

## CHAPTER 3

# RIGGING ARMAMENT CARRIERS FOR LOW-VELOCITY AIRDROP

## SECTION I - RIGGING CARRIERS ON A 16-FOOT PLATFORM

### DESCRIPTION OF LOAD

3-1. The unrigged M1025 armament carrier (Figure 3-1) is described in Chapter 1. The truck is rigged on a 16-foot type V platform for low-velocity airdrop. An accompanying load weighing a minimum of 800 pounds and a maximum of 2,000 pounds must be rigged in the truck. The load requires two G-11 cargo parachutes.

The following trucks can be rigged using the procedures given in this chapter:

M1025A1, M1025A2, and M1025A2 modified

M1026, M1026 (modified) and M1026A1

M966 and M966A1

M1036

M1043, M1043A1, and M1043A2

M1044 and M1044A1

M1045, M1045A1, and M1045A2

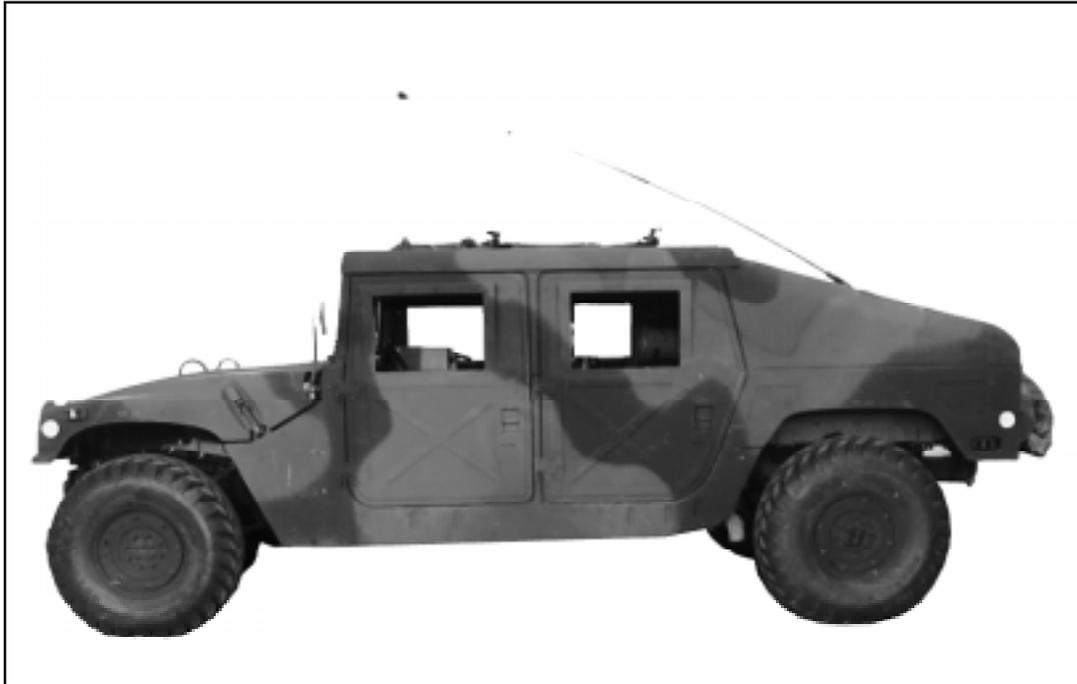
M1046 and M1046A1

M1121

### PREPARING PLATFORM

3-2. Prepare a 16-foot, type V airdrop platform using four tandem links and 18 load tie-down clevises as shown in Figure 2-2.

- 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.



