

CHAPTER 7

**RIGGING M119 HOWITZER WITH 1 1/4-TON M1037 HMMWV TRUCK  
AND ACCOMPANYING AMMUNITION**

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Section I

**RIGGING HOWITZER AND TRUCK  
FOR LOW-VELOCITY AIRDROP  
ON TYPE V PLATFORM**

**7-1. Description of Load**

The M119, 105-millimeter howitzer is rigged with the M1037 1 1/4-ton HMMWV truck as its prime mover and an accompanying load of ammunition on a 32-foot, type V airdrop platform. A load weighing 800 to 2,000 pounds must be rigged in the truck. This load requires four G-11B cargo parachutes.

**7-2. Preparing Platform**

Prepare a 32-foot, type V airdrop platform as described below.

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

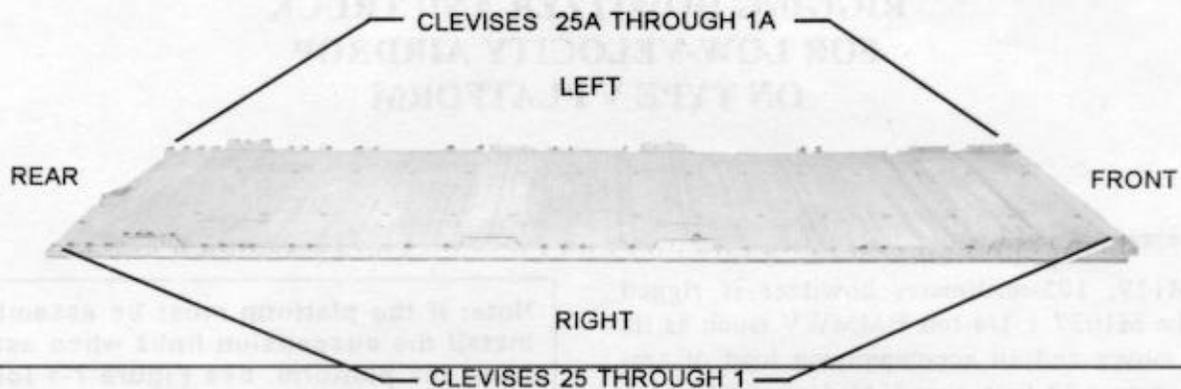
**Note: If the platform must be assembled, install the suspension links when assembling the platform. See Figure 7-1 for the location of the suspension links.**

*b. Installing Suspension Links.* Install the suspension links on assembled platforms according to FM 10-500-2/TO 13C7-1-5.

*c. Installing Tandem Links.* Install a tandem link on the front of each rail as shown in Figure 7-1.

*d. Installing and Numbering Clevises.* Bolt and number 50 clevis assemblies as shown in Figure 7-1.

- Notes:**
1. The nose bumper may or may not be installed.
  2. Measurements given in this chapter are from the front edge of the platform, NOT from the front edge of the nose bumper.



**Step:**

1. Install a suspension link in holes 26, 27, and 28 on each platform side rail. Face the flat part of the link to the front of the rail.
2. Install a suspension link in holes 6, 7, and 8 on each platform side rail. Face the flat part of the link to the front of the rail.
3. Install a suspension link in holes 37, 38, and 39 on each platform side rail. Face the flat part of the link to the rear of the rail.
4. Install a suspension link in holes 57, 58, and 59 on each platform side rail. Face the flat part of the link to the rear of the rail.
5. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
6. Install a clevis on bushing 1 of each front tandem link.
7. Install a clevis on bushing 2 on the second suspension link on each side.
8. Install clevises on bushings 1, 2, 3, and 4 on the fourth suspension link on each side.
9. Starting at the front of each platform side rail, install clevises on the bushings bolted on holes 10, 15, 16, 30, 33, 34, 35, 41, 43, 49, 50, 52, 53, 54, 55, 61, 62, 63, and 64.
10. Starting at the front of the platform, number the clevises bolted to the right side from 1 through 25 and those bolted to the left side from 1A through 25A.
11. Label the tie-down rings according to FM 10-500-2/TO 13C7-1-5.

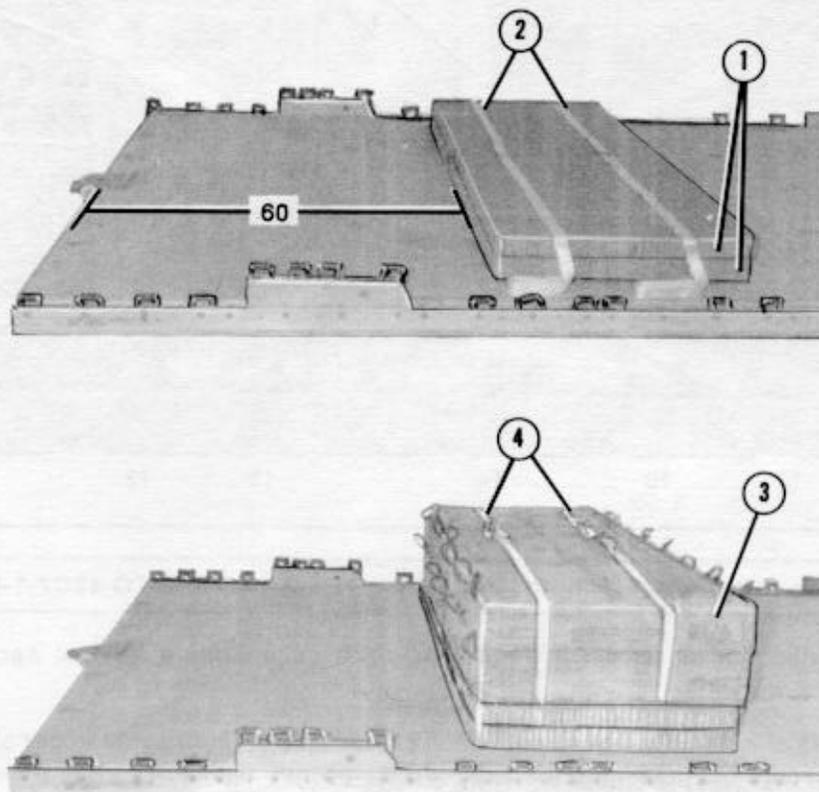
*Figure 7-1. Platform prepared*

### 7-3. Stowing Accompanying Load on Platform

Stow 28 boxes of 105-millimeter ammunition weighing 3360 pounds on the platform as shown in Figure 7-2. Ammunition will be included in the

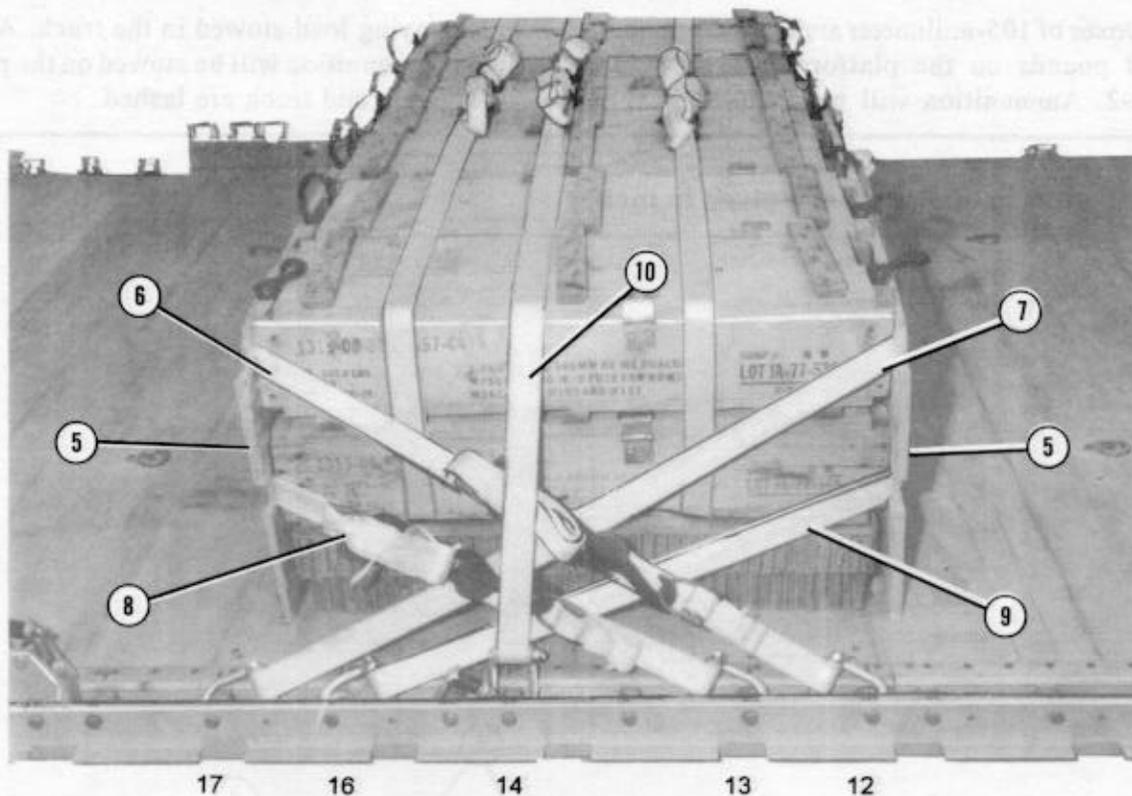
accompanying load stowed in the truck. Also, additional ammunition will be stowed on the platform after the gun and truck are lashed.

**Note: All measurements are given in inches.**



- ① Center two 84- by 36-inch pieces of honeycomb 60 inches from the rear edge of the platform.
- ② Form two 30-foot lashings according to FM 10-500-2/TO 13C7-1-5, and lay them from side to side on the honeycomb.
- ③ Place 14 boxes of ammunition on the honeycomb.
- ④ Secure the 30-foot lashings over the boxes with D-rings and load binders.

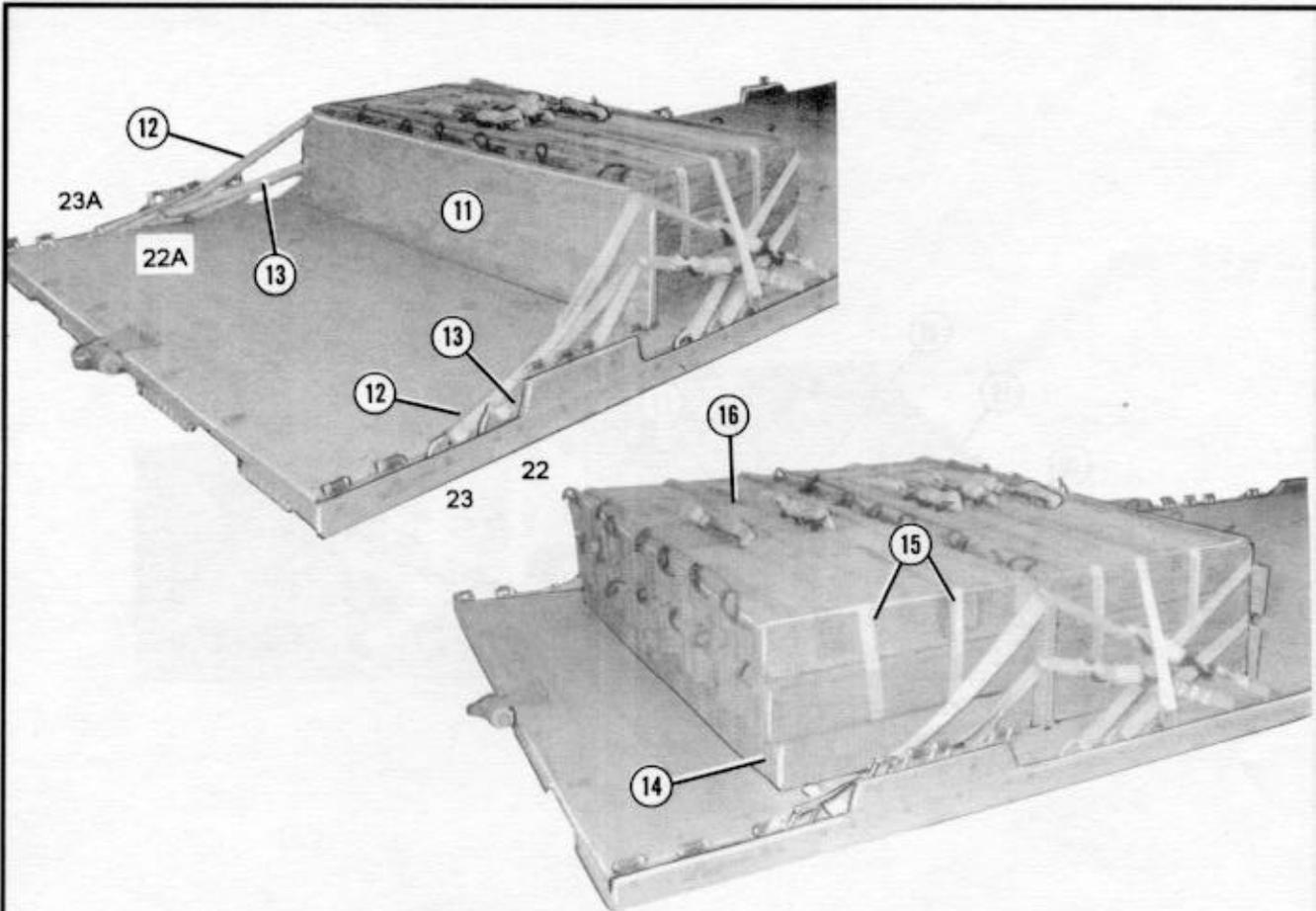
Figure 7-2. Ammunition stowed and lashed to platform



**Note: Form five 30-foot lashings according to FM 10-500-2/TO 13C7-1-5.**

- ⑤ Cut four endboards as shown in Figure 5-3. Set an endboard against each end of the ammunition stack.
- ⑥ Pass the ends of a lashing through clevises 12 and 12A and through the upper slots in the rear endboard. Secure the lashing at the side of the load with two D-rings and a load binder.
- ⑦ Pass the ends of a lashing through clevises 17 and 17A and through the upper slots in the front endboard. Secure the lashing in the center of the endboard.
- ⑧ Pass the ends of a lashing through clevises 13 and 13A and through the lower slots in the rear endboard. Secure the lashing as in step 6.
- ⑨ Pass the ends of a lashing through clevises 16 and 16A and through the lower slots in the front endboard. Secure the lashing as in step 7.
- ⑩ Pass the ends of a lashing through clevises 14 and 14A and over the stack of boxes. Secure the lashing in the center of the boxes.

