

CHAPTER 11 RIGGING SPECIFIC DOUBLE A-22 LOADS FOR LOW-VELOCITY AIRDROP

Section I RIGGING SNOWMOBILE

11-1. Description of Load

The snowmobile is rigged in a double A-22 cargo bag for low-velocity airdrop. The load requires one G-12E cargo parachute equipped with a 68-inch pilot parachute. The snowmobile weighs 690 pounds unrigged. The length of the snowmobile is 118 inches, reducible to 104 inches. Its width is 36 inches. The height of the snowmobile is 49 inches, reducible to 47 inches. Twenty cases of rations are rigged with the snowmobile.

11-2. Preparing Skid Board

Prepare a standard double A-22 skid board as shown in Figures 9-12 and 9-13. Form two honeycomb layers using one 36- by 92-inch and one 8- by 92-inch piece

of honeycomb to form each layer. Alternate the pieces of honeycomb in each layer.

11-3. Positioning Container

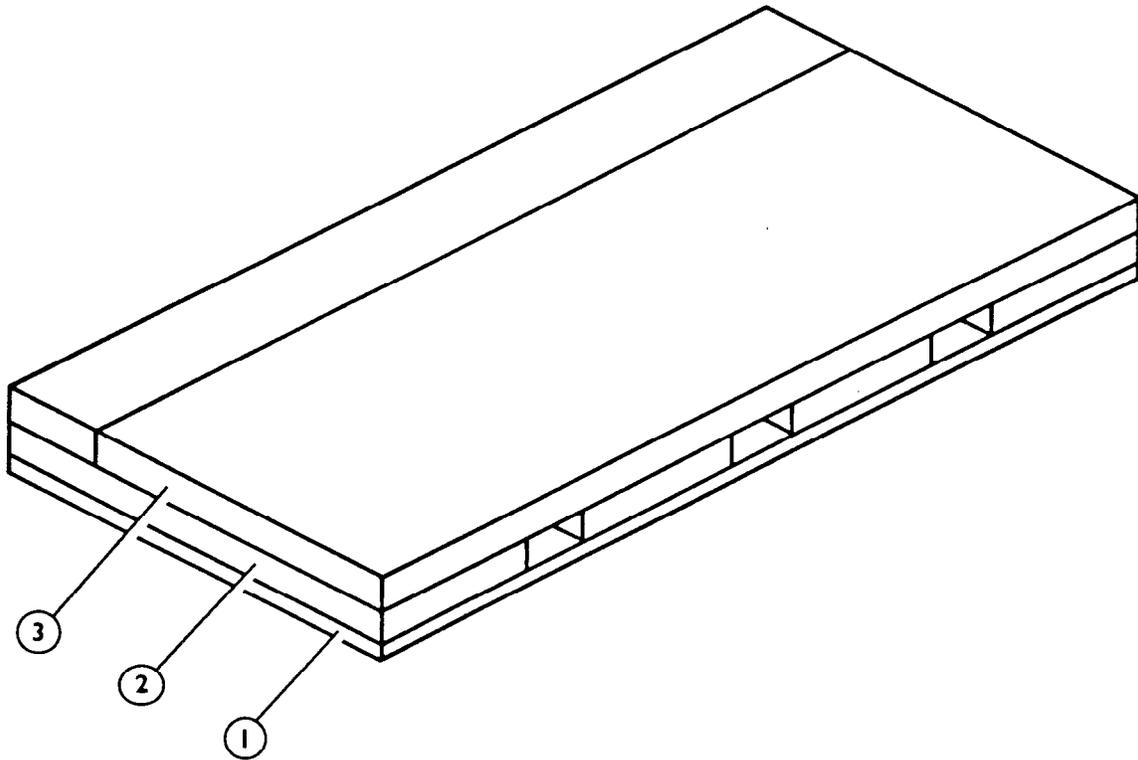
Position two A-22 cargo bags as shown in Figures 9-14 and 9-15. Do NOT position the layer of honeycomb shown in Figure 9-15 (step 3).

11-4. Positioning Honeycomb

Position the honeycomb as shown in Figure 11-1.

NOTE: Various models of snowmobiles differ slightly and may require a modification to procedures.

