

Section III

**RIGGING TDARS AND SIX STINGER MISSILES IN A
DOUBLE A-22 CARGO BAG**

3-28. Description of Load

The TDARS with six stinger missiles is rigged in a double A-22 cargo bag for low-velocity airdrop. The TDARS load components are a quadropod container, an antenna container, a transceiver container, a generator, five 5-gallon fuel cans, and six stinger missile containers. This load may be airdropped from C-130 or C-141 aircraft.

3-29. Building Skid Board

Build a skid board for a double A-22 cargo bag using a 3/4- by 48- by 96-inch piece of plywood as shown in FM 10-501/TO 13C7-1-11.

3-30. Preparing Skid Board

Prepare the skid board using a 8- by 96-inch and a 36- by 96-inch piece of honeycomb as shown in FM 10-501/TO 13C7-1-11.

3-31. Positioning A-22 Sling Assemblies

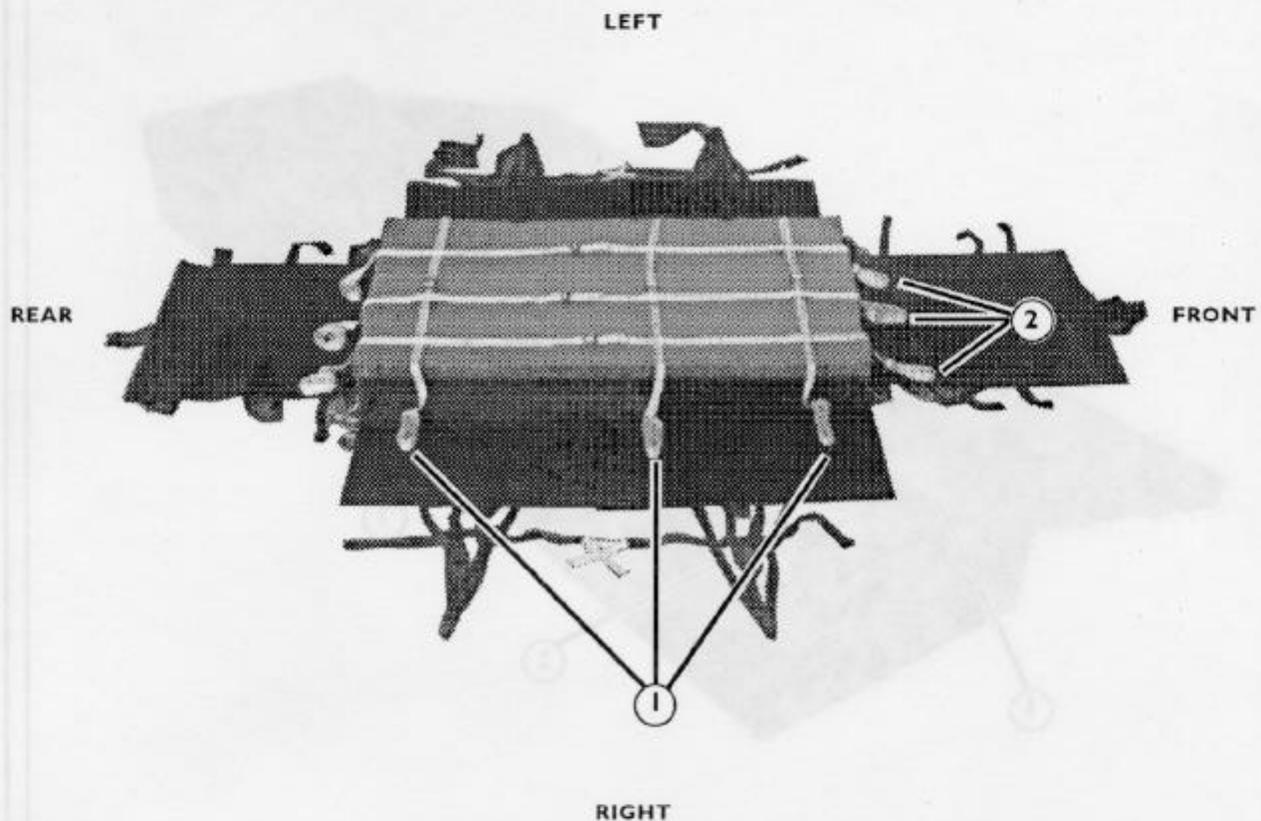
Position two A-22 cargo bag sling assemblies on the skid board as shown in FM 10-501/TO 13C7-1-11.

3-32. Positioning Covers and Honeycomb

Place the A-22 cargo bag covers and a 8- by 96-inch and a 36- by 96-inch piece of honeycomb on the skid board as shown in FM 10-501/TO 13C7-1-11.

3-33. Pre-positioning Tie-Down Lashings

Form six 30-foot tie-down lashings according to FM 10-500-2/TO 13C7-1-5 and place them on top of the honeycomb as shown in Figure 3-28.