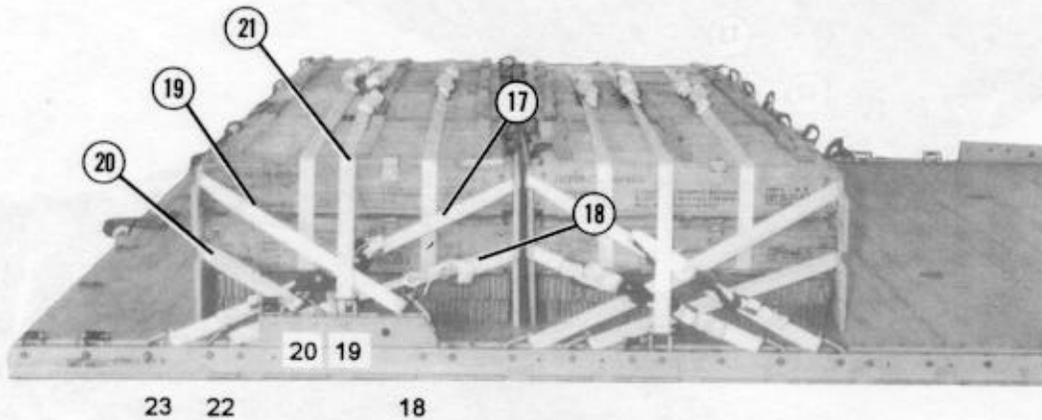
*Figure 7-2. Ammunition stowed and lashed to platform (continued)*



**Note: Form four 30-foot lashings according to FM 10-500-2/TO 13C7-1-5.**

- ⑪ Set a third endboard against the rear of the ammunition stack.
- ⑫ Center a 30-foot lashing through clevis 23A. Place the ends of the lashing through the upper slots in the endboard to the right side of the load, to clevis 23.
- ⑬ Center a 30-foot lashing through clevis 22A. Place the ends of the lashing through the lower slots in the endboard to the right side of the load, to clevis 22.
- ⑭ Center two 84- by 36-inch pieces of honeycomb 17 inches from the rear edge of the platform.
- ⑮ Place two 30-foot lashings on the honeycomb as shown in step 2.
- ⑯ Place 14 ammunition boxes over the lashings and honeycomb. Secure the lashings over the boxes with D-rings and load binders.

Figure 7-2. Ammunition stowed and lashed to platform (continued)



- ①⑦ Pass the lashing pre-positioned in step 12 through clevis 23. Secure the lashing on the right side.
- ①⑧ Pass the lashing pre-positioned in step 13 through clevis 22. Secure the lashing on the right side.
- ①⑨ Set the fourth endboard against the rear of the stack of boxes. Pass a 30-foot lashing through clevises 18 and 18A and through the upper slots in the rear endboard. Secure the lashing on the side of the load or on one side of the endboard.
- ②⑩ Pass a 30-foot lashing through clevises 20 and 20A and through the lower slots in the rear endboard. Secure the lashing as in step 19.
- ②⑪ Pass a 30-foot lashing through clevises 19 and 19A and over the top of the boxes. Secure the lashing on top.

Figure 7-2. Ammunition stowed and lashed to platform (continued)

#### 7-4. Building and Placing Honeycomb Stacks and Placing Drive-Off Aids

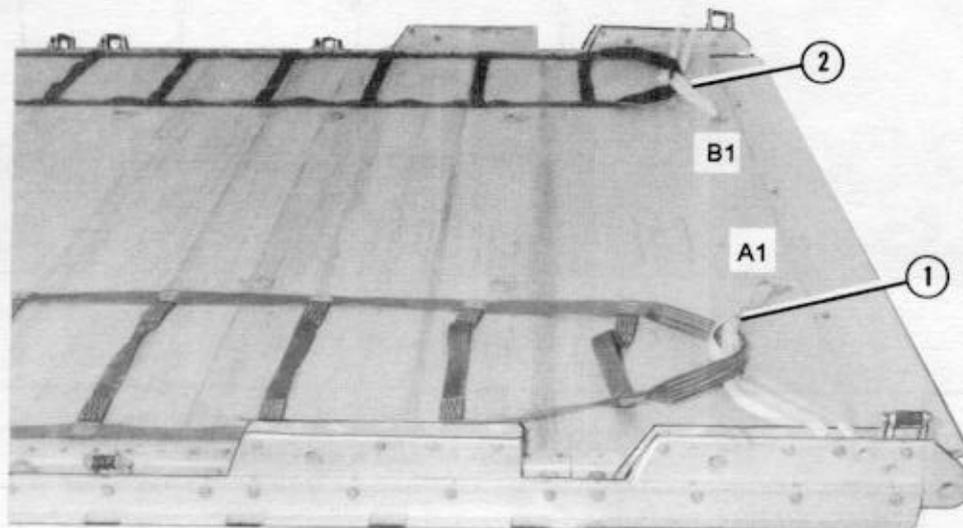
Build and place the honeycomb stacks and place the drive-off aids on the platform as explained below.

*a.* Build honeycomb stacks 1 through 3 for the 1 1/4-ton HMMWV truck as shown in FM 10-517/TO 13C7-1-111, Figures 2-3 and 2-4.

*b.* Build honeycomb stacks 4 through 6 for the M119 howitzer as shown in Figures 5-5 through 5-7.

*c.* Place the drive-off aids to the front of the platform as shown in Figure 7-3.

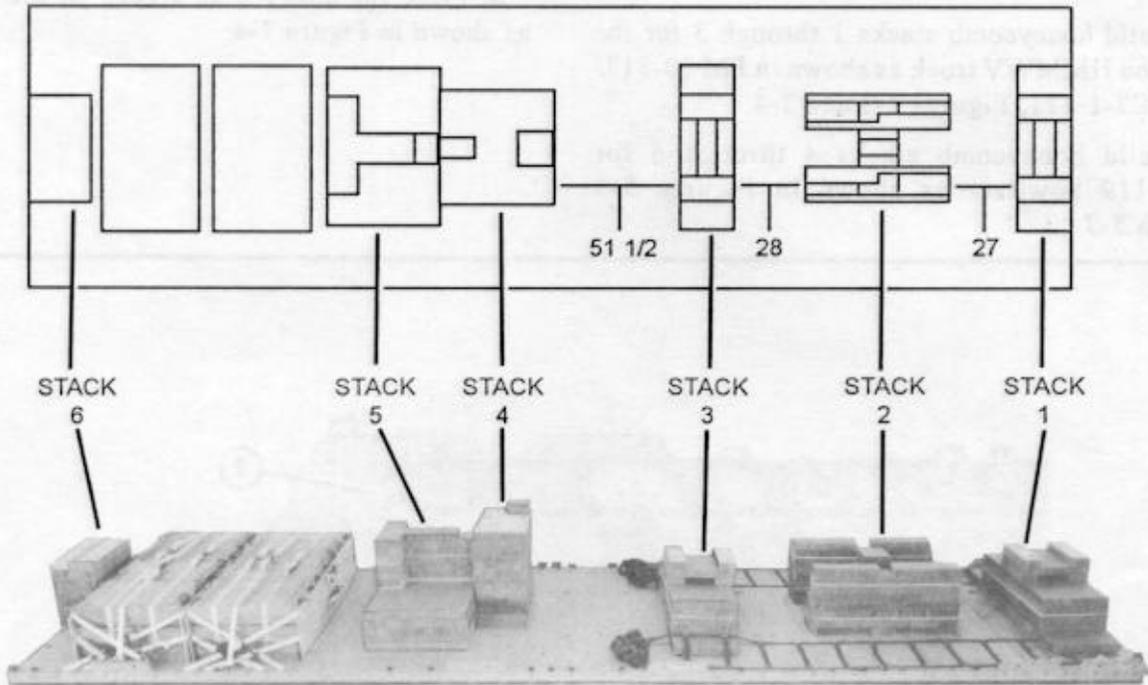
*d.* Place the honeycomb stacks on the platform as shown in Figure 7-4.



- ① Run a length of type V, or 1-inch tubular nylon webbing around the second bushing on the front tandem link, through the end loop of a drive-off aid, and through tie-down ring A1. Knot the webbing as shown in FM 10-500-2/TO 13C7-1-5.
- ② Repeat this procedure for the left side of the platform using tie-down ring B1.

Figure 7-3. Drive-off aids placed on platform

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



Stack Number	Position of Stack on Platform
1	Place stack: Centered and flush with the front edge of the platform. <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>Note: Place stack 1 over drive-off aids.</b></div>
2	Centered 27 inches from stack 1.
3	Centered 28 inches from stack 2.  <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>Note: Drive-off aids go over the sides of stack 3.</b></div>
4	Centered 51 1/2 inches from stack 3.
5	Centered and flush with the rear of stack 4.
6	Centered and flush with the rear edge of the platform.

Figure 7-4. Honeycomb stacks placed on platform

### 7-5. Preparing Howitzer and Truck

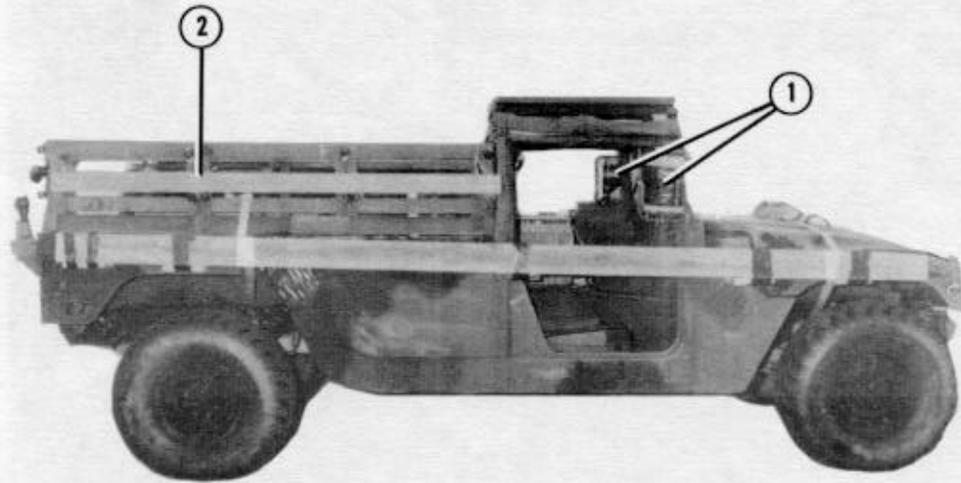
Prepare the howitzer and truck as described below.

*a.* Prepare the howitzer as shown in Figures 5-9 through 5-16.

*b.* Prepare the truck with the roof rack as described in FM 10-517/TO 13C7-1-111, paragraph 2-4a through e, g and h, and as shown in Figures 2-6 through 2-9, 2-11, 2-12

, and 2-13 (omit step 1). Additionally, prepare the truck as shown in Figure 7-5.

**Note:** Prepare trucks without the roof rack in the same way, but add the procedures in FM 10-517/TO 13C7-1-111, Figure 2-10 (omit step 12).



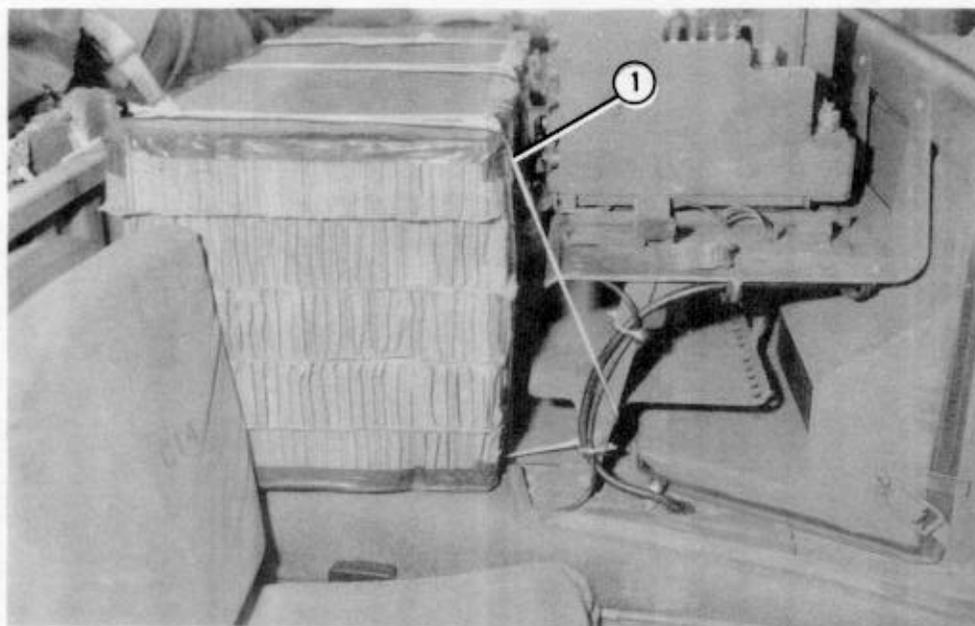
- ① Fold both mirrors to the side, pad them with cellulose wadding, and tie them together inside the windshield with type III nylon cord.
- ② If the wood sides are installed on the truck, tie a 2- by 4- by 84-inch piece of lumber to the second wood slat with type III nylon cord.