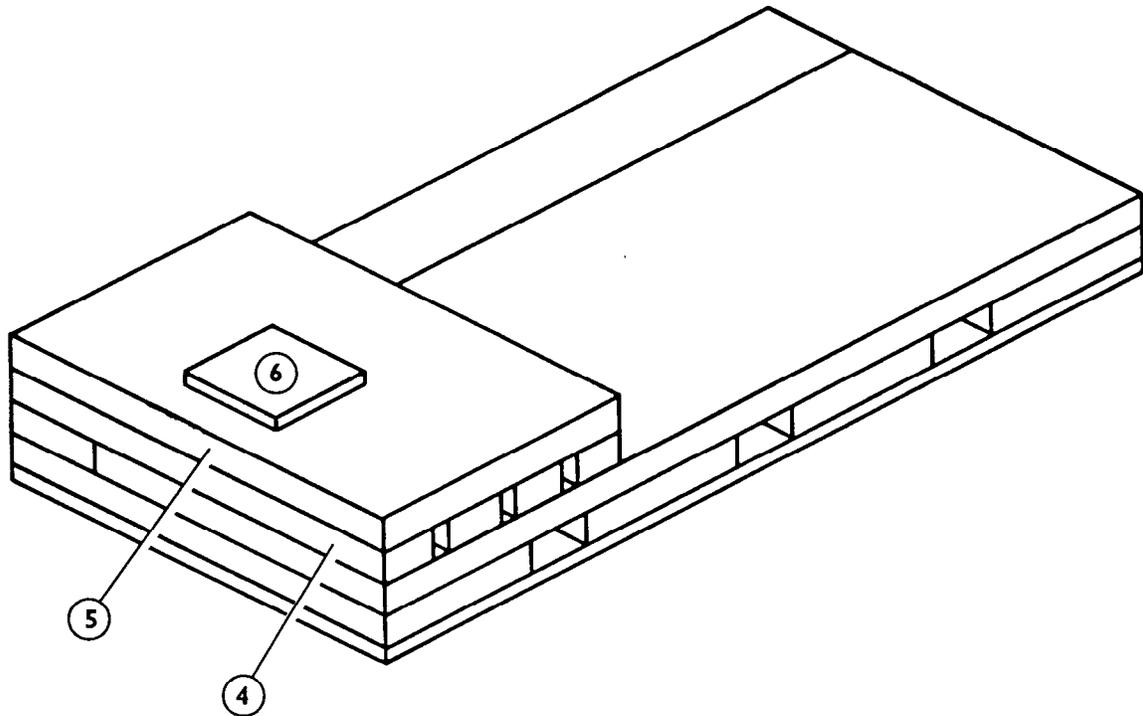
Note: This drawing is not drawn to scale.



- ① Center a 3/4- by 48- by 96-inch piece of plywood on top of the cover.
- ② Evenly space four 18- by 48-inch pieces of honeycomb on top of the plywood.
- ③ Place a 36- by 96-inch and a 12- by 96-inch piece of honeycomb on top of the first layer of honeycomb.

Figure 11-1. Honeycomb positioned

Note: This drawing is not drawn to scale.

