

CHAPTER 7

RIGGING M113 ARMORED PERSONNEL CARRIER ON A 20-FOOT, TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP**7-1. Description of Load**

The M113, armored personnel carrier (Figure 7-1) is rigged on a 20-foot, type V airdrop platform with five G-11C cargo parachutes and other items of airdrop equipment. The carrier weighs 19,180 pounds with an accompanying load weighing a maximum of 1,890 pounds. The height of the vehicle is 91 inches. The width of the vehicle is 105 inches, and the length is 191 inches. This carrier may be delivered by low-velocity airdrop from the C-130, C-141, C-5 and C-17 aircraft.

7-2. Preparing Platform

Prepare a 20-foot, type V platform as shown in Figure 7-2.

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.

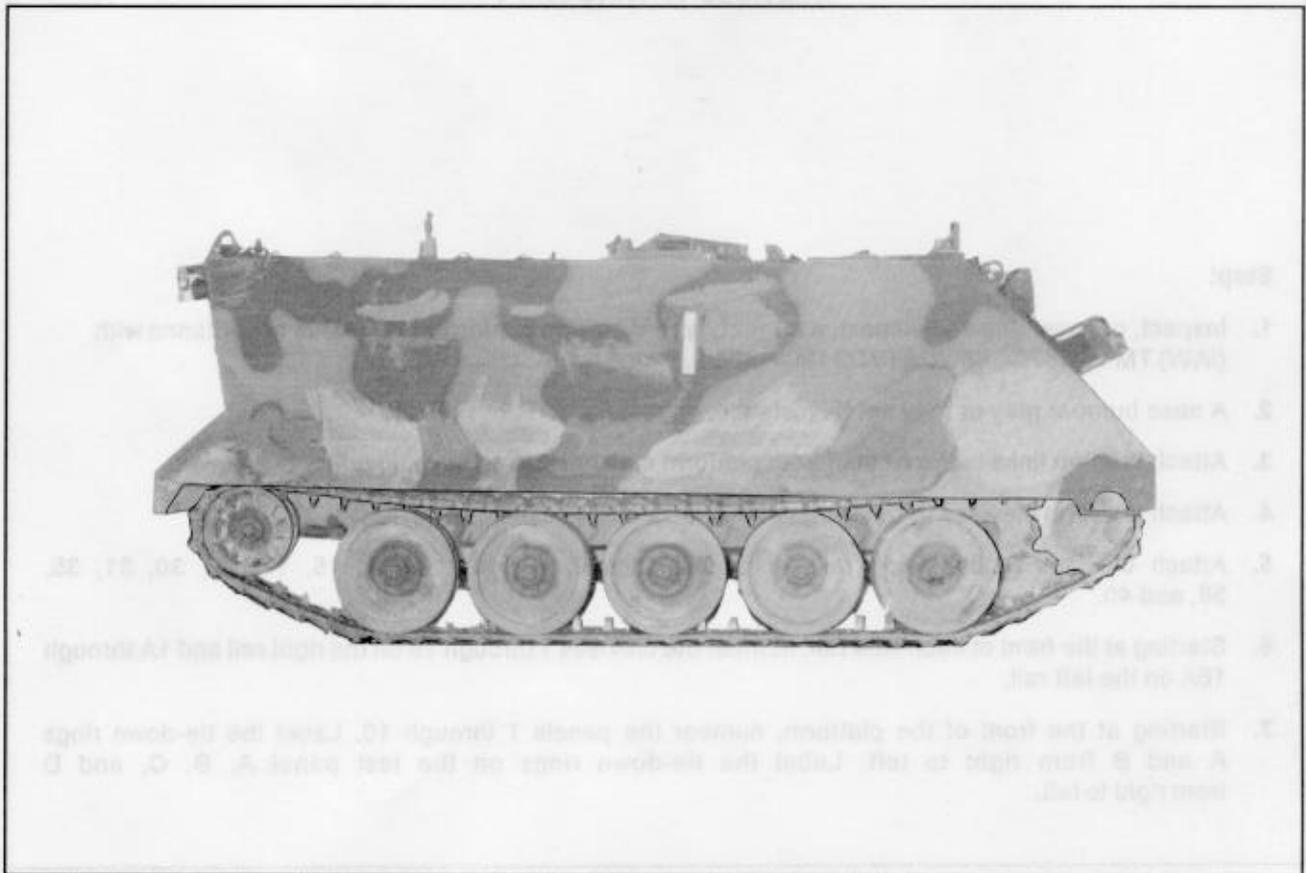
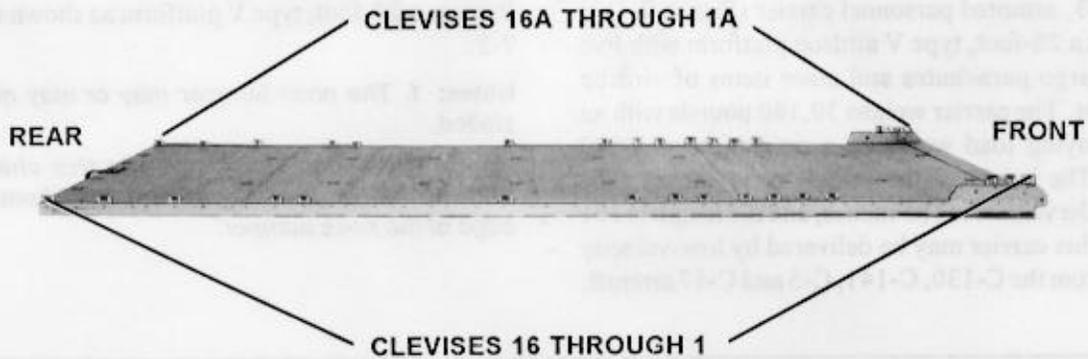


Figure 7-1. M113 armored personnel carrier



Step:

1. Inspect, or assemble and inspect, a 20-foot, type V airdrop platform for LVAD in accordance with (IAW) TM 10-1670-268-20 & P/TO 13C7-52-22.
2. A nose bumper may or may not be installed.
3. Attach tandem links to the front of both platform side rails using bushing holes 1, 2, and 3.
4. Attach platform clevises to the front tandem links using bushings 1, 2, and 3.
5. Attach clevises to both side rails using bushings 9, 10, 11, 12, 14, 15, 17, 22, 30, 31, 35, 38, and 40.
6. Starting at the front of each side rail, number the clevises 1 through 16 on the right rail and 1A through 16A on the left rail.
7. Starting at the front of the platform, number the panels 1 through 10. Label the tie-down rings A and B from right to left. Label the tie-down rings on the last panel A, B, C, and D from right to left.

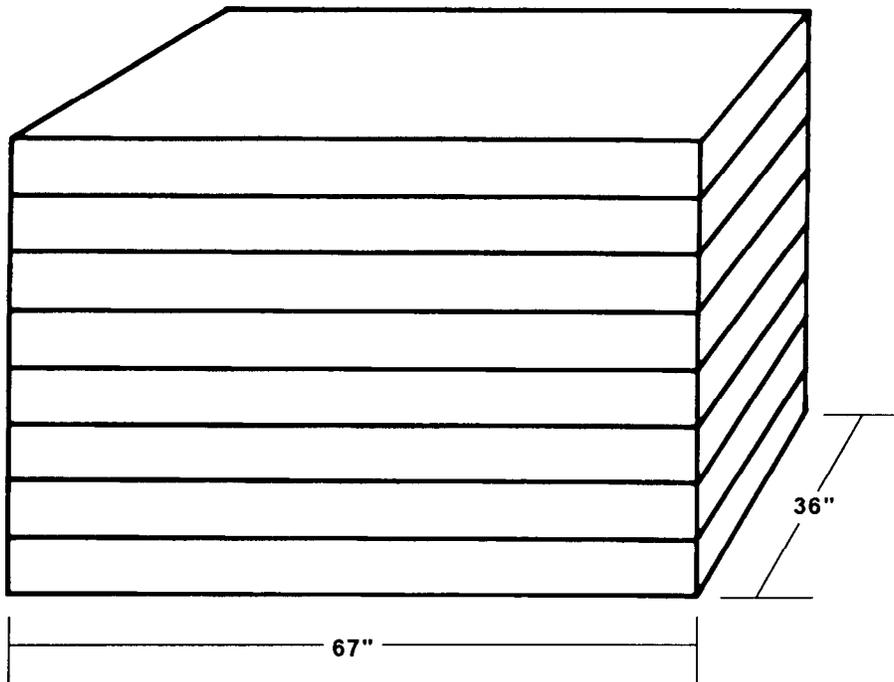
Figure 7-2. Platform prepared

7-3. Preparing and Positioning Honeycomb Stacks

Prepare five honeycomb stacks as shown in Figures 7-3 through 7-5. Position the stacks on the platform

according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-6.

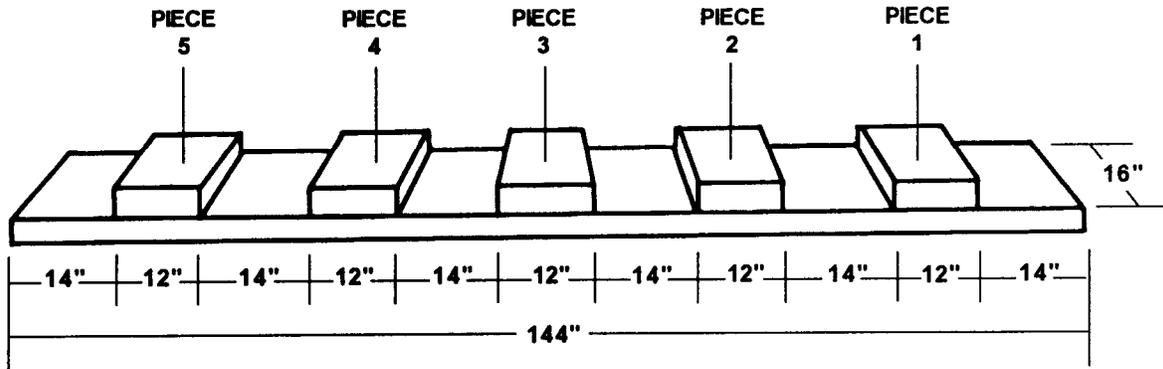
Note: This drawing is not drawn to scale.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1, 2, and 3	8	36	67	Honeycomb	Glue them together to form the stack.

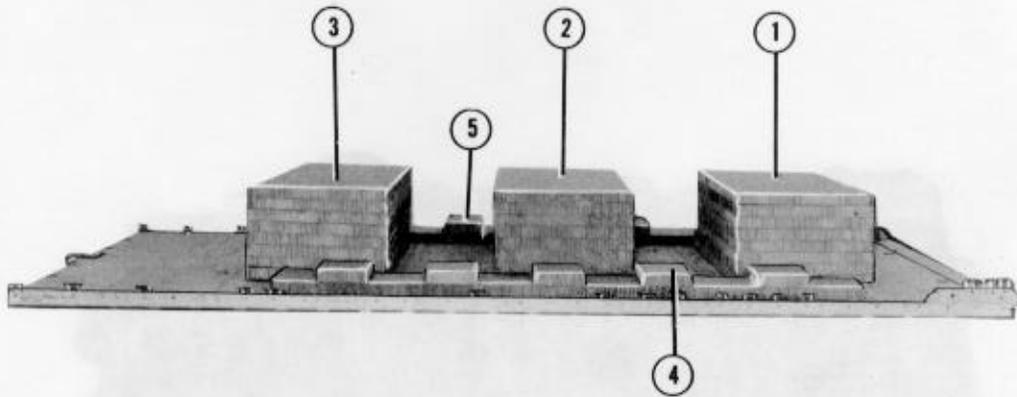
Figure 7-3. Stacks 1, 2, and 3 prepared

Note: This drawing is not drawn to scale.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
4	2	16	72	Honeycomb	Cut two pieces of honeycomb 16 x 72 inches.
	5	12	16	Honeycomb	Cut five pieces of honeycomb. Place the first piece of honeycomb 14 inches from the front edge of the 144-inch piece. Place the second piece of honeycomb 14 inches from the rear edge of the first piece. Place the third piece of honeycomb 14 inches from the rear edge of the second piece. Place the fourth piece of honeycomb 14 inches from the rear edge of the third piece. Place the fifth piece of honeycomb 14 inches from the rear edge of the fourth piece.
5	5	12	16	Honeycomb	Repeat steps for stack 4.