*Figure 7-5. Truck with roof rack prepared*

### 7-6. Stowing Howitzer Equipment and Ammunition in Truck

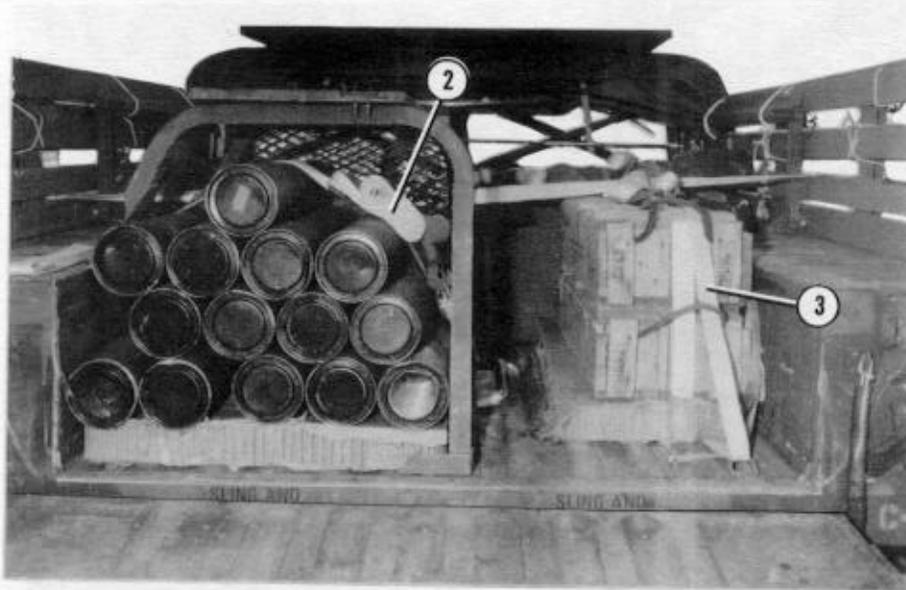
Stow the howitzer equipment in trucks equipped with the ammunition rack as shown in Figure 7-6. Adapt these procedures and those procedures in

Chapter 5, FM 10-517-1-111 that include artillery fire direction control equipment to stow equipment in other trucks.



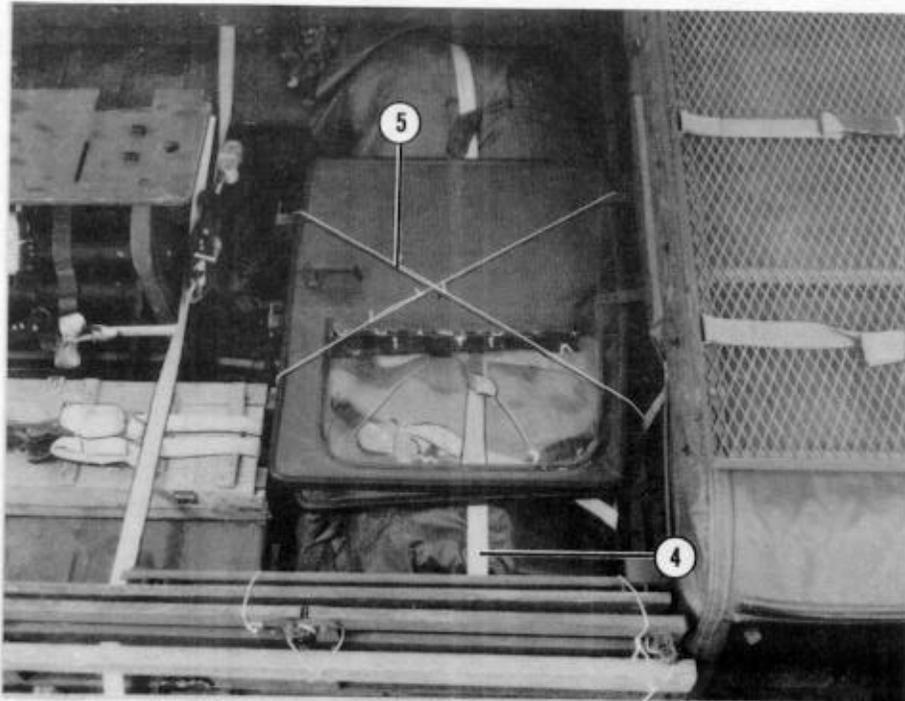
- ① Set the boxed collimator (Figure 5-17) between the seats. Tie the box to the cargo bed and to the radio mounting bracket with type III nylon cord.

*Figure 7-6. Howitzer equipment stowed in truck*



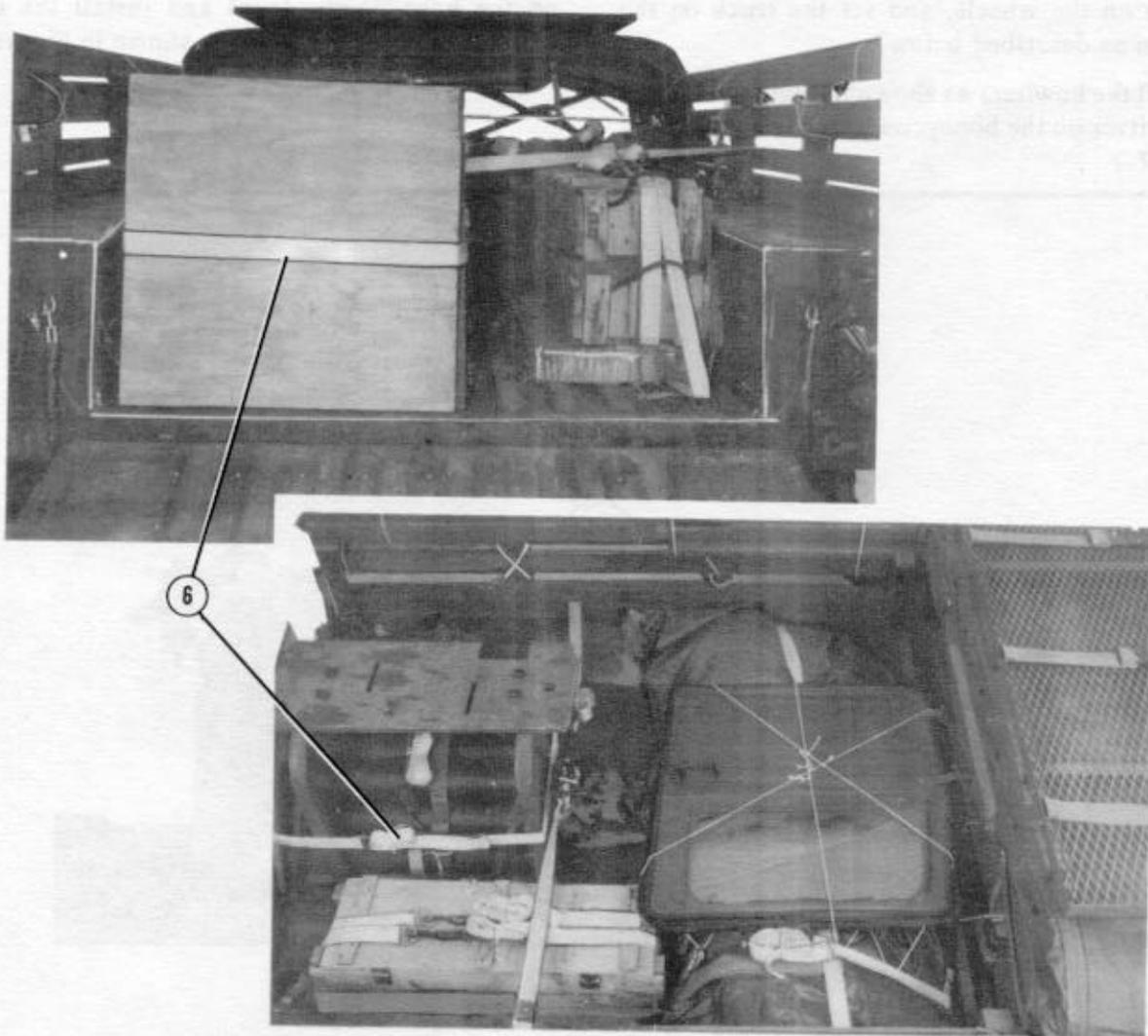
- ② Place a layer of honeycomb cut to fit in the bottom of the ammunition rack. Place a 15-foot lashing over the honeycomb. Place 14 fiber containers in the rack as shown and secure the lashing over them.
- ③ Place a 15-foot lashing through the two right side tie-down rings in the bed of the truck. Place a piece of honeycomb cut slightly larger than the dimensions of an ammunition box over the lashing. Place a second 15-foot lashing over the honeycomb. Place two ammunition boxes over the lashing and honeycomb. Bring both lashings up through the box carrying handles and secure them with D-rings and load binders on top of the boxes.

*Figure 7-6. Howitzer equipment stowed in truck (continued)*



- ④ Place 15-foot lashings through the tie-down rings in the front of the cargo bed in both front-to-rear and side-to-side directions. Place the truck covers, camouflage nets and pole bag over the lashings. Secure the lashings over the equipment with D-rings and load binders.
- ⑤ Tie the truck doors to the lashings with type III nylon cord.

*Figure 7-6. Howitzer equipment stowed in truck (continued)*



- ⑥ Set a 3/4- by 28- by 28-inch piece of plywood against the rear of the ammunition rack. Lash the plywood horizontally to the rack with a 15-foot lashing, a D-ring, and a load binder.
- ⑦ Close the tailgate and secure it shut with 1/2-inch tubular nylon webbing (not shown).

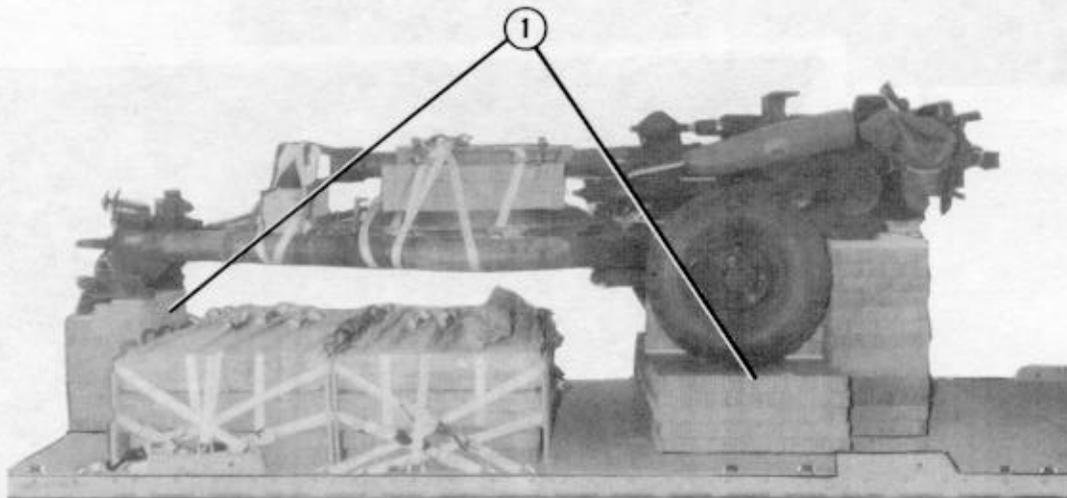
Figure 7-6. Howitzer equipment stowed in truck (continued)

### 7-7. Setting Howitzer and Truck on Platform and Installing Drive-Off Aids on Truck

Lift the howitzer and set it on the platform as described below. Lift the truck, install the drive-off aids on the wheels, and set the truck on the platform as described below.

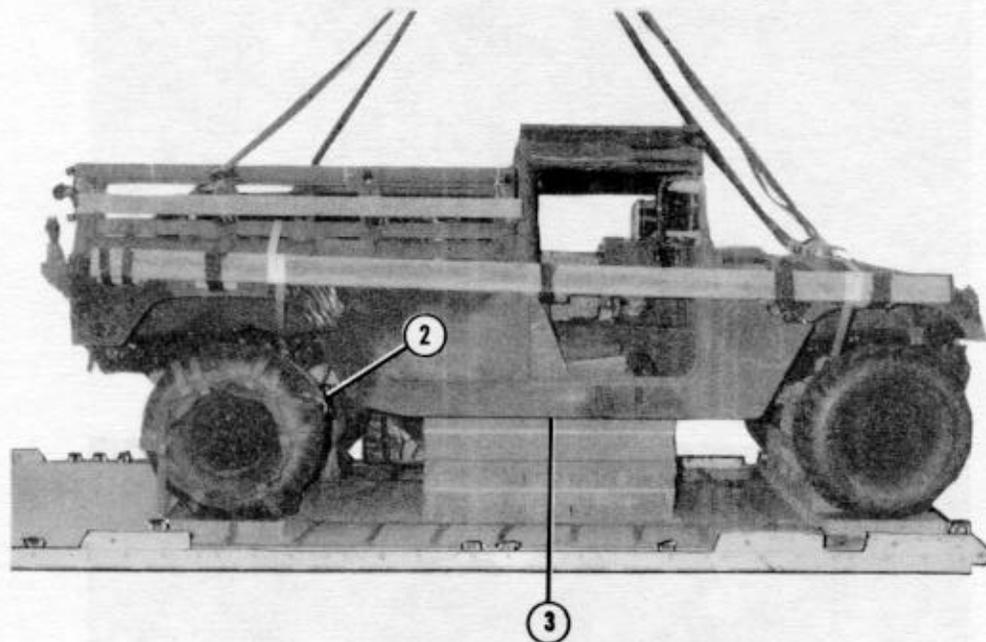
*a.* Lift the howitzer as shown in Figure 5-19. Set the howitzer on the honeycomb stacks as shown in Figure 7-7.

*b.* Lift the truck as shown in FM 10-517/TO 13C7-1-111, Figure 2-17. Position the truck on the honeycomb stacks and install the drive-off aids to the rear wheels as shown in Figure 7-7.