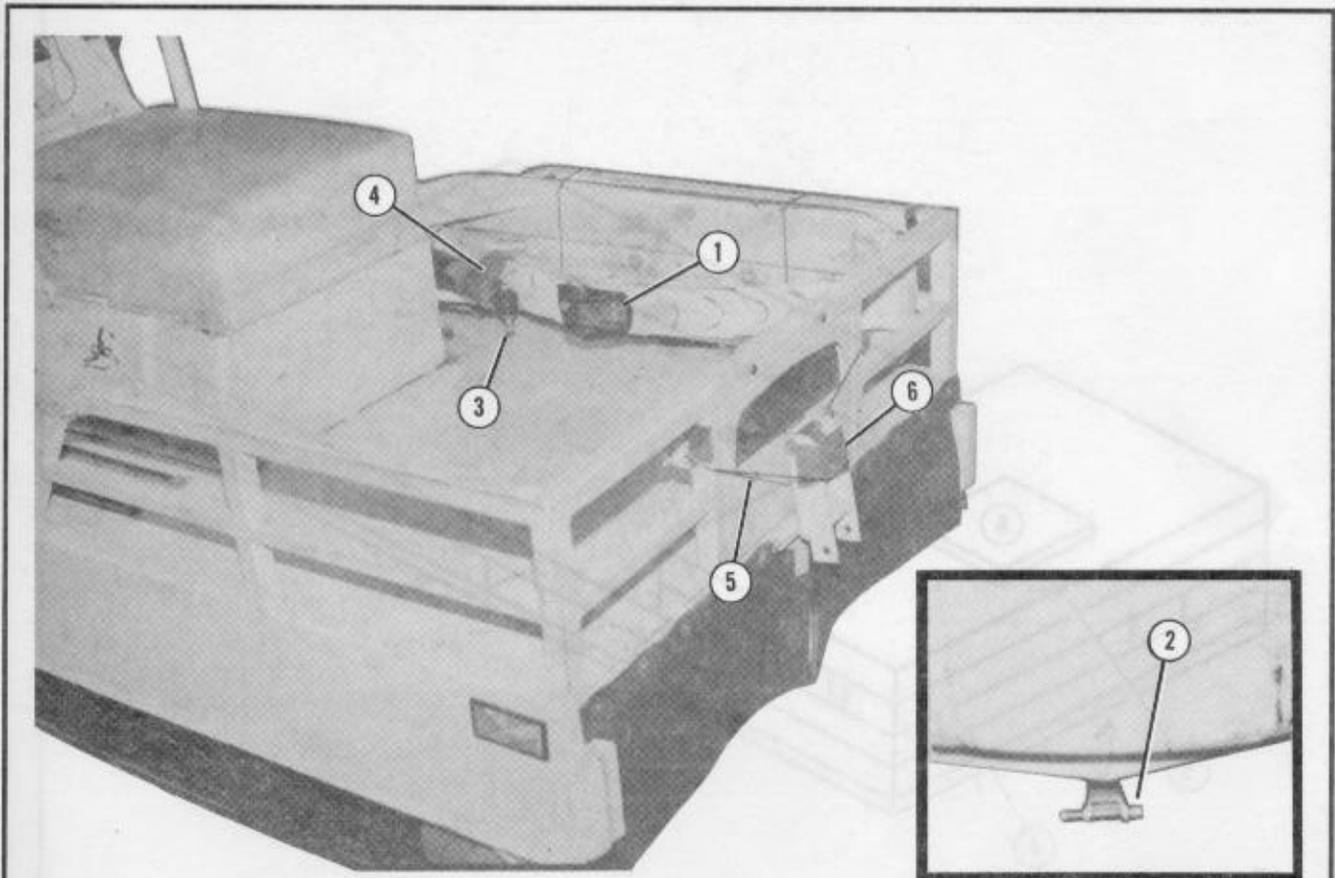


- ④ Cut four 6- by 48-inch pieces of honeycomb. Place one piece flush with the rear edge of the second layer of honeycomb. Place the remaining three pieces two inches apart from each other.
- ⑤ Place a 30- by 48-inch piece of honeycomb flush with the rear edge of the third layer of honeycomb.
- ⑥ Center a 3/4- by 12- by 12-inch piece of plywood 8 inches from the rear on top of the fourth layer of honeycomb.

Figure 11-1. Honeycomb positioned (continued)

11-5. Preparing Snowmobile

Prepare the snowmobile as shown in Figure 11-2.

