

CHAPTER 9

RIGGING FARE WITH SEVEN 500-GALLON FUEL DRUMS ON A 32-FOOT, TYPE V PLATFORM

Section I LOW-VELOCITY AIRDROP

9-1. Description of Load

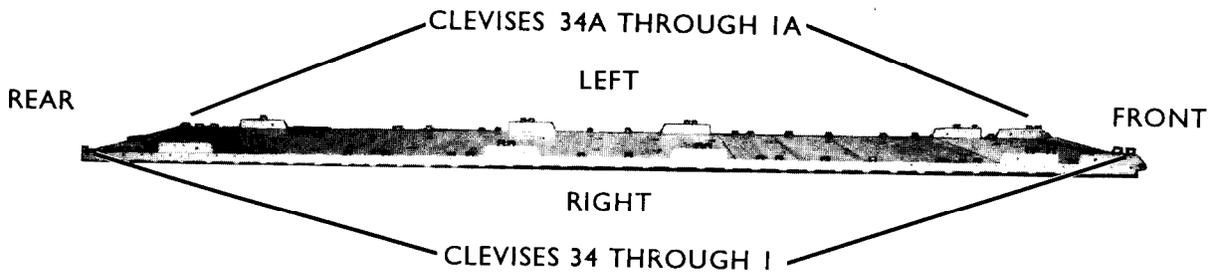
Two containerized FARE and seven 500-gallon collapsible fuel drums are rigged on a 32-foot, type V airdrop platform with six G-11C cargo parachutes. Each drum is filled with 432 gallons of fuel. Each containerized FARE weighs 1,230 pounds. Each gasoline-filled 500-gallon fuel drum weighs 2,842 pounds and is approximately 53 inches high, 53 inches wide, and 62 inches in length. The total weight of the seven gasoline-filled drums and the two containerized FARE is 22,354 pounds.

Note: For drums filled with a fuel other than gasoline, use Table 6-1 to recompute the weight.

9-2. Preparing Platform

Prepare a 32-foot, type V platform using two tandem links, eight suspension links, and 76 tie-down clevises as shown in Figure 9-1.

- 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.*



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 to bushings 6, 7, and 8; 26, 27, and 28; 37, 38, and 39; and 57, 58, and 59 on each platform side rail.
3. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
4. Install a tie-down clevis to bushings 1 and 2 on each tandem link.
5. Install a tie-down clevis to bushings 1 and 3 on the first suspension link on each platform side rail.
6. Install a tie-down clevis to bushings 2 and 3 on the second suspension link on each platform side rail.
7. Install a tie-down clevis to bushings 2 and 3 on the third suspension link on each platform side rail.
8. Install a tie-down clevis to bushing 2 on the fourth suspension link on each platform side rail.
9. Starting at the front of the platform, install a tie-down clevis to bushings 4, 10, 11, 12, 16, 19, 22, 23, 31, 34, 41, 42, 46, 48, 53, 54, 55, 61, 62, 63, and 64. Invert the clevises on bushings 11, 54, 55, and 61. Install two clevises to each inverted clevis.
10. Starting at the front of the platform, number the clevises bolted to the right side from 1 through 34 and those bolted to the left side from 1A through 34A.

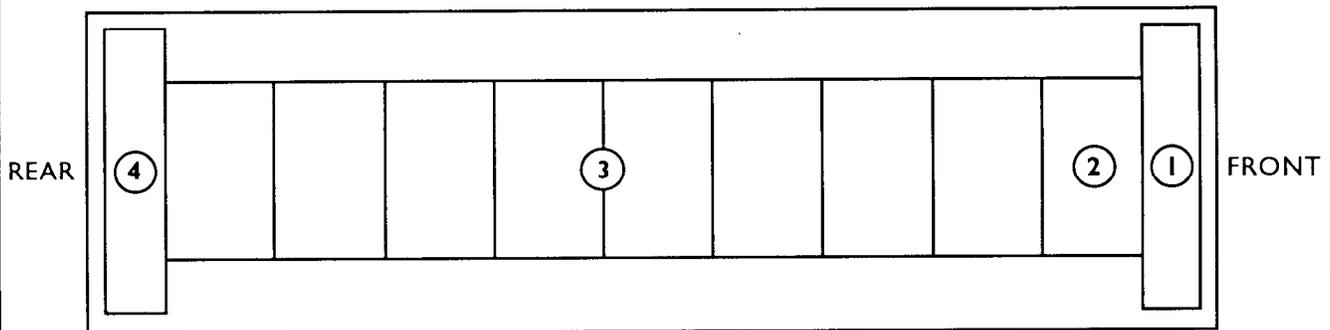
Figure 9-1. Platform prepared

9-3. Building and Positioning Honeycomb

Position the base layers of honeycomb on the platform as shown in Figures 9-2 and 9-3. Build and position three honeycomb stacks on top of the base layers of honeycomb as shown in Figure 9-4.

Note: Do not glue the stacks of honeycomb to the platform.

Note: This drawing is not drawn to scale.