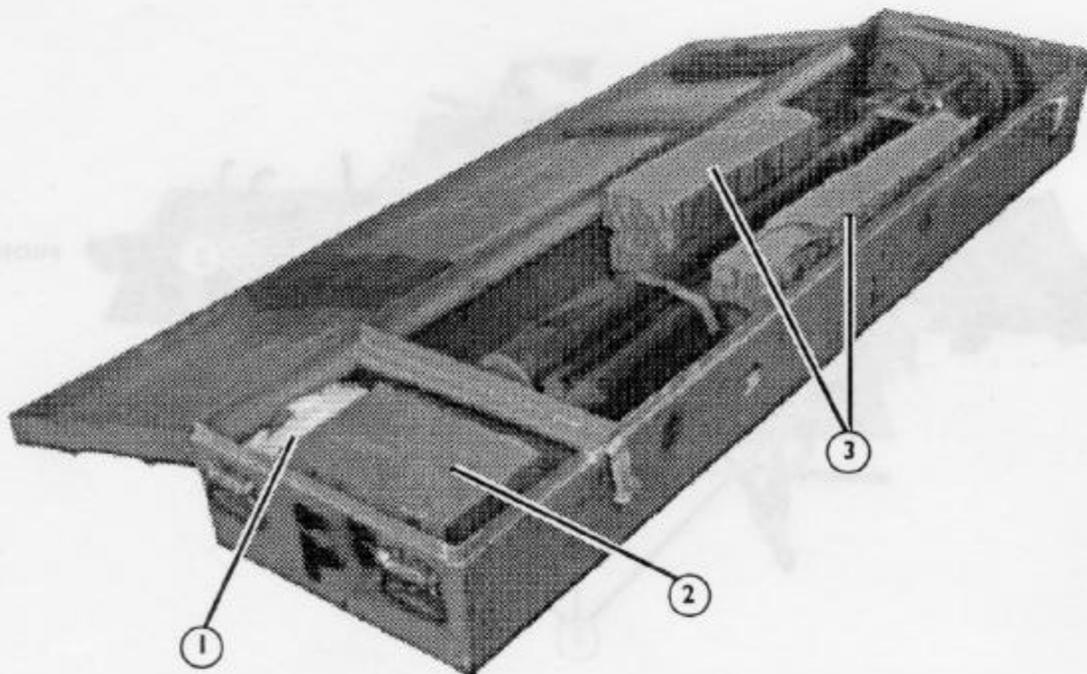
- ① Starting at the right front of the skid board, run three 30-foot tie-down lashings the width of the honeycomb at intervals of 11 inches, 18 inches, and 35 inches from the right side of the platform.
- ② Starting at the front of the skid board, run three 30-foot tie-down lashings the length of the honeycomb at intervals of 11 inches, 18 inches, and 85 inches from the front edge of the platform.

Figure 3-28. Pre-positioned tie-down lashings installed

3-34. Preparing TDARS Components

Prepare the TDARS components as shown below.

a. *Quadropod Container.* Prepare the items in the quadropod container as shown in Figure 3-29.

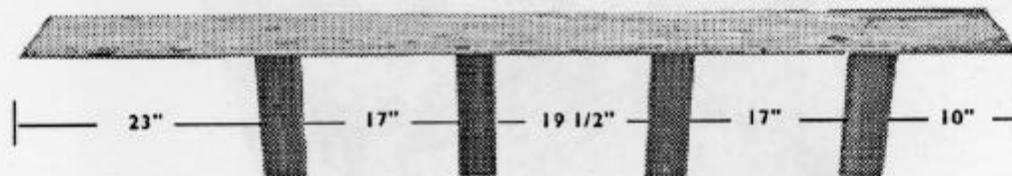


- ① Wrap the converter with cellulose wadding.
- ② Pad around the converter with honeycomb filler.
- ③ Pad around the quadropod and pedestal with honeycomb filler.
- ④ Close and latch the container lid (not shown).

Figure 3-29. Quadropod container items prepared

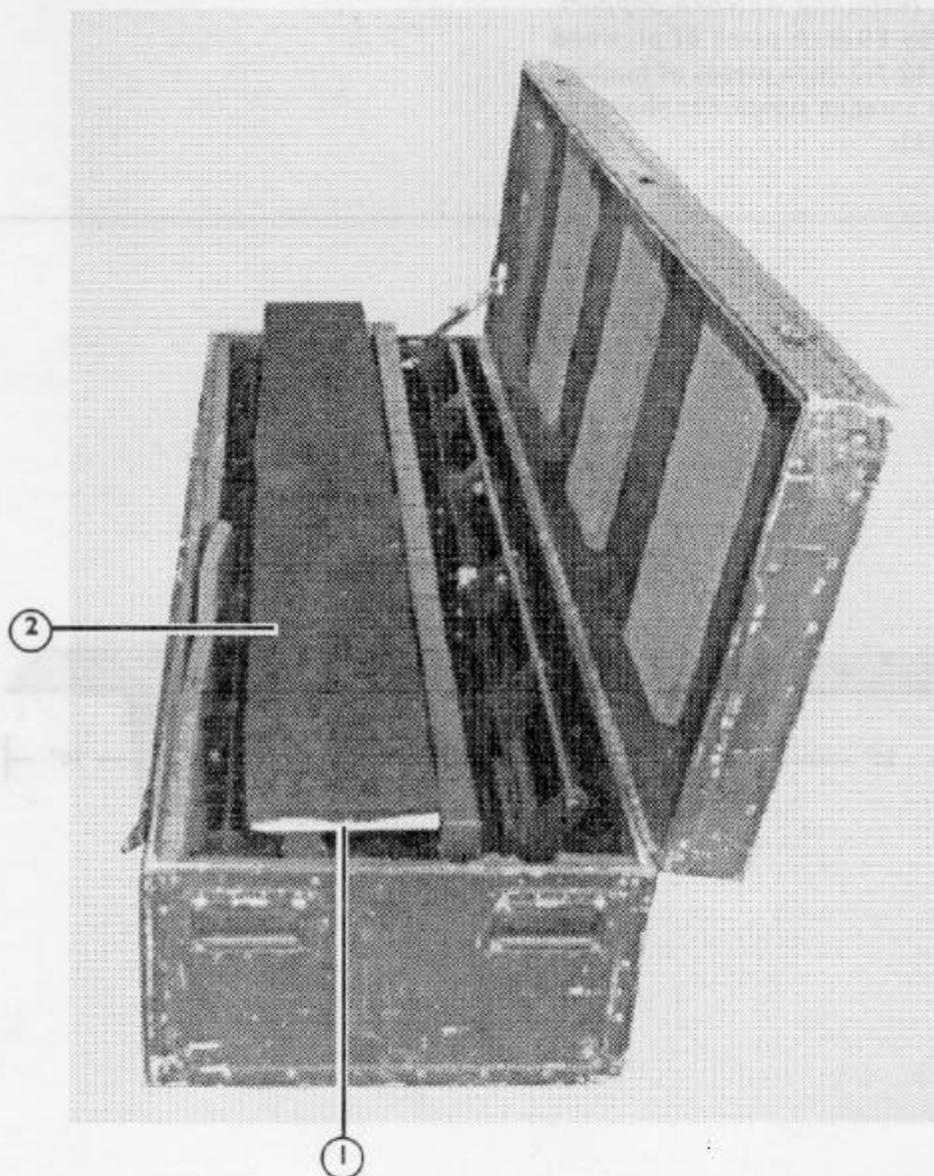
b. Building and Installing Antenna Support.