Figure 7-4. Stacks 4 and 5 prepared

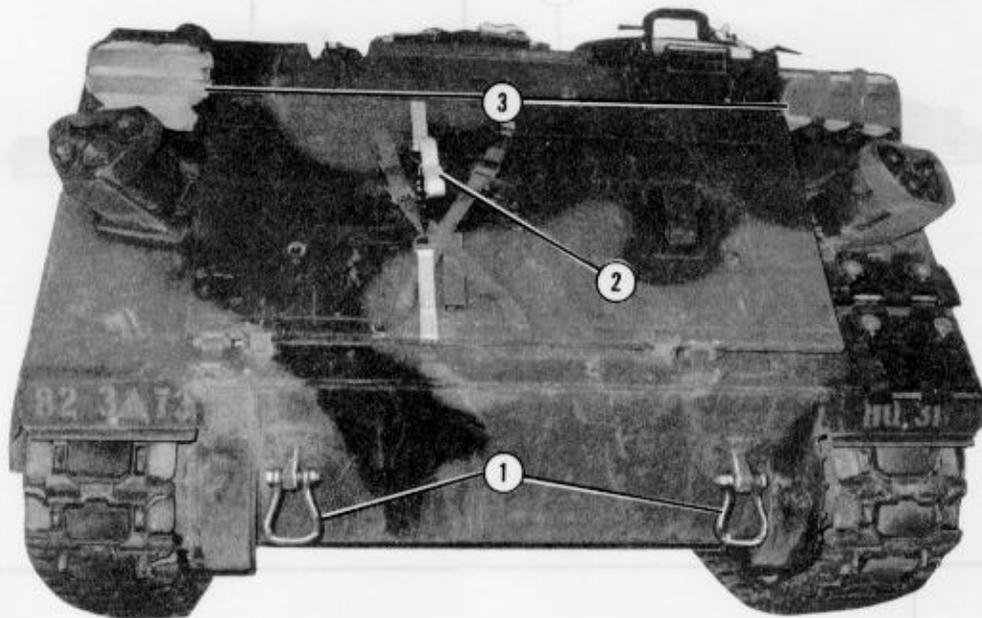


Stack Number	Position of Stack on Platform
1	Place stack: 28 inches from the front edge of platform, centered between right and left rails.
2	26 inches from rear edge of stack 1 centered between rails.
3	56 inches from rear edge of platform, centered between rails.
4	34 inches from the front edge of platform, along right side of stack 1, 2, and 3.
5	34 inches from the front edge of platform, along left side of stacks 1, 2, and 3.

Figure 7-5. Honeycomb stacks positioned on platform

7-4. Preparing Carrier

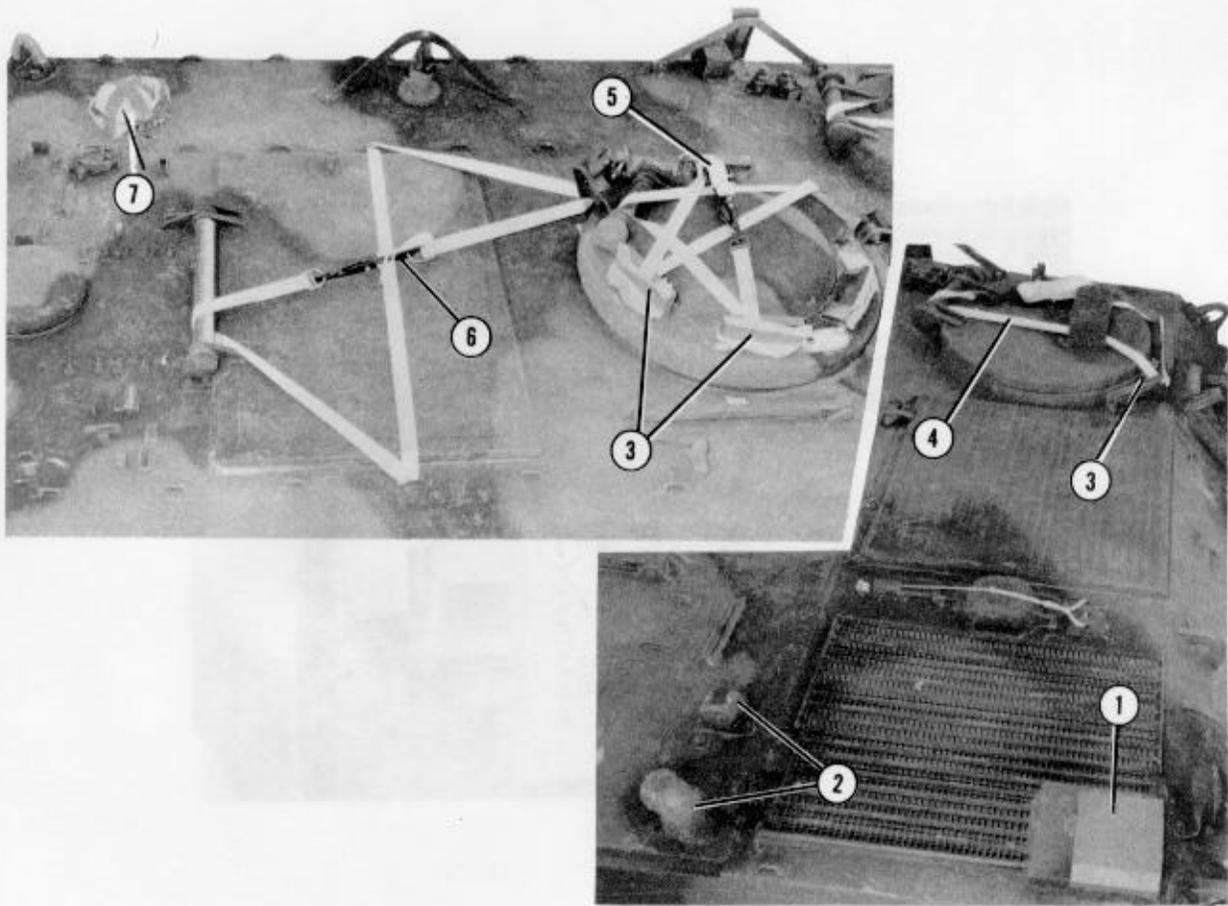
Prepare the M113 series carrier as shown in Figure 7-6 through 7-14.



- ① Bolt a large suspension clevis to each front towing eye.
- ② Secure the trim door closed with a 15-foot tie-down assembly.
- ③ Pad the headlights with cellulose wadding and tape the wadding in place.

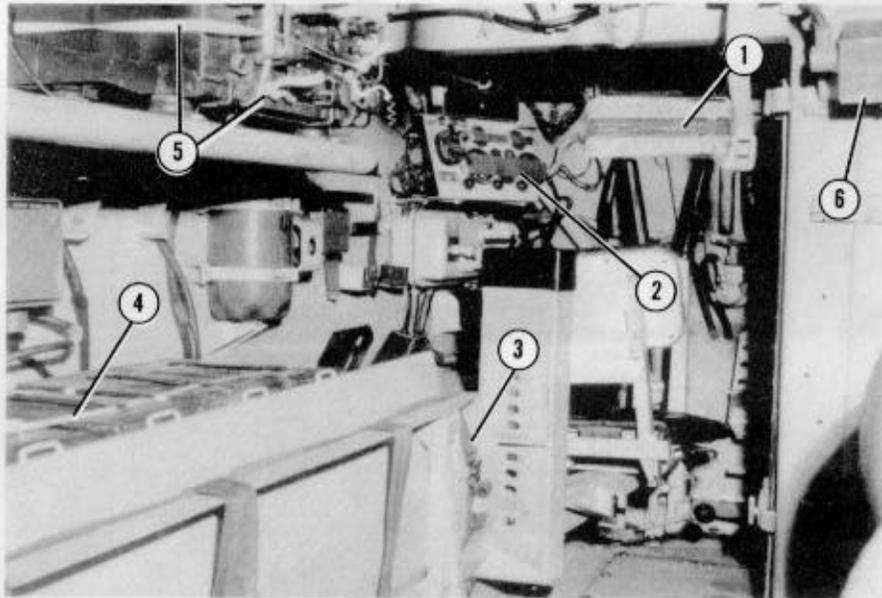
Note: Remove drain plugs and empty any water from the carrier which could have an effect on the weight

Figure 7-6. Front of carrier prepared



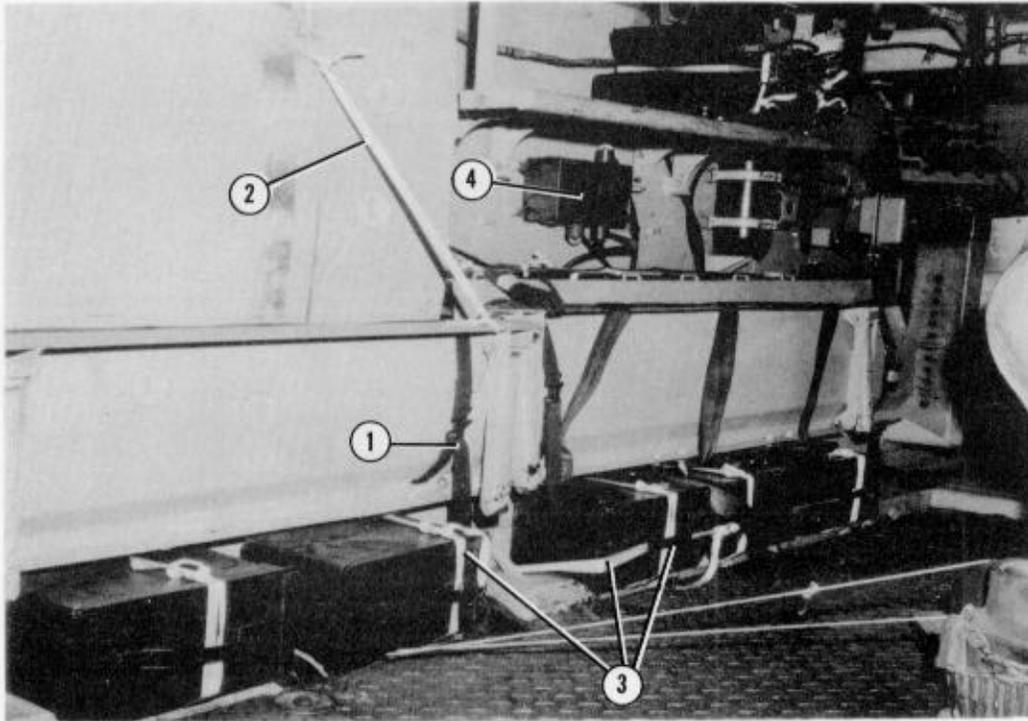
- ① Remove engine exhaust pipe and tape the exhaust opening.
- ② Tape the heater opening and the front bilge pump opening.
- ③ Pad the troop commander's periscope and driver's periscope with cellulose wadding and tape the wadding in place.
- ④ Secure the driver's hatch cover closed with a 15-foot lashing assembly.
- ⑤ Secure the troop commander's hatch cover closed with a 15-foot lashing assembly.
- ⑥ Secure the cargo hatch cover closed with a 15-foot lashing assembly.
- ⑦ Cover the fuel access cover with cellulose wadding. Cover the wadding with plastic and tape it in place.