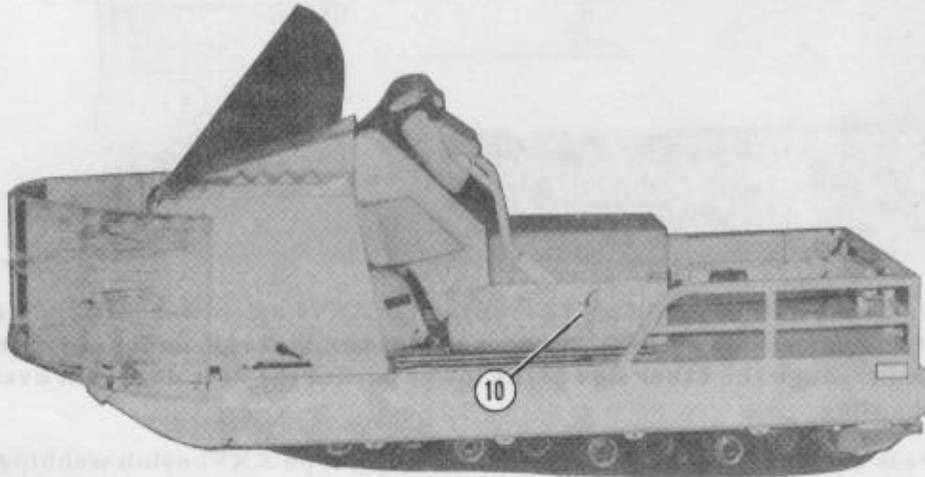
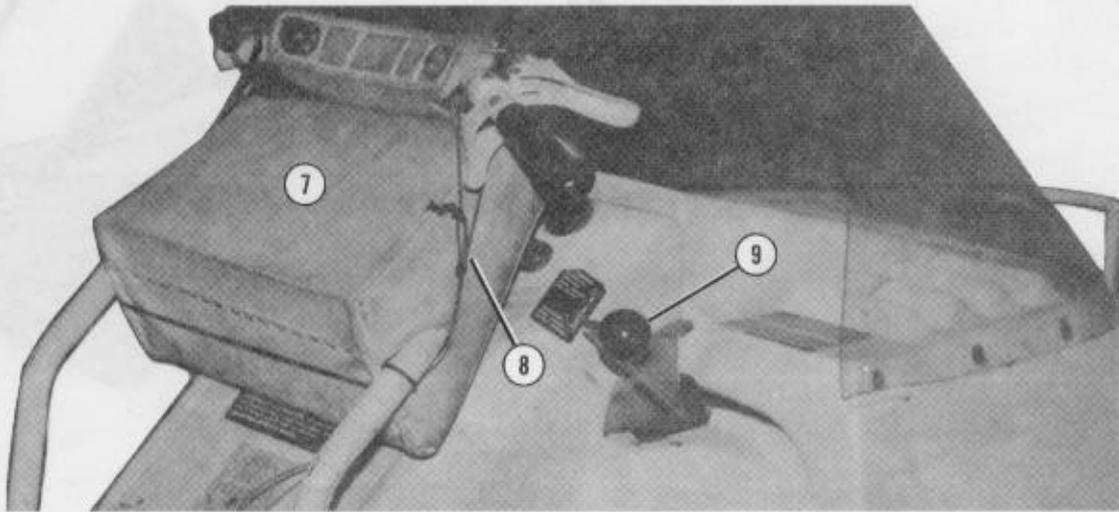


- ① Remove the front ski. Place the ski on the rear deck of the snowmobile, and tie it in place with type III nylon cord.
- ② Replace the bolt in the steering bracket, and tighten the nut.
- ③ Replace the bolt in the shock absorber of the ski, and tighten the nut.
- ④ Tape the shock absorber to the spring of the ski with masking tape.
- ⑤ Remove the stabilizing pin from the rear towing point, and place it in the toolbox. Fold the towing point up, and tie it in place with a length of type III nylon cord.
- ⑥ Tape the latch on the towing point with masking tape.

Figure 11-2. Snowmobile prepared

11-5 Fastening Load

Position the snowmobile as shown in Figure 11-2.