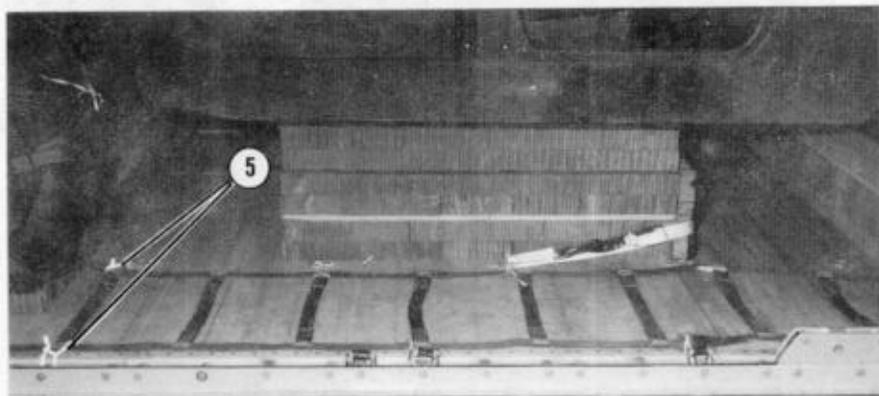
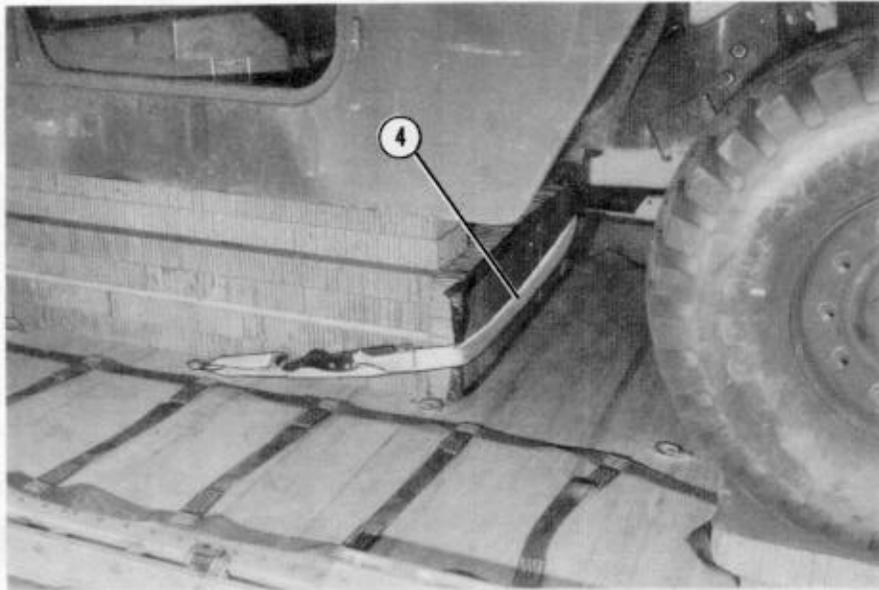
① Set the howitzer on stacks 4, 5, and 6 as shown.

*Figure 7-7. Howitzer and truck set on platform and drive-off aids installed*



- ② Suspend the truck slightly over the honeycomb stacks. Lay a drive-off aid under each rear wheel. Turn the wheel until the webbing is wound around the wheel and under slight tension. Tie the end loop of each drive-off aid to the nearest cross piece with two turns of 1/4-inch cotton webbing.
- ③ Set the truck on stacks 1, 2, and 3 so that the suspension cross members rest squarely on stacks 1 and 3 as shown. Be sure that the frame rails rest squarely on stack 2.

*Figure 7-7. Howitzer and truck set on platform and drive-off aids installed (continued)*



- ④ Place a 12- by 42-inch piece of honeycomb against the front of stack 2 as shown. Run a 15-foot lashing through tie-down rings A4 and B4 and around the front side of stack 2 as shown. Secure the lashing on the side.
- ⑤ Tie the drive-off aids to side rail bushings and to tie-down rings with 1/4-inch cotton webbing.

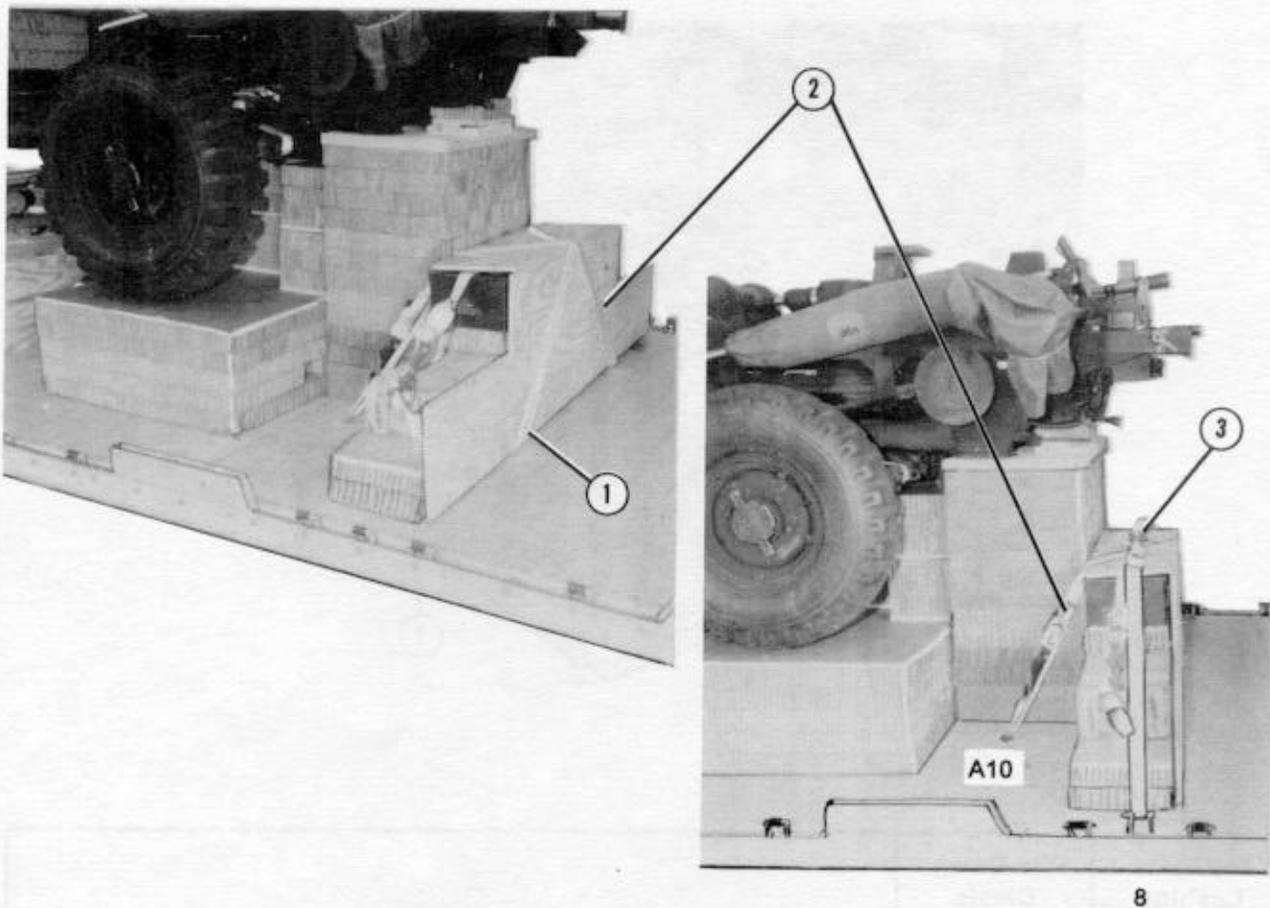
*Figure 7-7. Howitzer and truck set on platform and drive-off aids installed (continued)*

### 7-8. Stowing Additional Accompanying Load

Stow two boxes of APERS or HERAP ammunition and seven boxes of fuzes as described below.

*a.* Construct the ammunition and fuze package against the front side of stack 4 as shown in Figure 5-22, and Figure 5-23, steps 1 and 2.

*b.* Lash the ammunition package to the platform as shown in Figure 7-8.

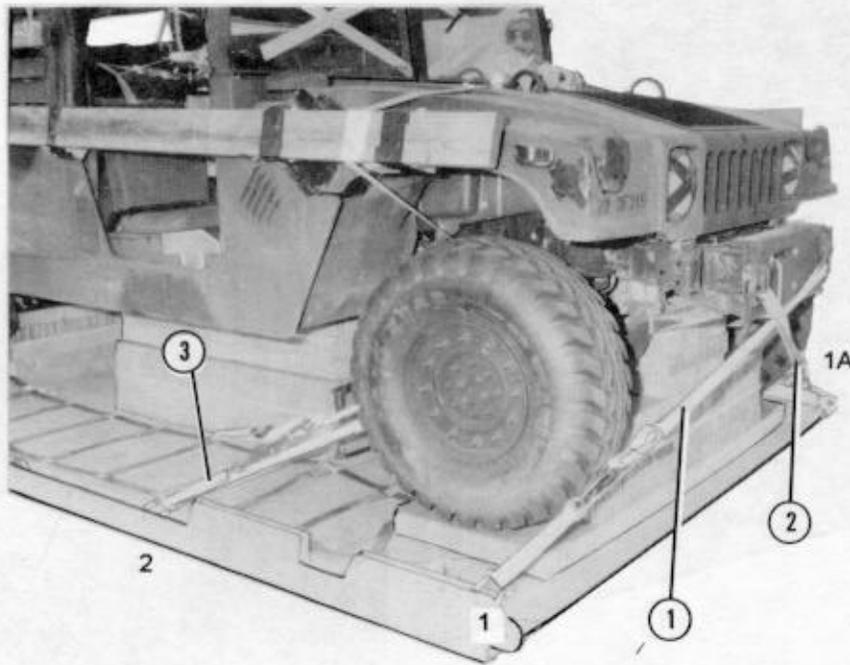


- ① Secure the plywood with a 15-foot lashing from tie-down ring A9 to B10.
- ② Pass a second 15-foot lashing over the plywood between tie-down rings A10 and B9.
- ③ Form a 30-foot lashing according to FM 10-500-2/TO 13C7-1-5. Place the lashing over the top of the plywood and pass the ends through clevises 8 and 8A. Secure the lashing with two D-rings and a load binder.

Figure 7-8. Boxes of ammunition and fuzes lashed to platform

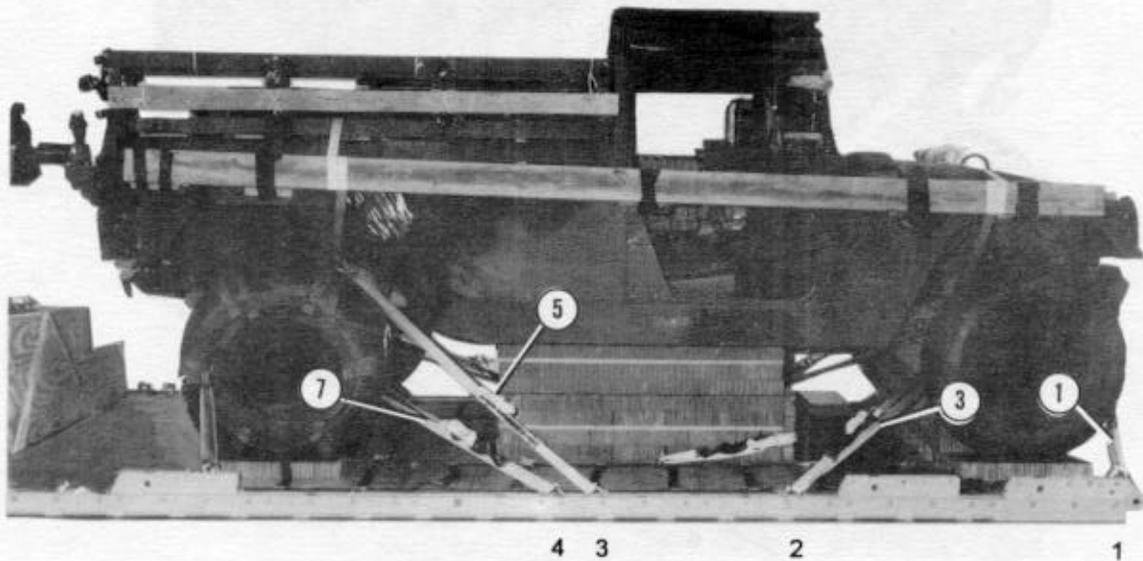
**7-9. Lashing Howitzer and Truck**

Lash the howitzer and truck to the platform with twenty-four 15-foot lashings as shown in Figure 7-9. Install and safety the lashings according to FM 10-500-2/TO 13C7-1-5.



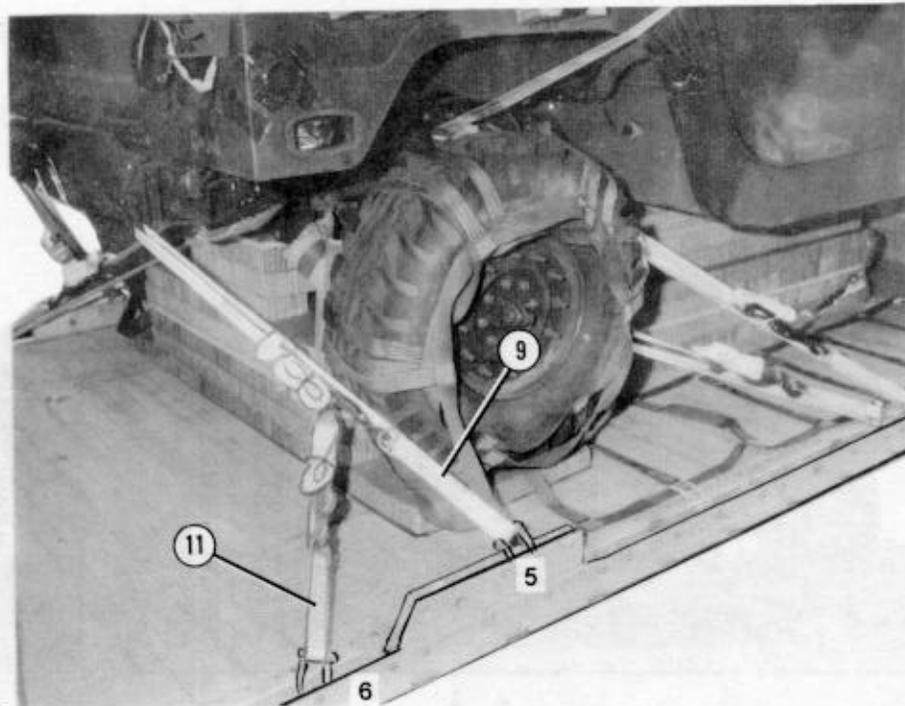
Lashing Number	Tie-Down Clevis Number	Instructions
1	1	Pass lashing: Through left front lifting shackle.
2	1A	Through right front lifting shackle.
3	2	Around lower control arm, right side.
4	2A	Around lower control arm, left side.