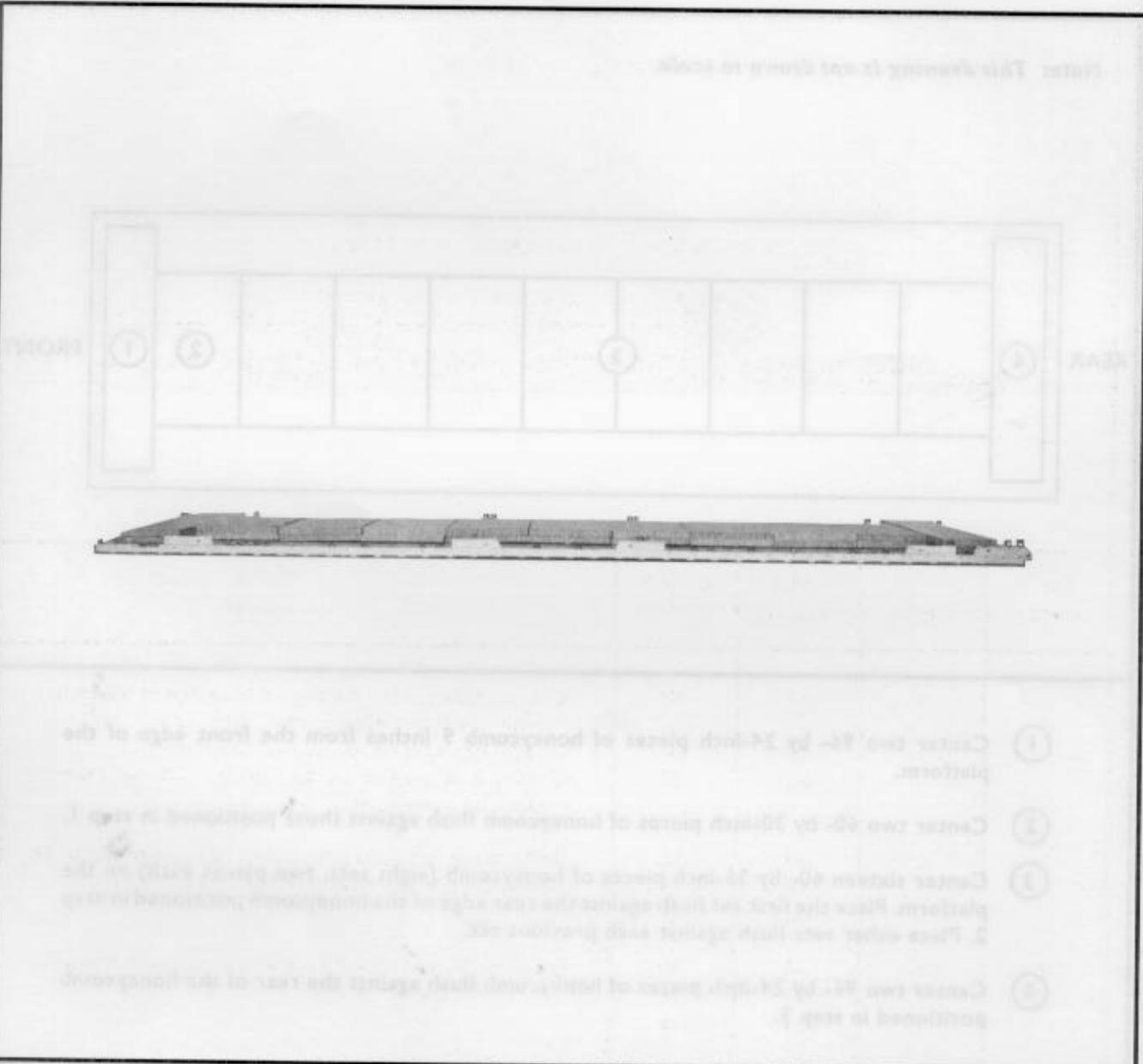


- ① Center two 96- by 24-inch pieces of honeycomb 9 inches from the front edge of the platform.
- ② Center two 60- by 30-inch pieces of honeycomb flush against those positioned in step 1.
- ③ Center sixteen 60- by 36-inch pieces of honeycomb (eight sets, two pieces each) on the platform. Place the first set flush against the rear edge of the honeycomb positioned in step 2. Place other sets flush against each previous set.
- ④ Center two 96- by 24-inch pieces of honeycomb flush against the rear of the honeycomb positioned in step 3.

Figure 9-2. Base layers positioned

9-3. Building and Positioning Honeycomb
 Position the base layers of honeycomb on the platform as shown in Figures 9-2 and 9-3. Build and position three honeycomb stacks on top of the base layers of honeycomb as shown in Figure 9-4.
 Note: Do not give the stacks of honeycomb to the personnel.

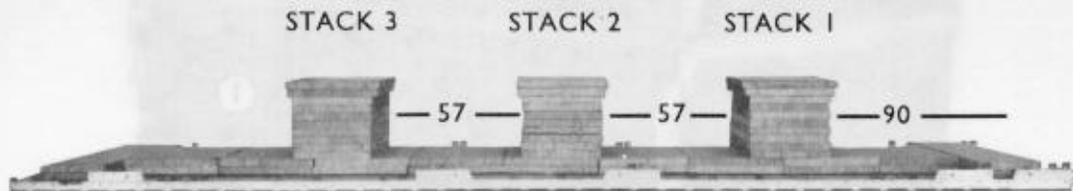
Note: This drawing is not drawn to scale.



- ① Center two 94- by 24-inch pieces of honeycomb 2 inches from the front edge of the platform.
- ② Center two 65- by 28-inch pieces of honeycomb flush against their position in step 1.
- ③ Center sixteen 40- by 20-inch pieces of honeycomb (eight with their front ends on the platform, flush against the front edge of the honeycomb positioned in step 2. Place other sets flush against each previous set.
- ④ Center two 94- by 24-inch pieces of honeycomb flush against the rear of the honeycomb positioned in step 3.

Figure 9-3. Side view of base layers positioned

Note: All measurements are given in inches.

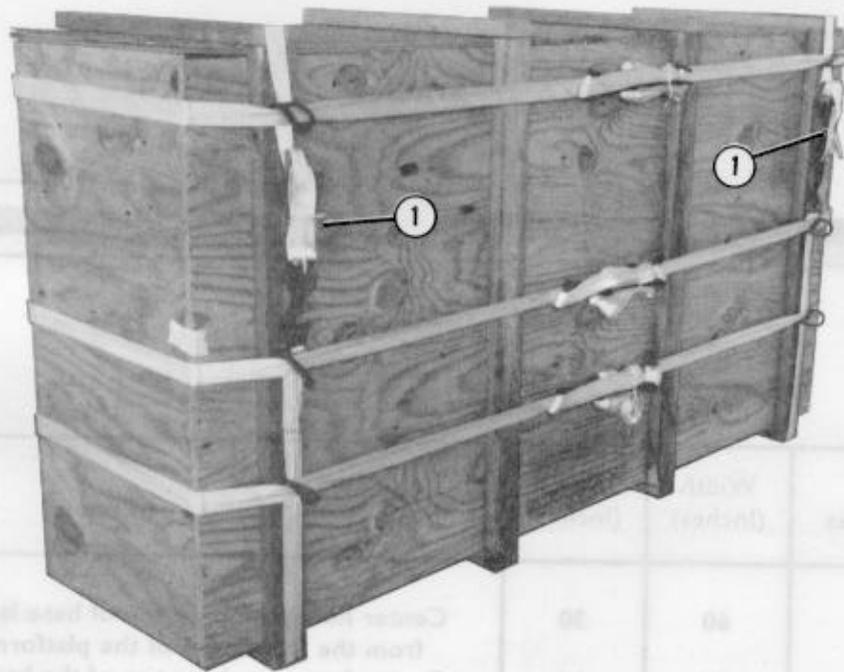


Stack Number	Pieces	Width (Inches)	Length (Inches)	Instructions
1	8	60	30	Center honeycomb on top of base layers 90 inches from the front edge of the platform. Center honeycomb on top of the base. Center honeycomb on top of the 60- by 34-inch piece of honeycomb.
	1	60	34	
	1	60	36	
2	8	60	30	Build stack according to stack 1. Center stack 57 inches from the rear edge of stack 1.
	1	60	34	
	1	60	36	
3	8	60	30	Build stack according to stack 1. Center stack 57 inches from the rear edge of stack 2.
	1	60	34	
	1	60	36	

Figure 9-4. Honeycomb stacks prepared and positioned

9-4. Preparing FARE

Build two containers for the FARE according to paragraph 6-4. Prepare the components of the FARE and stow them in the containers according to paragraph 6-5. Secure the containers as shown in Figure 9-5.



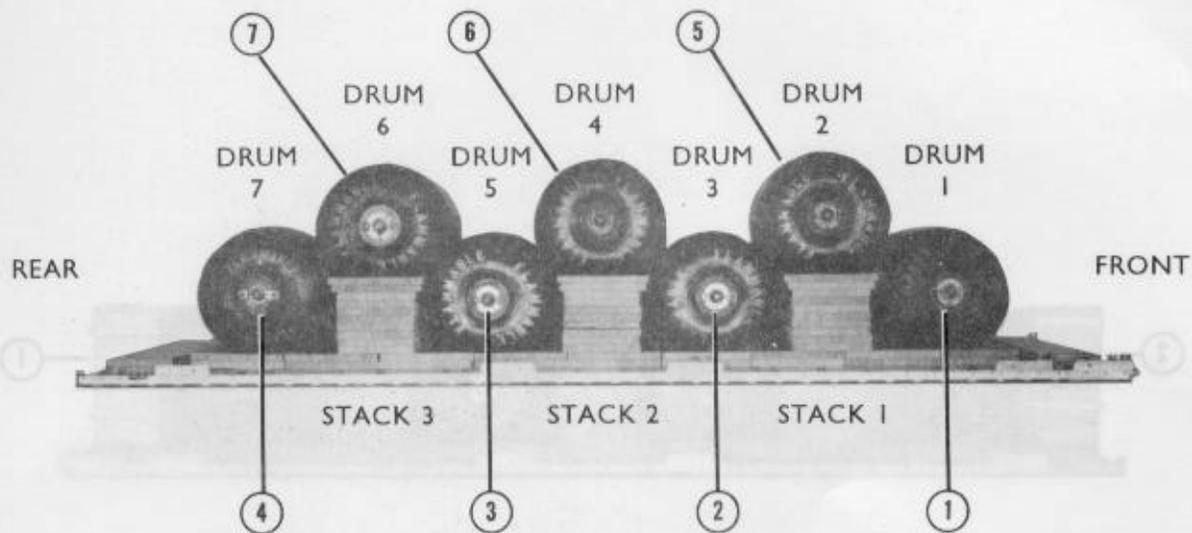
- ① Secure the containers according to paragraph 6-6 except position the vertical lashings so that the load binders are on the side of the containers.

Figure 9-5. Container secured

9-5. Installing Lifting Slings and Positioning Fuel Drums

Before lifting, check each fuel drum and fittings for leaks and damage. Be sure each end of each fuel drum has two lifting shackles. Attach a 12-foot (2-loop), type XXVI nylon webbing sling to

each fuel drum lifting shackle by adapting the procedures in paragraph 6-8 and as shown in Figure 6-16. Position the fuel drums as shown in Figure 9-6.