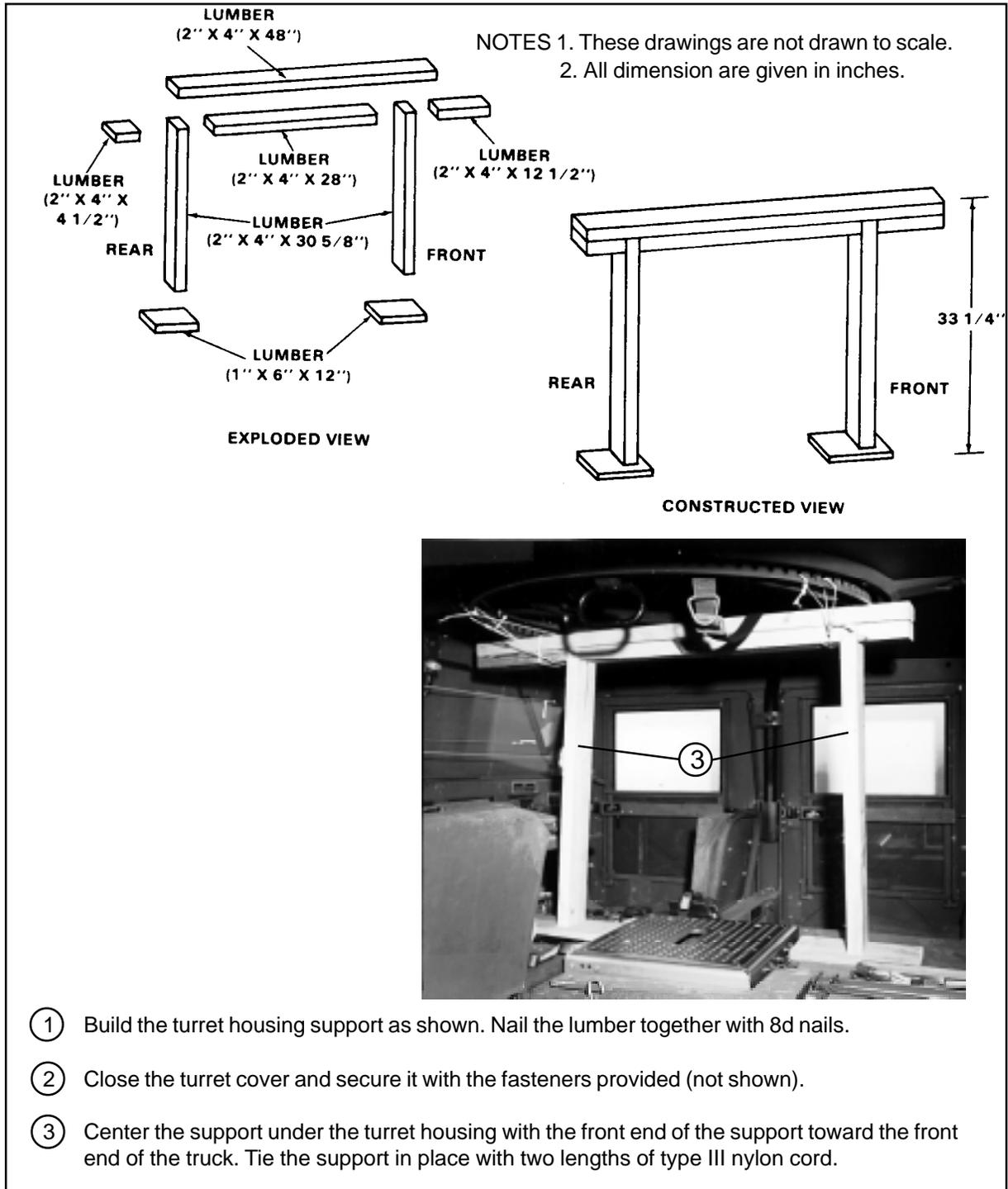
**Figure 3-1. M1025 Armament Carrier**

### **PREPARING AND POSITIONING HONEYCOMB STACKS**

3-3. Prepare three honeycomb stacks as shown in Figures 2-3 and 2-4. Position the stacks on the platform as shown in Figure 2-5, and according to FM 4-20.102/TO 13C7-1-5.