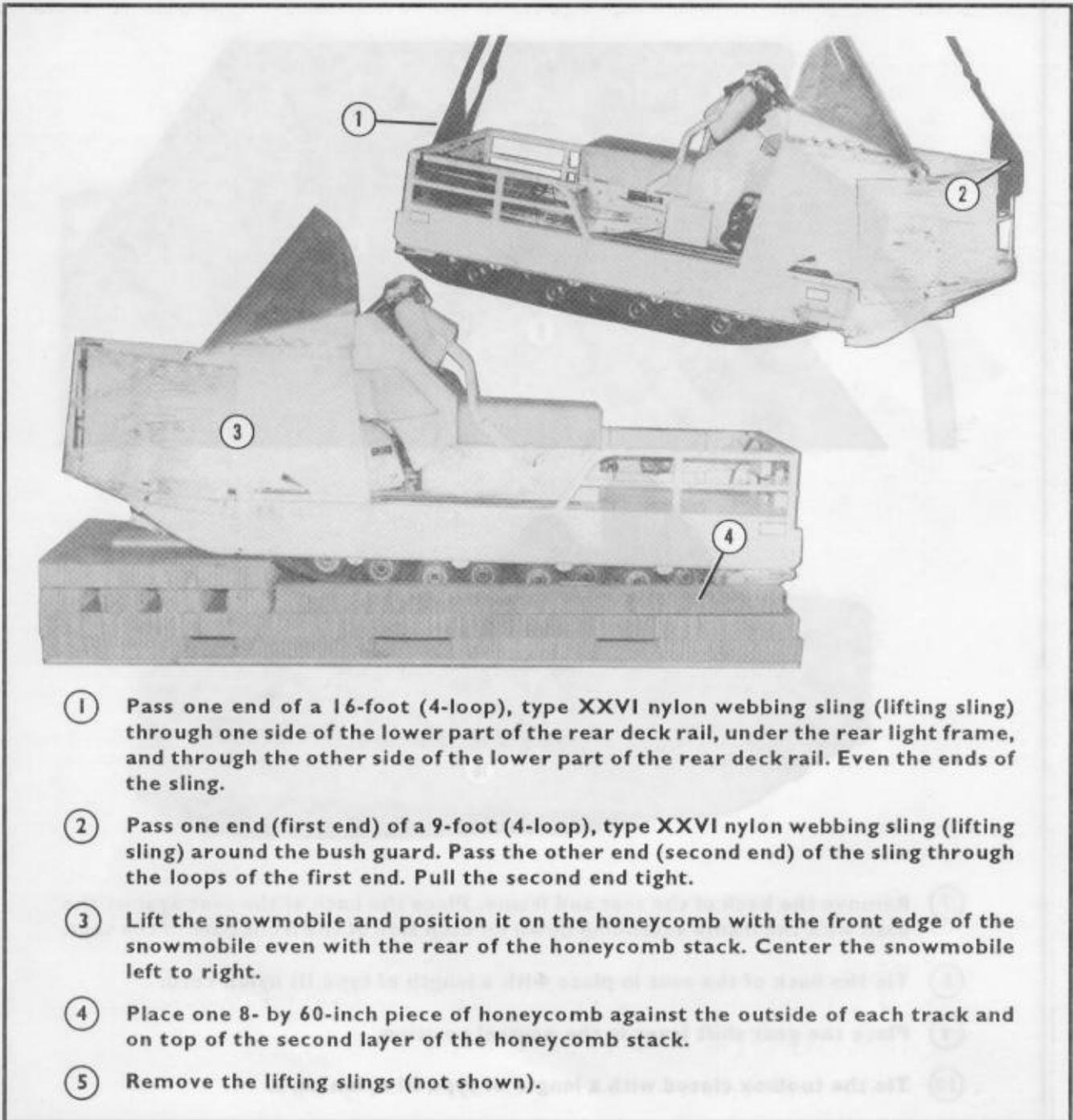


- ⑦ Remove the back of the seat and frame. Place the back of the seat against the dash with the frame extending down on each side of the front part of the seat.
- ⑧ Tie the back of the seat in place with a length of type III nylon cord.
- ⑨ Place the gear shift lever in the neutral position.
- ⑩ Tie the toolbox closed with a length of type III nylon cord.

Figure 11-2. Snowmobile prepared (continued)

