attach it to the load. Indicate on the Shipper's Declaration for Dangerous Goods that the vehicle fuel tank and the batteries have been prepared according to AFJMAN 24-204/TM 38-250. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

**CAUTION**

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



CB

**RIGGED LOAD DATA**

Weight: Load shown .....	19,340 pounds
Maximum load allowed .....	21,000 pounds
Height .....	95 inches
Width .....	108 inches
Length .....	288 inches
Overhang: Rear .....	0 inches
Front .....	15 inches
CB (from front edge of platform) .....	130 inches
Extraction System (adds 18 inches to length of platform) .....	EFTC

Figure 8-24. M35 series trucks rigged on a type V platform for low-velocity airdrop

**8-16.2. Equipment Required**

Use the equipment listed in Table 8-2 to rig this load.

**Table 8-2. Equipment required for rigging M35 series, 2 1/2-ton cargo trucks on a type V platform for low-velocity airdrop**

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
1670-00-003-4389	Bar, attitude control	1
4030-00-090-5354	Clevis, suspension, 1-in (large)	11
8305-00-242-3593	Cloth, cotton duck, 60-in	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5782	Coupling, airdrop, extraction force transfer, w 24-ft cable	1
1670-00-360-0329	Cover, link assembly (type IV)	8
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
8305-00-958-3685	Felt, 1/2- inch thick	As required
1670-01-183-2678	Leaf, extraction line (line bag)	2
	Link assembly:	
	Two-point, 5 1/2-in	5
5306-00-435-8994	Bolt, 1-in diam, 4-in long	(10)
5310-00-232-5165	Nut, 1-in, hexagonal	(10)
1670-00-003-1954	Plate, side, 5 1/2-in	(10)
5365-00-007-3414	Spacer, large	(10)
1670-00-783-5988	Type IV	8
	Lumber:	
5510-00-220-6146	2- by 4- by:	
	16-in	8
	24-in	2

**Table 8-2. Equipment required for rigging M35 series, 2 1/2-ton cargo trucks on a type V platform for low-velocity airdrop (continued)**

National Stock Number	Item	Quantity
5510-00-220-6274	29 1/4-in	2
	87-in	2
	4- by 4- by:	
	17-in	2
	103-in	2
	Nail, steel wire, common:	
5315-00-010-4659	8d	As required
5315-00-010-4662	12d	As required
5315-00-010-4663	16d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb:	
	3- by 36- by 96-in:	23 sheets
	9- by 12-in	(4)
	9- by 84-in	(2)
	12- by 12-in	(2)
	12- by 15-in	(4)
	12- by 42-in	(4)
	12- by 54-in	(20)
	18- by 26-in	(6)
	18- by 27-in	(3)
	18- by 36-in	(10)
	18- by 84-in	(21)
	24- by 12-in	(12)
	36- by 12-in	(28)
	36- by 36-in	(1)
65- by 19-in	(1)	
83- by 15-in	(2)	

**Table 8-2. Equipment required for rigging M35 series, 2 1/2-ton cargo trucks on a type V platform for low-velocity airdrop (continued)**

National Stock Number	Item	Quantity
	Parachute:	
	Cargo:	
1670-01-016-7841	G-11B	4
	Cargo extraction:	
1670-00-040-8135	28-ft, heavy duty	1
	Platform, AD, type V, 32-ft:	1
	Bracket:	
1670-01-162-2375	Inside EFTA	(1)
1670-01-162-2374	Outside EFTA	(1)
1670-01-162-2372	Clevis load tiedown	(34)
1670-01-162-2376	Extraction bracket assembly	(1)
1670-01-162-2389	Suspension link	(4)
1670-01-162-2381	Tandem Link	(2)
	Plywood:	
	3/4-in:	
5530-00-128-4981	5- by 84-in	1
	9- by 84-in	3
	12- by 12-in	2
	16- by 82-in	2
	18- by 27-in	3
	24- by 40 1/2-in	2
	36- by 12-in	2
	36- by 37-in	1
	65- by 19-in	1
	83- by 15-in	2

**Table 8-2. Equipment required for rigging M35 series, 2 1/2-ton cargo trucks type V platform for low-velocity airdrop (continued)**