- ① Place drum 1 flush against the front of stack 1.
- ② Place drum 3 between stacks 1 and 2.
- ③ Place drum 5 between stacks 2 and 3.
- ④ Place drum 7 flush against the rear of stack 3.
- ⑤ Center drum 2 on top of stack 1.
- ⑥ Center drum 4 on top of stack 2.
- ⑦ Center drum 6 on top of stack 3.

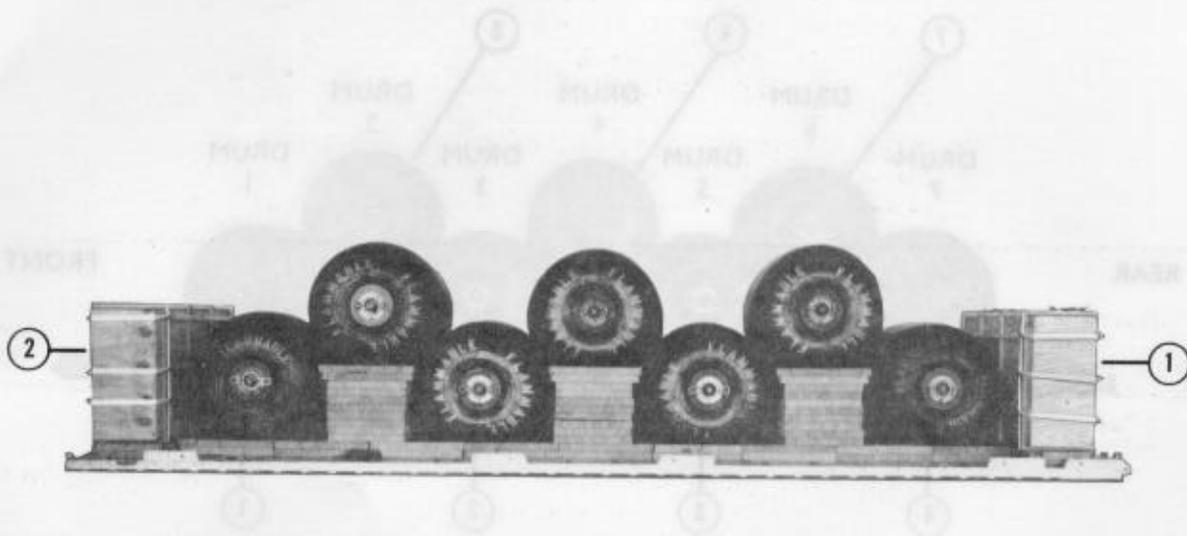
Figure 9-6. Fuel drums positioned

9-6. Installing Lifting Slings and Positioning FARE Containers

Install lifting slings to the FARE containers as shown in Figure 6-14. Position the FARE containers as shown in Figure 9-7.

9-7. Lashing FARE Containers and Fuel Drums to Platform

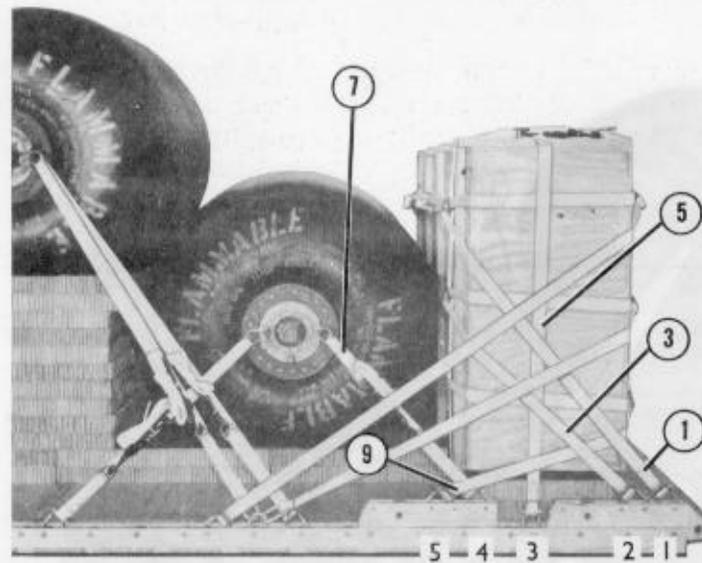
Lash the FARE containers and fuel drums to the platform using sixty-two 15-foot tie-down assemblies as shown in Figures 9-8 through 9-13. Secure the lashings according to FM 10-500-2/TO 13C7-1-5.



- Notes: 1. Containers should be positioned so that the load binders are facing the ends of the platform.
2. No load binders must be on top of container 2.

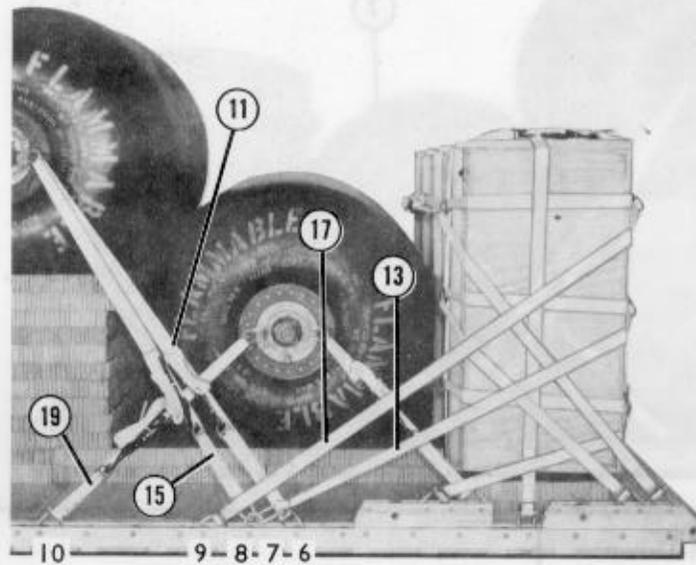
- ① Center container 1 flush with the front edge of the base layers of honeycomb.
② Center container 2 flush with the rear edge of the base layers of honeycomb.

Figure 9-7. FARE containers positioned



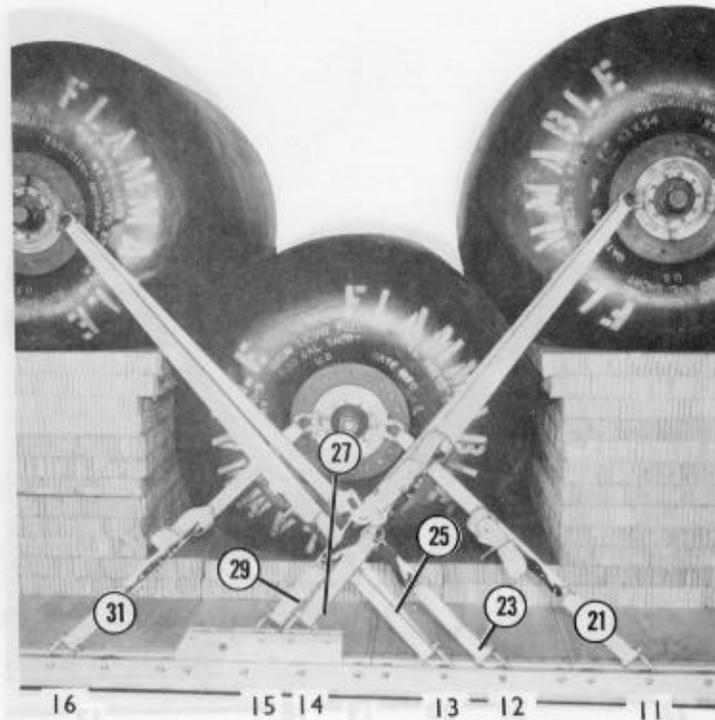
Lashing Number	Tie-Down Clevis Number	Instructions
1	1	Pass lashing:
2	1A	Through its own D-ring and through the top rings on the rear of container 1. Bind lashing 2 to lashing 1 with two D-rings and a load binder.
3	2	Through its own D-ring and through the middle rings on the rear of container 1.
4	2A	Through its own D-ring and through the middle rings on the rear of container 1. Bind lashing 4 to lashing 3 with two D-rings and a load binder.
5	3	Through its own D-ring and over the top of container 1.
6	3A	Through its own D-ring and over the top of container 1. Bind lashing 6 to lashing 5 with two D-rings and a load binder.
7	4	To the front shackle on drum 1.
8	4A	To the front shackle on drum 1.
9	5	Through its own D-ring and through the bottom rings on the front of container 1
10	5A	Through its own D-ring and through the bottom rings on the front of container 1. Bind lashing 10 to lashing 9 with two D-rings and a load binder.