Using a 3/4- by 8- by 80-inch piece of plywood and four 2- by 4- by 12 1/2-inch pieces of lumber, build and install the antenna support as shown in Figures 3-30 and 3-31.



- ① Nail the four pieces of lumber to the center of the plywood at the intervals shown. Make sure the 4-inch side of the lumber is facing the side of the plywood piece.

Figure 3-30. Antenna support built

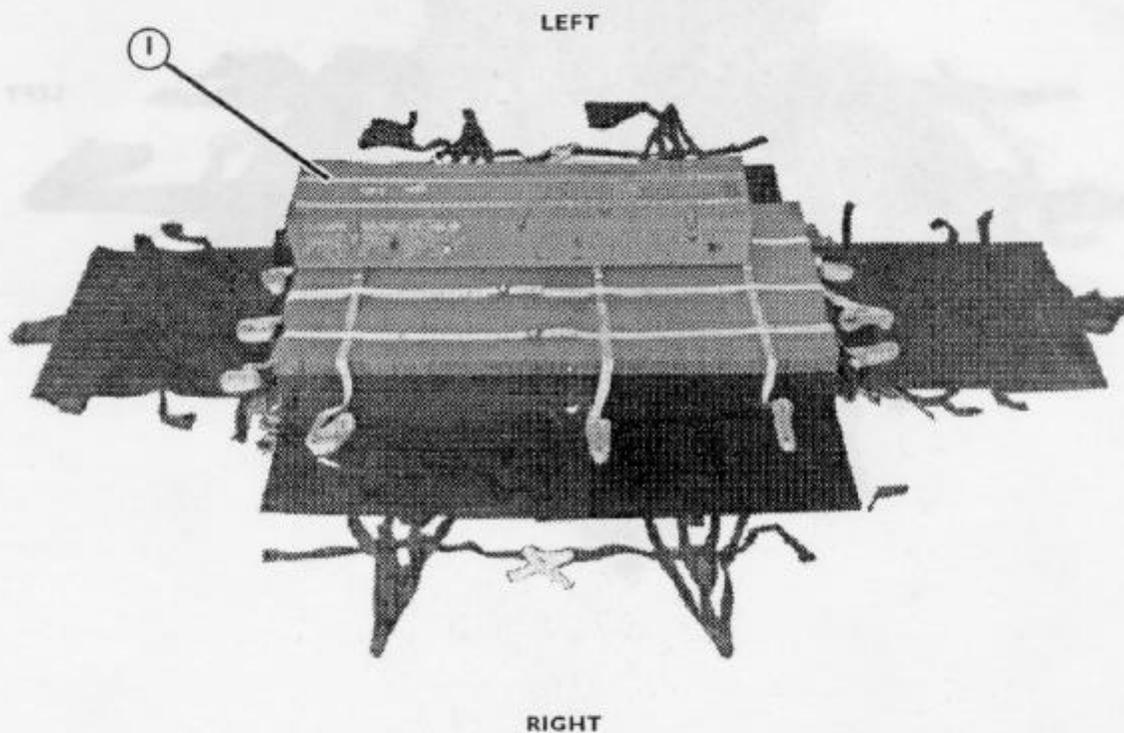


- ① Place the antenna support in the middle slot of the antenna container.
- ② Cut a piece of 1/2- by 8- by 80-inch felt and place it on top of the plywood.
- ③ Close and latch the antenna container lid (not shown).

Figure 3-31. Antenna support installed

3-35. Positioning Load

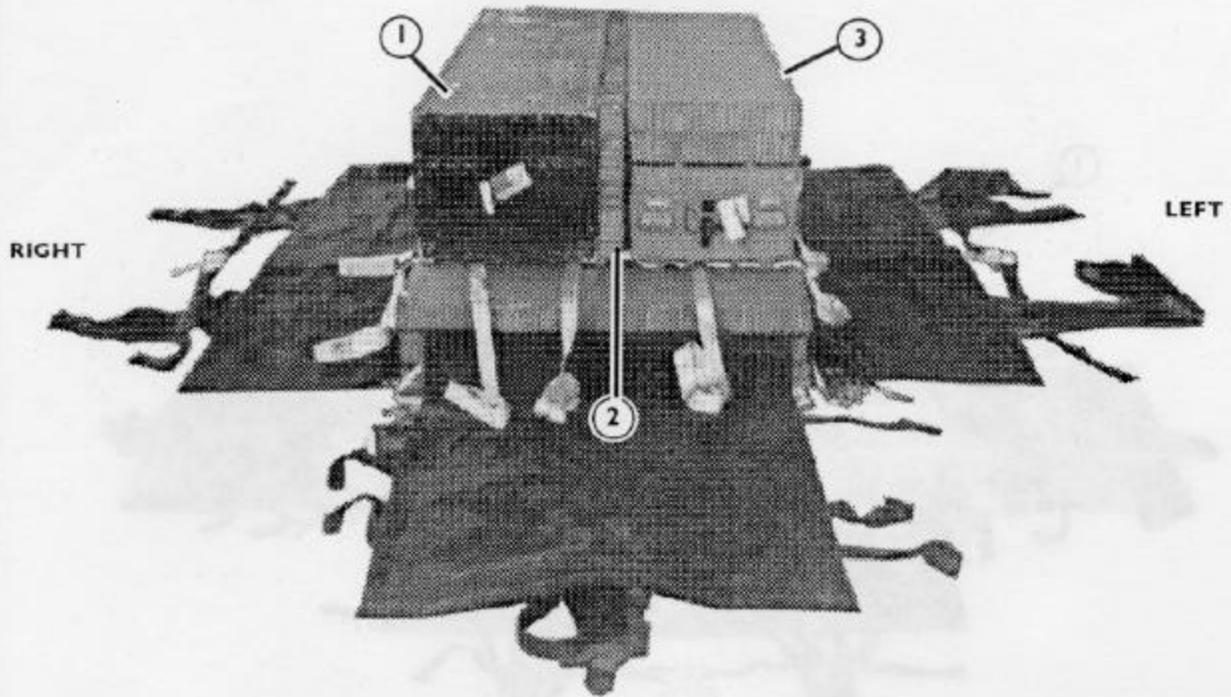
Place the items on the platform as shown in Figures 3-32 through 3-38.