Figure 7-7. Top of carrier prepared



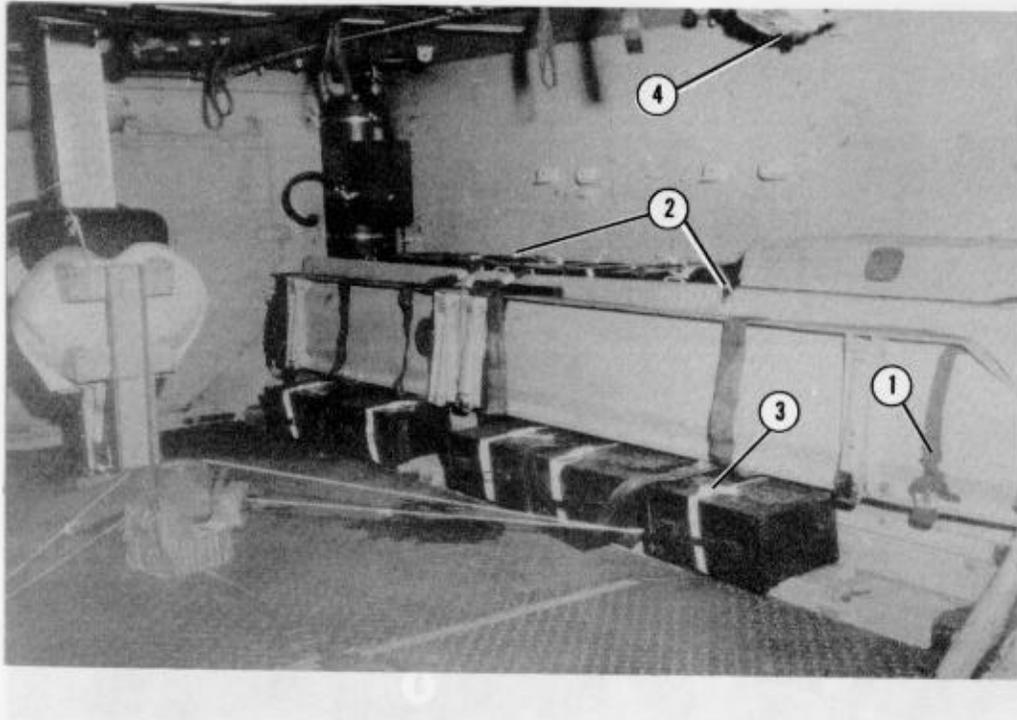
- ① Pad the warning lights and driver's periscope with cellulose wadding and tape the wadding in place.
- ② Tape all glass on the instrument panel.
- ③ Raise the left front troop seat and secure it with retaining straps.
- ④ Place five boxes of .50-caliber ammunition in the rack behind the left front troop seat and tie the boxes in place with 1/2-inch tubular nylon webbing.
- ⑤ Tie the radio to the mount with three pieces of 1/2-inch tubular nylon webbing.
- ⑥ Tape the front of the speaker box.

Figure 7-8. Driver's compartment and radio prepared



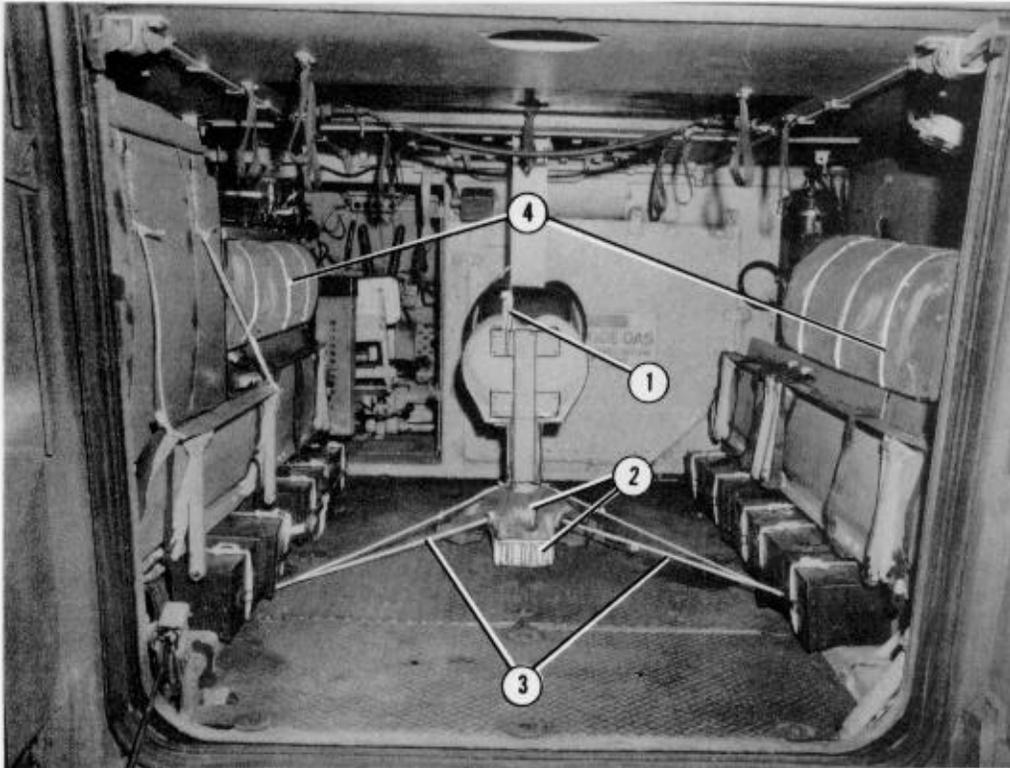
- ① Raise the left rear troop seat and secure it with the retaining straps.
- ② Tie each end of the seat to the fuel tank with 1/2-inch tubular nylon webbing.
- ③ Place three boxes of .50-caliber ammunition on the floor under the left front seat and two boxes under the left rear seat. Tie the ammunition boxes in place with 1/2-inch tubular nylon webbing.
- ④ Tape the complete front of the power supply box.

Figure 7-9. Ammunition boxes stowed on left side of carrier



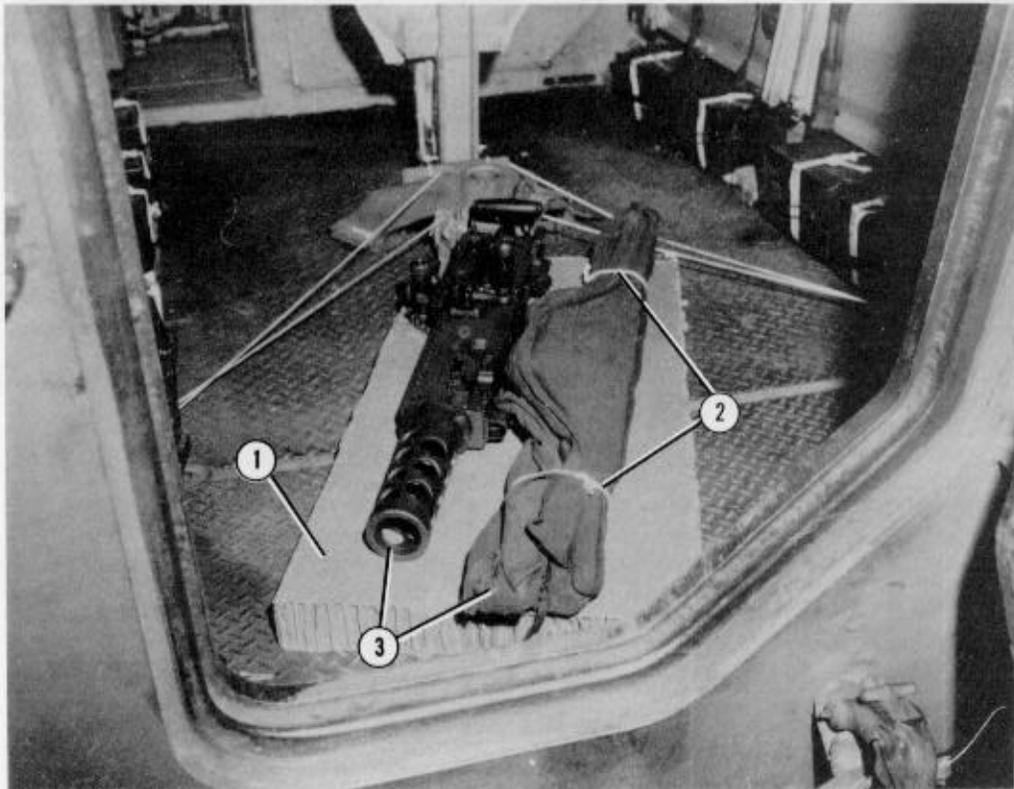
- ① Raise the right troop seats and secure them with retaining straps.
- ② Place seven boxes of .50-caliber ammunition in the rack behind the troop seats and tie the boxes in place with 1/2-inch tubular nylon webbing.
- ③ Place five boxes of .50-caliber ammunition on the floor under the troop seats and tie the boxes in place with 1/2-inch tubular nylon webbing.
- ④ Tape all of the interior lights.

Figure 7-10. Ammunition boxes stowed on right side of carrier



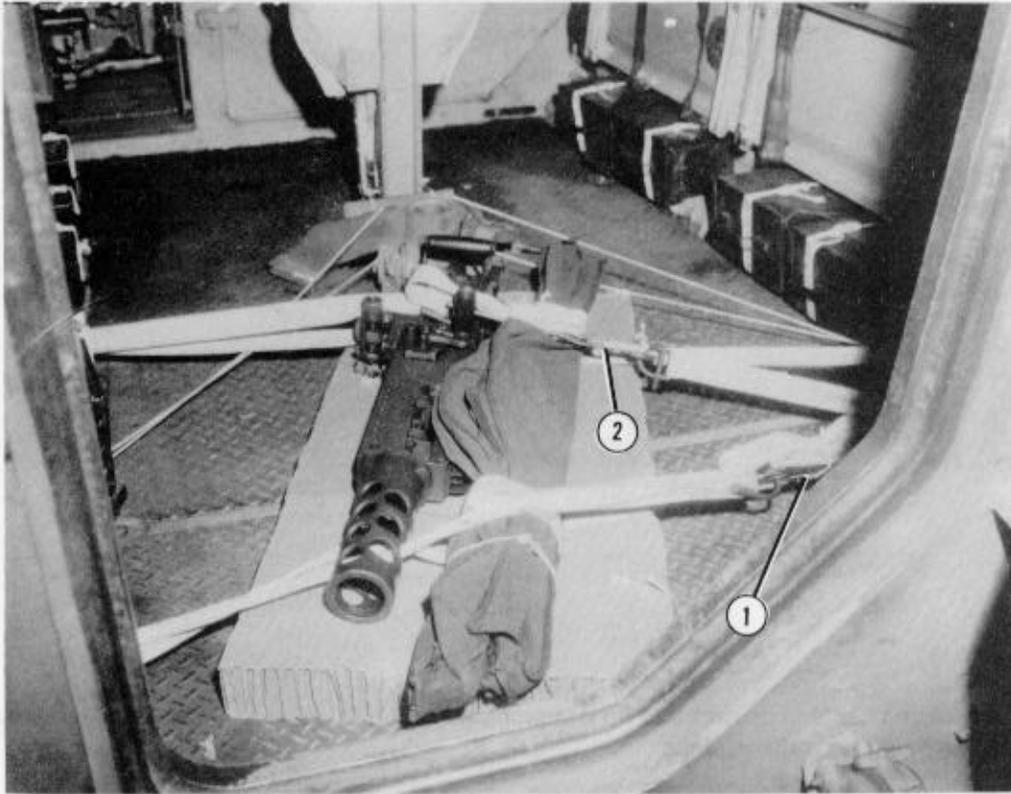
- ① Raise the troop commander's seat and the jump seat and tie them in the up position with type III nylon cord.
- ② Place two 3- by 6- by 6-inch pieces of honeycomb on the floor under the jump seat and place the machine gun mount on the honeycomb.
- ③ Tie the mount to the seat brace and the left and right tiedown points with type III nylon cord.
- ④ Place one troop duffel bag on the top of the ammunition boxes on each side of the carrier. Tie the bags in place with 1/2-inch tubular nylon webbing.

Figure 7-11. Machine gun mount and duffel bags stowed



- ① Place a 3- by 18- by 72-inch piece of honeycomb on the floor of the carrier.
- ② Place the machine gun barrels in their carrying case, and tie each end with 1/4-inch cotton webbing.
- ③ Place the machine gun and the carrying case on the honeycomb.