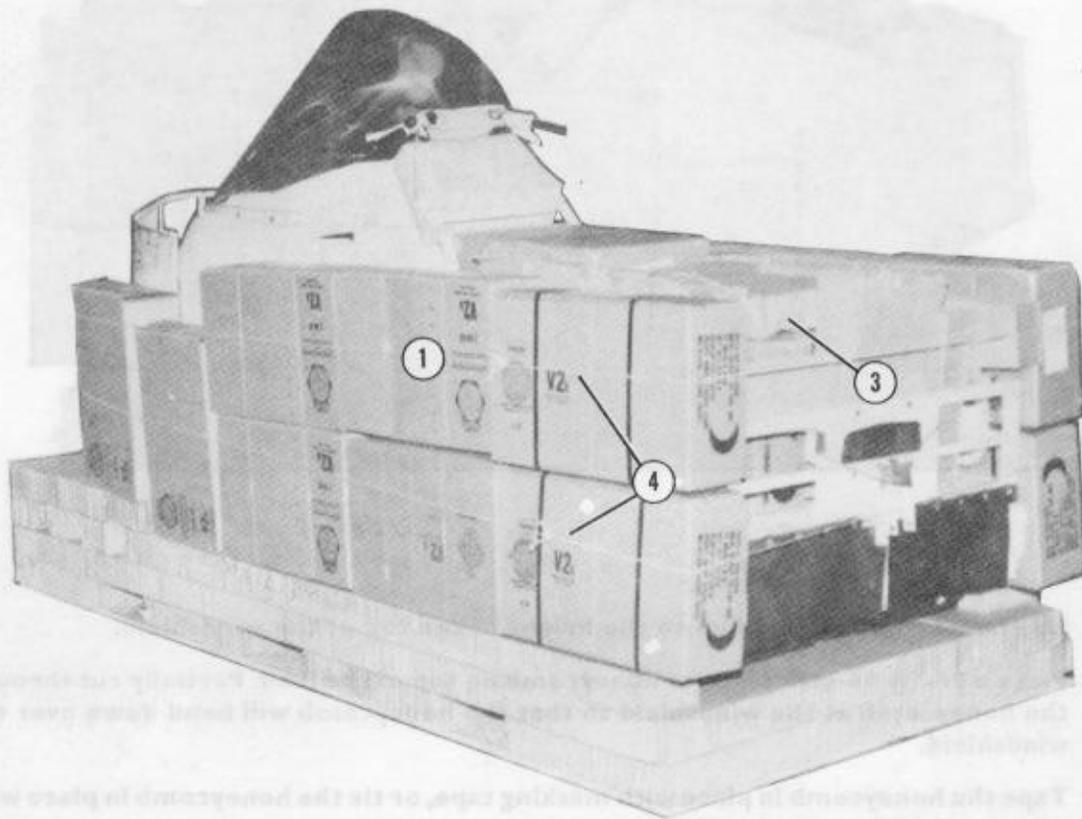
11-6. Positioning Load

Position the snowmobile as shown in Figure 11-3.
Position the rations as shown in Figure 11-4.



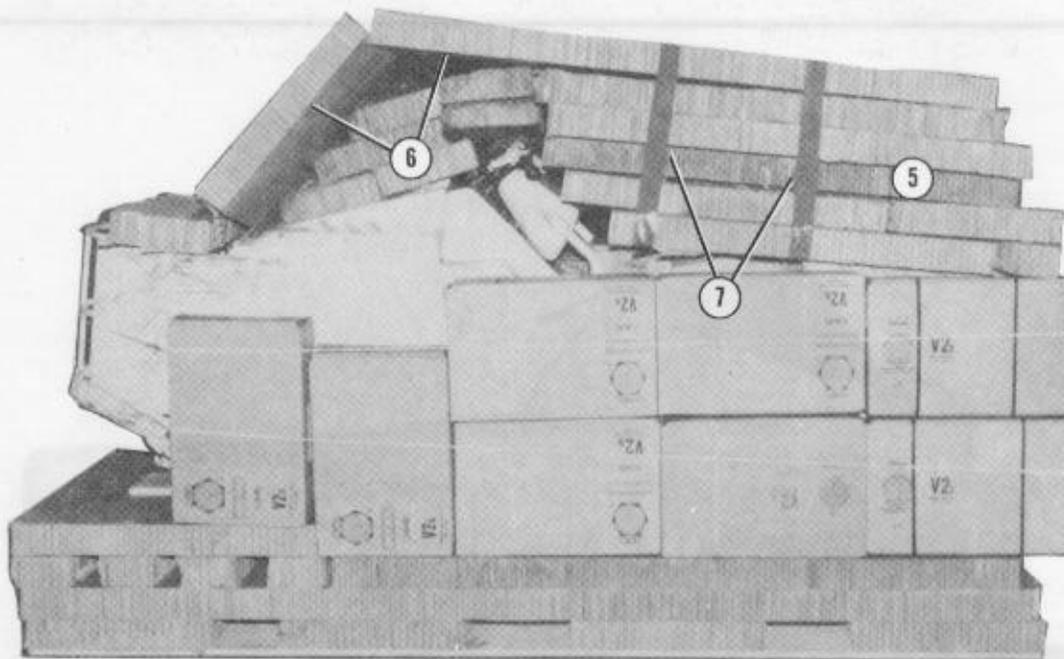
- ① Pass one end of a 16-foot (4-loop), type XXVI nylon webbing sling (lifting sling) through one side of the lower part of the rear deck rail, under the rear light frame, and through the other side of the lower part of the rear deck rail. Even the ends of the sling.
- ② Pass one end (first end) of a 9-foot (4-loop), type XXVI nylon webbing sling (lifting sling) around the bush guard. Pass the other end (second end) of the sling through the loops of the first end. Pull the second end tight.
- ③ Lift the snowmobile and position it on the honeycomb with the front edge of the snowmobile even with the rear of the honeycomb stack. Center the snowmobile left to right.
- ④ Place one 8- by 60-inch piece of honeycomb against the outside of each track and on top of the second layer of the honeycomb stack.
- ⑤ Remove the lifting slings (not shown).