Figure 9-8. Lashings 1 through 10 installed



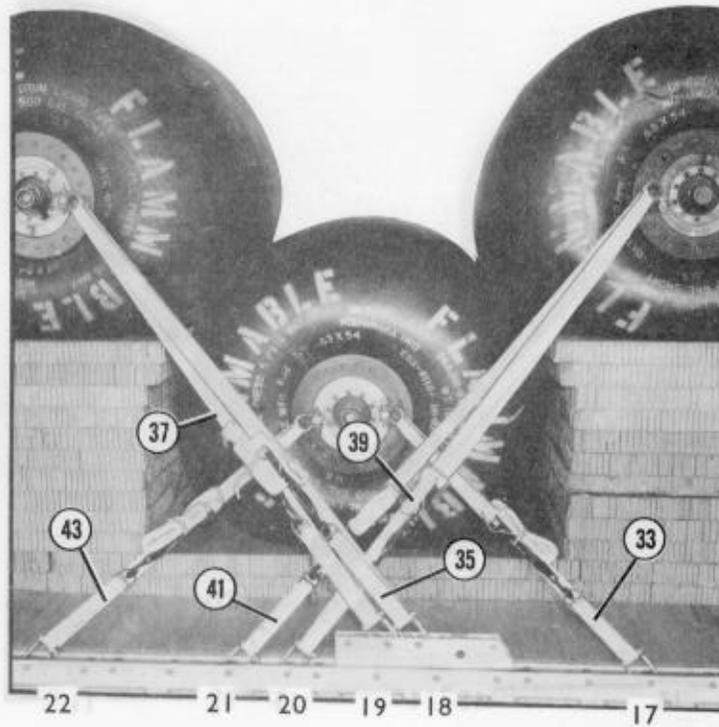
Lashing Number	Tie-Down Clevis Number	Instructions
11	6	Pass lashing: To the front shackle on drum 2.
12	6A	To the front shackle on drum 2.
13	7	Through its own D-ring and through the middle rings on the front of container 1.
14	7A	Through its own D-ring and through the middle rings on the front of container 1. Bind lashing 14 to lashing 13 with two D-rings and a load binder.
15	8	To the front shackle on drum 2.
16	8A	To the front shackle on drum 2.
17	9	Through its own D-ring and through the top rings on the front of container 1.
18	9A	Through its own D-ring and through the top rings on the front of container 1. Bind lashing 18 to lashing 17 with two D-rings and a load binder.
19	10	To the rear shackle on drum 1.
20	10A	To the rear shackle on drum 1.

Figure 9-9. Lashings 11 through 20 installed



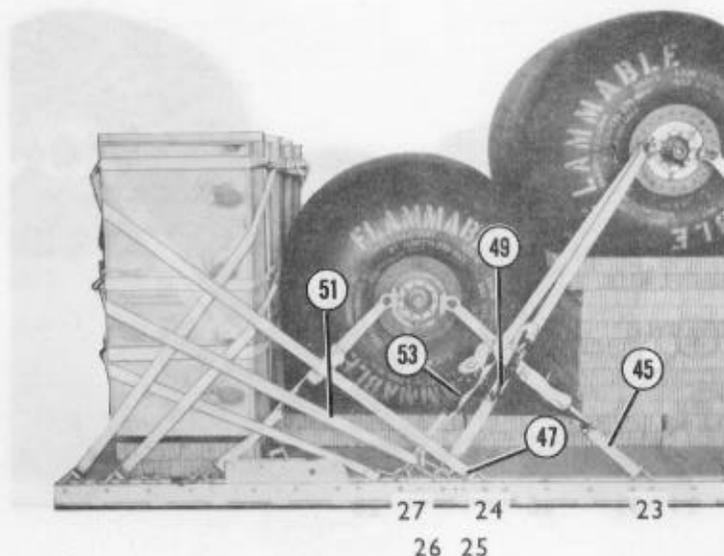
Lashing Number	Tie-Down Clevis Number	Instructions
21	11	Pass lashing: To the front shackle on drum 3.
22	11A	To the front shackle on drum 3.
23	12	To the front shackle on drum 4.
24	12A	To the front shackle on drum 4.
25	13	To the front shackle on drum 4.
26	13A	To the front shackle on drum 4.
27	14	To the rear shackle on drum 2.
28	14A	To the rear shackle on drum 2.
29	15	To the rear shackle on drum 2.
30	15A	To the rear shackle on drum 2.
31	16	To the rear shackle on drum 3.
32	16A	To the rear shackle on drum 3.

Figure 9-10. Lashings 21 through 32 installed



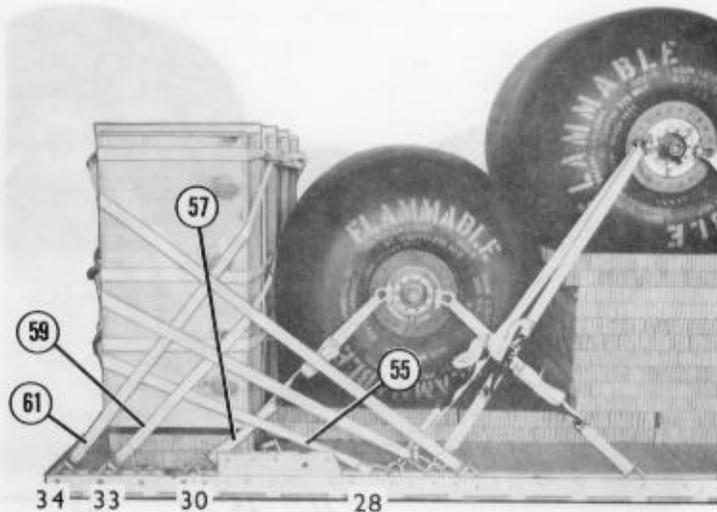
Lashing Number	Tie-Down Clevis Number	Instructions	Lashing Number
		Pass lashing:	
33	17	To the front shackle on drum 5.	33
34	17A	To the front shackle on drum 5.	34
35	18	To the front shackle on drum 6.	35
36	18A	To the front shackle on drum 6.	36
37	19	To the front shackle on drum 6.	37
38	19A	To the front shackle on drum 6.	38
39	20	To the rear shackle on drum 4.	39
40	20A	To the rear shackle on drum 4.	40
41	21	To the rear shackle on drum 4.	41
42	21A	To the rear shackle on drum 4.	42
43	22	To the rear shackle on drum 5.	43
44	22A	To the rear shackle on drum 5.	44

Figure 9-11. Lashings 33 through 44 installed



Lashing Number	Tie-Down Clevis Number	Instructions
45	23	Pass lashing: To the front shackle on drum 7.
46	23A	To the front shackle on drum 7.
47	24	Through its own D-ring and through the top rings on the rear of container 2.
48	24A	Through its own D-ring and through the top rings on the rear of container 2. Bind lashing 48 to lashing 47 with two D-rings and a load binder.
49	25	To the rear shackle on drum 6.
50	25A	To the rear shackle on drum 6.
51	26	Through its own D-ring and through the middle rings on the rear of container 2.
52	26A	Through its own D-ring and through the middle rings on the rear of container 2. Bind lashing 52 to lashing 51 with two D-rings and a load binder.
53	27	To the rear shackle on drum 6.
54	27A	To the rear shackle on drum 6.