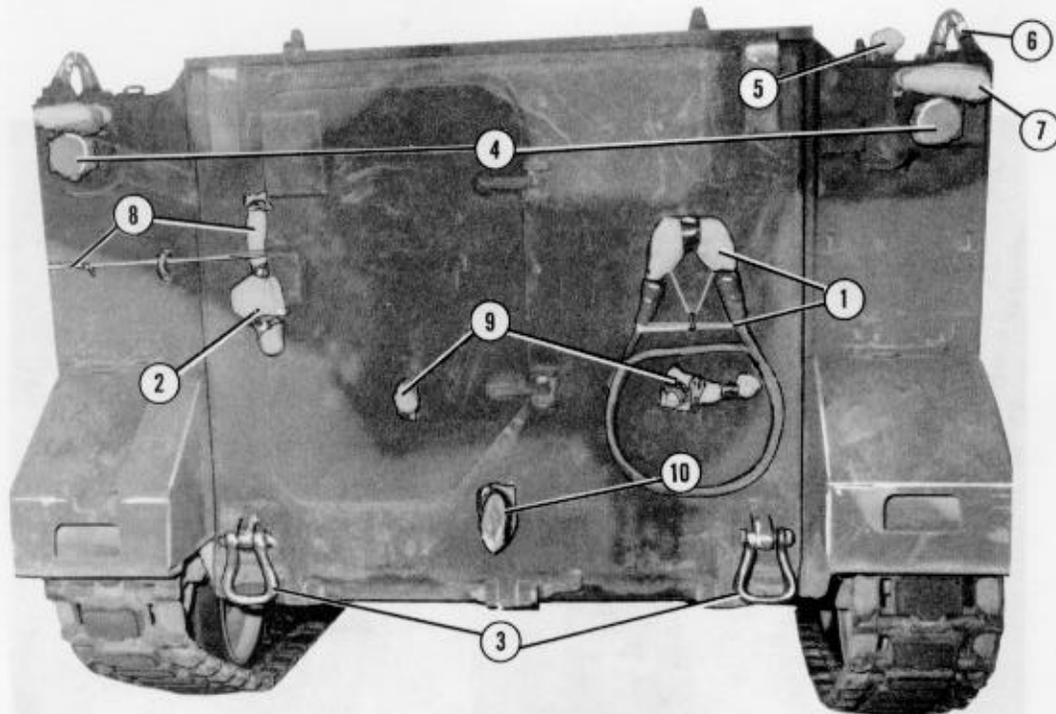
Figure 7-12. Machine gun and carrying case positioned on honeycomb



- ① Pass the free end of a 15-foot tie-down strap around the right rear support bracket, around the carrying case, through the vent holes of the machine gun, around the left rear support bracket, and back up through the vent holes of the machine gun. Fit a D-ring on the end of the strap and secure the D-rings together with a load binder.
- ② Run a second 15-foot tie-down strap in the same manner as paragraph (1), above, using the same right rear support bracket, and the opposite end of the machine gun.

Note: Fold all excess strap and tie the folds to the binder with 1/4-inch cotton webbing.

Figure 7-13. Machine gun and barrels secured



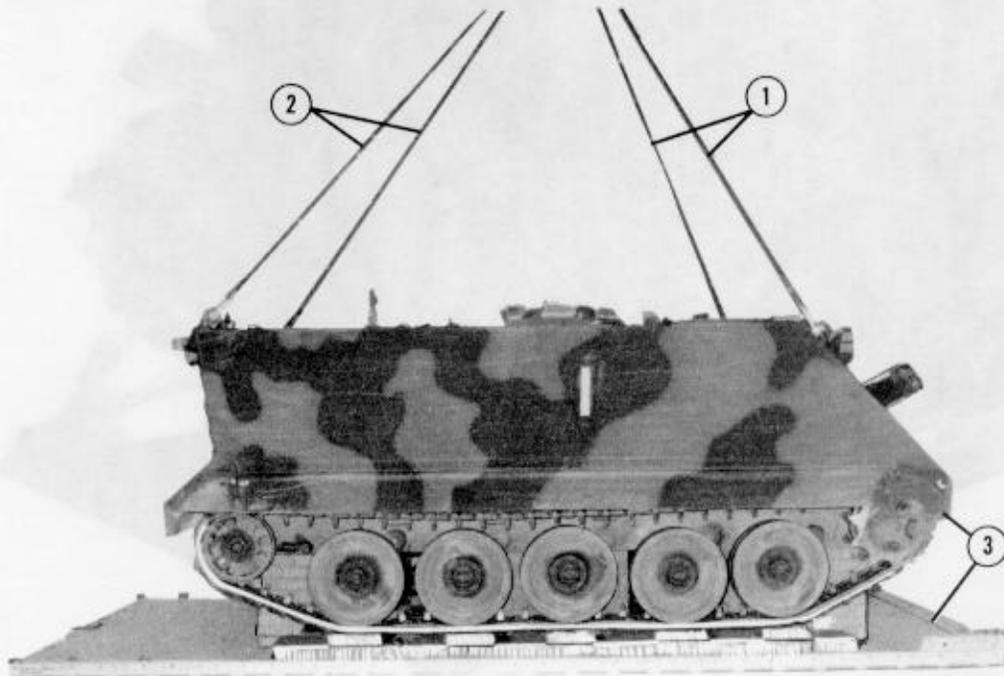
- ① Place the towing cable in its rack and tie it in place with type III nylon cord. Pad the cable ends with cellulose wadding and tape in place.
- ② Pad the ramp door retaining lever with cellulose wadding and tape in place.
- ③ Bolt a large suspension clevis to each rear towing eye.
- ④ Tape the rear lights.
- ⑤ Pad the rear bilge pump opening with cellulose wadding and tape in place.
- ⑥ Tape rear suspension eyes.
- ⑦ Pad hand-holds with cellulose wadding and tape in place.
- ⑧ Close the ramp door and lock it with the outer locking handle. Tie the handle in place with type III nylon cord. Pad the handle with cellulose wadding and tape in place.
- ⑨ Pad the ramp door catch with cellulose wadding and tape in place.
- ⑩ Pad the towing pintle with cellulose wadding and tape in place.

Figure 7-14. Rear of carrier prepared

7-5. Installing Suspension Slings and Positioning Carrier

Install suspension slings according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-15.

Position the carrier on the platform as shown in Figure 7-15.



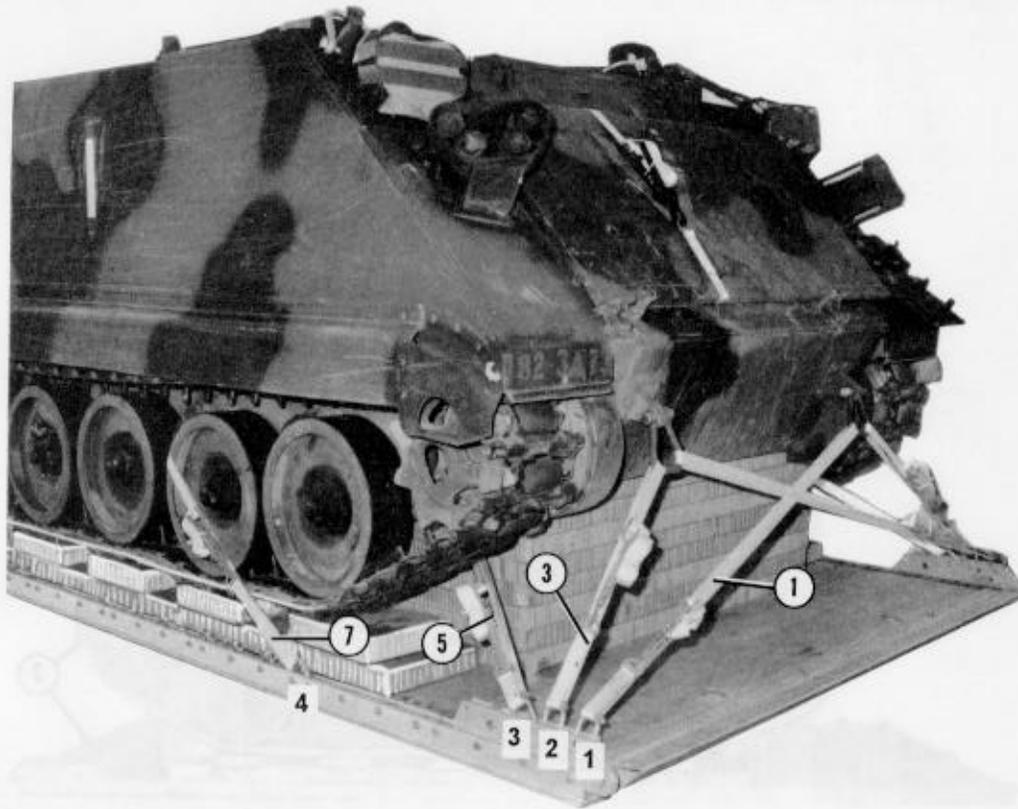
- ① Attach a 11-foot (4-loop), type XXVI nylon webbing suspension sling to each suspension lifting point on the front of the carrier with a large clevis.
- ② Attach a 12-foot (4-loop), type XXVI nylon webbing suspension sling to each suspension lifting point on the rear of the carrier with a large clevis.
- ③ Position the carrier on the honeycomb stacks with the front of the carrier 13 inches from the front edge of the platform.

Note: When positioning the carrier on the honeycomb stacks ensure that the five carrier wheels are centered on the five pieces of 12- by 16-inch honeycomb.

Figure 7-15. Suspension slings installed and carrier positioned on platform

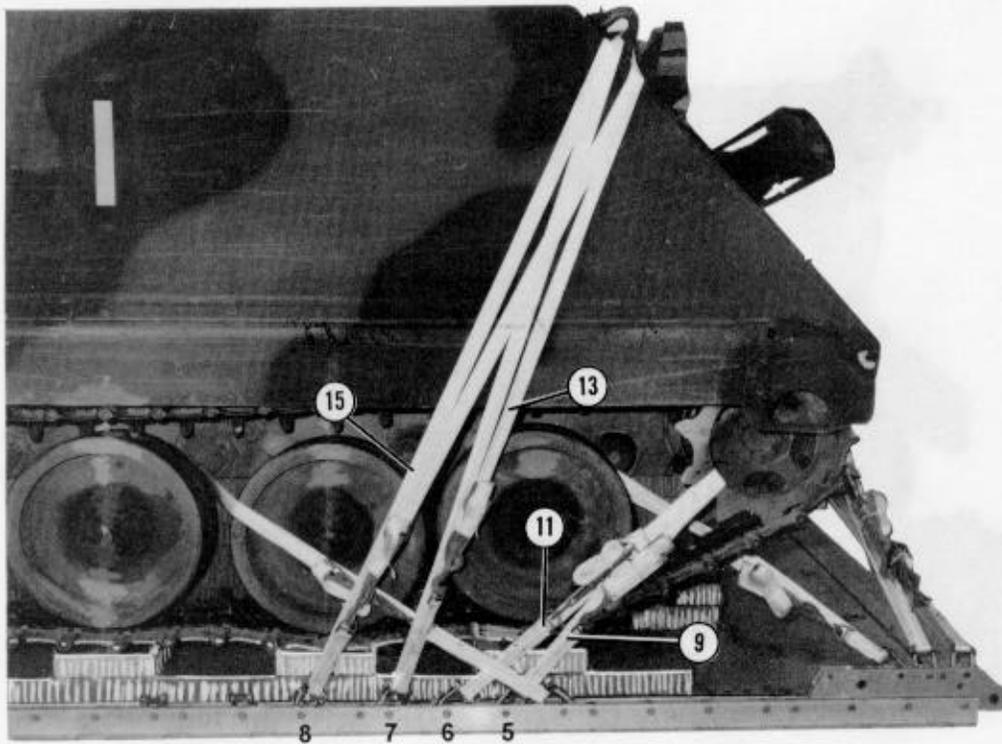
7-6. Installing Carrier Lashings

Lash the carrier to the platform as shown in Figure 7-16. Bind the ends of the lashings together according to FM 10-500-2/TO 13C7-1-5.