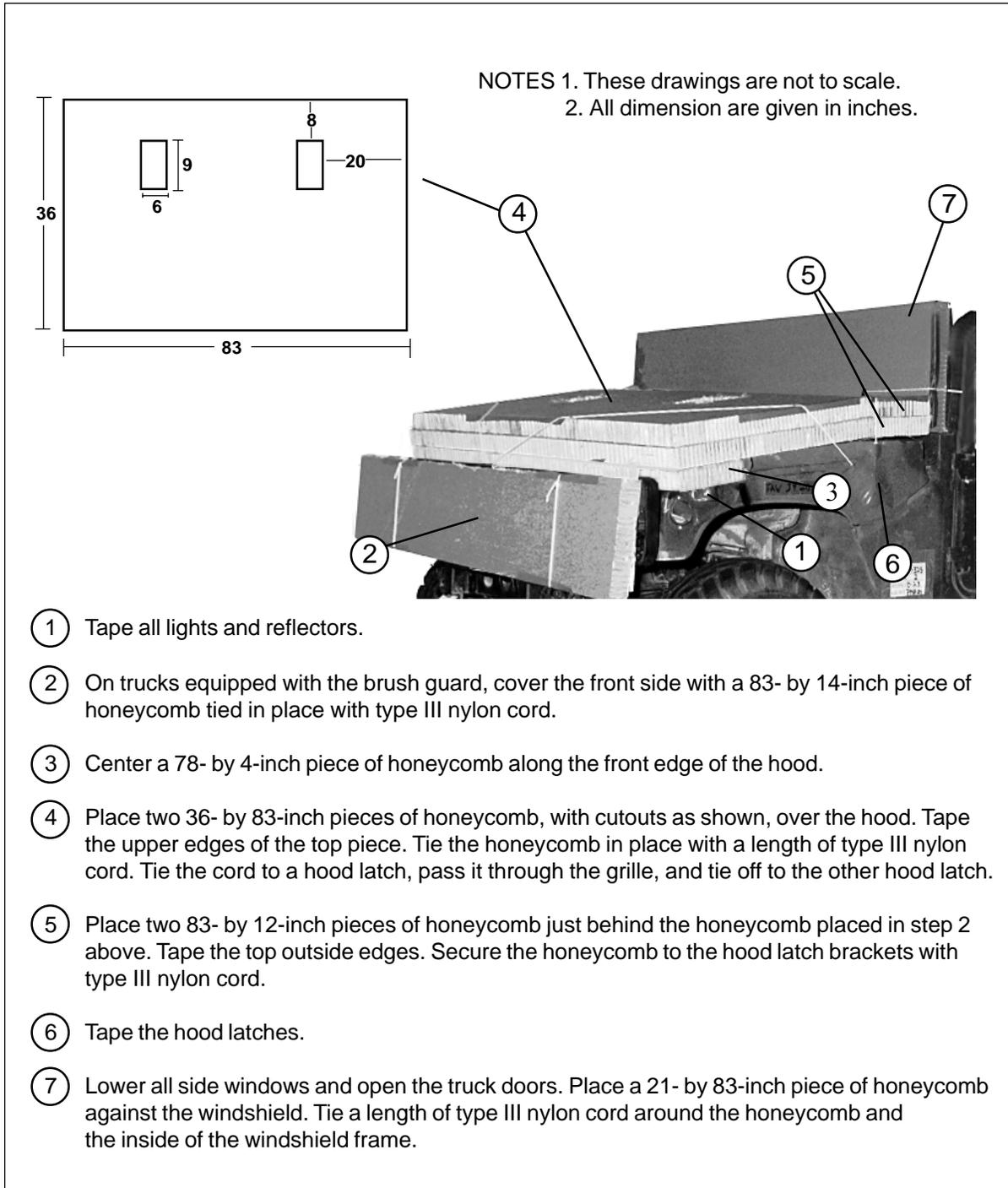
### **PREPARING TRUCK**

3-4. Prepare the truck as described in paragraphs 2-4a through e, g, and h, and as shown in Figures 2-6 and 2-7, 2-8 (omit steps 1 and 3), 2-9, 2-11, and 2-12. Further prepare the closed-body HMMWV as shown in Figures 3-2 and 3-3.

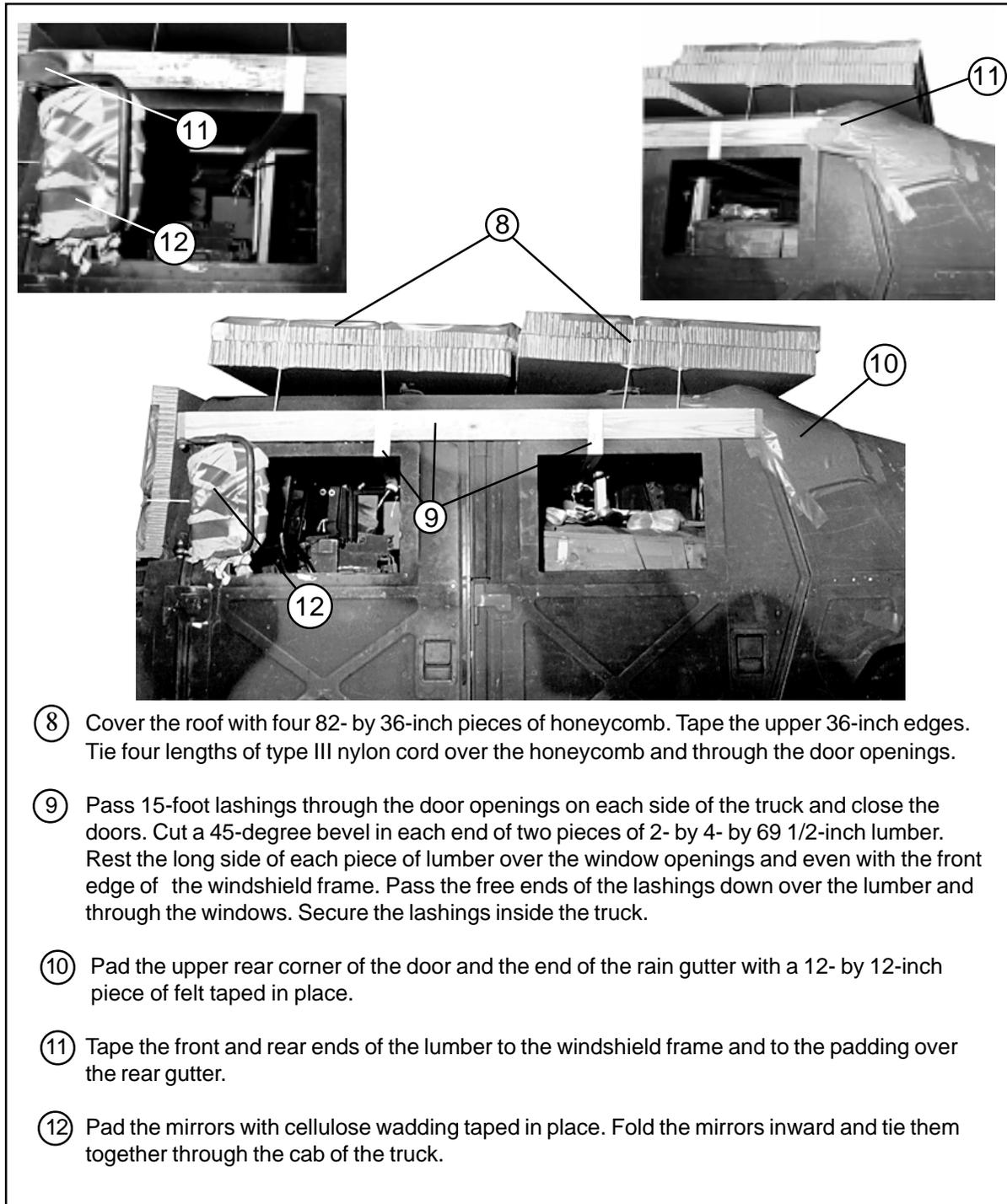


- ① Build the turret housing support as shown. Nail the lumber together with 8d nails.
- ② Close the turret cover and secure it with the fasteners provided (not shown).
- ③ Center the support under the turret housing with the front end of the support toward the front end of the truck. Tie the support in place with two lengths of type III nylon cord.