Figure 9-12. Lashings 45 through 54 installed



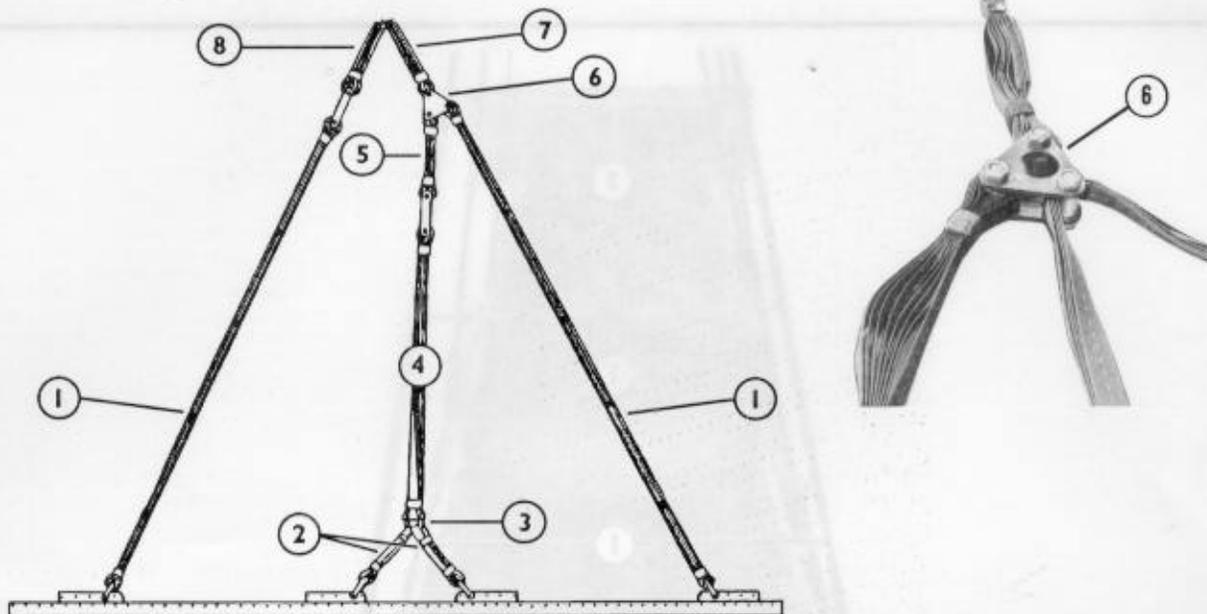
Lashing Number	Tie-Down Clevis Number	Instructions
55	28	Pass lashing: Through its own D-ring and through the bottom rings on the rear of container 2.
56	28A	Through its own D-ring and through the bottom rings on the rear of container 2. Bind lashing 56 to lashing 55 with two D-rings and a load binder.
57	30	To the rear shackle on drum 7.
58	30A	To the rear shackle on drum 7.
59	33	Through its own D-ring and through the middle rings on the front of container 2.
60	33A	Through its own D-ring and through the middle rings on the front of container 2. Bind lashing 60 to lashing 59 with two D-rings and a load binder.
61	34	Through its own D-ring and through the top rings on the front of container 2.
62	34A	Through its own D-ring and through the top rings on the front of container 2. Bind lashing 62 to lashing 61 with two D-rings and a load binder.

Figure 9-13. Lashings 55 through 62 installed

9-8. Installing Suspension Slings

Install suspension slings as shown in Figure 9-14.

Note: This drawing is not drawn to scale.

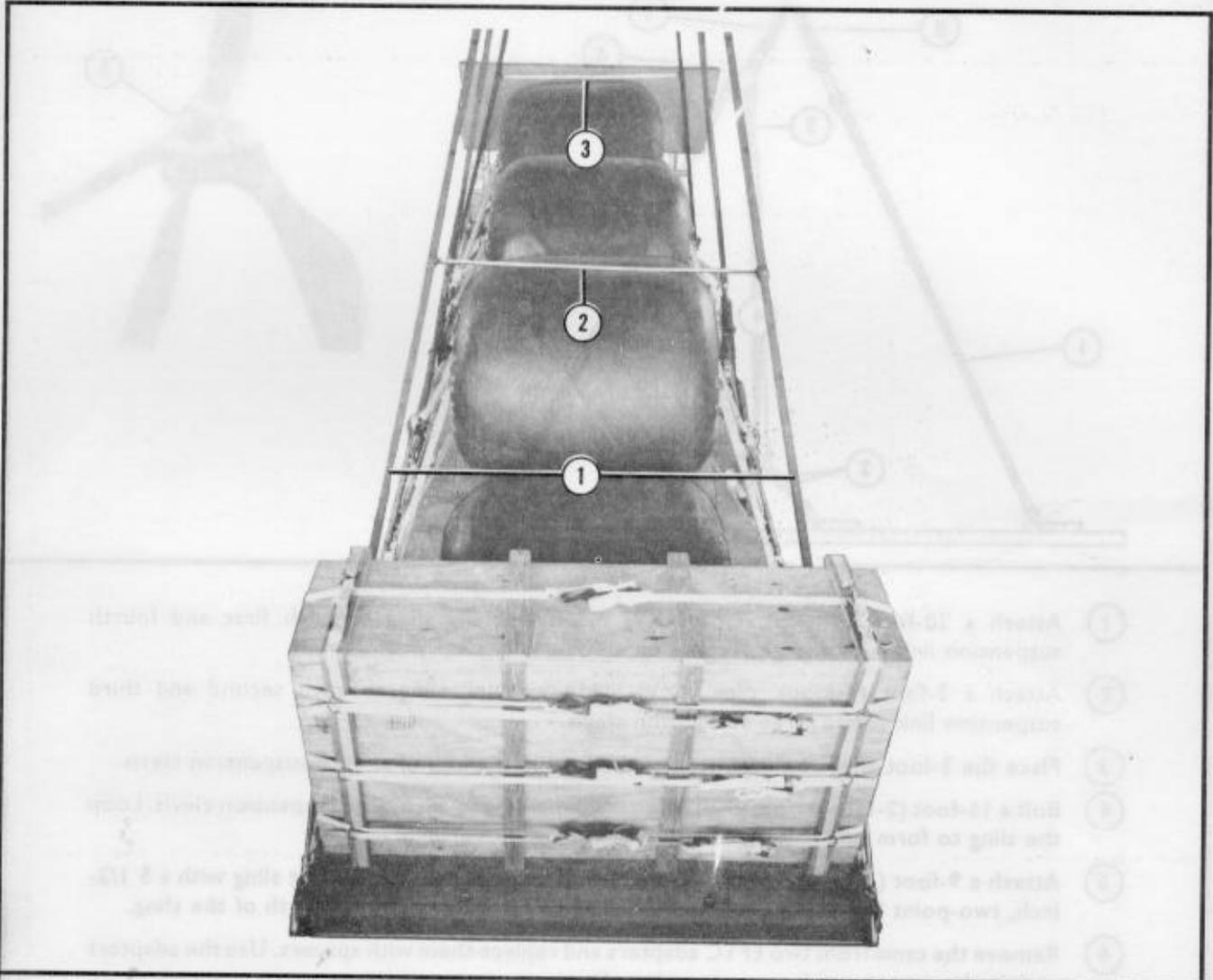


- ① Attach a 20-foot (4-loop), type XXVI nylon webbing sling to each first and fourth suspension link with a large suspension clevis.
- ② Attach a 3-foot (4-loop), type XXVI nylon webbing sling to each second and third suspension link with a large suspension clevis.
- ③ Place the 3-foot slings on each side of the load in the bell of a large suspension clevis.
- ④ Bolt a 16-foot (2-loop), type XXVI nylon webbing sling to each large suspension clevis. Loop the sling to form one half the length of the sling.
- ⑤ Attach a 9-foot (2-loop), type XXVI nylon webbing sling to the 16-foot sling with a 5 1/2-inch, two-point link assembly. Loop the sling to form one half the length of the sling.
- ⑥ Remove the cams from two EFTC adapters and replace them with spacers. Use the adapters to join the center and front suspension slings.
- ⑦ Place a 3-foot (4-loop), type XXVI nylon webbing sling on the top spool of each coupling adapter.
- ⑧ Attach a 3-foot (4-loop), type XXVI nylon webbing sling to each rear suspension sling with a 3 3/4-inch, two-point link assembly.
- ⑨ Place pressure-sensitive tape around the bolt and nut on all connecting links (not shown).