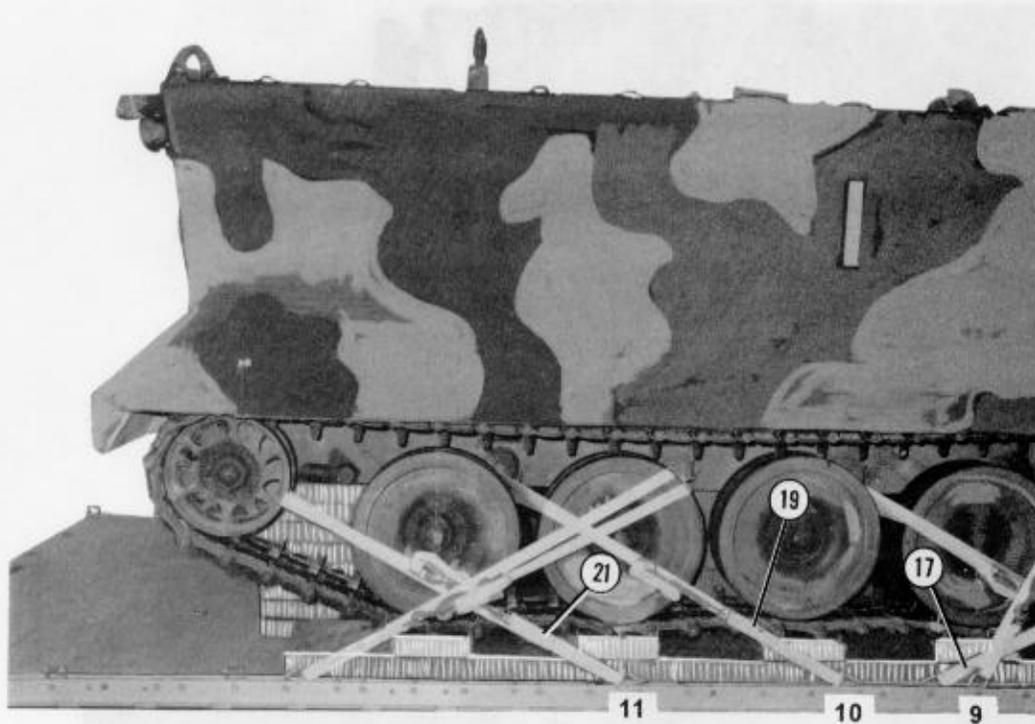
Lashing Number	Tie-down Clevis Number	Instructions
1	1	Install lashing:
2	1A	Through left clevis on front of carrier.
3	2	Through right clevis on front of carrier.
4	2A	Through left clevis on front of carrier.
5	3	Through track around rocker arm of first wheel.
6	3A	Through track around rocker arm of first wheel.
7	4	Around rocker arm of third wheel.
8	4A	Around rocker arm of third wheel.

Figure 7-16. Lashings installed



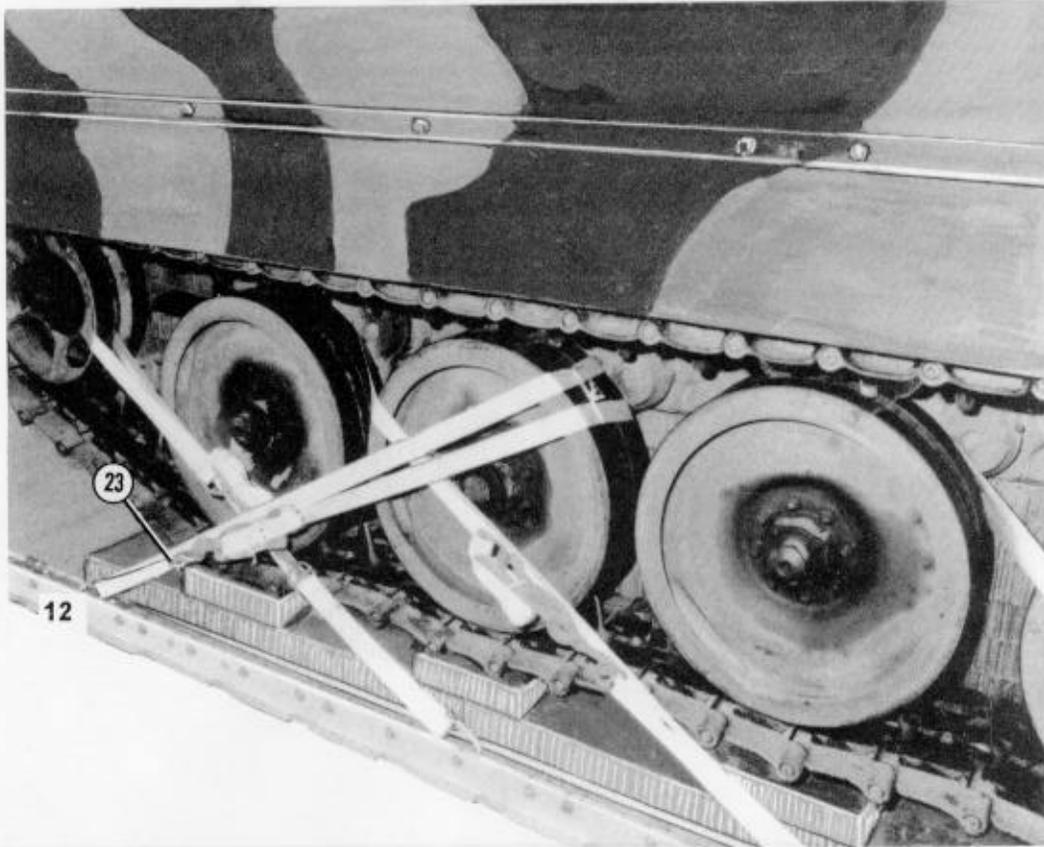
Lashing Number	Tie-down Clevis Number	Instructions
9	5	Install lashing: Through right drive sprocket.
10	5A	Through left drive sprocket.
11	6	Through right drive sprocket.
12	6A	Through left drive sprocket.
13	7	Through right lifting point.
14	7A	Through left lifting point.
15	8	Through right lifting point.
16	8A	Through left lifting point.

Figure 7-16. Lashings installed (continued)



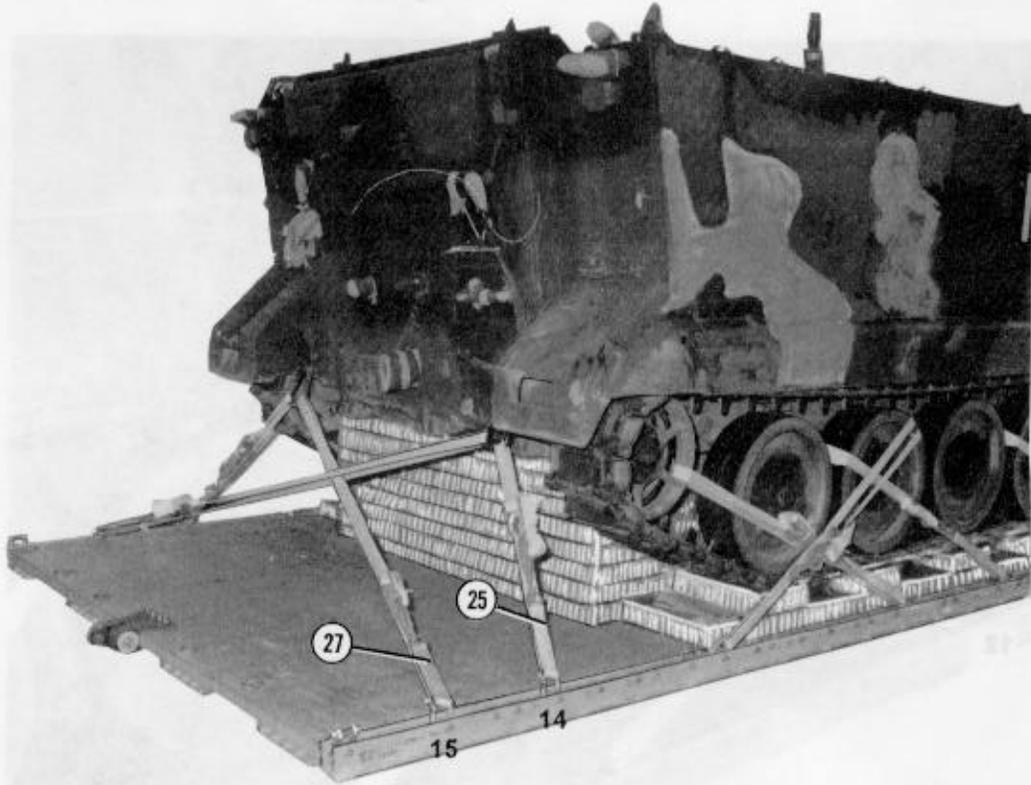
Lashing Number	Tie-down Clevis Number	Instructions
17	9	Install lashing: Through right drive sprocket. Through left drive sprocket. Around rocker arm of fifth wheel. Around rocker arm of fifth wheel. Through right idler wheel. Through left idler wheel.
18	9A	
19	10	
20	10A	
21	11	
22	11A	

Figure 7-16. Lashings installed (continued)



Lashing Number	Tie-down Clevis Number	Instructions
23	12	Install lashing: Around rocker arm of fourth wheel. Note: Secure lashing with type III nylon cord at the point on top of fourth wheel.

Figure 7-16. Lashings installed (continued)

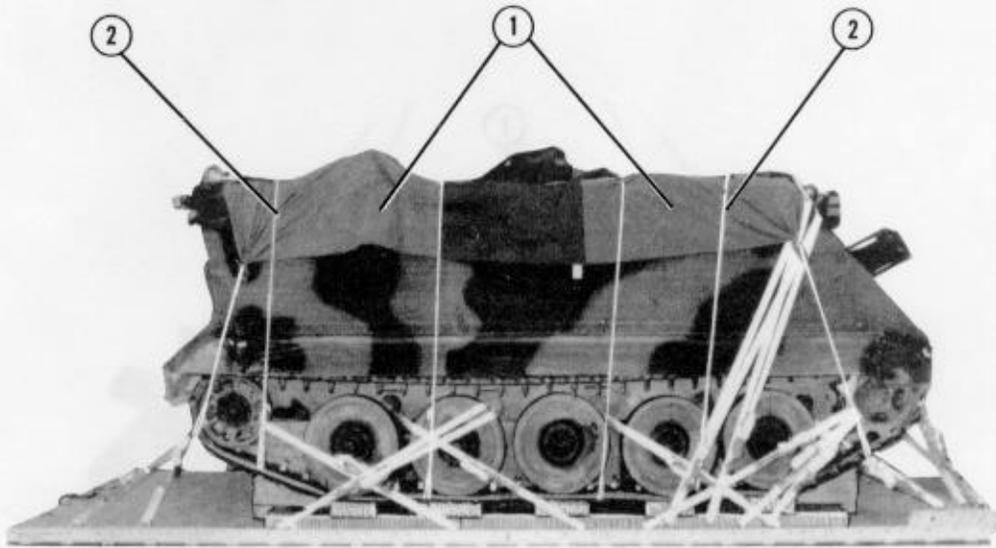


Lashing Number	Tie-down Clevis Number	Instructions
24	12A	Install lashing: Around rocker arm of fourth wheel. Note: Secure lashing with type III nylon cord at the point on top of the fourth wheel.
25	14	Through right clevis on rear of carrier.
26	14A	Through left clevis on rear of carrier.
27	15	Through left clevis on rear of carrier.
28	15A	Through right clevis on rear of carrier.

Figure 7-16. Lashings installed (continued)

7-7. Covering Load

Install a load cover as shown in Figure 7-17.



- ① Make a 12- by 12-foot load cover from cotton duck cloth and place the cover over the carrier.
- ② Secure the cover to convenient points on the carrier with type III nylon cord.