Figure 3-2. Turret Support Built and Placed



**Figure 3-3. Truck Body Prepared**



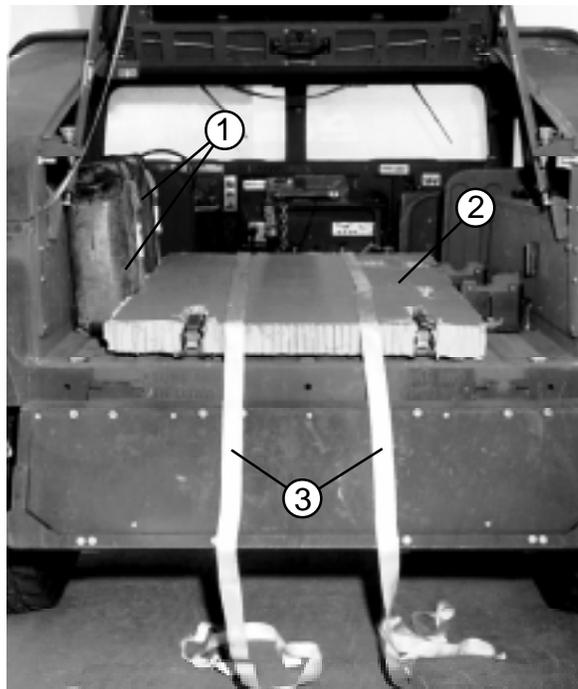
**Figure 3-3. Truck Body Prepared (continued)**

## STOWING ACCOMPANYING LOAD

3-5. Stow an accompanying load of 800 to 2,000 pounds in the cargo area of the truck. Use or adapt the procedures shown in Figure 3-4. Make sure the accompanying load complies with the restrictions outlined in FM 4-20.102/TO 13C7-1-5. The maximum restraint capacity of each cargo area tie-down ring is 2,000 pounds. The accompanying load of ammunition shown in Figure 3-4 weighs 930 pounds.