Figure 9-14. Suspension slings installed

9-9. Safetying Suspension Slings

Safety the suspension slings as shown in Figure 9-15.



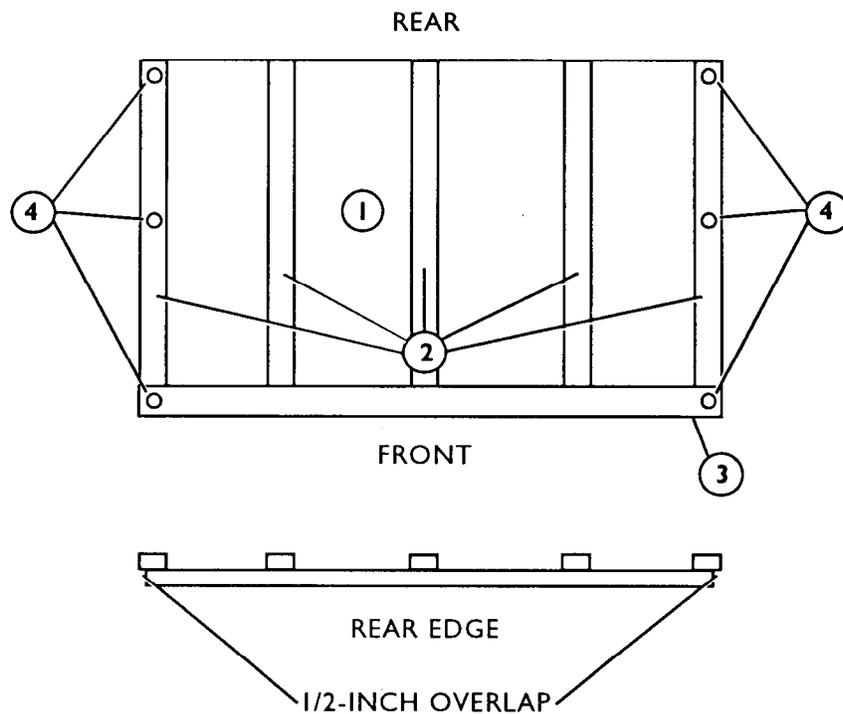
- ① Raise the suspension slings.
- ② Tie a double length of 1/2-inch tubular nylon webbing between the front suspension slings at the same height as the top of drum 2.
- ③ Tie a double length of 1/2-inch tubular nylon webbing between the rear suspension slings at the same height as the top of drum 6.

Figure 9-15. Suspension slings safetied

9-10. Building and Installing Cargo Parachute Stowage Tray

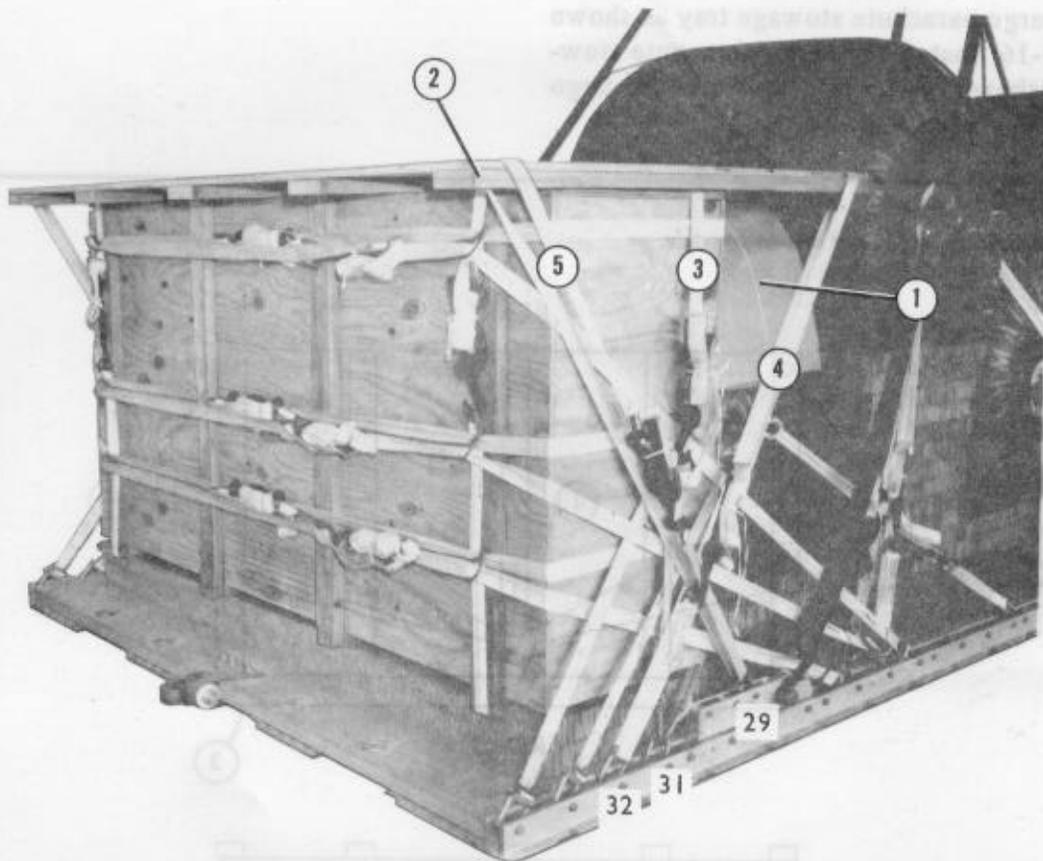
Build the cargo parachute stowage tray as shown in Figure 9-16. Install the cargo parachute stowage tray as shown in Figure 9-17. Stow the cargo parachutes as shown in Figure 9-18.

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



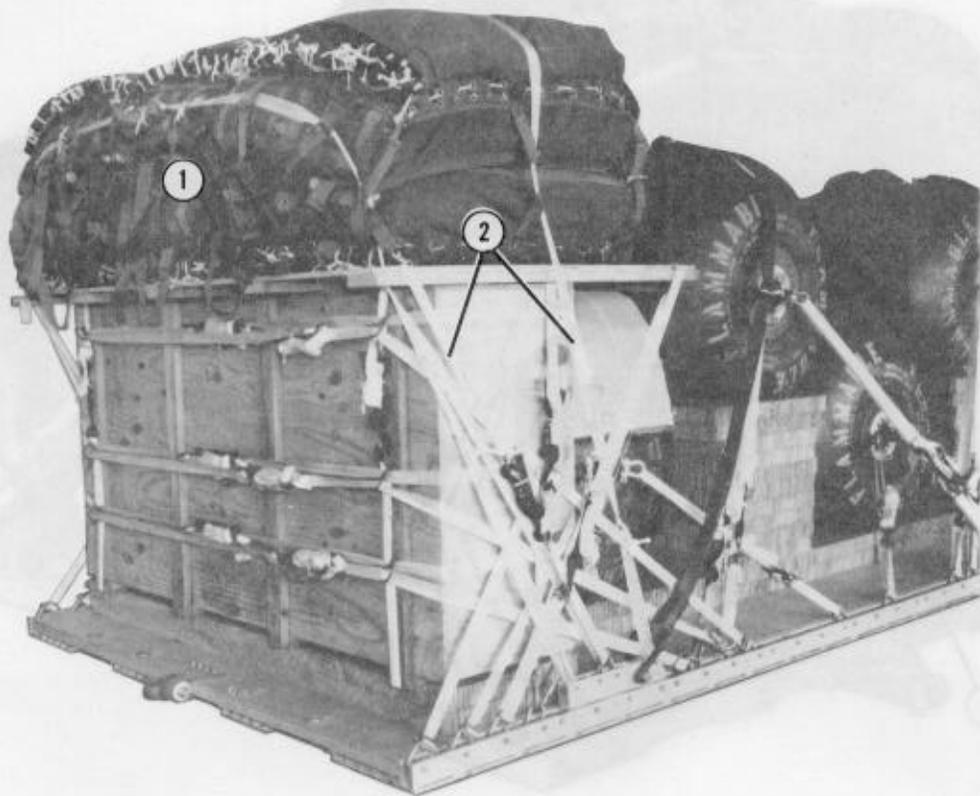
- ① Lay a 96- by 48-inch and a 96- by 12-inch piece of plywood side by side.
- ② Nail five 2- by 6- by 60-inch pieces of lumber to the plywood using eightpenny nails as shown above.
- ③ Nail a 2- by 6- by 97-inch piece of lumber over the lateral pieces of lumber on the front edge of the tray using eightpenny nails.
- ④ Drill six holes 3 inches on center from the edges of the plywood as shown above.