Figure 7-9. Lashings installed



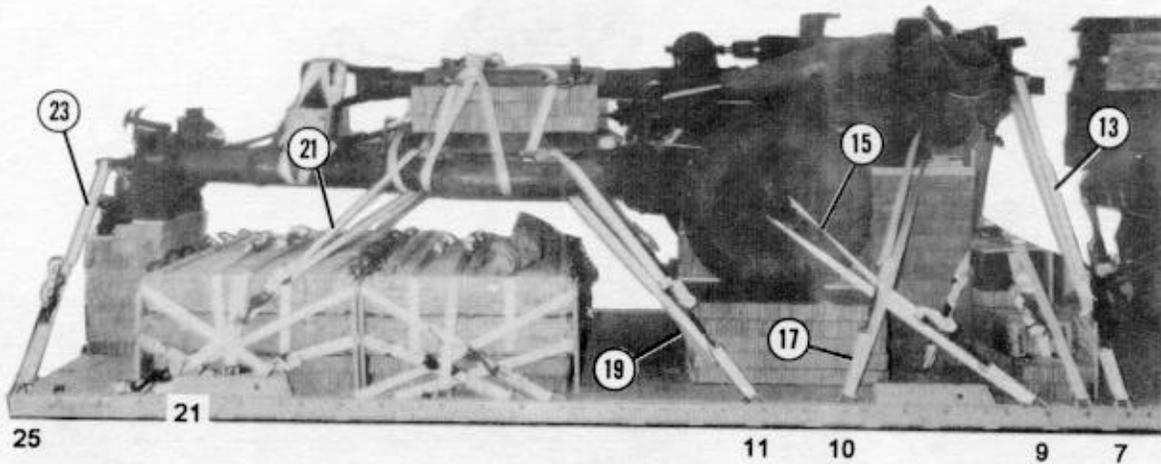
Lashing Number	Tie-Down Clevis Number	Instructions
5	3	Pass lashing: Around upper control arm, right side.
6	3A	Around upper control arm, left side.
7	4	Around lower control arm, right side.
8	4A	Around lower control arm, left side.

Figure 7-9. Lashings installed (continued)



Lashing Number	Tie-Down Clevis Number	Instructions
9	5	Pass lashing: Through right rear lifting shackle.
10	5A	Through left rear lifting shackle.
11	6	Around control arm, right side.
12	6A	Around control arm, left side.

Figure 7-9. Lashings installed (continued)

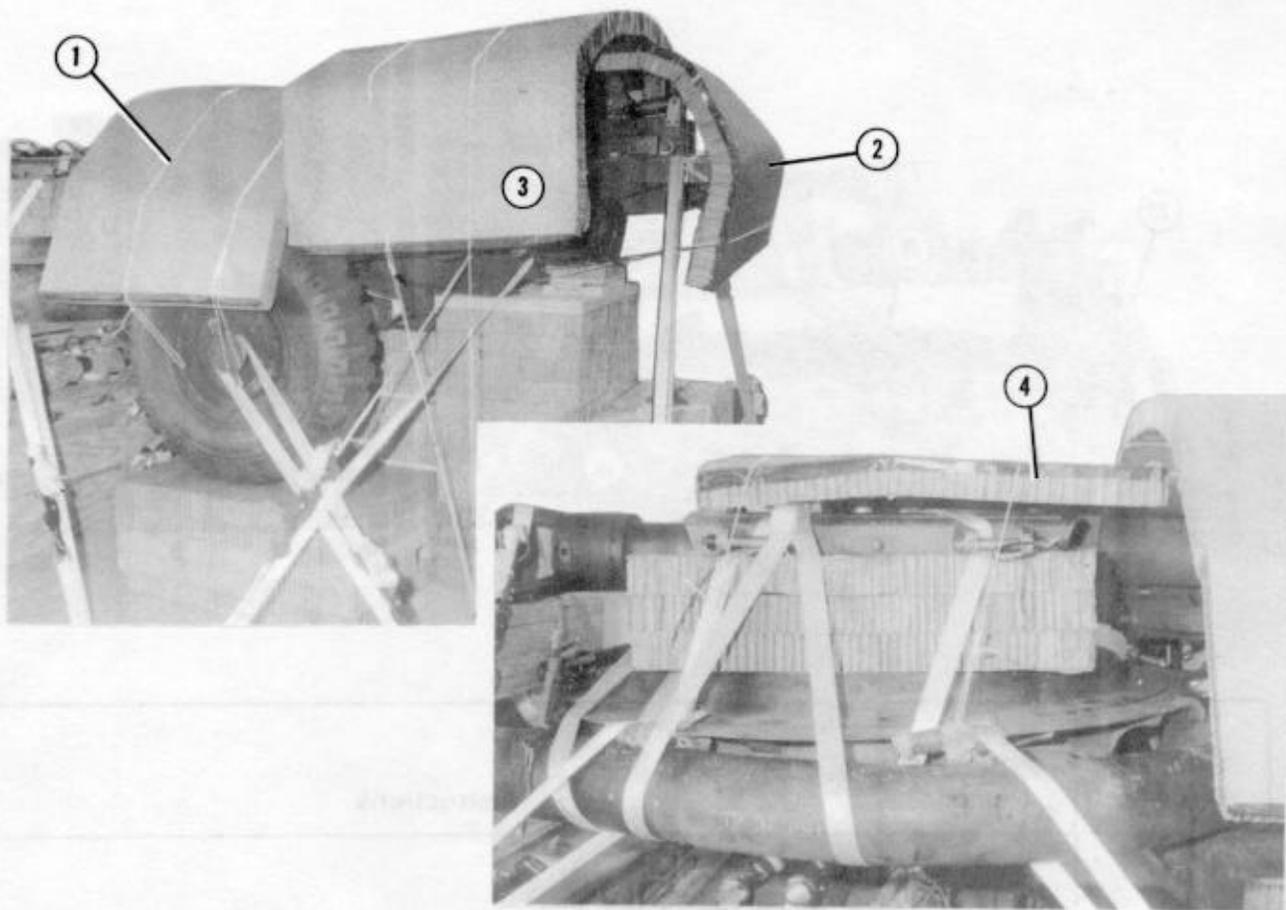


Lashing Number	Tie-Down Clevis Number	Instructions
13	7	Pass lashing: Around rail, right side.
14	7A	Around rail, left side.
15	9	Around wheel hub, right side.
16	9A	Around wheel hub, left side.
17	10	Around saddle, behind elevating wheel shaft, right side.
18	10A	Around saddle, left side.
19	11	Through hole in firing platform and around right trail.
20	11A	Through hole in firing platform and around left trail.
21	21	Through hole in firing platform and around right trail.
22	21A	Through hole in firing platform and around left trail.
23	25	Through lunette.
24	25A	Through lunette.

Figure 7-9. Lashings installed (continued)

### 7-10. Covering Howitzer with Honeycomb

Install protective honeycomb covers as shown in Figure 7-10.



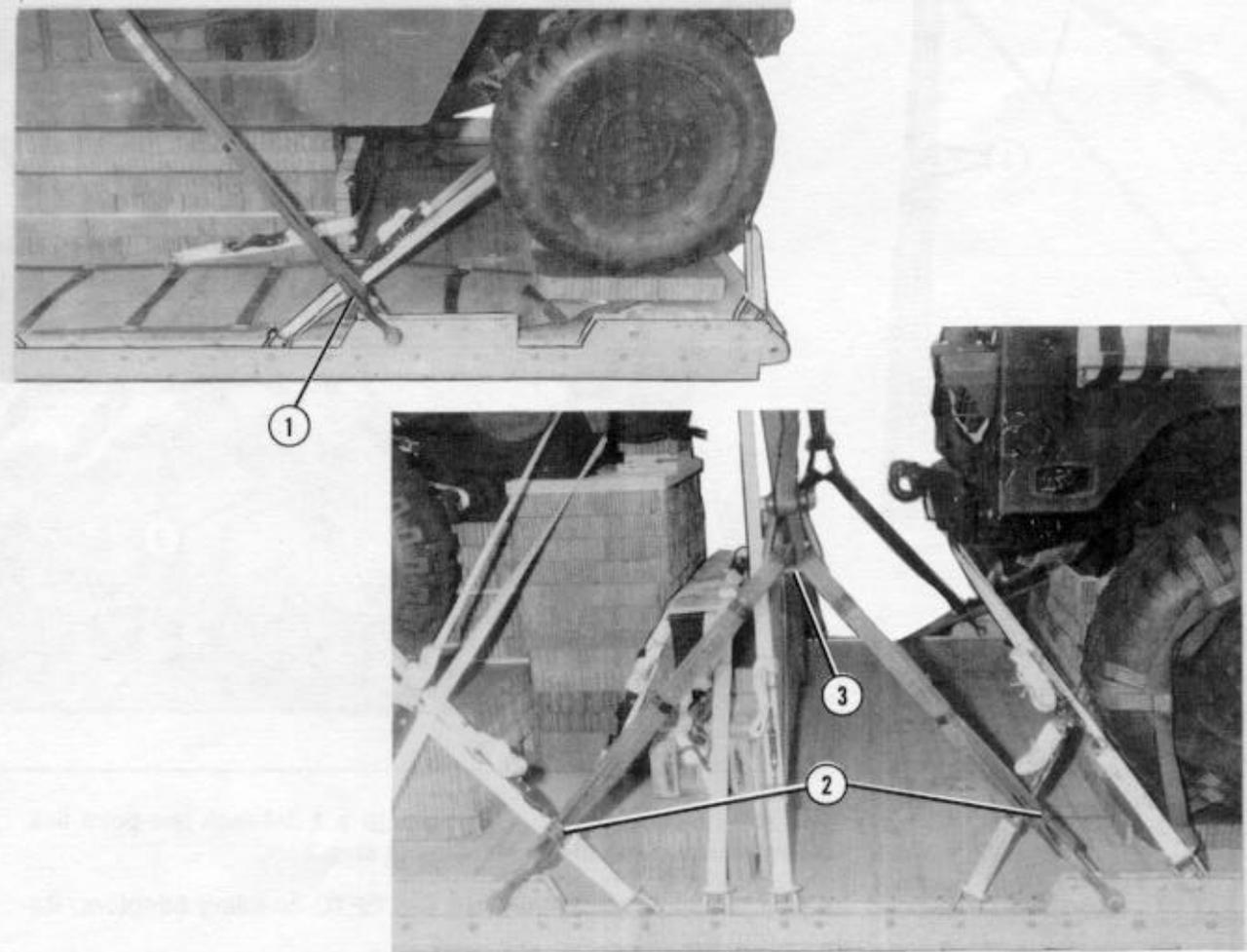
- ① Center a 36- by 96-inch piece of honeycomb over the wheels and bend it over the gun. Tie the honeycomb to the wheels with type III nylon cord.
- ② Bend a 36- by 30-inch piece of honeycomb over the breech. Tie the honeycomb to convenient points on the gun with type III nylon cord.
- ③ Bend a 36- by 96-inch piece of honeycomb over the sights and the piece placed in step 2 above. Tie the honeycomb to tie-down rings with type III nylon cord.
- ④ Place a 36- by 36-inch piece of honeycomb over the gun tube and tie it to the holes in the firing platform with type III nylon cord.

Figure 7-10. Honeycomb covers installed

### 7-11. Installing and Safetying Suspension Slings

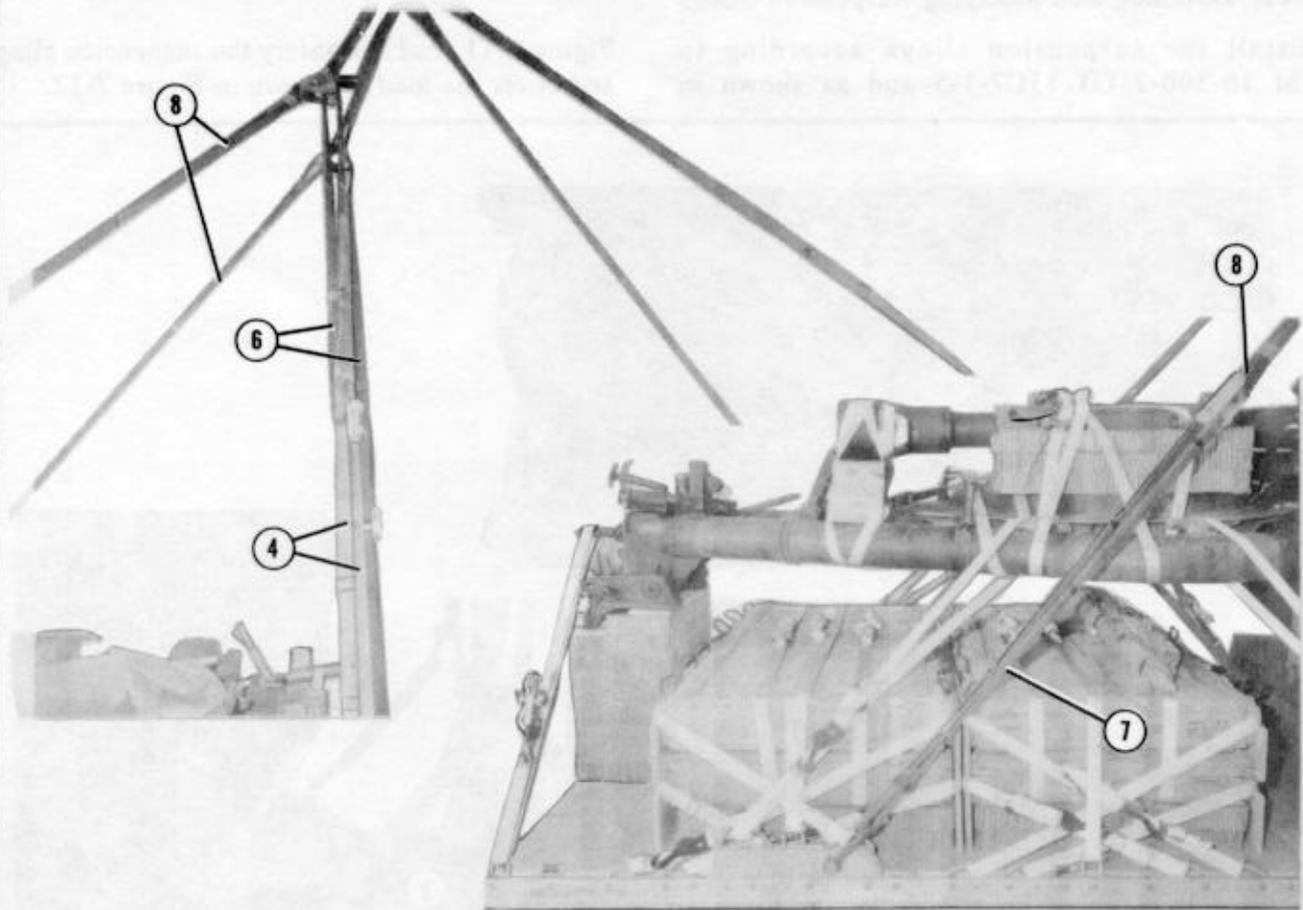
Install the suspension slings according to FM 10-500-2/TO 13C7-1-5 and as shown in

Figure 7-11. Pad and safety the suspension slings, and cover the load as shown in Figure 7-12.