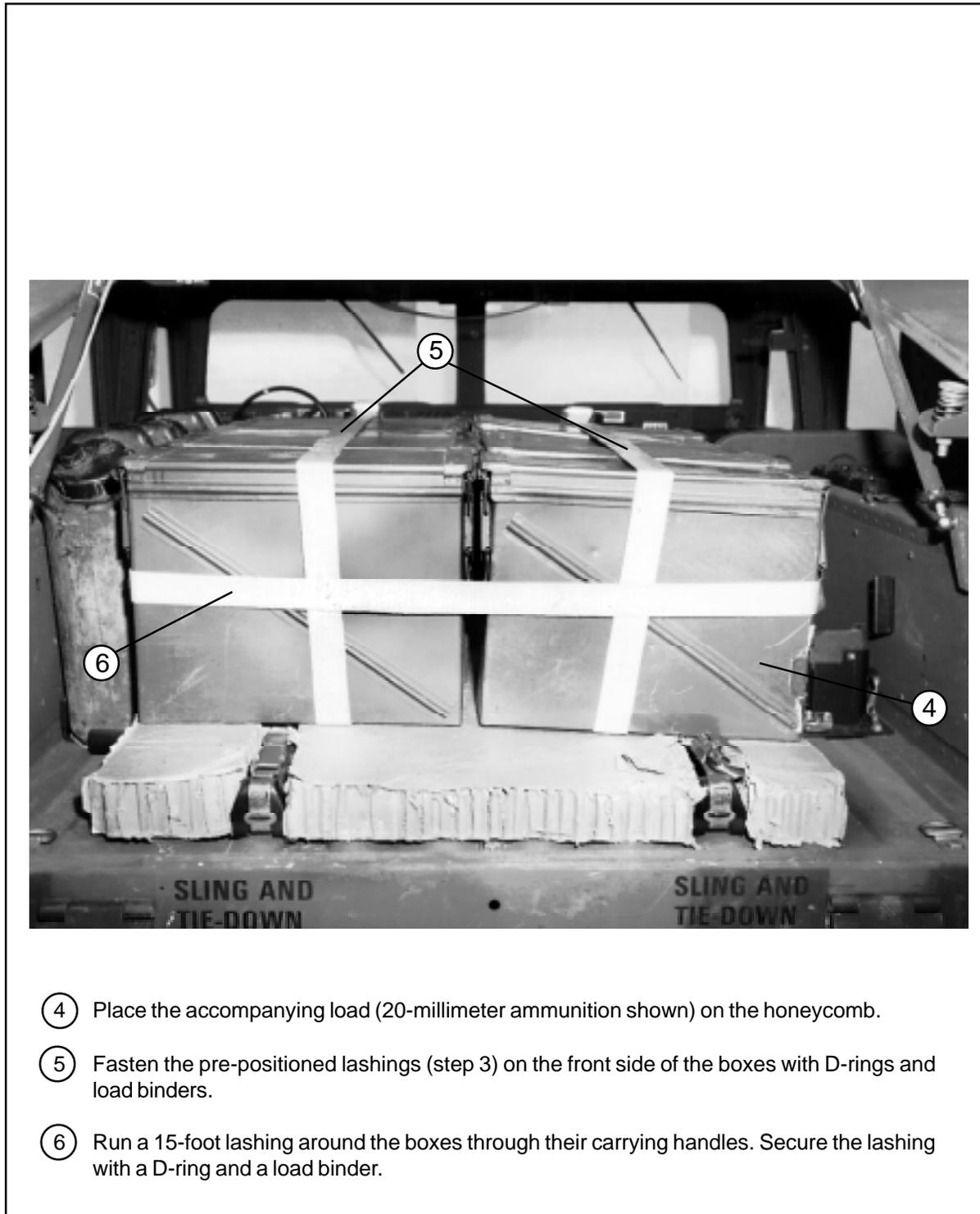
### CAUTION

Only ammunition listed in FM 10-500-53/MCRP 4-3.81/TO 13C7-18-41 may be airdropped. Package, mark, and label hazardous material according to AFJMAN 24-204/TM 38-250.

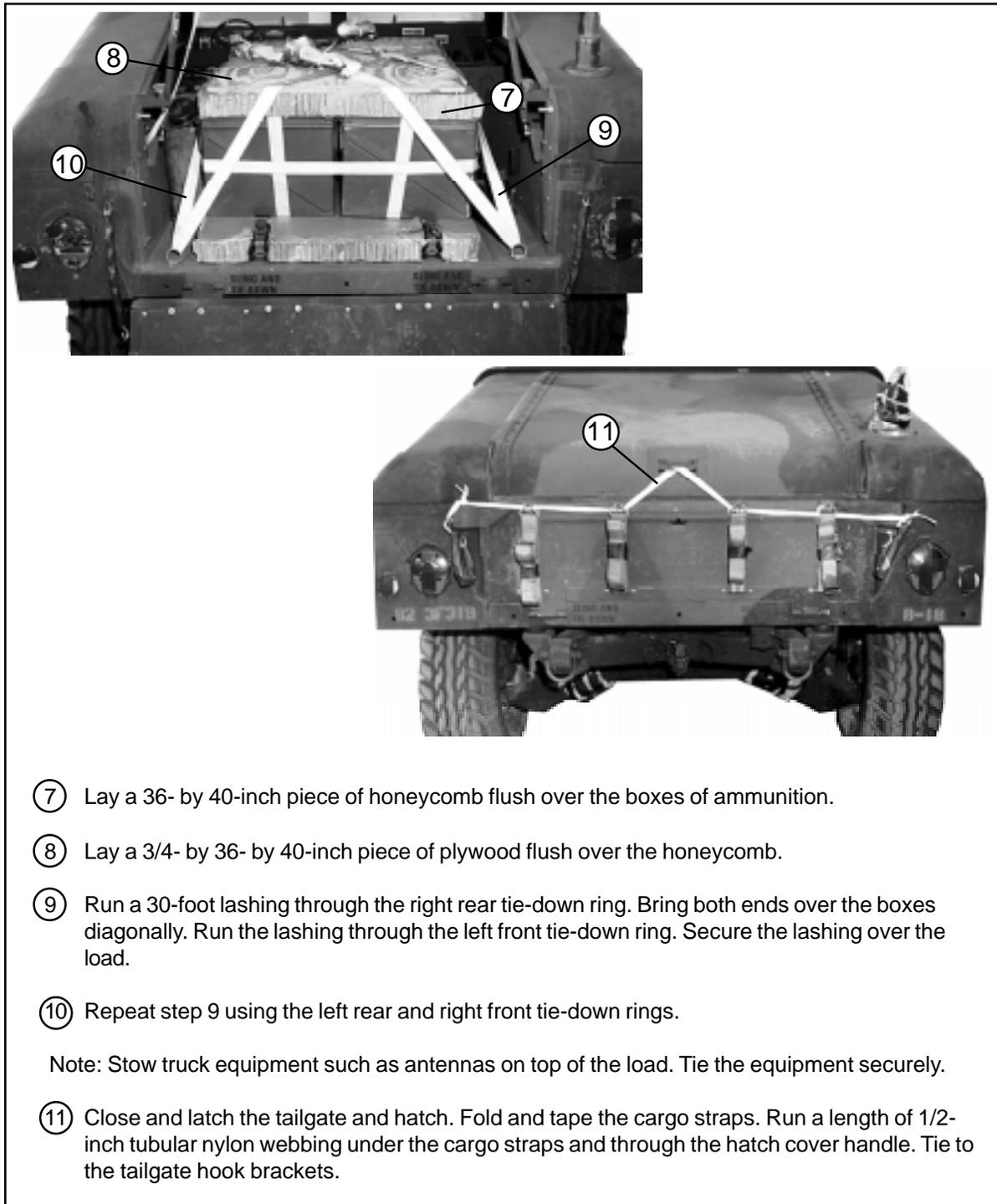


- ① Stow two water cans in their holders, and secure them with the straps provided.
- ② Lay a 36- by 50-inch piece of honeycomb in the cargo area. Make cutouts in the honeycomb for fixtures on the floor.
- ③ Lay two 15-foot lashings lengthwise on the honeycomb.