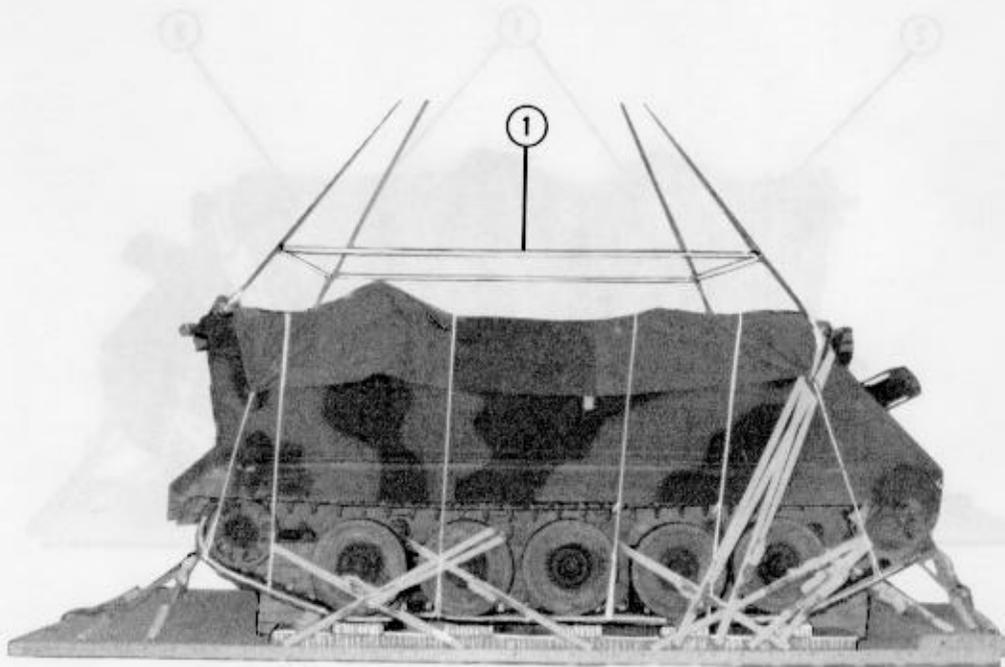
Figure 7-17. Load covered

7-8. Installing Suspension Slings

Install the suspension slings according to Paragraph 6-10, and as shown in Figure 6-17.

7-9. Safeying Suspension Slings

Safety suspension slings as shown in Figure 7-18.



- 1 Raise the slings upward until they are taut. Install the suspension sling safety tie 6 to 8 inches above the highest point on the load IAW FM 10-500-2/TO 13C7-1-5.

Figure 7-18. Suspension slings installed and safetied

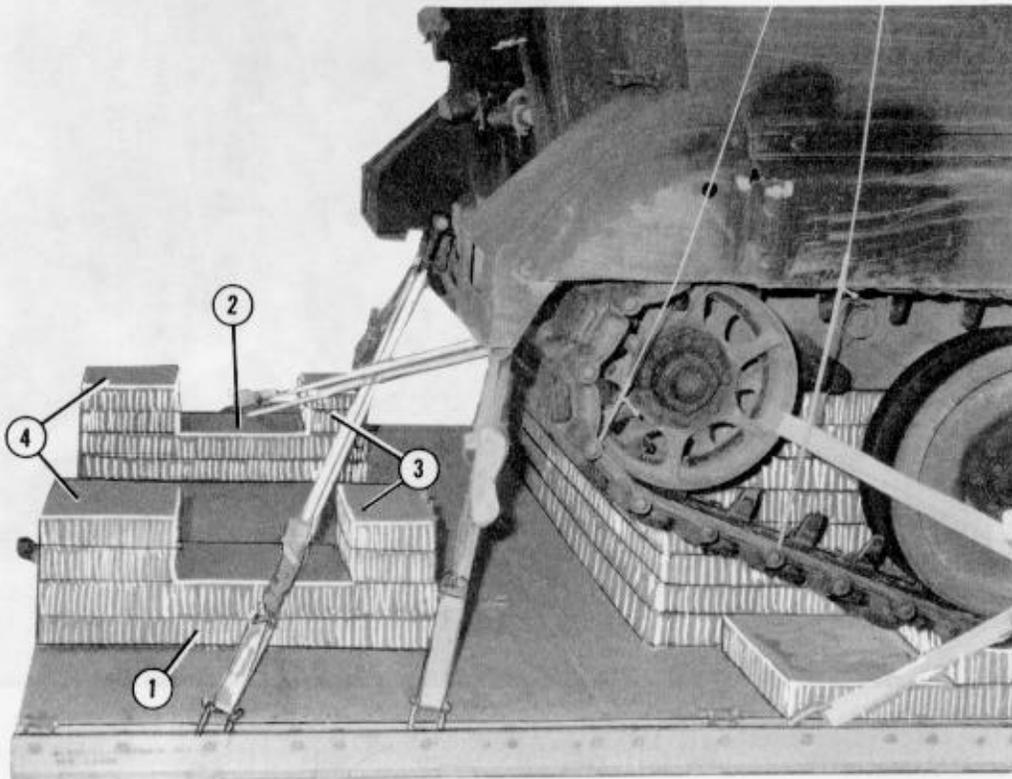
7-10. Building, Positioning, and Securing Parachute Stowage Platform

Build, position and secure the parachute stowage platform as described below.

a. Building Honeycomb Support Stacks. Build two support stacks for the stowage platform as shown in Figure 7-19.

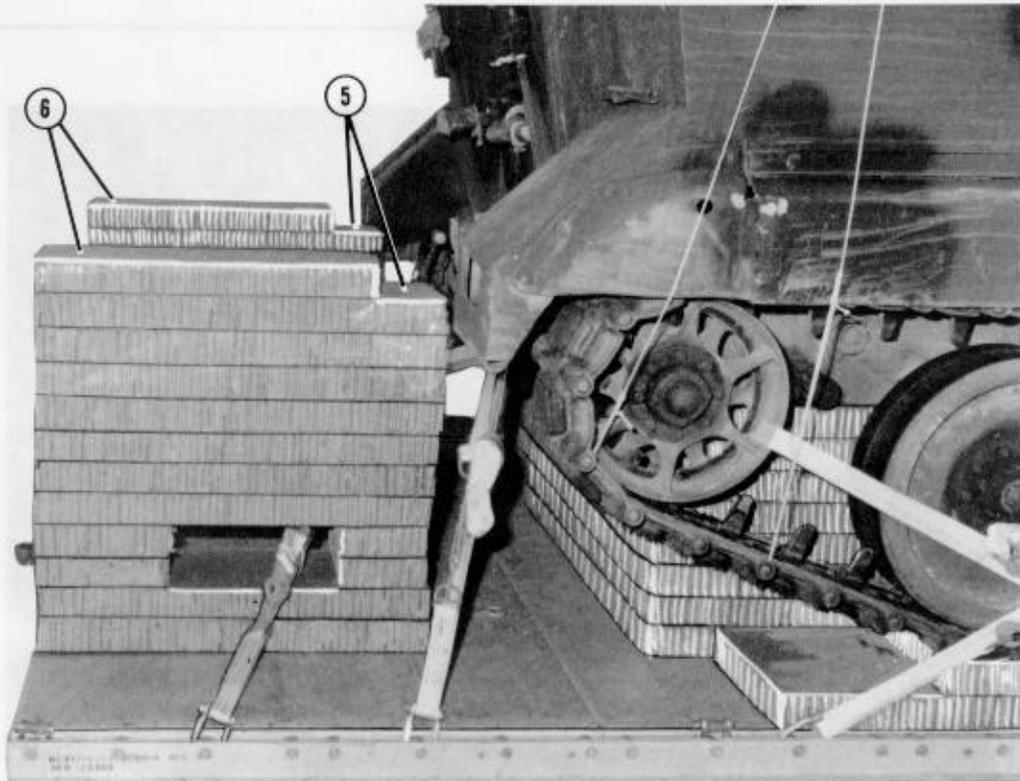
b. Building Stowage Platform. Build a stowage platform as shown in Figure 7-20.

c. Securing Stowage Platform. Secure the stowage platform as shown in Figure 7-21.



- ① Cut and glue two 12- by 36-inch stacks of honeycomb, two layers high, and position one stack 20 inches from the outside edge of the right side rail and even with the rear of the platform.
- ② Place the other stack 20 inches from the outside edge of the left rail even with the rear of the platform.
- ③ Cut and glue two 8- by 12-inch stacks of honeycomb two layers high. Glue one stack.
- ④ Cut and glue two 12- by 12-inch stacks of honeycomb two layers high. Glue one stack on each rear end of the 12- by 36-inch stack.

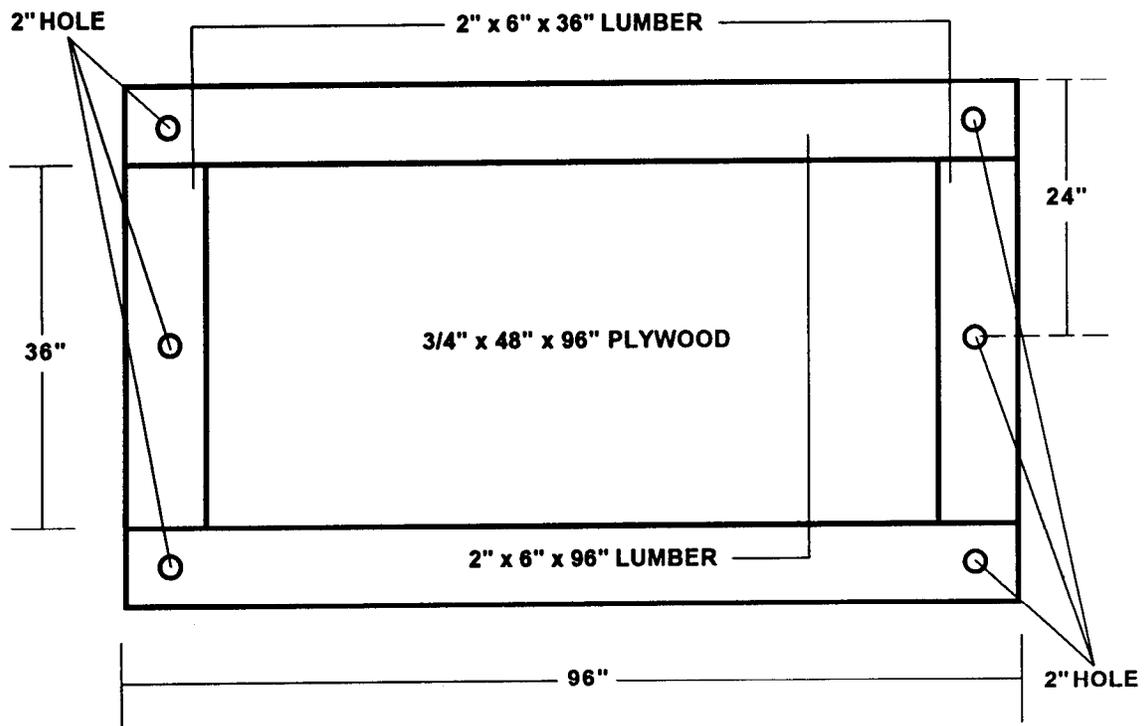
Figure 7-19. Honeycomb support stacks built



- ⑤ Cut and glue two stacks of honeycomb eight layers high, seven layers will be 12- by 36-inches and the top layer will be 12- by 30-inches.
- ⑥ Glue one stack on each existing stack, position the stacks so the top 12- by 30-inch layer is even with the rear of the platform and the short end is towards the front of the platform.

Figure 7-19. Honeycomb support stacks built (continued)

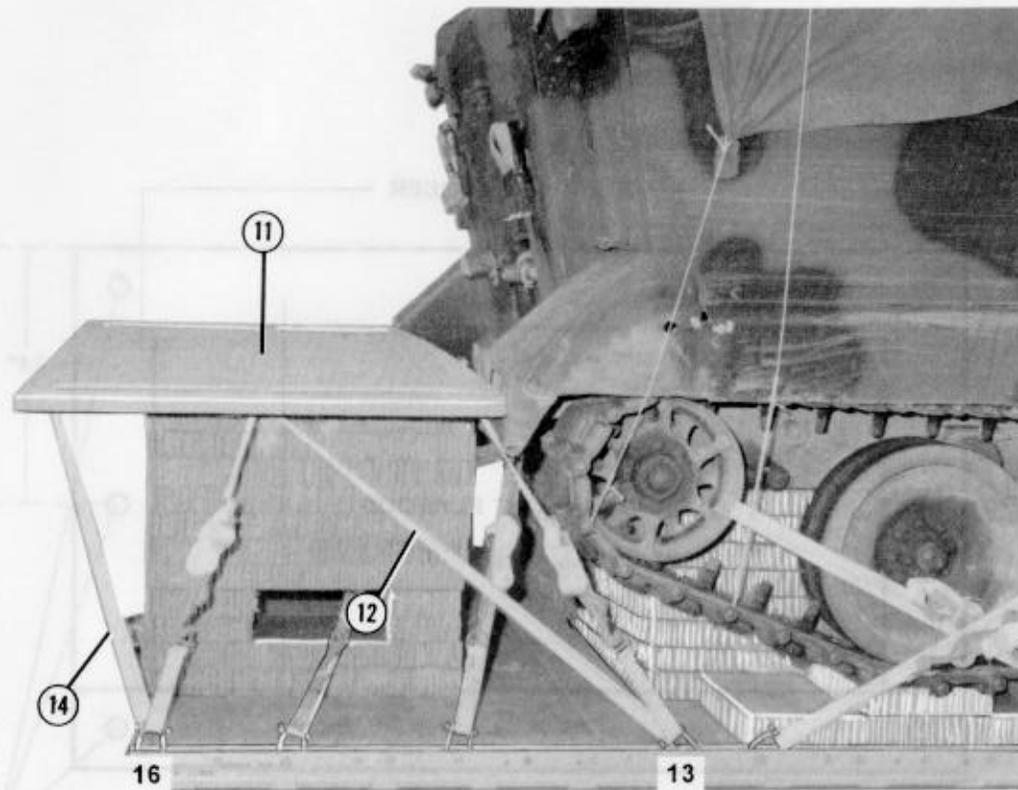
- Notes:** 1. This drawing is not drawn to scale.
2. 8d common wire nails must be used to join the individual pieces.