- ① Place the quadropod container on the left side of the platform, flush with the rear edge of the platform.

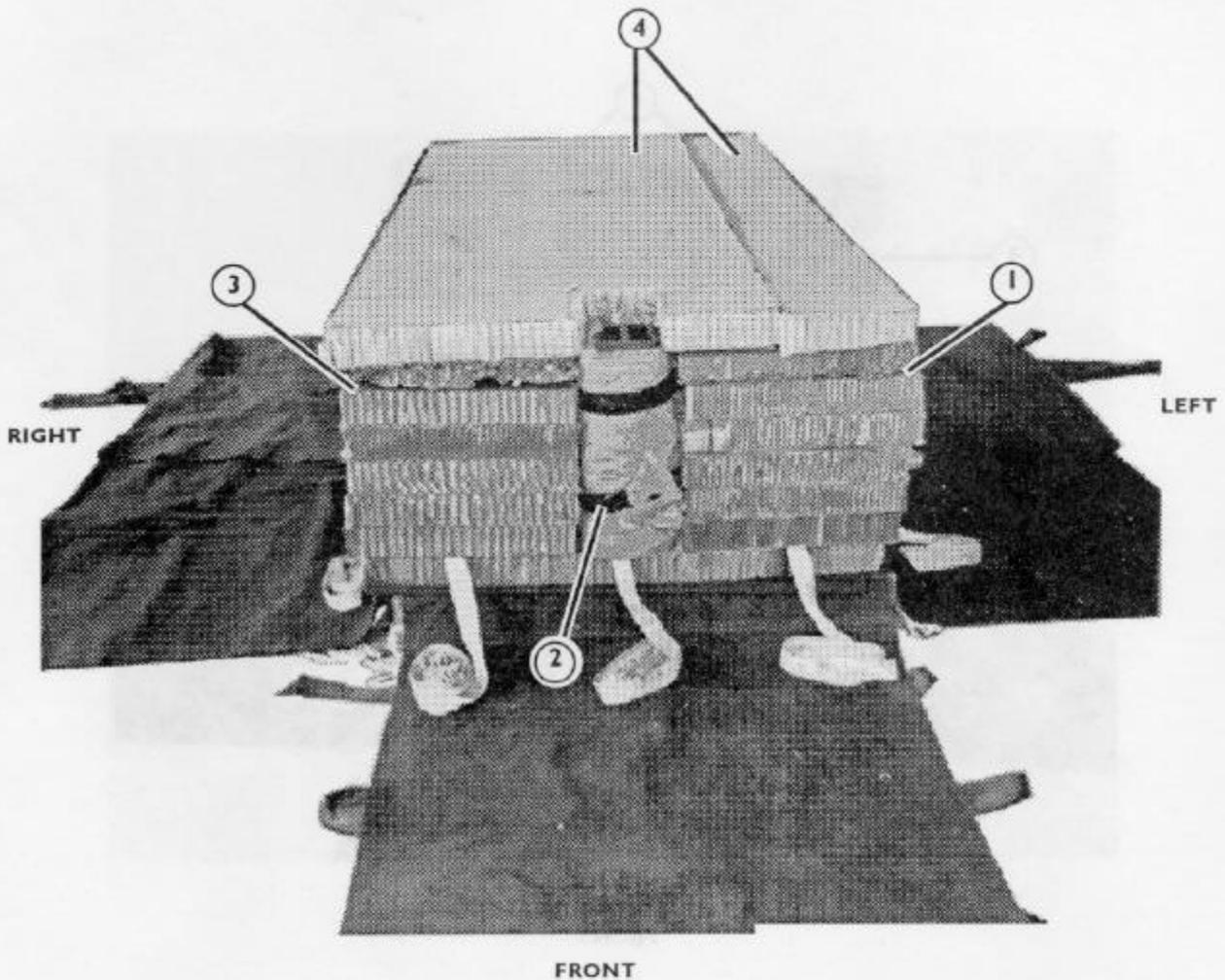
NOTE: Make sure the latches on the container are to the inside of the platform.