**Figure 3-4. Accompanying load stowed in truck**



**Figure 3-4. Accompanying Load Stowed in Truck (continued)**



- ⑦ Lay a 36- by 40-inch piece of honeycomb flush over the boxes of ammunition.
- ⑧ Lay a 3/4- by 36- by 40-inch piece of plywood flush over the honeycomb.
- ⑨ Run a 30-foot lashing through the right rear tie-down ring. Bring both ends over the boxes diagonally. Run the lashing through the left front tie-down ring. Secure the lashing over the load.
- ⑩ Repeat step 9 using the left rear and right front tie-down rings.

Note: Stow truck equipment such as antennas on top of the load. Tie the equipment securely.

- ⑪ Close and latch the tailgate and hatch. Fold and tape the cargo straps. Run a length of 1/2-inch tubular nylon webbing under the cargo straps and through the hatch cover handle. Tie to the tailgate hook brackets.

**Figure 3-4. Accompanying Load Stowed in Truck (continued)**

### **LIFTING AND POSITIONING TRUCK AND INSTALLING OPTIONAL DRIVE-OFF AIDS**

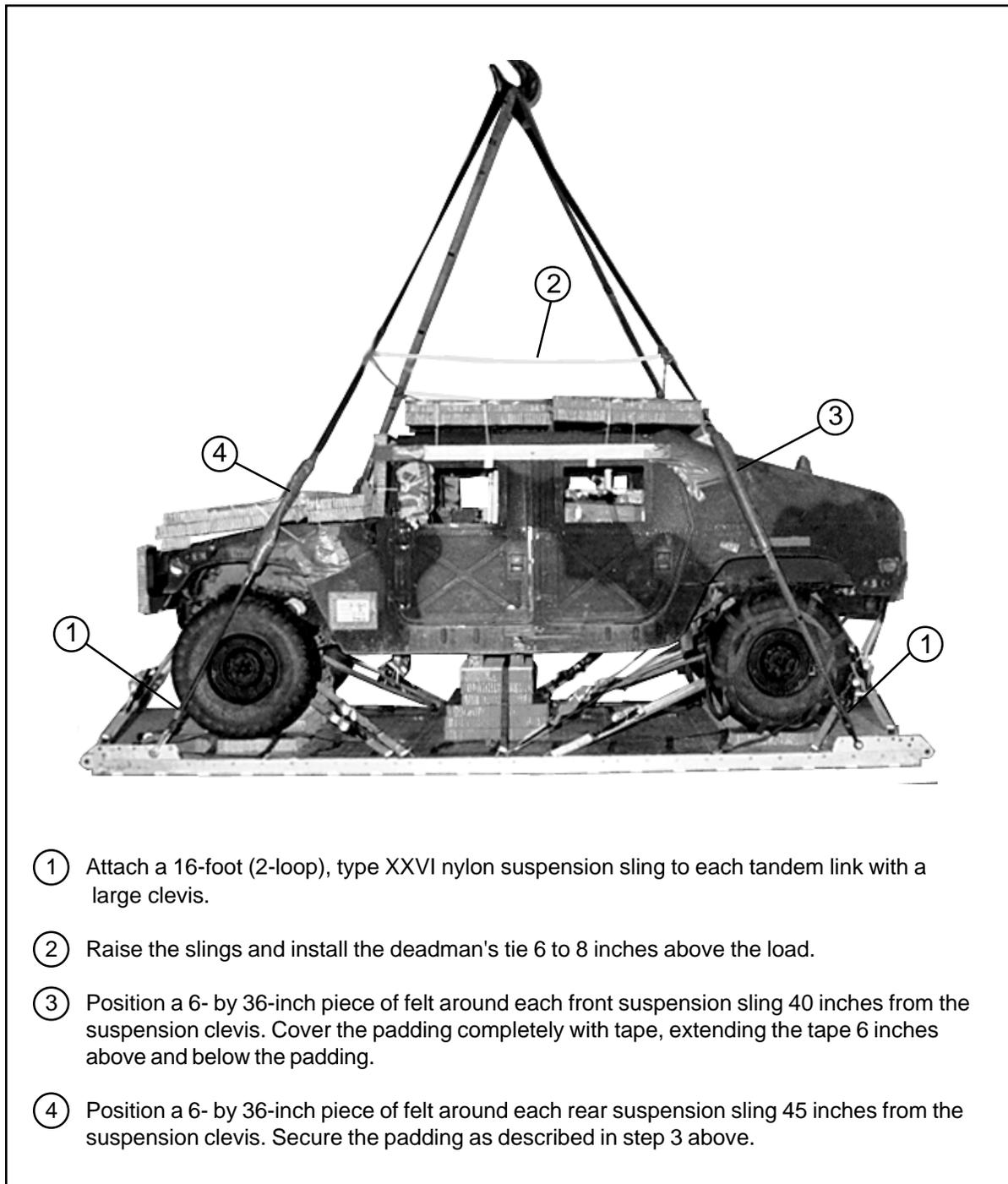
3-6. Install the optional drive-off aids on the platform as shown in Figure 2-16. Install lifting slings on the truck and position the truck on the platform as shown in Figure 2-16. Attach the driveoff aids to the wheels as shown in Figure 2-17.