Figure 9-16. Cargo parachute stowage tray built



- ① Center a 24- by 96-inch piece of honeycomb over drum 7. Tape the top edges and secure the honeycomb to the drum with type III nylon cord.
- ② Center the parachute tray over container 2 with the 2- by 6- by 97-inch piece of lumber resting on the honeycomb over drum 7.
- ③ Attach 15-foot tie-down assemblies to clevises 31 and 31A by running the straps through their own D-rings. Run the straps through the center holes in the tray and secure them together with D-rings and a load binder on the side of the load.
- ④ Adapt step 3 for the front holes of the parachute tray and clevises 32 and 32A.
- ⑤ Adapt step 3 for the rear holes of the parachute tray and clevises 29 and 29A.

Figure 9-17. Cargo parachute stowage tray installed

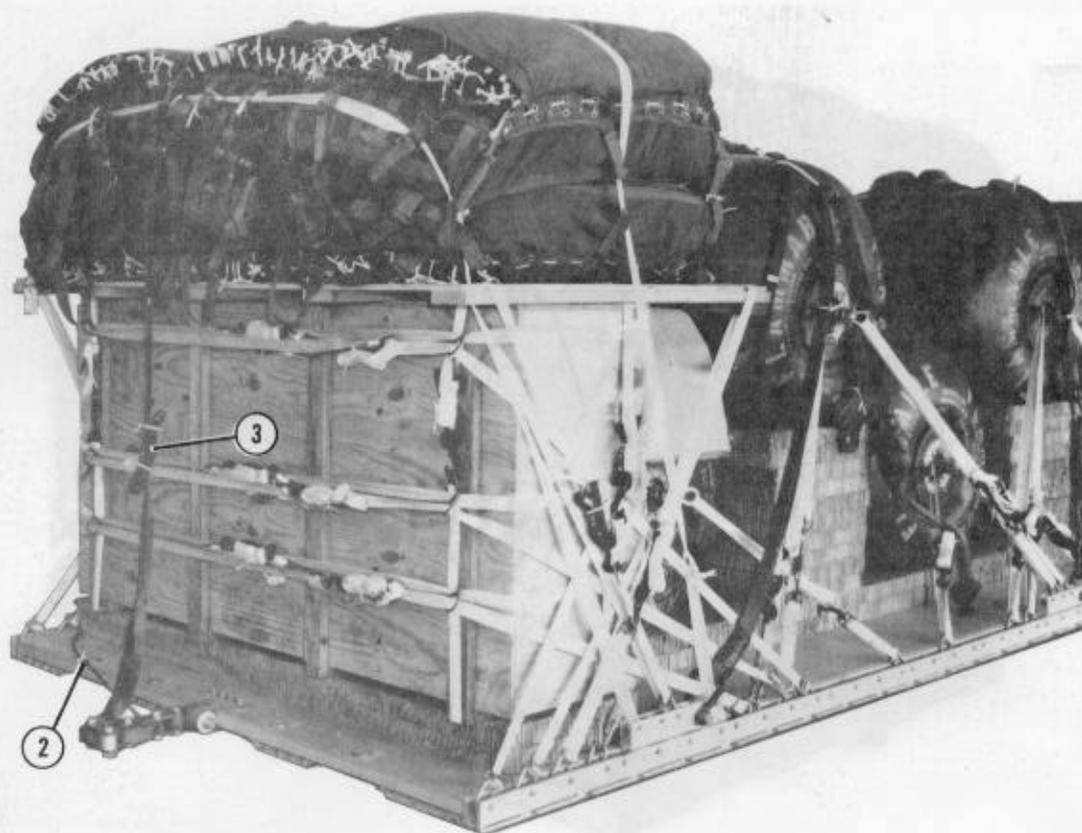


- ① Position and secure six G-11C cargo parachutes according to FM 10-500-2/TO 13C7-1-5.
- ② Restrain the parachutes to bushings 1 and 4 on the fourth suspension links.

Figure 9-18. Cargo parachutes stowed

9-11. Installing Extraction System

Install the EFTC as shown in Figure 9-19.

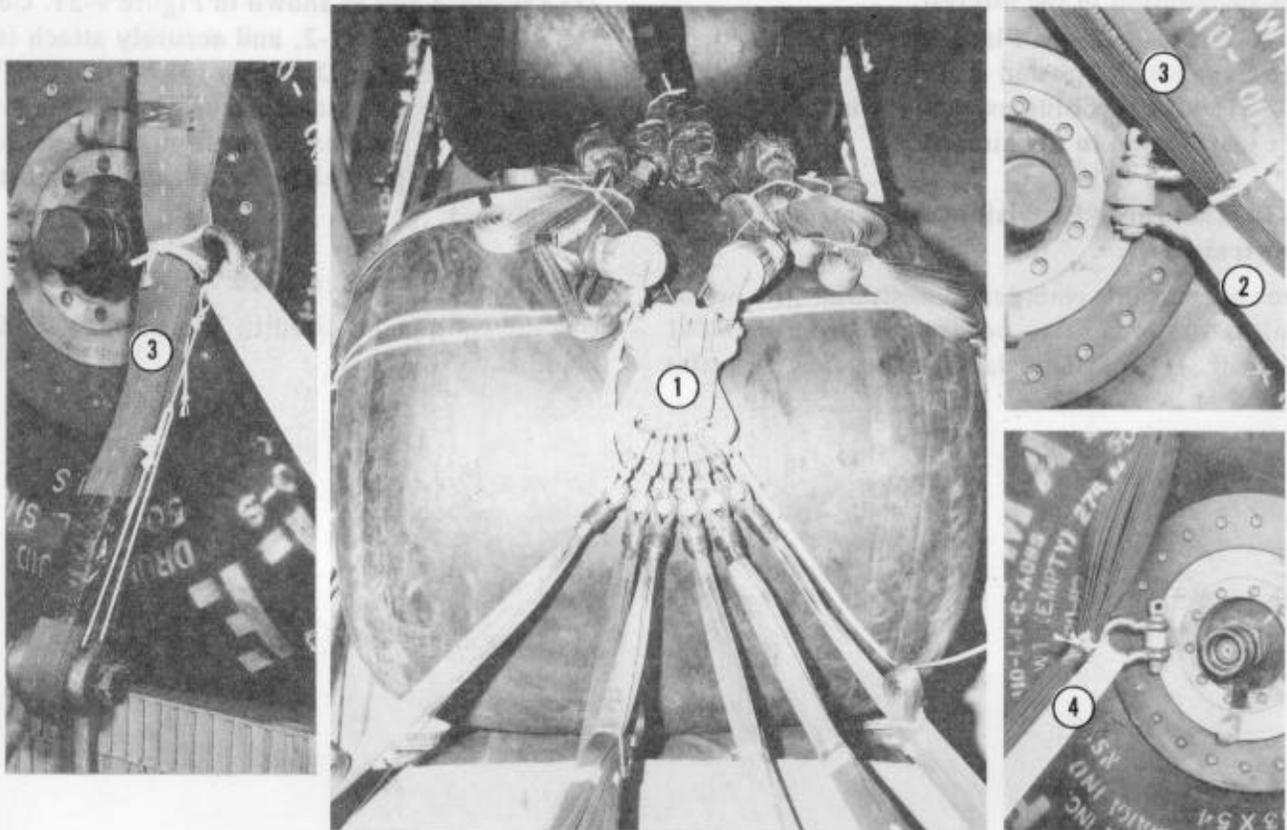


- ① Install the mounting brackets of the EFTC to the rearmost holes on the left platform side rail according to FM 10-500-2/TO 13C7-1-5 (not shown).
- ② Install a 28-foot cable to the actuator assembly. Allow no loops and S-fold the cable to take up the slack according to FM 10-500-2/TO 13C7-1-5.
- ③ Attach a 9-foot (2-loop), type XXVI nylon webbing sling as a deployment line.