Figure 3-32. Quadropod container positioned on platform



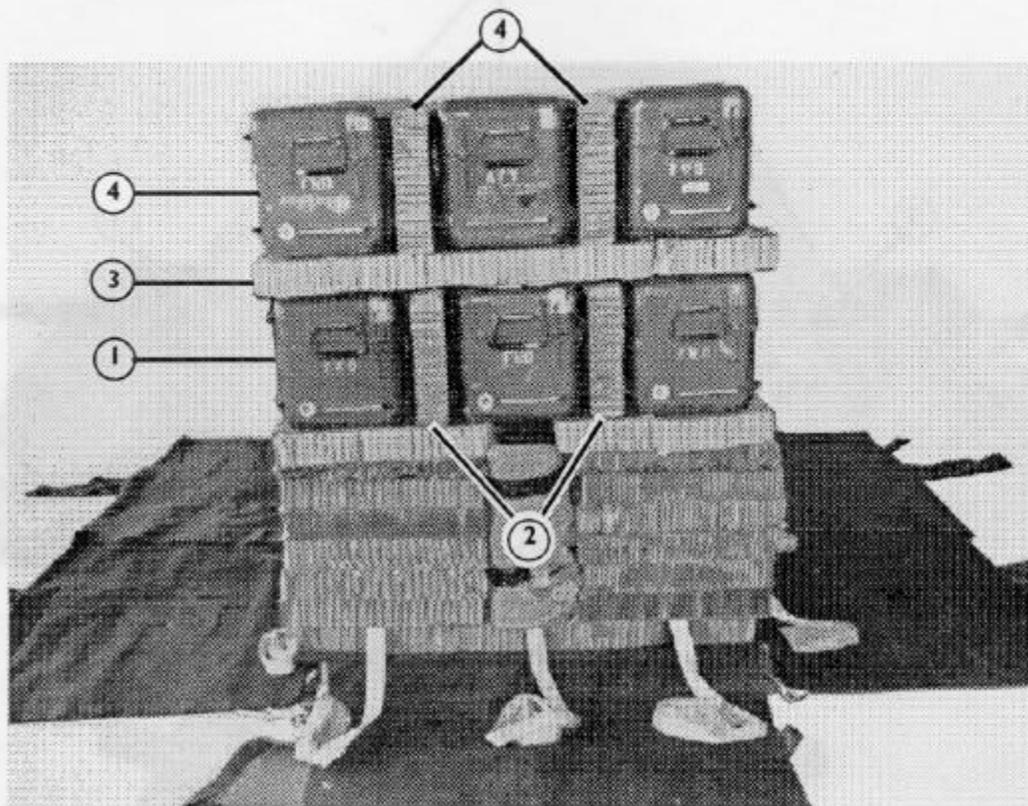
- ① Place the antenna container on the right side of the platform and flush with the rear edge of the platform.
NOTE: Make sure the latches on the container are to the inside of the platform.
- ② Place a 16- by 83 1/2-inch piece of honeycomb between the quadropod container and the antenna container.
- ③ Place two 20- by 83 1/2-inch pieces of honeycomb on top of the quadropod container.

Figure 3-33. Antenna container and honeycomb positioned on platform



- ① Place six 13- by 19-inch pieces of honeycomb on the left front edge of the platform. Crush the top pieces of honeycomb to a height of 2 inches.
NOTE: Make sure there is gasoline in the 5-gallon fuel can.
- ② Wrap a 5-gallon fuel can with cellulose wadding and tape. Place the can next to the honeycomb stack placed in step 1.
- ③ Repeat step 1, except place the stack on the right front edge of the platform.
- ④ Place a 36- by 96-inch and a 10 1/2- by 96-inch piece of honeycomb on top of the load. Make a cutout for the fuel can.

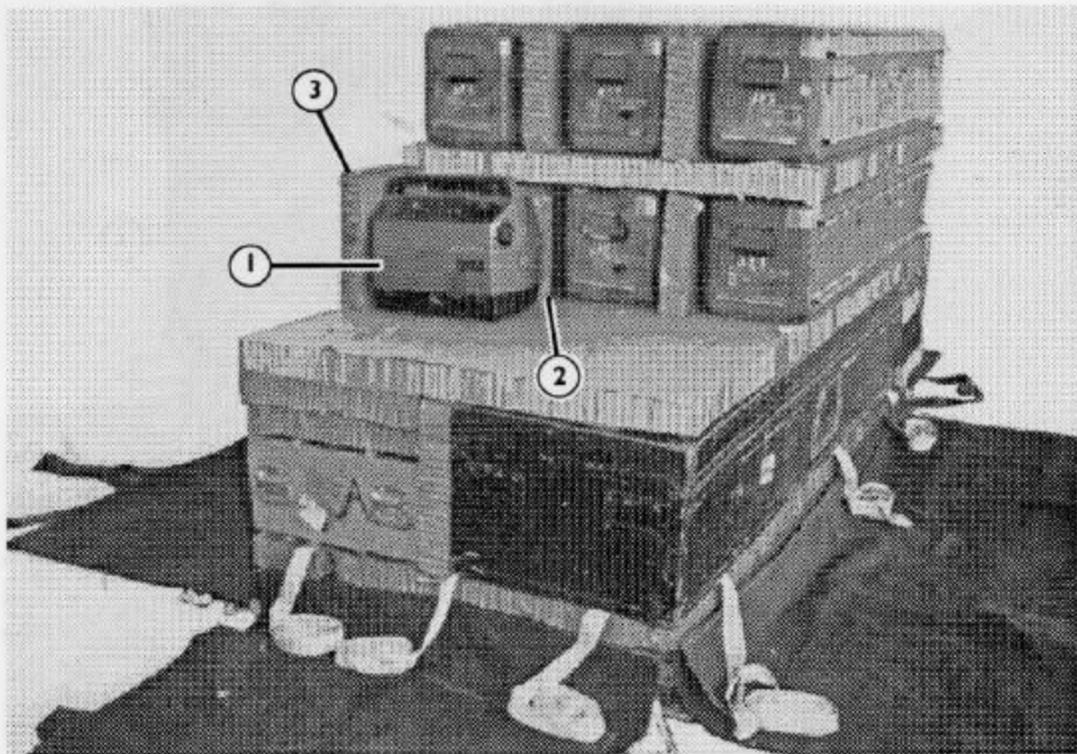
Figure 3-34. Honeycomb and fuel can positioned on platform



FRONT

- ① Place three stinger missile containers on top of the load, flush with the front edge.
- ② Place a 12- by 66-inch piece of honeycomb on each side of the middle container.
- ③ Place a 36- by 66-inch and a 10 1/2- by 66-inch piece of honeycomb on top of the stinger missile containers.
- ④ Repeat steps 1 and 2.