### **LASHING TRUCK**

3-7. Lash the truck to the platform with fifteen 15-foot tie-down assemblies. Install the lashings according to FM 4-20.102/TO 13C7-1-5, and as shown in Figures 2-18 and 2-19.

### **INSTALLING AND SAFETY TYING SUSPENSION SLINGS**

3-8. Install and safety tie four 16-foot (2-loop), type XXVI nylon suspension slings according to FM 4-20.102/TO 13C7-1-5, and as shown in Figure 3-5.



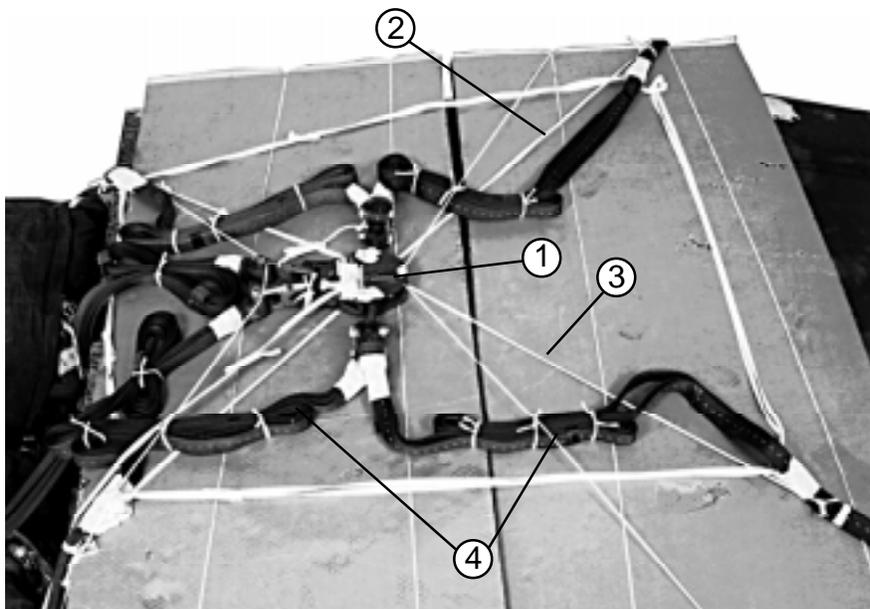
**Figure 3-5. Suspension Slings Installed, Padded and Safety Tied**

## STOWING CARGO PARACHUTES

3-9. Use two G-11 cargo parachutes on this load. Stow the cargo parachutes according to FM 4-20.102/TO 13C7-1-5, and as shown in Figure 2-21.

## INSTALLING PARACHUTE RELEASE

3-10. Prepare and install an M-1 cargo parachute release according to FM 4-20.102/TO 13C7-1-5, and as shown in Figure 3-6.



- ① Place the M-1 release on the honeycomb in front of the parachutes. Tie the release to convenient points on the load.
- ② Tie a length of Type I, 1/4-inch cotton webbing to the right rear suspension sling below the deadman's tie. Bring the webbing diagonally over the load to the left front. Pull it taut, and tie it to the left front sling below the deadman's tie.
- ③ Tie the left rear and right front suspension slings together in the same way as outlined in step 2 above.
- ④ S-fold the slack in the suspension slings, and tie the folds with Type I, 1/4-inch cotton webbing. Attach the suspension slings and the riser extensions to the release.

**Figure 3-6. M-1 Cargo Parachute Release Installed**

### **INSTALLING EXTRACTION SYSTEM**

3-11. Install the EFTC extraction system with a 16-foot release cable according to FM 4-20.102/TO 13C7-1-5, and as shown in Figure 2-23.

### **INSTALLING PROVISIONS FOR EMERGENCY RESTRAINTS**

3-12. Install the provisions for emergency restraints on the load according to FM 4-20.102/TO 13C7-1-5.

### **PLACING EXTRACTION PARACHUTE**

3-13. Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 4-20.102/TO 13C7-1-5. Rig the extraction line in an extraction line bag according to TM 10-1670-286-20/TO 13C5-2-41. Place the extraction parachute and extraction line on the load for installation in the aircraft.