Step:

1. Use 3/4- by 48- by 96-inch piece of plywood.
2. Nail a 2- by 6- by 36-inch piece of lumber to each side of the plywood as shown.
3. Nail a 2- by 6- by 96-inch piece of lumber flush with the front and rear edges of the plywood.
4. Drill a 2-inch hole 3 inches in diagonally from each corner and center a 2-inch hole 2 inches in from the 48-inch sides as shown.

Figure 7-20. Parachute stowage platform built

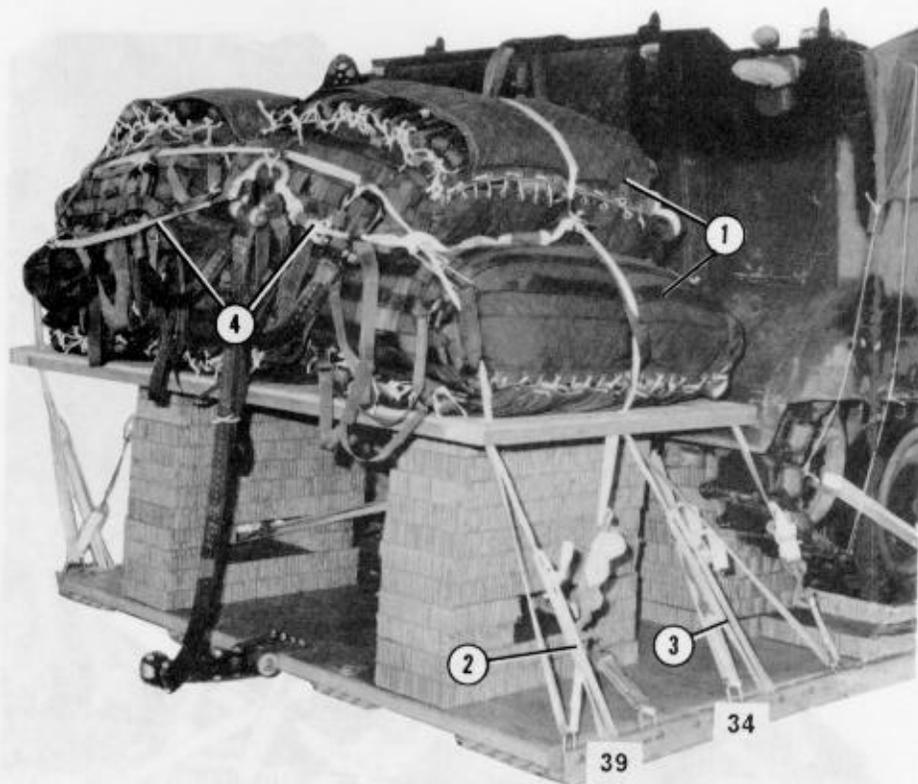


- ⑪ Position parachute storage platform, centered, on the honeycomb stacks and flush against the rear of carrier.
- ⑫ Lash the parachute storage platform to clevis 13 through the center and front holes on the right side.
- ⑬ Lash the parachute storage platform to clevis 13A through the center and front holes on the left side.
- ⑭ Lash the parachute storage platform to clevis 16 through the center and rear holes on the right side.
- ⑮ Lash the parachute storage platform to clevis 16A through the center and rear holes on the left side.

Figure 7-21. Parachute stowage platform positioned and secured

7-11. Stowing Cargo Parachutes

Prepare and stow five G-11C cargo parachutes according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-22.

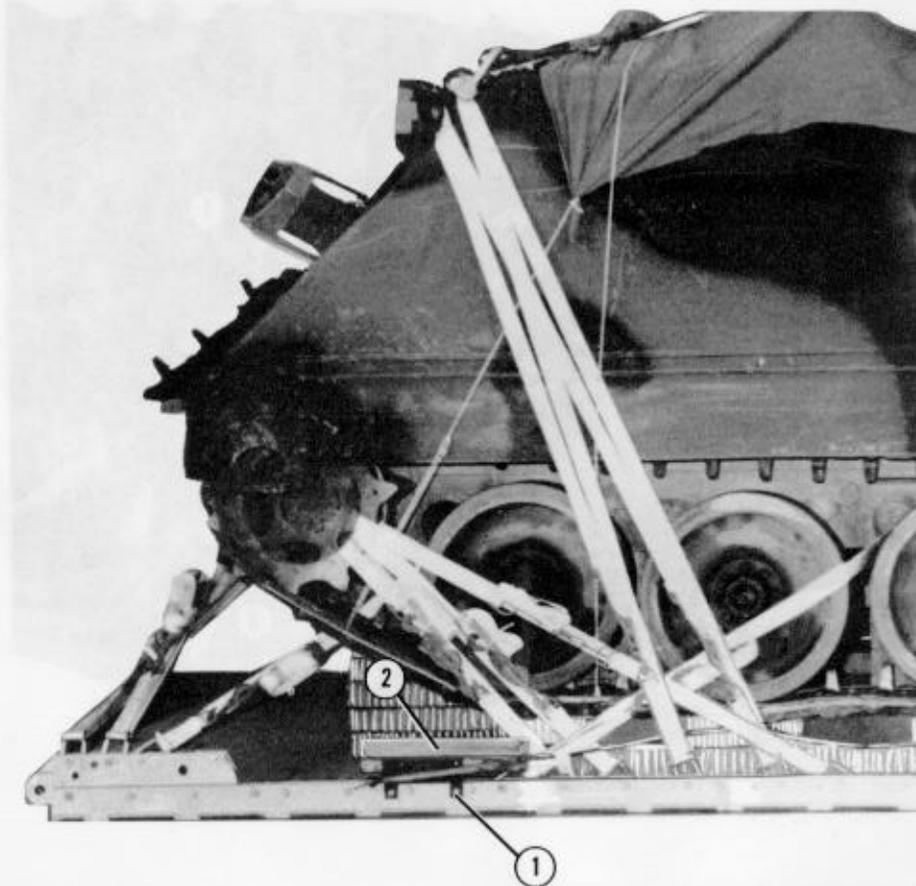


- ① Prepare and install five G-11C cargo parachutes according to FM 10-500-2/TO 13C7-1-5.
- ② Tie the rear parachute restraint strap to bushing 39 and 39A on both platform side rails.
- ③ Tie the front parachute restraint strap to bushing 34 and 34A on both platform side rails.
- ④ Install two multi-cut parachute release straps according to FM 10-500-2/TO 13C7-1-5.

Figure 7-22. Cargo parachutes stowed

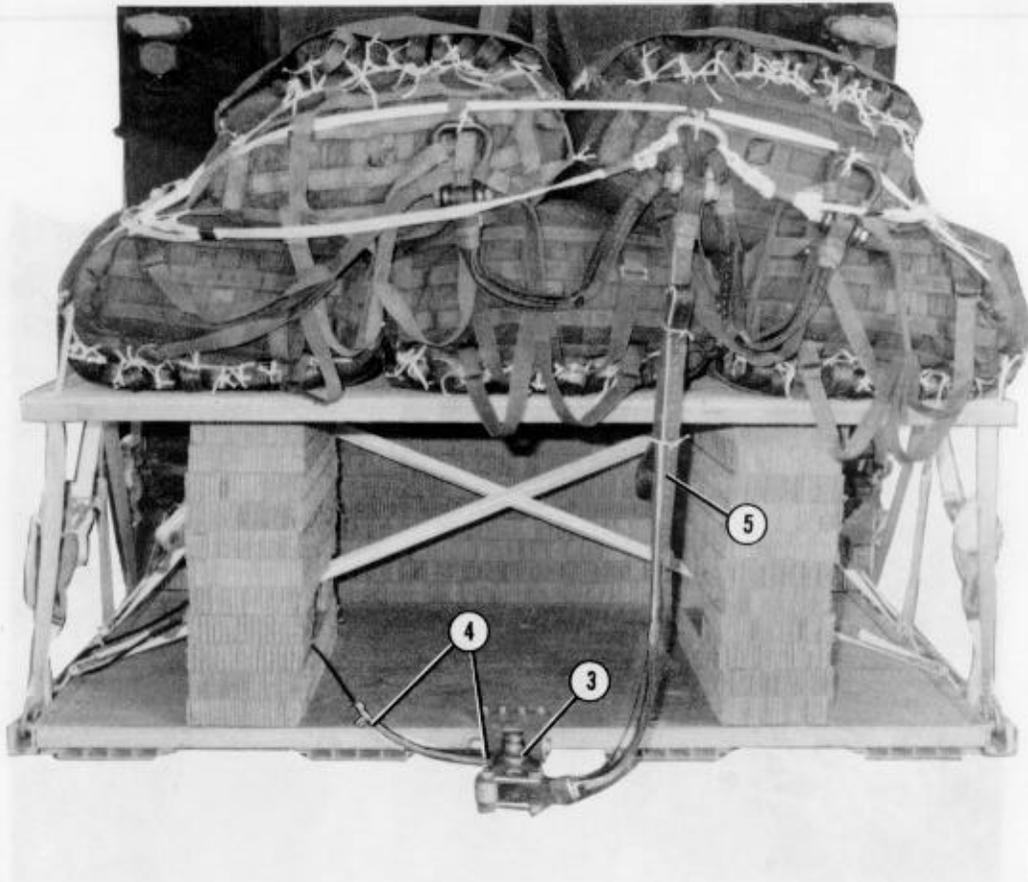
7-12. Installing Extraction System

Install the EFTC extraction system on the load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-23.



- ① Install the EFTC mounting brackets to the front set of mounting holes on the left platform side rail.
- ② Install the actuator according to FM 10-500-2/TO 13C7-1-5.

Figure 7-23. EFTC installed



- ③ Install the latch assembly and latch assembly adapter to the extraction bracket according to FM 10-500-2/TO 13C7-1-5.
- ④ Install a 20-foot cable according to FM 10-500-2/TO 13C7-1-5. Safety the cable to the tie-down ring D8 with 1/4-inch cotton webbing.
- ⑤ Install a 9-foot deployment sling on the load. Bolt it to the latch assembly. S-fold the slack, and tie the folds with 1/4-inch cotton webbing.