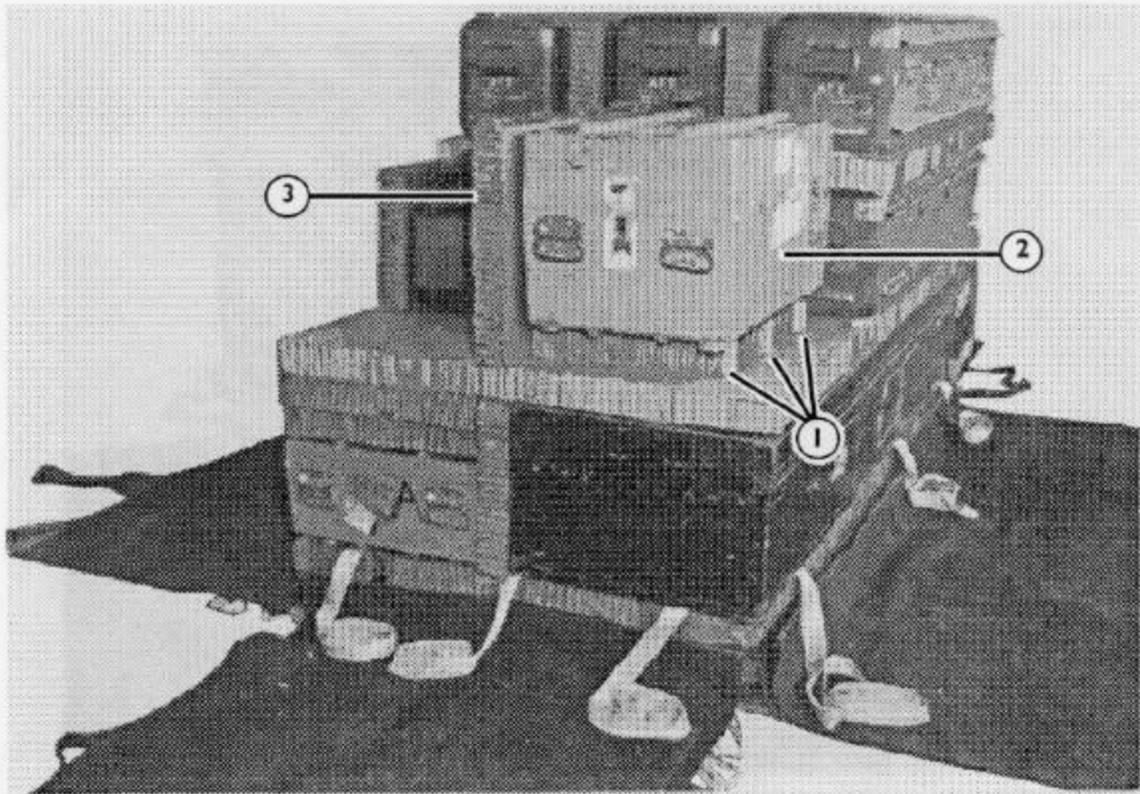
Figure 3-35. Stinger missile containers and honeycomb positioned on platform



NOTE: Make sure the generator has been drained.

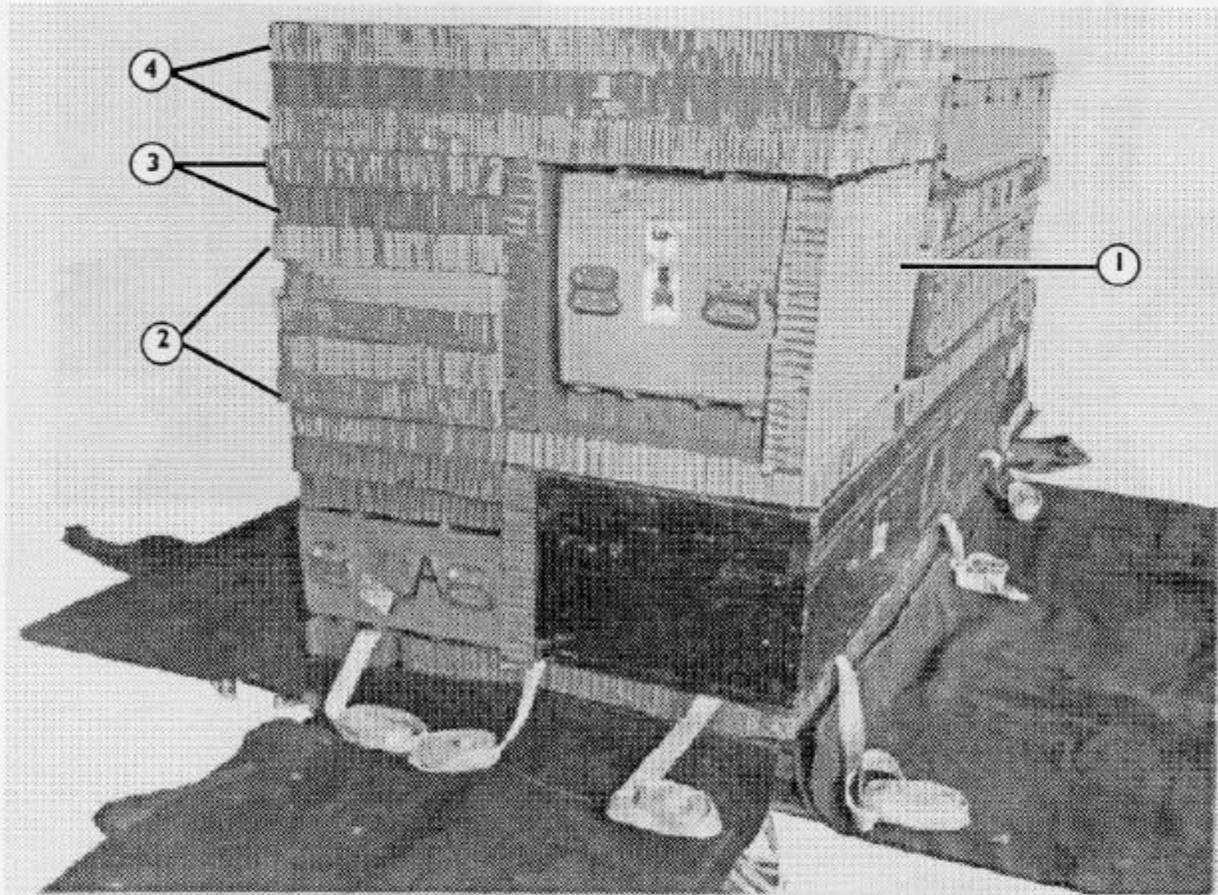
- ① Place the generator behind the stinger missile on the left side.
- ② Place an 11 1/2- by 15-inch piece of honeycomb between the generator and missile.
- ③ Place an 11 1/2- by 15-inch piece of honeycomb on the left side of the generator.