Figure 11-3. Snowmobile positioned



- ① Place eight cases of rations on each side of the load.
- ② Place four cases of rations (not shown) on the rear deck of the snowmobile.
- ③ Level the rear of the load with scrap honeycomb.
- ④ Tie the rations in place with two lengths of type III nylon cord.

Figure 11-4. Rations positioned



- ⑤ Use honeycomb to build up to the height of the top of the windshield.
- ⑥ Place a 36- by 96-inch piece of honeycomb on top of the load. Partially cut through the honeycomb at the windshield so that the honeycomb will bend down over the windshield.
- ⑦ Tape the honeycomb in place with masking tape, or tie the honeycomb in place with type I, 1/4-inch cotton webbing.

Figure 11-4. Rations positioned (continued)

11-7. Completing Rigged Load

Complete the rigging of the load according to paragraphs 9-25 through 9-30.

11-8. Marking Rigged Load

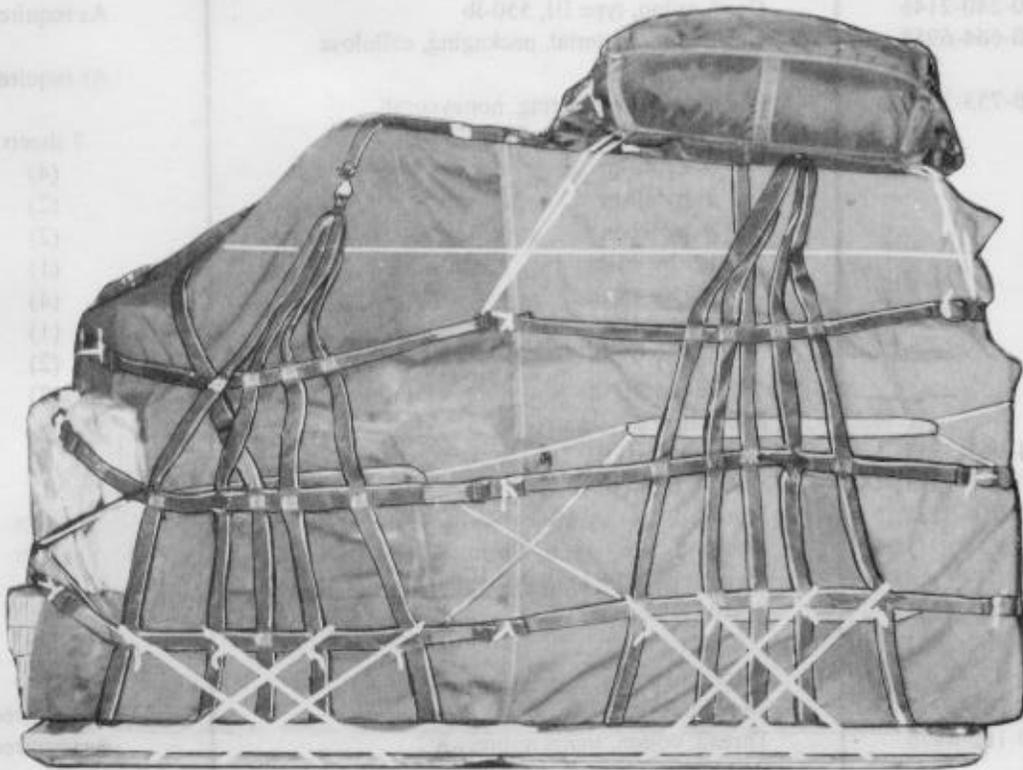
Mark the rigged load according to Chapter 1 using the data given in Figure 11-5. If the load varies from the one shown in Figure 11-5, recompute the data.

11-9. Equipment Required

Use the equipment listed in Table 11-1 to rig the load shown in Figure 11-5.