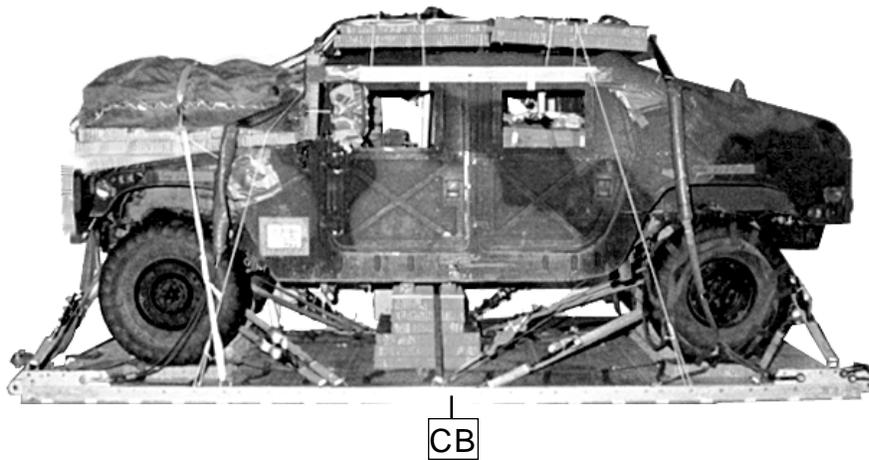
### **MARKING RIGGED LOAD**

3-14. Mark the rigged load according to FM 4-20.102/TO 13C7-1-5, and as shown in Figure 3-7. Complete Shipper's Declaration for Dangerous Goods 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.

### **EQUIPMENT REQUIRED**

3-15. Use the equipment listed in Table 3-1 to rig this load. The equipment for rigging the accompanying load is NOT given in Table 3-1.

**CAUTION**  
**Make the final rigger inspection required by FM 4-20.102/  
 TO 13C7-1-5 before the load leaves the rigging site.**



**RIGGED LOAD DATA**

Weight: Load shown .....	9,820 pounds
Maximum load allowed .....	10,500 pounds
Height (with two G-11 parachutes) .....	91 inches
Width.....	108 inches
Length (overall) .....	215 inches
Overhang: Front .....	0 inches
Rear (EFTC).....	18 inches
CB (from front edge of platform) .....	96 inches

**Figure 3-7. M1025 Armament Carrier Rigged for Low-Velocity Airdrop  
 on a 16-Foot Platform**

**Table 3-1. Equipment Required for Rigging Armament Carrier on a 16-Foot Platform**

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
4030-00-090-5354	Clevis, suspension, 1-in (large)	5
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5785	Coupling assembly, airdrop, extraction force transfer with cable, 16-ft	1
1670-00-360-0328	Cover: Clevis, large	1
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
1670-01-064-4452	Line, drogue (for C-17) 60-ft (1-loop), type XXVI	1
1670-01-062-6313	Line, extraction: For C-130: 60-ft (3-loop), type XXVI	1
1670-01-107-7651	For C-141: 140-ft (3-loop), type XXVI	1
1670-01-062-6313	For C-5: 60-ft, (3-loop), type XXVI and	1
1670-01-107-7651	140-ft (3-loop), type XXVI	1
1670-01-107-7651	For C-17: 140-ft (3-loop), type XXVI	1
5306-00-435-8994	Link Assembly: Two-point:	1 (2)
5310-00-232-5165	Bolt, 1-in diam, 4-in long	(2)
1670-00-003-1953	Nut, 1-in, hexagonal	(2)
5365-00-007-3414	Plate, side, 3 3/4-in Spacer, large	(2) (2)
5510-00-220-6146	Lumber: 2- by 4-in	As required
5510-00-220-6448	2- by 6-in	As required
5510-00-220-6274	4- by 4-in	As required
5315-00-010-4659	Nail, steel wire, 8d	As required

**Table 3-1. Equipment Required for Rigging Armament Carrier on a 16-Foot Platform (continued)**

National Stock Number	Item	Quantity
1670-00-753-3928	Pad, energy-dissipating (honeycomb) 3- by 36- by 96-in	13 sheets
1670-01-016-7841	Parachute: Cargo: G-11B	2
1670-01-063-3716	Cargo extraction: 22-ft (Use with H-block for C-17.)	1
1670-01-063-3715	Drogue (for C-17) 15-ft	1
1670-01-353-8425	Platform, airdrop, type V, 16-ft Bracket assembly, coupling	(1)
1670-01-162-2372	Clevis assembly, type V	(20)
1670-01-162-2376	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link assembly (Multipurpose link)	(4)
5530-00-128-4981	Plywood, 3/4-in	3 sheets
1670-01-097-8816	Release, cargo parachute, M-1	1
1670-01-063-7761	Sling, cargo, airdrop For suspension: 16-ft (2-loop), type XXVI nylon webbing	4
1670-01-062-6304	For lifting: 9-ft (2-loop), type XXVI nylon webbing	2
1670-01-062-6303	12-ft (2-loop), type XXVI nylon webbing	2
1670-01-062-6304	For deployment: 9-ft (2-loop), type XXVI nylon webbing	1
1670-01-062-6302	For riser extension: 20-ft (2-loop), type XXVI nylon webbing	2
5340-00-040-8219	Strap, parachute release, multi-cut, comes w/ 3 knives	2
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-foot	21
1670-01-344-0825	Vehicle drive-off aid	1
8305-00-268-2411	Webbing: Cotton, 1/4-in, type I	As required
8305-00-082-5752		As required
8305-00-263-3591		As required