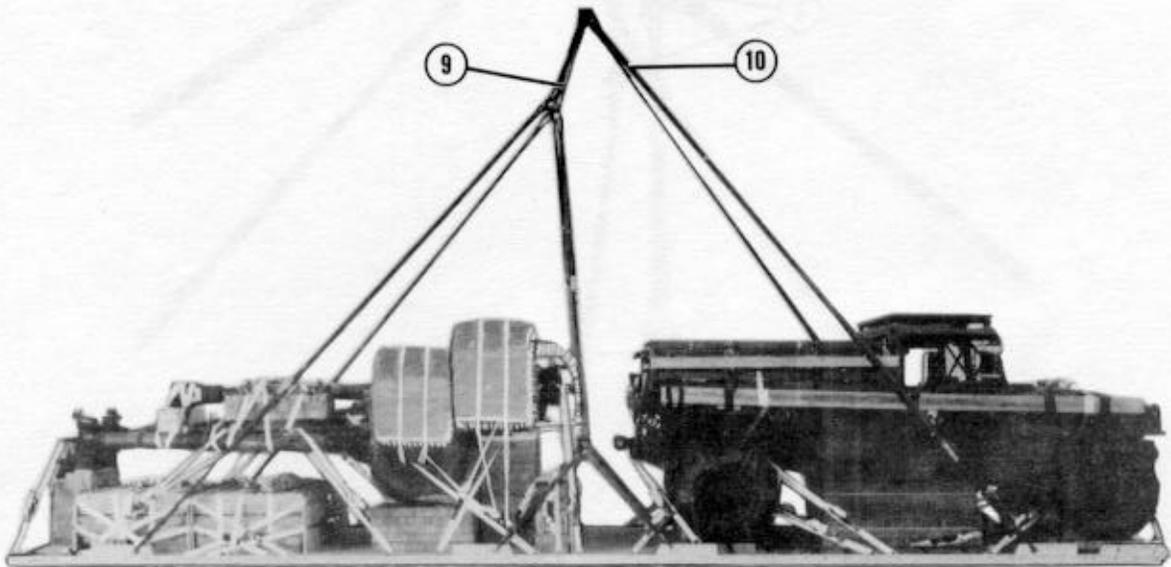
- ① Attach a 20-foot (4-loop), type XXVI nylon webbing sling to each first suspension link with a large suspension clevis.
- ② Attach a 3-foot (4-loop), type XXVI nylon webbing sling to each second and third suspension link with a large suspension clevis.
- ③ Place the 3-foot slings installed in step 2 in the bell portion of a large suspension clevis.

Figure 7-11. Suspension slings installed



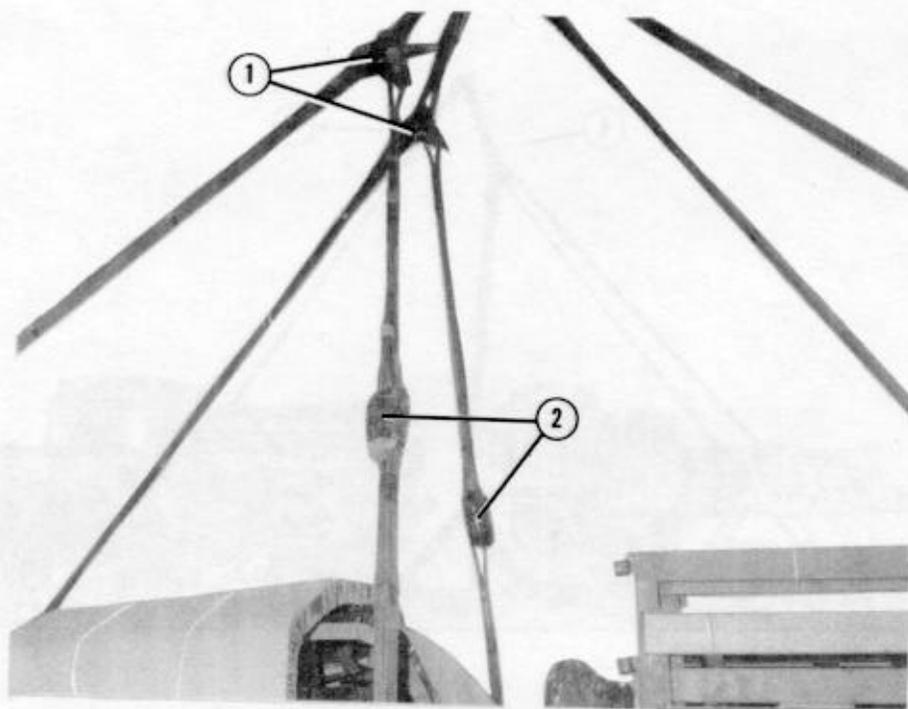
- ④ Pass a 9-foot (2-loop), type XXVI nylon webbing sling through a 3 3/4-inch two-point link. Bolt both end loops to the large suspension clevis installed in step 3.
- ⑤ Make two three-point links by removing the cams from two EFTC coupling adaptors. Replace the cams with spacers (not shown).
- ⑥ Pass an 11-foot (2-loop), type XXVI nylon webbing sling around one spool of a three-point link. Bolt both end loops to the free side of the 3 3/4-inch two-point link attached in step 4.
- ⑦ Pass an 11-foot (2-loop), type XXVI nylon webbing sling through a 5 1/2-inch, two-point link. Place both end loops in the bell portion of a large suspension clevis. Repeat this procedure and bolt each of the clevises to a fourth suspension link.
- ⑧ Bolt one end of an 11-foot (4-loop), type XXVI nylon webbing sling to the 5 1/2-inch two-point link installed in step 7. Bolt the free end of this sling to the three-point link installed in step 6.

Figure 7-11. Suspension slings installed (continued)



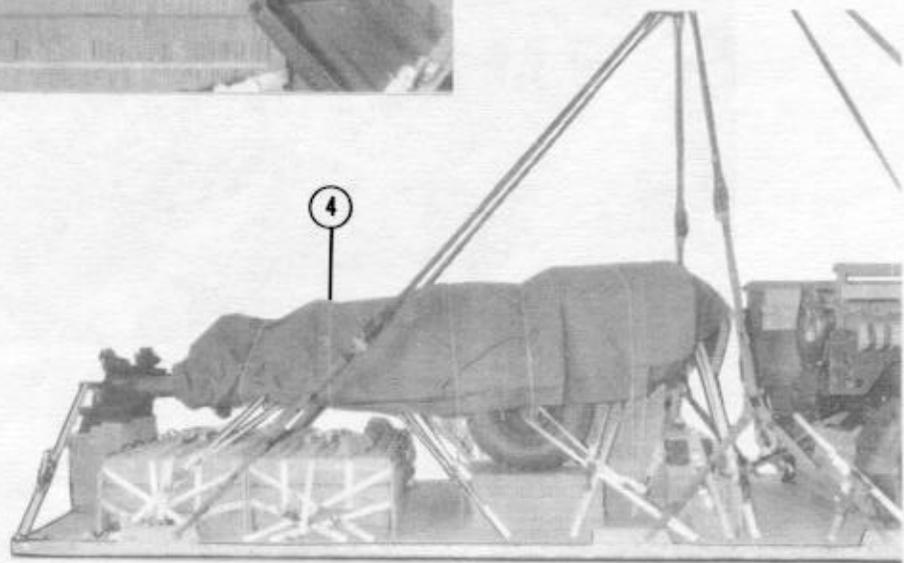
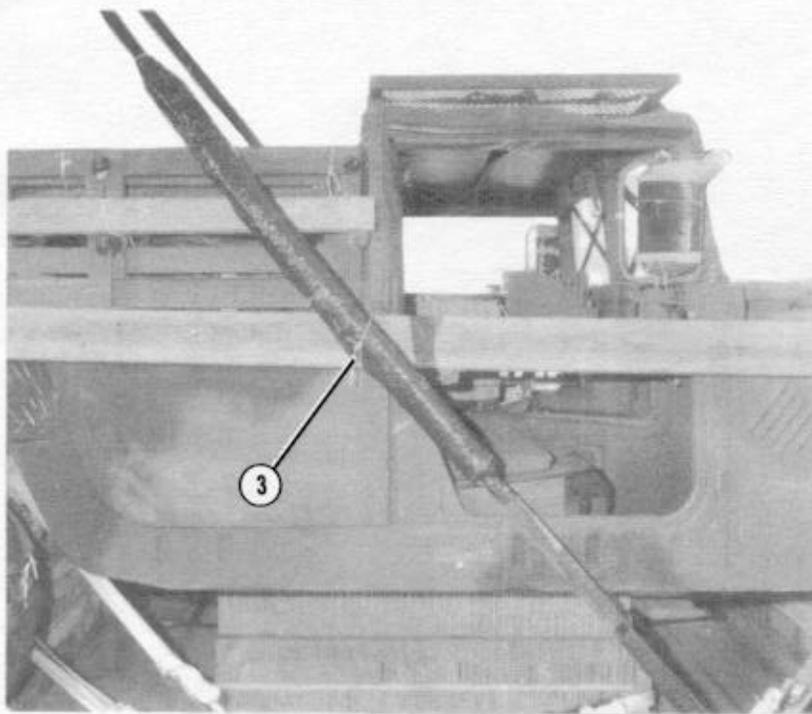
- ⑨ Attach a 3-foot (4-loop), type XXVI nylon webbing sling to each upper spool of the three-point links. Attach the free ends of the 3-foot slings to the crane hook.
- ⑩ Attach the front slings to the crane hook. Pull the slings taut.

*Figure 7-11. Suspension slings installed (continued)*



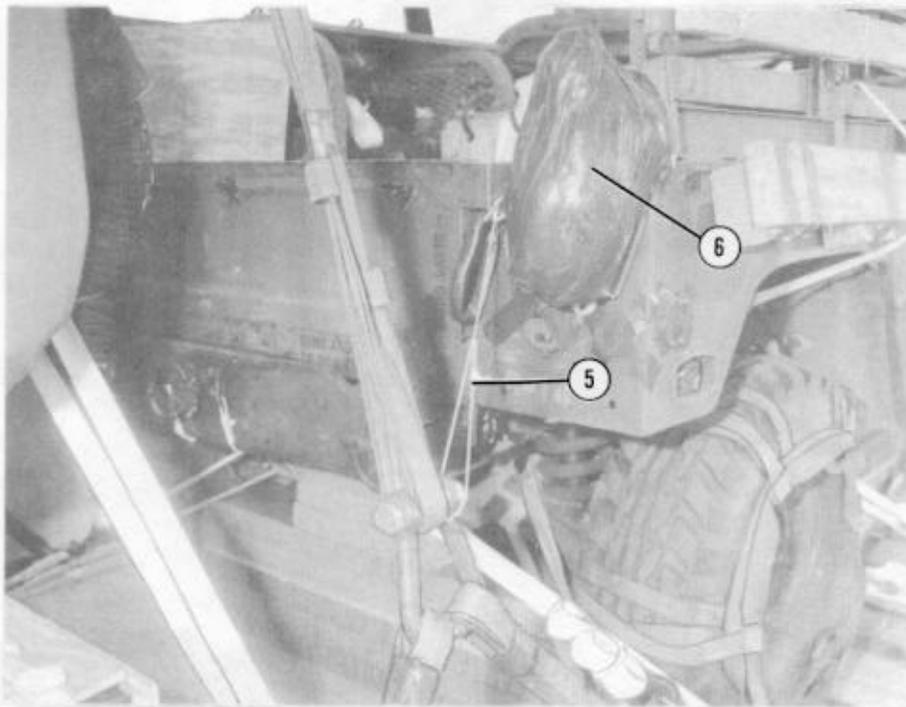
- ① Pad the three-point links with felt and tape it in place.
- ② Pad the two-point link assemblies with cellulose wadding and tape it in place.

*Figure 7-12. Howitzer covered, and suspension slings padded and safetied*



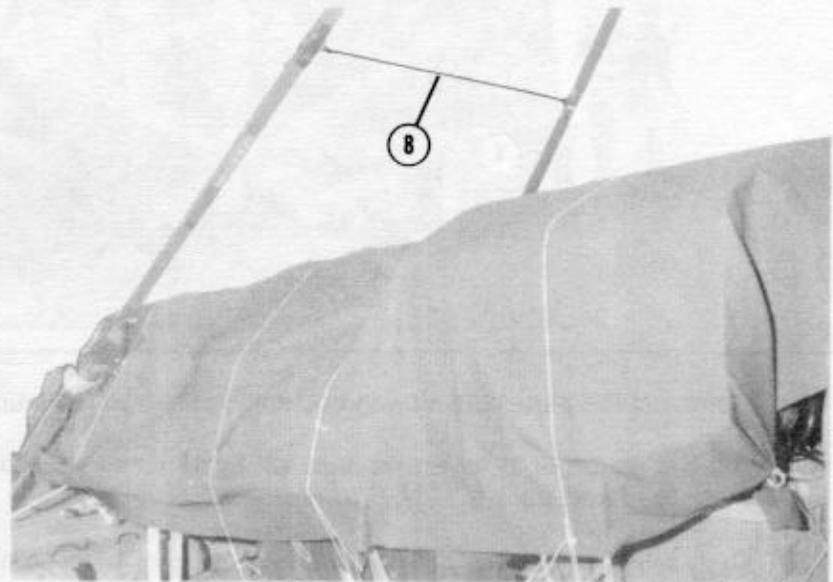
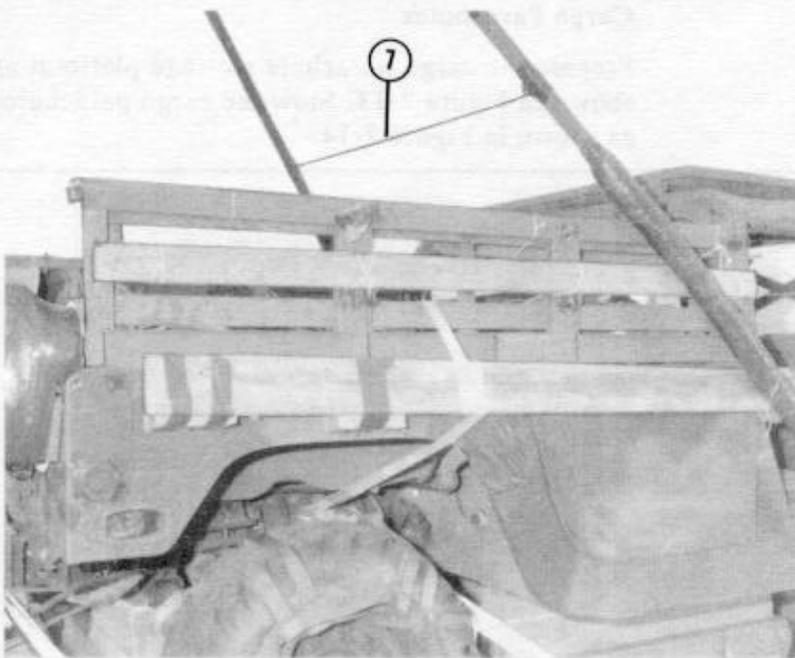
- ③ Wrap each front suspension sling 46 inches from the clevis with a 6- by 55-inch piece of felt, and tape it in place. Safety the front slings to the sideboards with type III nylon cord.
- ④ Cover the howitzer with a 10- by 15-foot piece of cotton duck cloth. Tie the cover to convenient points with type III nylon cord.