Figure 9-19. EFTC installed

9-12. Installing Parachute Release System

Install the M-2 cargo parachute release system according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 9-20.



- ① Install the M-2 cargo parachute release system according to FM 10-500-2/TO 13C7-1-5.
- ② Tie the front suspension sling to the front shackle on drum 2 on each side using one turn double of type I, 1/4-inch cotton webbing.
- ③ Tie the center suspension sling assembly to the front shackle on drum 4 on each side with one turn double of type I, 1/4-inch cotton webbing.
- ④ Tie the rear suspension sling to the rear shackle on drum 6 by adapting the procedures in steps 2 and 3.

Figure 9-20. M-2 cargo parachute release system installed

9-13. Positioning Extraction Parachutes

Position the extraction parachutes as described below.

a. C-130 Aircraft. Place two 28-foot cargo extraction parachutes and a 60-foot (6-loop), type XXVI nylon webbing extraction line on the load for installation in the aircraft.

b. C-141 Aircraft. Place one 28-foot cargo extraction parachute and a 140-ft (3-loop), type XXVI nylon webbing extraction line on the load for installation in the aircraft.

9-14. Installing Provisions for Emergency Restraints

Do not install emergency restraint provisions unless the load is to be dropped from a C-141 aircraft. If so, attach large emergency restraint

clevises to the tandem links according to FM 10-500-2/TO 13C7-1-5.

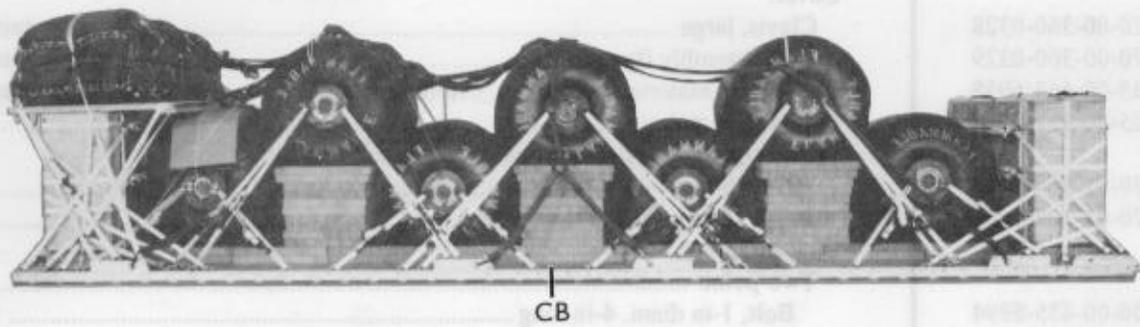
9-15. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 9-21. Complete DD Form 1387-2, and securely attach it to the load. Indicate on DD Form 1387-2 that the fuel drums have been prepared according to AFR 71-4/TM 38-250. If the load varies from the one shown in Figure 9-21, the weight, height, and CB must be recomputed.

9-16. Equipment Required

Use the equipment listed in Table 9-1 to rig this load.

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



Note: A reversed print of the rigged load is used in the above photo.

RIGGED LOAD DATA

Weight:	Load shown	28,000 pounds
	Maximum load allowed	30,000 pounds
Height		95 inches
Width		108 inches
Length		384 inches
Overhang:	Front	0 inches
	Rear	0 inches
CB (from front edge of platform)		202 inches
Extraction System		EFTC

Figure 9-21. FARE with seven 500-gallon fuel drums rigged for low-velocity airdrop on a type V platform

Table 9-1. Equipment required for rigging FARE with seven 500-gallon fuel drums for low-velocity airdrop on a type V 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)	10
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
	Cover:	
1670-00-360-0328	Clevis, large	As required
1670-00-360-0329	Link assembly (type IV)	As required
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
5365-00-937-0147	D-ring, heavy-duty, 10,000-lb	24
	Line, extraction, type XXVI nylon webbing:	
1670-01-064-4454	60-ft (6-loop) (C-130)	1
1670-01-107-7651	140-ft (3-loop) (C-141)	1
	Link assembly:	
	Two-point:	3
5306-00-435-8994	Bolt, 1-in diam, 4-in long	(6)
5310-00-232-5165	Nut, 1-in, hexagonal	(6)
	Plate, side:	
1670-00-003-1953	3 3/4-in	(4)
1670-00-003-1954	5 1/2-in	(2)
5365-00-007-3414	Spacer, large	(6)
1670-00-783-5988	Type IV	6
	Lumber:	
5510-00-220-6146	2- by 4-in:	
	24-in	8
	27-in	8
	50 1/4-in	16
5510-00-220-6148	2- by 6-in:	
	60-in	5
	97-in	1
5315-00-010-4659	Nail, steel wire, common, 8d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in:	32 sheets
	8- by 22-in	(2)
	22- by 23-in	(2)
	22- by 32-in	(6)
	22- by 36-in	(6)
	22- by 94-in	(2)
	24- by 96-in	(1)
	60- by 30-in	(26)
	60- by 34-in	(3)
	60- by 36-in	(16)
	96- by 24-in	(4)

Table 9-1. Equipment required for rigging FARE with seven 500-gallon fuel drums for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
1670-01-016-7841	Parachute: Cargo, G-11C	6
1670-00-040-8135	Cargo extraction, heavy-duty: 28-ft (C-130)	2
1670-00-040-8135	28-ft (C-141)	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 assembly	(76)
1670-01-162-2376	Extraction bracket assembly	(1)
1670-01-247-2389	Suspension link	(8)
1670-01-162-2381	Tandem link (multipurpose)	(2)
5530-00-128-4981	Plywood, 3/4-in:	
	12- by 96-in	(1)
	22 1/2- by 48-in	(4)
	22 1/2- by 94 1/2-in	(2)
	24- by 96-in	(1)
	48- by 96-in	(5)
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 and for suspension:	
1670-01-062-6306	3-ft (4-loop)	8
1670-01-062-6304	9-ft (2-loop)	2
1670-01-062-6303	12-ft (2-loop)	14
1670-01-063-7761	16-ft (2-loop)	2
1670-01-064-4453	20-ft (4-loop)	4
	For riser extensions:	
1670-01-062-6311	120-ft (2-loop)	6
1670-00-040-8219	Strap, parachute release, multicut comes w 3 knives	1
	Tape, adhesive:	
7510-00-266-6710	Masking, 2-in	As required
7510-00-266-5016	PSA, cloth back, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	114
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type I	As required

Table 9-1. Equipment required for rigging FARE with seven 500-gallon fuel drums for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
8305-00-082-5752	Nylon: Tubular: 1/2-in, natural	As required
8305-00-268-2453	1/2-in, olive drab	As required
8305-00-261-8584	Type X, treated, olive drab	As required
8303-00-260-6890	Type X, untreated	As required

GLOSSARY

ACB - attitude control bar
AD - airdrop
AFB - Air Force base
AFR - Air Force regulation
AFTO - Air Force technical order
ALC - Air Logistics Center
ARNG - Army National Guard
attn - attention
c - change
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
FARE - forward area refueling equipment
ft - foot/feet
FM - field manual
gal - gallon
HMMWV - high mobility multi-purpose wheeled vehicle
HQ - headquarters
in - inch
LAPE - low-altitude parachute extraction
LAPES - low-altitude parachute extraction system
lb - pound
MAC - Military Airlift Command
MD - Maryland
NO - number
NSN - national stock number
PEFTC - extraction force transfer coupling (platform)
qty - quantity
rqr - required
SL/CS - static line/connector strap
TM - technical manual
TO - technical order
TRADOC - United States Army Training and Doctrine Command
TX - Texas
US - United States
USAR - United States Army Reserve
w - with

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