Figure 3-36. Generator and honeycomb positioned on platform



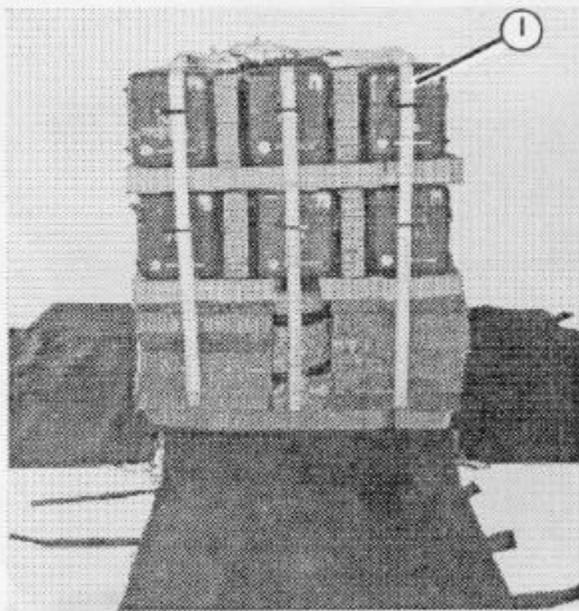
- NOTE: Make sure the generator has been checked.
- ① Evenly space 3- by 17-inch pieces of honeycomb behind the stinger missiles on the right side.
 - ② Place the transceiver on top of the honeycomb pieces placed in step 1.
 - ③ Place a 20- by 31-inch piece of honeycomb between the transceiver and the generator.

Figure 3-37. Transceiver and honeycomb positioned on platform

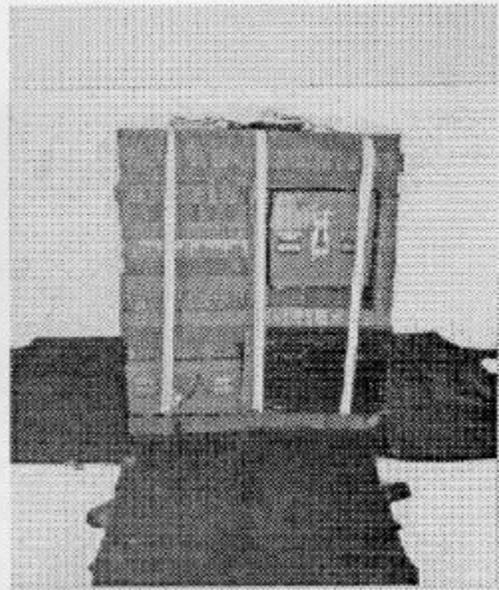


- ① Place a 21- by 31-inch piece of honeycomb on the right side of the transceiver.
- ② Place five 18- by 21-inch pieces of honeycomb against the rear of the generator.
- ③ Place two 21- by 30-inch pieces of honeycomb across the generator and on top of the honeycomb placed in step 2.
- ④ Place three 30- by 47-inch pieces of honeycomb on top of the load.

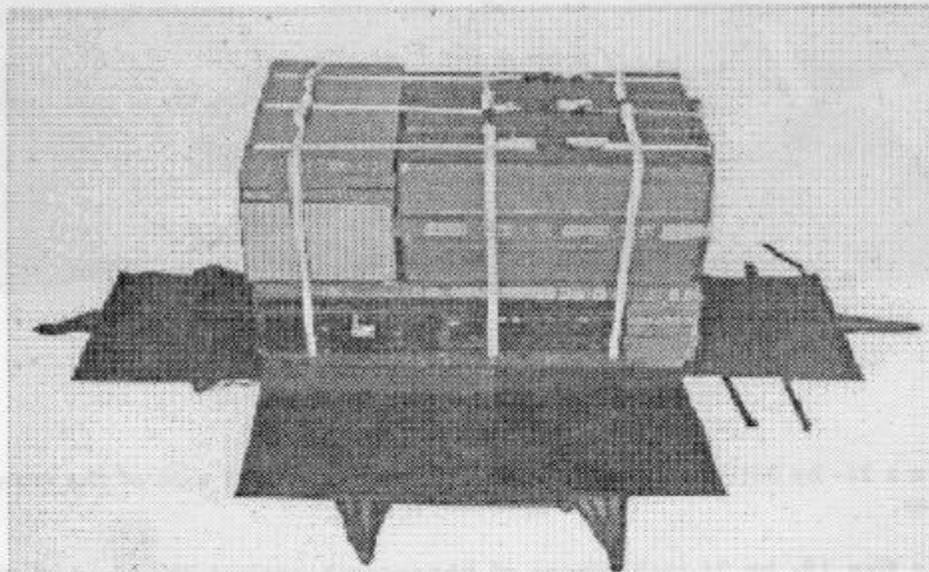
Figure 3-38. Honeycomb positioned on platform



FRONT



REAR



RIGHT

- ① Pass the pre-positioned lashings over the load and fasten each with two D-rings and a load binder. Make sure the lashings at the front are routed through the lifting handles of the stinger missile containers.