National Stock Number	Item	Quantity
	96- by 9-in	1
	96- by 36-in	1
	Release, cargo parachute:	
1670-01-097-8817	M-2	1
	Sling, cargo, airdrop:	
	For deployment line:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For extraction:	
1670-01-062-6313	60-ft (3-loop), type XXVI nylon webbing	1
1670-01-107-7651	140 ft (3-loop), type XXVI nylon webbing	1
	For lifting:	
1670-00-432-2507	16-ft (4-loop), type XXVI nylon webbing <u>or</u>	
1670-00-003-7237	16-ft (4-loop), type XXVI nylon webbing <u>or</u>	
1670-00-062-6308	16-ft (4-loop), type XXVI nylon webbing	4
	For riser extensions:	
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	12
	For suspension:	
1670-01-062-6306	3-ft (4-loop), type XXVI nylon webbing	4
1670-00-432-2507	16-ft (4-loop), type XXVI nylon webbing <u>or</u>	
1670-01-003-7237	16-ft (4-loop), type XXVI nylon webbing <u>or</u>	
1670-01-062-6308	16-ft (4-loop), type XXVI nylon webbing	4
	Strap:	
	Parachute release:	
1670-00-040-8219	Multicut comes w 3 knives	2
	Tape:	
	Adhesive:	As required
1670-00-937-0271	Tie-down assembly, 15-ft	57

**Table 8-2. Equipment required for rigging M35 series, 2 1/2-ton cargo trucks type V platform for low-velocity airdrop (continued)**

National Stock Number	Item	Quantity
8305-00-268-2411	Webbing: Cotton, 1/4-in, type I	As required
	Nylon:	
	Tubular:	
8305-00-082-5752	1/2-in <u>or</u>	As required
8305-00-268-2453	1/2-in	As required
8305-00-268-2455	1-in	As required
	Type:	
8305-00-263-3591	VIII	As required

## GLOSSARY

**AC** alternating current

**ACB** attitude control bar

**AFB** Air Force base

**AFJMAN** Air Force joint manual

**AFR** Air Force regulation

**AFTO** Air Force technical order

**attn** attention

**CB** center of balance

**d** penny

**DA** Department of the Army

**DC** District of Columbia

**DD** Department of Defense

**diam** diameter

**EFTA** extraction force transfer actuator

**EFTC** extraction force transfer coupling

**FL** Florida

**FM** field manual

**ft** foot/feet

**gal** gallon

**HQ** headquarters

**IL** Illinois

**in** inch

**kw** kilowatt

**LAPE** low-altitude parachute-extraction

**LAPES** low-altitude parachute-extraction system

**lb** pound(s)

**MCRP** Marine Corps reference publication

**NAVAIR** Naval Air Systems Command

**no** number

**NSN** national stock number

**OVN** operator vehicle maintenance

**SL/CS** static line/connector strap

**sq** square

**TX** Texas

**TM** technical manual

**TO** technical order

**TRADOC** United States Army Training and Doctrine Command

**US** United States

**USAF** United States Air Force

**VA** Virginia

**w** with

**yd** yard

## REFERENCES

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

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

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

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

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**TM 9-2320-209-10-1.** *Operation, Installation and Reference Data Operator Level for 2 1/2-Ton, 6x6, M44A1 and M44A2 Series Trucks (Multifuel).* 23 September 1980.

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

**TM 10-1670-240-20/TO 13C7-49-11.** *Organizational Maintenance Manual (Including Repair Parts and Special Tools List): Miscellaneous Airdrop Canvas, Webbing, Metal, and Wood Items.* 14 April 1970.

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

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

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

**TM 10-1670-280-23&P/TO 13C5-31-2/NAVAIR 13-1-31.** *Unit and Intermediate DS Maintenance Manual Including Repair Parts and Special Tools List for Parachute, Cargo Type, G-11A, G-11B, and G-11C.* 5 August 1991.

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

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

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

\*\* FM 10-500-53/MCRP 4-3.8/TO 13C7-18-41 has superseded FM 10-553/TO 13C7-18-41 (4 December 1981). Change 3 reflects this change. The basic manual and changes 1 and 2 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 3 reflects this change. The basic manual and changes 1 and 2 still reference the superseded publication. You may wish to make pen and ink changes to update the old reference citations accordingly.