Figure 7-12. Howitzer covered, and suspension slings padded and safetied (continued)



- ⑤ Safety tie the large suspension clevises to the truck tailgate with type III nylon cord.
- ⑥ Pad the antenna mount with cellulose wadding and tape it in place.

*Figure 7-12. Howitzer covered, and suspension slings padded and safetied (continued)*

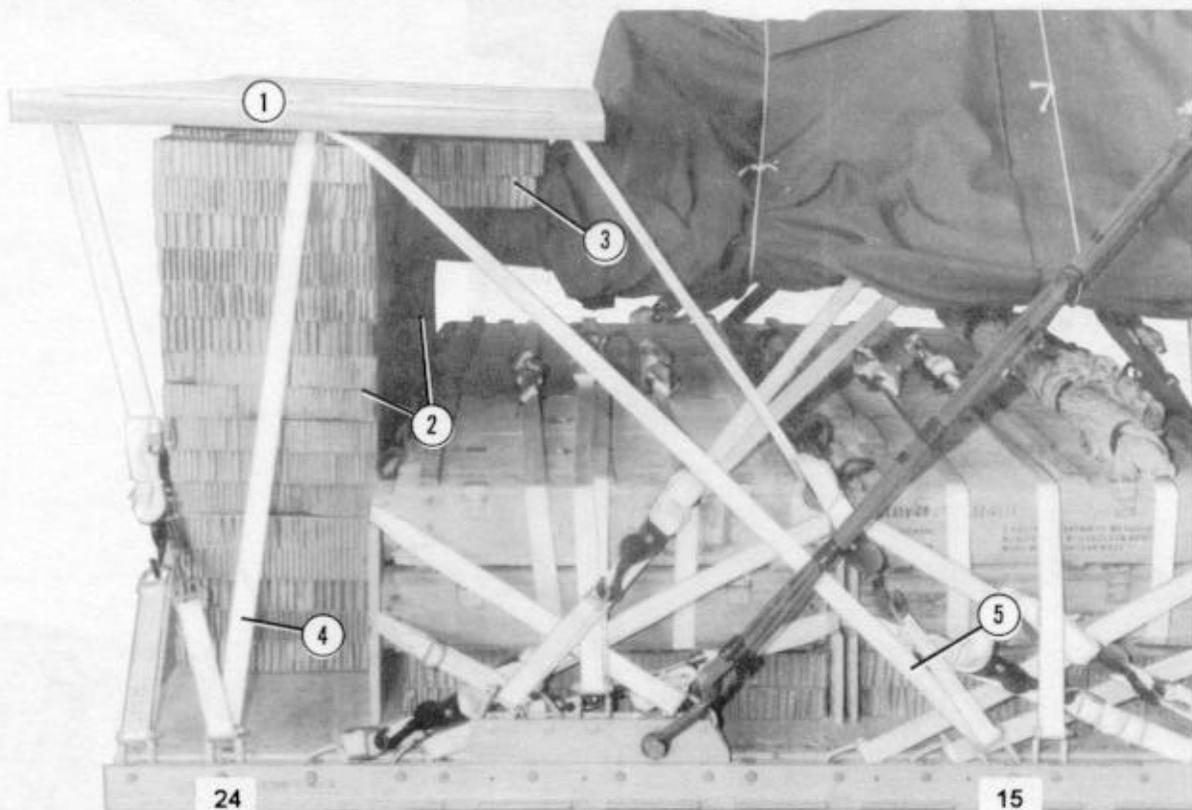


- ⑦ Tie the front slings together 6 to 8 inches above the highest point of the load with a double length of 1/2-inch tubular nylon webbing.
- ⑧ Tie the rear suspension slings together in the same way as in step 7.

*Figure 7-12. Howitzer covered, and suspension slings padded and safetied (continued)*

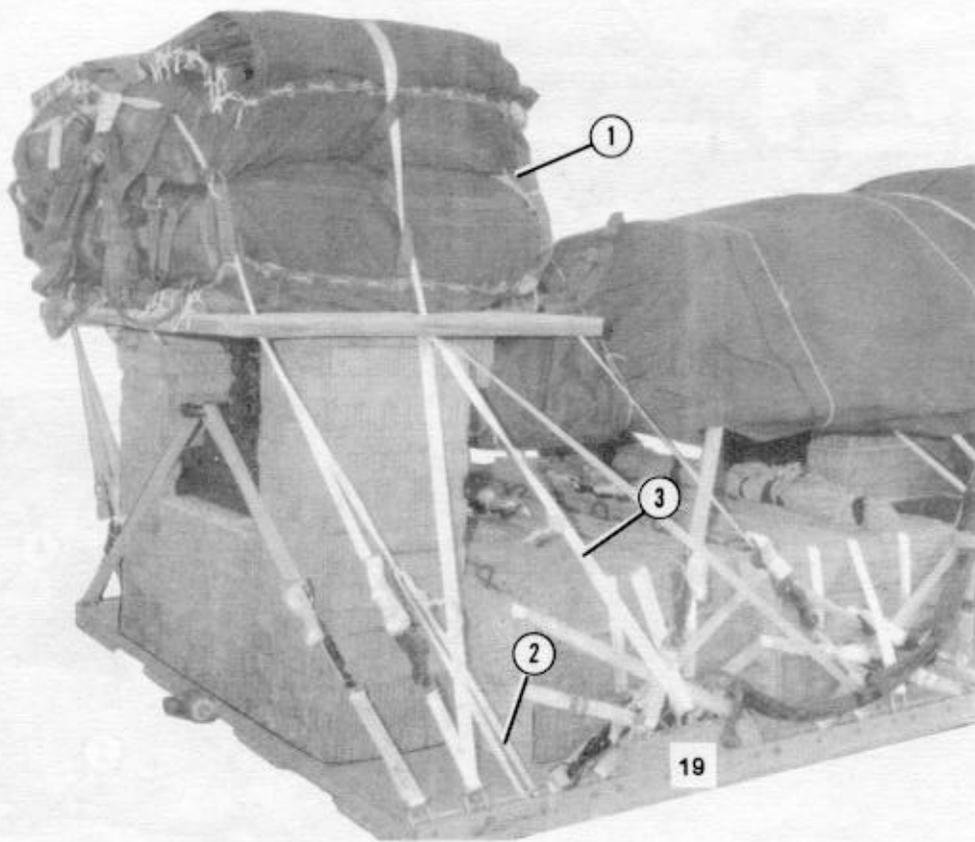
### 7-12. Preparing Stowage Platform and Stowing Cargo Parachutes

Prepare the cargo parachute stowage platform as shown in Figure 7-13. Stow the cargo parachutes as shown in Figure 7-14.



- ① Construct the parachute stowage platform as shown in Figure 5-28.
- ② Set two stacks of 17 layers each of 18- by 18-inch honeycomb flush against the accompanying load and stack 6.
- ③ Center the parachute stowage platform on the honeycomb stacks. Support the front of the stowage platform with three layers of honeycomb cut to fit over the trails and to allow for the lumber portion of the platform.
- ④ Lash the rear two holes in the parachute stowage platform to clevises 24 and 24A.
- ⑤ Lash the front two holes in the parachute stowage platform to clevises 15 and 15A.

Figure 7-13. Stowage platform prepared

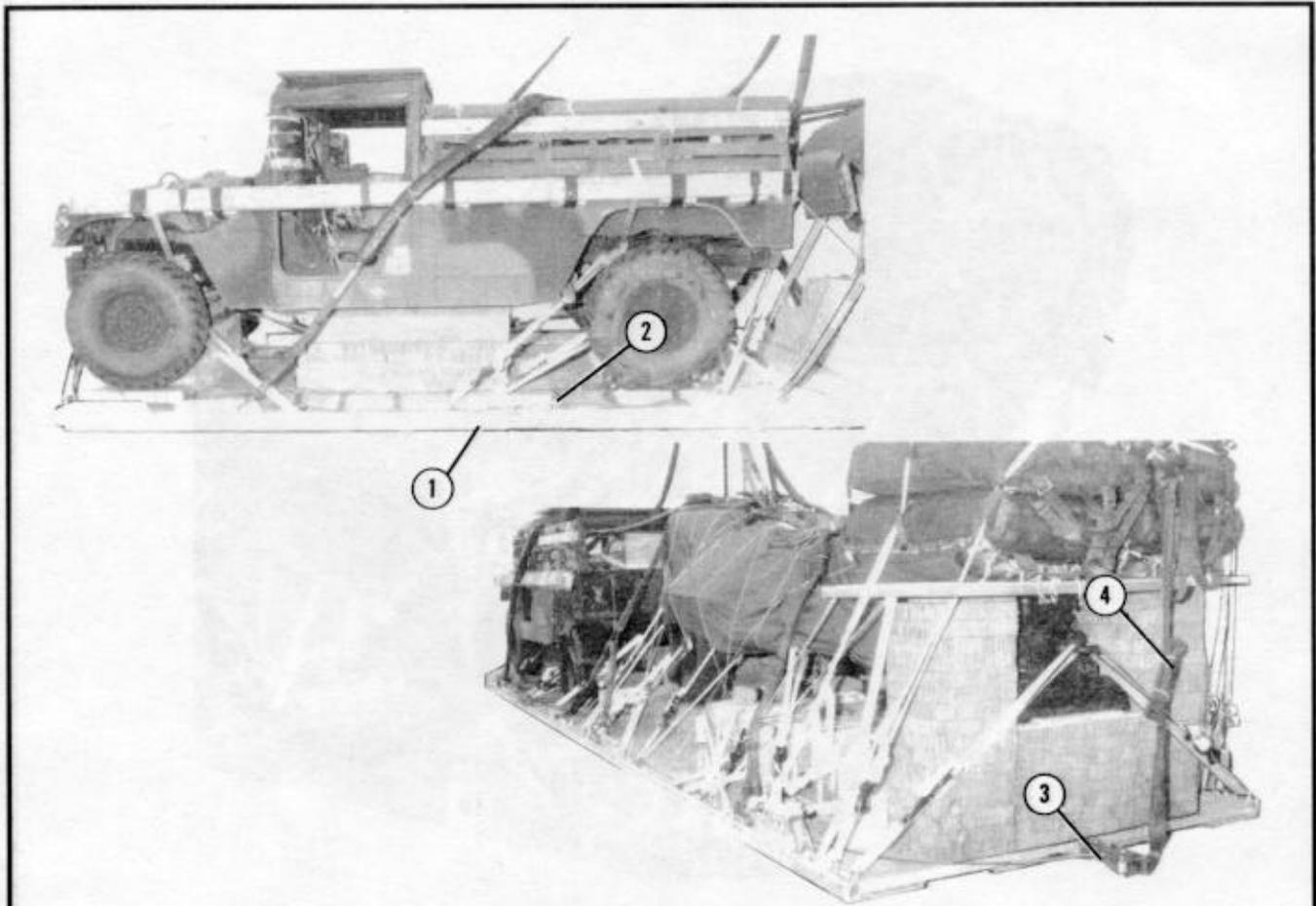


- ① Prepare and install four G-11B cargo parachutes according to FM 10-500-2/TO 13C7-1-5.
- ② Tie the rear parachute restraint strap to bushings 62 and 62A.
- ③ Tie the front parachute restraint strap to clevises 19 and 19A.

Figure 7-14. Cargo parachutes stowed

### 7-13. Installing Extraction System

Install the EFTC extraction system according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-15.

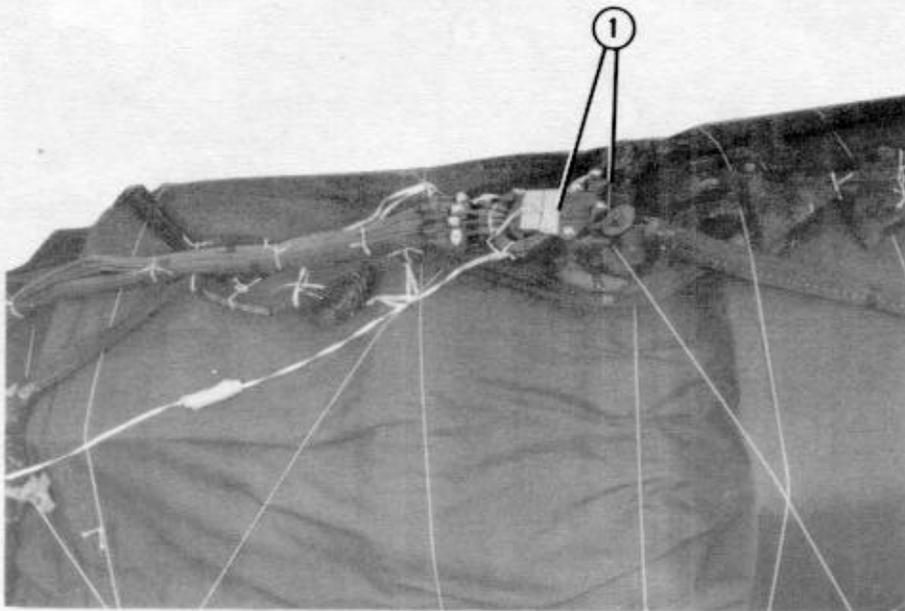


- ① Install the actuator brackets to the front mounting holes on the left platform side rail.
- ② Attach a 28-foot release cable to the actuator. Install the actuator to the brackets and run the cable to the rear.
- ③ Install the latch assembly to the extraction bracket. Attach the release cable to the latch assembly.
- ④ Install a 9-foot (2-loop), type XXVI nylon webbing sling as the deployment line. S-fold the slack and tape or tie the folds.