Figure 7-23. EFTC installed (continued)

Table 7-1. Equipment required for rigging the M113 armored personnel carrier for a low-velocity airdrop on a 20-foot type V platform (continued)

National Stock Number	Item	Quantity
5530-00-128-4981	Plywood, 3/4- by 48- by 96-in	1
1670-01-097-8817	Release, cargo parachute, M-2 (with modified components):	
	Bolt, clevis (w/sleeves), hardened	(2)
	Bolts, sleeve hardened	(4)
	Spacers, steel, 2 3/8-in	(4)
	Sling, cargo airdrop:	
	For deployment line:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For riser extension:	
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	20
	For suspension:	
1670-00-432-2505	11-ft (4-loop), type XXVI nylon webbing	2
1670-00-432-2506	12-ft (4-loop), type XXVI nylon webbing	2
1670-00-040-8219	Strap, parachute release, multicut, comes with 3 knives	2
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	32
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type 1	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, natural	As required
4020-00-240-2146	Type III, nylon cord	As required

Table 7-1. Equipment required for rigging the M113 armored personnel carrier for a low-velocity airdrop on a 20-ft type V platform

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
	Clevis, Suspension:	
4030-00-090-5354	1-in (large)	12
4030-00-678-8562	3/4-in (medium)	4
8305-00-242-3593	Cloth, cotton duck, 60-in	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5787	Coupling, airdrop, extraction force transfer w 20-ft cable	1
	Cover:	
1670-00-360-0328	Clevis, large	6
1670-00-360-0329	Link assembly, type IV	15
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
	Lumber:	
5510-00-220-6148	2- by 6- by 36-in	2
5510-00-220-6148	2- by 6- by 96-in	2
5315-00-010-4659	Nail, wire, steel, common, 8d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb	
	3- by 36- by 96-in	16 sheets
	12- by 36-in	(18)
	12- by 30-in	(2)
	8- by 12-in	(4)
	12- by 12-in	(4)
	36- by 67-in	(24)
	16- by 144-in	(2)
	12- by 16-in	(10)
	6- by 6-in	(2)
	18- by 72-in	1
	Parachute:	
1670-01-016-7841	Cargo, G-11C	5
1670-00-040-8135	Cargo extraction, 28-ft	1
	Platform, AD, type V 20-ft	1
	Bracket:	
1670-01-162-2375	Inside EFTA	(1)
1670-01-162-2374	Outside EFTA	(1)
1670-01-162-2372	Clevis assembly (type V)	(32)
1670-01-162-2376	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link	(2)

7-15. Placing Extraction Parachute

Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 10-500-2/TO 13C7-1-5. Place the extraction line on the load for installation in the aircraft.

Shipper's Declaration for Dangerous Goods. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

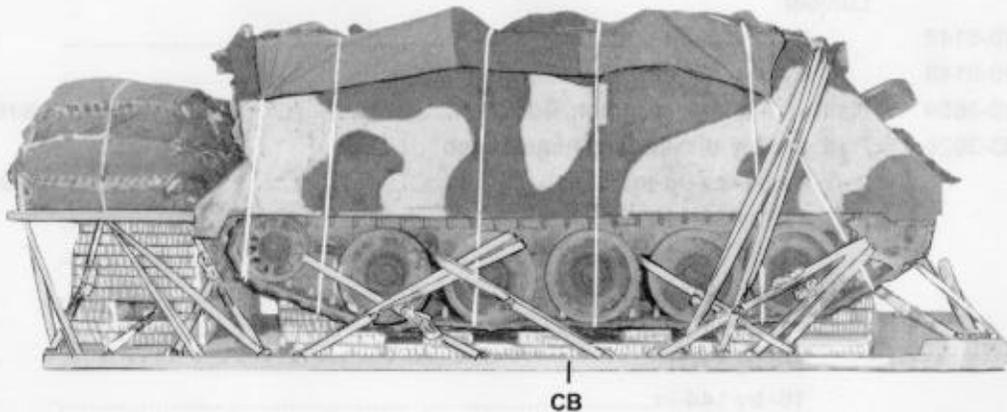
7-16. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-25. Complete

7-17. Equipment Required

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

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



RIGGED LOAD DATA

Weight:	Load shown	24,300 pounds
	Maximum load allowed	25,300 pounds
Height		97 inches
Width		108 inches
Length		240 inches
Overhang: Front		0 inches
	Rear	14 inches
CB (from front edge of platform)		110 inches
Extraction system (adds 18 inches to length of platform)		EFTC

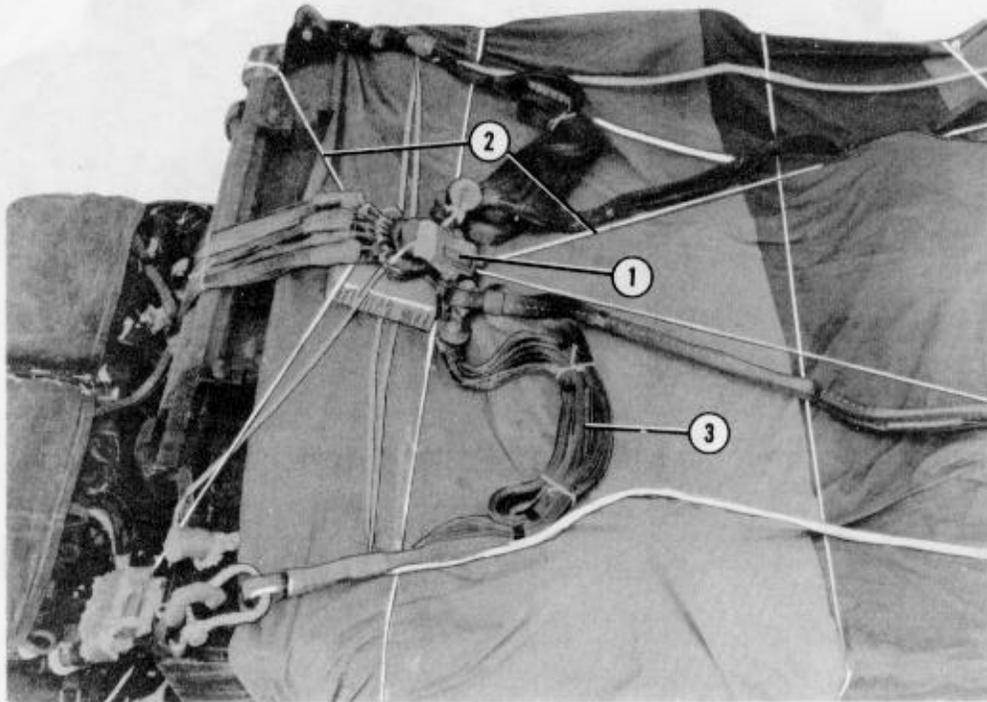
Figure 7-25. M113 armored personnel carrier rigged for low-velocity airdrop on a type V platform

7-13. Installing Provisions for Emergency Restraints

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

7-14. Installing Release System

Prepare, install and safety an M-2 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-24.



- ① Prepare an M-2 cargo parachute release assembly according to FM 10-500-2/TO 13C7-1-5. Place the M-2 release on a 20- by 24-inch piece of honeycomb centered on the top rear of the carrier.
- ② Secure the top and bottom of the M-2 release to convenient points on the load with type III nylon cord.
- ③ S-fold and tie the suspension slings with type 1, 1/4-inch cotton webbing.

Figure 7-24. M-2 release installed

7-15. Placing Extraction Parachute

Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 10-500-2/TO 13C7-1-5. Place the extraction line on the load for installation in the aircraft.

Shipper's Declaration for Dangerous Goods. If the load varies from the one shown, the weight, height, CB, and parachute requirements must be recomputed.

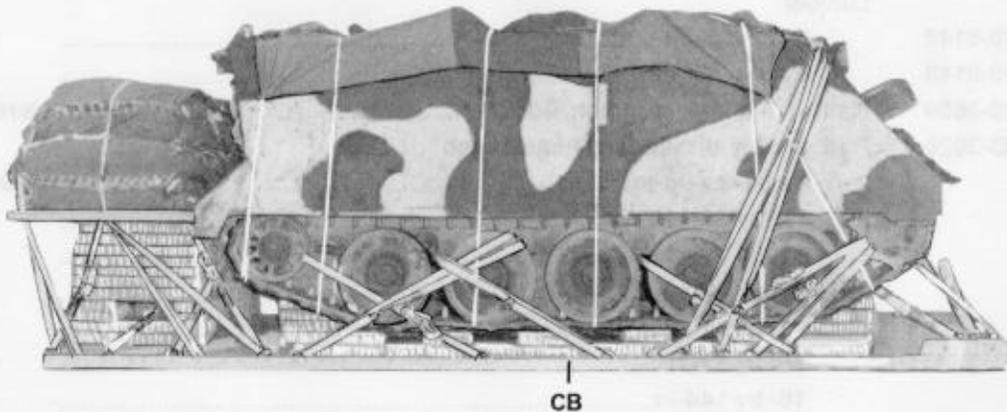
7-16. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 7-25. Complete

7-17. Equipment Required

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

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



RIGGED LOAD DATA

Weight:	Load shown	24,300 pounds
	Maximum load allowed	25,300 pounds
Height		97 inches
Width		108 inches
Length		240 inches
Overhang: Front		0 inches
	Rear	14 inches
CB (from front edge of platform)		110 inches
Extraction system (adds 18 inches to length of platform)		EFTC

Figure 7-25. M113 armored personnel carrier rigged for low-velocity airdrop on a type V platform

Table 7-1. Equipment required for rigging the M113 armored personnel carrier for a low-velocity airdrop on a 20-ft type V platform

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
	Clevis, Suspension:	
4030-00-090-5354	1-in (large)	12
4030-00-678-8562	3/4-in (medium)	4
8305-00-242-3593	Cloth, cotton duck, 60-in	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
1670-00-434-5787	Coupling, airdrop, extraction force transfer w 20-ft cable	1
	Cover:	
1670-00-360-0328	Clevis, large	6
1670-00-360-0329	Link assembly, type IV	15
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
	Lumber:	
5510-00-220-6148	2- by 6- by 36-in	2
5510-00-220-6148	2- by 6- by 96-in	2
5315-00-010-4659	Nail, wire, steel, common, 8d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb	
	3- by 36- by 96-in	16 sheets
	12- by 36-in	(18)
	12- by 30-in	(2)
	8- by 12-in	(4)
	12- by 12-in	(4)
	36- by 67-in	(24)
	16- by 144-in	(2)
	12- by 16-in	(10)
	6- by 6-in	(2)
	18- by 72-in	1
	Parachute:	
1670-01-016-7841	Cargo, G-11C	5
1670-00-040-8135	Cargo extraction, 28-ft	1
	Platform, AD, type V 20-ft	1
	Bracket:	
1670-01-162-2375	Inside EFTA	(1)
1670-01-162-2374	Outside EFTA	(1)
1670-01-162-2372	Clevis assembly (type V)	(32)
1670-01-162-2376	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link	(2)

Table 7-1. Equipment required for rigging the M113 armored personnel carrier for a low-velocity airdrop on a 20-foot type V platform (continued)

National Stock Number	Item	Quantity
5530-00-128-4981	Plywood, 3/4- by 48- by 96-in	1
1670-01-097-8817	Release, cargo parachute, M-2 (with modified components):	
	Bolt, clevis (w/sleeves), hardened	(2)
	Bolts, sleeve hardened	(4)
	Spacers, steel, 2 3/8-in	(4)
	Sling, cargo airdrop:	
	For deployment line:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For riser extension:	
1670-01-062-6302	20-ft (2-loop), type XXVI nylon webbing	20
	For suspension:	
1670-00-432-2505	11-ft (4-loop), type XXVI nylon webbing	2
1670-00-432-2506	12-ft (4-loop), type XXVI nylon webbing	2
1670-00-040-8219	Strap, parachute release, multicut, comes with 3 knives	2
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	32
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type 1	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, natural	As required
4020-00-240-2146	Type III, nylon cord	As required

GLOSSARY

ACB attitude control bar	in inch
AD airdrop	LAPE low-altitude parachute extraction
AFB Air Force base	LAPES low-altitude parachute extraction system
AFR Air Force regulation	lb pound
AFTO Air Force technical order	LVAD low-velocity airdrop
ATTN attention	mm millimeter
CB center of balance	No number
d penny	NSN national stock number
DA Department of the Army	OVE on-vehicular equipment
DC District of Columbia	OVM operator vehicle maintenance
DD Department of Defense	psi pounds per square inch
diam diameter	SUSV small unit support vehicle
EFTA extraction force transfer actuator	TM technical manual
EFTC extraction force transfer coupling	TO technical order
FM field manual	TRADOC United States Army Training and Doctrine Command
ft feet	US United States
gal gallon	w with
HQ headquarters	yd yard
HDDS heavy drop derigging system	
IAW in accordance with	

REFERENCES

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

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

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