Figure 3-39. Lashings fastened

3-36. Closing Cargo Bags and Securing Platform

Close the bag covers, fasten the sling assemblies, and secure the cargo bags to the platform according to FM 10-501/TO 13C7-1-11.

3-37. Installing Suspension Slings

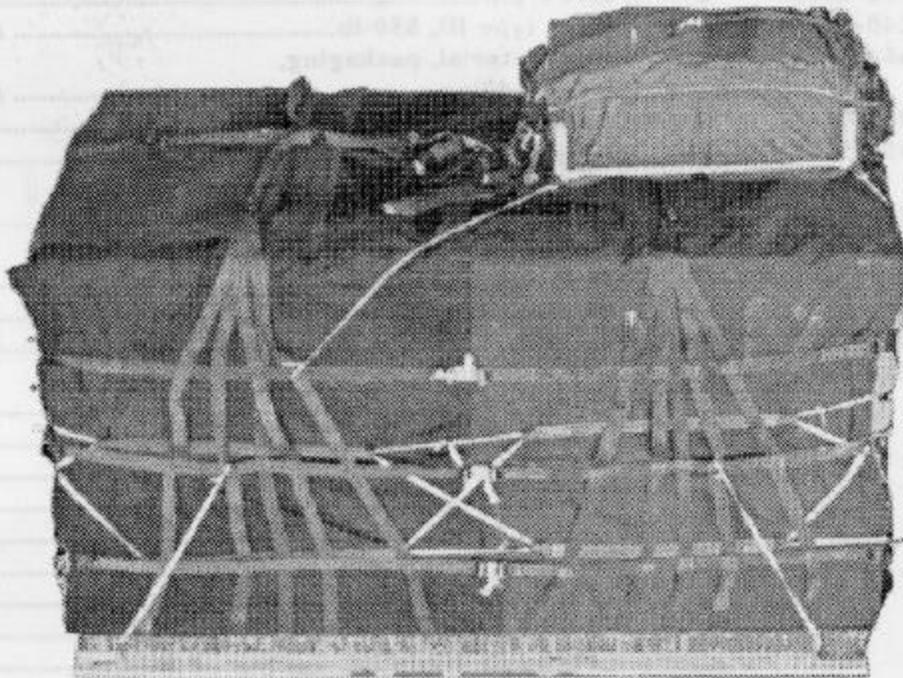
Install the suspension slings according to FM 10-501/TO 13C7-1-11.

3-38. Stowing Cargo Parachute

Stow a G-12D or G-12E cargo parachute according to FM 10-501/TO 13C7-1-11.

3-39. Marking Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in Figure 3-40. Complete DD Form 1387-2 according to AFR 71-4/TM 38-250 and securely attach it to the load.



RIGGED LOAD DATA

Weight (with parachute)	1,558 pounds
Height (with parachute)	75 inches
Width	48 inches
Length	96 inches

Figure 3-40. TDARS with stinger missiles rigged

3-40. Equipment Required

Use the equipment listed in Table 3-3 to rig this load.

Table 3-3. Equipment required for rigging TDARS and stinger missiles in a double A-22 cargo bag for low-velocity airdrop

National Stock Number	Item	Quantity
1670-00-587-3421	Bag, cargo, A-22	2
3990-00-937-0272	Binder, load, 10,000-lb.....	3
4030-00-678-8562	Clevis assembly, suspension, cargo	3
4030-00-432-2516	Clevis, screw-pin.....	13
4020-00-240-2146	Cord, nylon, type III, 550-lb.....	As required
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
5365-00-937-0147	D-ring, heavy-duty, 10,000-lb	(6)
8305-00-958-3685	Felt, 1/2- by 8- by 80-in	(1)
	Lumber:	
5510-00-220-6146	2- by 4- by 12 1/2-in	4
5510-00-220-6148	2- by 6-in:	
	48-in.....	2
	85-in.....	2
5315-00-010-4657	Nail, steel wire, common, 6d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb, 3- by 36- by 96-in:.....	2 sheets
	3- by 17-in	(3)
	8- by 96-in	(2)
	10 1/2- by 66-in	(2)
	10 1/2- by 96-in	(2)
	11 1/2- by 15-in	(2)
	12- by 66-in	(4)
	13- by 19-in	(6)
	16- by 83 1/2-in	(1)
	18- by 21-in	(5)
	20- by 31-in	(4)
	20- by 83 1/2-in	(2)
	21- by 30-in	(2)
	21- by 31-in	(1)
	30- by 47-in	(3)
	36- by 66-in	(2)
	36- by 96-in	(3)
	Parachute:	
1670-00-893-2371	G-12D or.....	1
1670-01-065-3755	G-12E (HAARS)	1

Table 3-3. Equipment required for rigging TDARS and stinger missiles in a double A-22 cargo bag for low-velocity airdrop

National Stock Number	Item	Quantity
5530-00-128-4981	Plywood:	
	3/4- by 48- by 96-in	(1)
	3/4- by 8- by 80-in	(1)
1670-01-753-3788	Sling, 3-ft (2-loop)	(2)
8305-00-074-5124	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	12
	Webbing:	
8305-00-268-2411	Cotton, 80-lb	As required
8305-00-082-5752	Nylon, tubular, 1/2-in	As required
8305-00-263-3591	Nylon, type VIII	As required