Figure 7-15. Extraction system installed

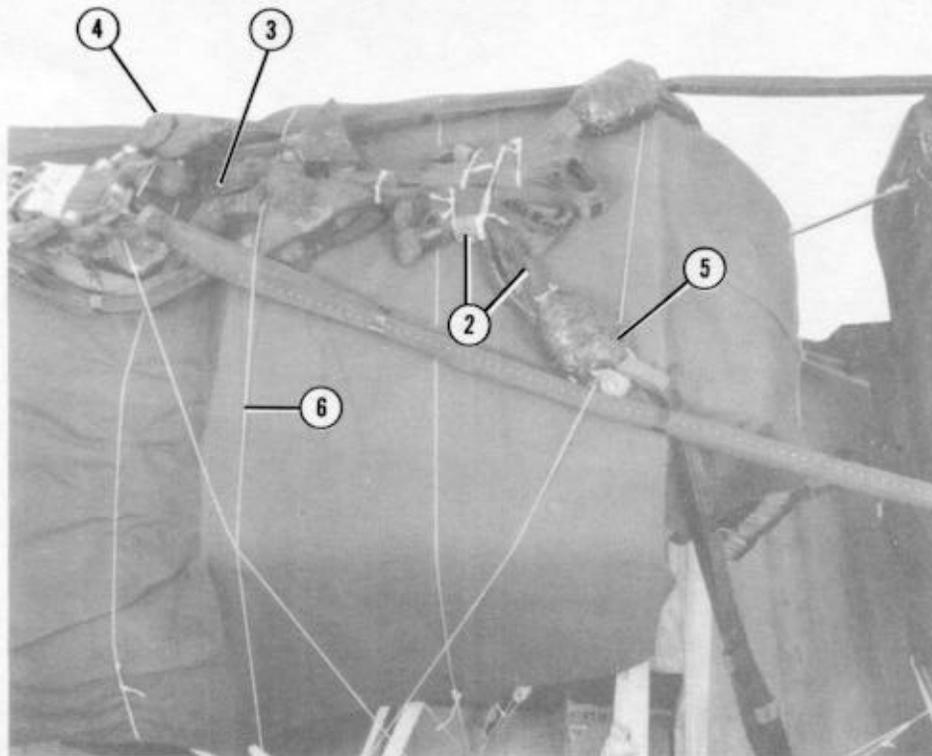
#### 7-14. Installing Release System

Prepare and install an M-2 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-16.



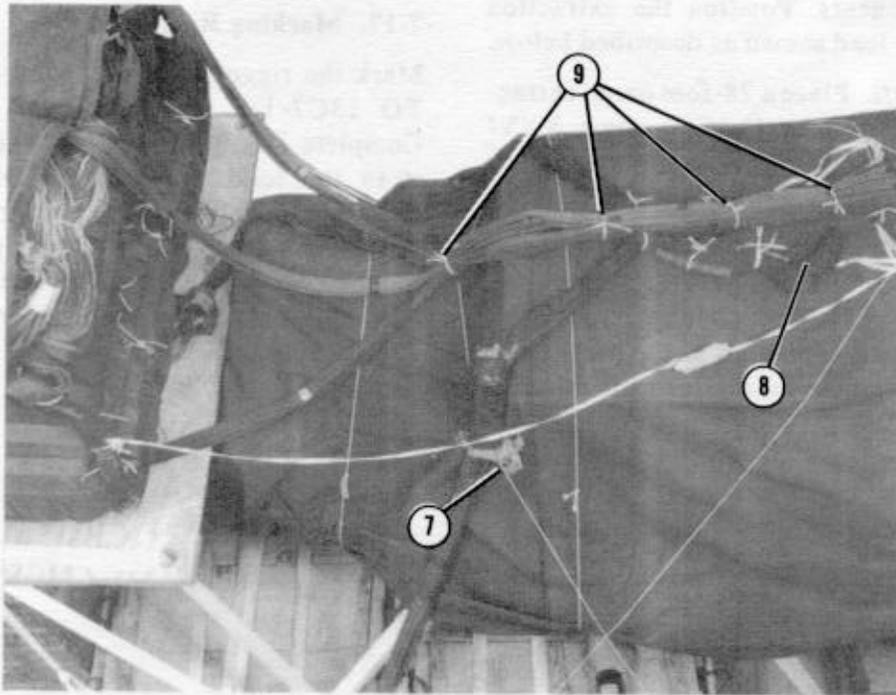
- ① Center the M-2 release assembly on the howitzer load cover. Tie the release to convenient points on the load with type III nylon cord.

Figure 7-16. M-2 release installed



- ② Fold the center suspension slings as shown and tie them with type I, 1/4-inch cotton webbing.
- ③ Attach the 3-foot slings at the top of the three-point links to the lower spools of the release.
- ④ Attach the front suspension slings to the upper spools of the release.
- ⑤ Secure the two-point link assemblies to convenient points on the load with type III nylon cord passed through the taped links.
- ⑥ Secure the three-point links to convenient points on the load with type III nylon cord passed through the end loops of the 3-foot slings.

Figure 7-16. M-2 release installed (continued)



- ⑦ Secure the two-point link assemblies on the rear slings to convenient points on the load with type III nylon cord passed through the links.
- ⑧ S-fold and tie the rear slings with type I, 1/4-inch cotton webbing.
- ⑨ Tie the riser extensions together in several places as shown with type I, 1/4-inch cotton webbing.

Figure 7-16. M-2 release installed (continued)

### 7-15. Installing Provisions for Emergency Restraints

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

### 7-16. Placing Extraction Parachutes

Refer to FM 10-500-2/TO 13C7-1-5 for extraction parachute requirements. Position the extraction parachutes for the load shown as described below.

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

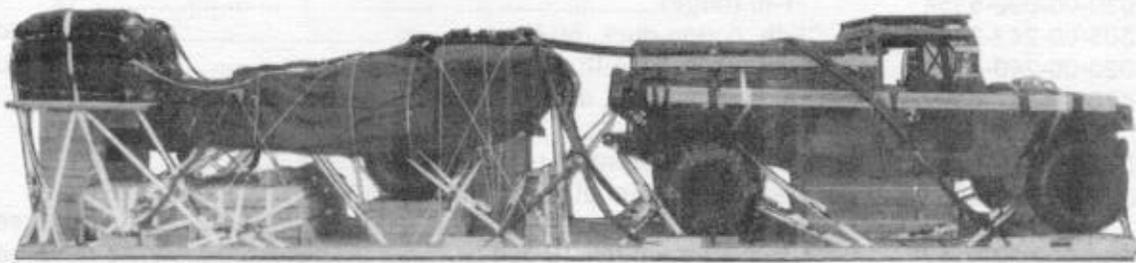
*b. C-141B Aircraft.* Place a 28-foot cargo extraction parachute; a 140-foot (3-loop), type XXVI nylon webbing extraction line; and a two-point, 5 1/2-inch link assembly on the load for installation in the aircraft.

*c. C-5 Aircraft.* Place a 28-foot cargo extraction parachute and a two-point, 5 1/2-inch link assembly on the load for installation in the aircraft. See FM 10-500-2/TO 13C7-1-5 for extraction line requirements.

### 7-17. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-17. Complete DD Form 1387-2, and securely attach it to the load. Indicate on DD Form 1387-2 that the load had been prepared according to AFJMAN 24-240. If the load varies from the one shown, recompute the weight, height, CB, and parachute requirements according to FM 10-500-2/TO 13C7-1-5.

**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: Minimum load allowed .....	20,160 pounds
Maximum load allowed .....	20,600 pounds
Height .....	91 inches
Width .....	108 inches
Length .....	406 inches
Overhang: Front .....	10 inches
Rear .....	12 inches
CB (from front edge of platform) .....	201 inches
Extraction System (shown) .....	EFTC

*Figure 7-17. M119 howitzer with 1 1/4-ton truck and accompanying ammunition rigged for low-velocity airdrop on a type V platform*

**7-18. Equipment Required**

Use the equipment listed in Table 7-1 to rig the load shown.

*Table 7-1. Equipment required for rigging the M119 howitzer with 1 1/4-ton truck and accompanying ammunition for low-velocity airdrop on a type V platform*

National Stock Number	Item	Quantity
1670-00-162-4981	Adapter, coupling, EFTC .....	2
5365-00-405-9293	Spacer .....	(2)
8040-00-273-8713	Adhesive, paste, 1-gal .....	As required
	Clevis, suspension:	
4030-00-678-8562	3/4-in (medium) (emergency restraint) .....	6
4030-00-090-5354	1-in (large) .....	12
8305-00-242-3593	Cloth, cotton duck, 60-in .....	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb .....	As required
1670-00-157-6527	Coupling, airdrop, extraction force transfer w 28-ft cable .....	1
1670-00-360-0329	Cover, link assembly, type IV .....	12
8135-00-664-6958	Cushioning material, packaging, cellulose wadding .....	As required
5365-00-937-0147	D-ring, heavy-duty, 10,000-lb .....	As required
8305-00-958-3685	Felt sheet, 1/2-in .....	As required
1670-01-183-2678	Leaf, extraction line .....	2
	* Line, extraction, type XXVI nylon webbing:	
1670-01-062-6313	60-ft (3-loop) or .....	1
1670-01-107-7651	140-ft (3-loop) .....	1
	Link assembly:	
	Two-point, 3 3/4-inch .....	2
5306-00-435-8994	Bolt, 1-in diam, 4 in long .....	(4)
5310-00-232-5165	Nut, 1-in .....	(4)
5310-00-003-1953	Plate, side, 3 3/4-in .....	(4)
5365-00-007-3414	Spacer, large .....	(4)
	Two-point, 5 1/2-in: .....	3
5306-00-435-8994	Bolt, 1-in diam, 4 in long .....	(6)
5310-00-232-5165	Nut, 1-in .....	(6)
1670-00-003-1954	Plate, side, 5 1/2-in .....	(6)
5365-00-007-3414	Spacer, large .....	(6)
1670-00-783-5988	Type IV .....	12
	Lumber:	
5510-00-220-6146	2- by 4-in .....	As required
5510-00-220-6148	2- by 6-in .....	As required
5510-00-220-6246	2- by 8-in .....	As required
	Nail, steel wire, common:	
5315-00-010-4659	8d .....	As required
5315-00-164-5121	20d .....	As required

Table 7-1. Equipment required for rigging the M119 howitzer with 1 1/4-ton truck and accompanying ammunition for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in: .....	29 sheets
	6- by 10-in .....	(10)
	6- by 24-in .....	(2)
	8- by 24-in .....	(2)
	8- by 54-in .....	(6)
	10- by 10-in .....	(5)
	12- by 8-in .....	(1)
	12- by 12-in .....	(1)
	12- by 18-in .....	(1)
	12- by 22-in .....	(8)
	12- by 36-in .....	(3)
	12- by 42-in .....	(1)
	12- by 45-in .....	(1)
	12- by 54-in .....	(4)
	12- by 90-in .....	(2)
	15- by 36-in .....	(5)
	18- by 18-in .....	(34)
	18- by 36-in .....	(3)
	20- by 6-in .....	(8)
	20- by 24-in .....	(2)
	24- by 30-in .....	(1)
	25- by 30-in .....	(1)
	25- by 36-in .....	(5)
	30- by 10-in .....	(1)
	30- by 16-in .....	(8)
	30- by 20-in .....	(13)
	36- by 30-in .....	(1)
	36- by 36-in .....	(1)
	42- by 10-in .....	(2)
	54- by 24-in .....	(8)
	72- by 36-in .....	(5)
	80- by 24-in .....	(2)
	84- by 36-in .....	(4)
	96- by 36-in .....	(2)
1670-01-016-7841	Parachute, cargo, G-11B .....	4
	Parachute, cargo extraction:	
1670-01-063-3715	15-ft .....	1
1670-00-040-8135	28-ft .....	1
	Platform, AD, type V, 32-ft: .....	1
	Bracket:	
1670-01-162-2375	Inside EFTA .....	(1)
1670-01-162-2374	Outside EFTA .....	(1)

Table 7-1. Equipment required for rigging the M119 howitzer with 1 1/4-ton truck and accompanying ammunition for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
1670-01-162-2385	Bumper, nose .....	(1)
1670-01-162-2372	Clevis assembly (type V) .....	(50)
1670-01-247-2389	Suspension link .....	(4)
1670-01-162-2381	Tandem link (multi-purpose) .....	(2)
	Plywood:	
5530-00-129-7777	1/2-in .....	As required
5530-00-128-4981	3/4-in .....	As required
1670-01-097-8817	Release, cargo parachute, M-2 .....	1
	Sling, cargo airdrop, type XXVI nylon webbing:	
	For deployment line:	
1670-01-062-6304	9-ft (2-loop) .....	1
	For lifting:	
1670-01-062-6304	9-ft (2-loop) .....	2
1670-01-063-7760	11-ft (2-loop) .....	4
1670-01-062-6303	12-ft (2-loop) .....	2
	For riser extension:	
1670-01-062-6311	120-ft (2-loop) .....	4
	For suspension:	
1670-01-062-6306	3-ft (4-loop) .....	6
1670-01-062-6304	9-ft (2-loop) .....	2
1670-01-063-7760	11-ft (2-loop) .....	4
1670-01-062-6310	11-ft (4-loop) .....	2
1670-01-064-4453	20-ft (4-loop) .....	2
1670-00-040-8219	Strap, parachute release, multicut (comes w 3 knives) .....	2
1670-00-368-7486	Strap, webbing, nylon (shear strap) .....	1
7510-00-266-5016	Tape, PSA, cloth back, 2-in .....	As required
1670-00-937-0271	Tie-down assembly, 15-ft .....	77
1670-00-431-8486	Universal drive-off aid .....	1
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type I .....	As required
	Nylon:	
	Tubular:	
8305-00-082-5752	1/2-in, natural .....	As required
8305-00-268-2455	1-in, natural .....	As required
8305-00-263-3591	Type VIII .....	As required

\* Both extraction lines may be needed for C-5 aircraft.