CAUTION

Make the final inspection required by Chapter 1 before the load leaves the rigging site. If the load includes hazardous material as defined in AFJMAN 24-204/TM 38-250, complete Shipper's Declaration for Dangerous Goods form.

**RIGGED LOAD DATA**

Weight (with parachute)	1,654 pounds
Height (with parachute)	67 inches
Width	48 inches
Length	104 inches
Parachute	G-12E

Figure 11-5. Snowmobile rigged in a double A-22 cargo bag for low-velocity airdrop

Table 11-1. Equipment required for rigging the snowmobile in a double A-22 cargo bag for low-velocity airdrop

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste, 1-gal	As required
1670-00-587-3421	Bag, cargo, A-22	2
	Clevis:	
4030-00-432-2516	Screw pin	3
4030-00-678-8562	Suspension, 3/4-in (medium)	2
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in:	7 sheets
	6- by 48-in	(4)
	8- by 60-in	(2)
	8- by 92-in	(2)
	12- by 96-in	(1)
	18- by 48-in	(4)
	30- by 48-in	(1)
	36- by 92-in	(2)
	36- by 96-in	(2)
	Parachute:	
1670-01-065-3755	Cargo, G-12E	1
1670-00-216-7297	Pilot, 68-in diam	1
5530-00-914-5118	Plywood, 3/4- by 48- by 96-in	1 sheet
No NSN	Plywood, 1- by 48- by 96-in	1 sheet
	Sling, type XXVI nylon webbing:	
1670-01-062-6301	3-ft (2-loop)	3
1670-00-432-2501	9-ft (4-loop)	1
1670-00-432-2505	16-ft (4-loop)	1
7510-00-266-6710	Tape, masking, 2-in	As required
8310-00-102-4478	Thread, cotton, ticket number 8/7	As required
	Webbing:	
8305-00-268-2411	Cotton, 1/4-in, type I	As required
	Nylon:	
8305-00-082-5752	Tubular, 1/2-in	As required
8305-00-263-3591	Type VIII	As required
8305-00-260-6890	Type X	As required

11-14. Marking Rigged Load

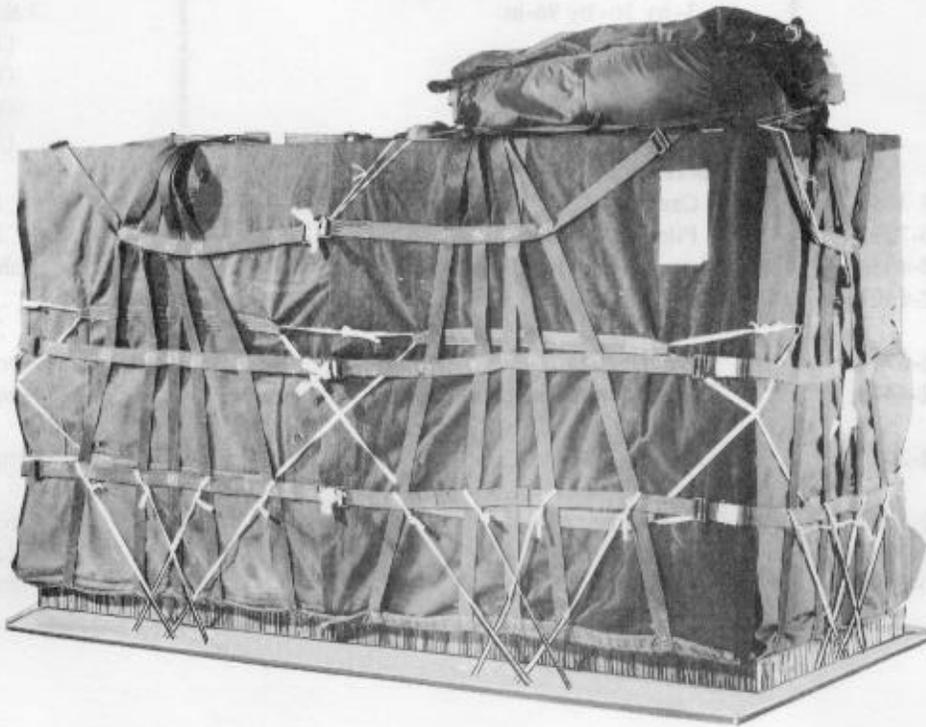
Mark the rigged load according to Chapter 1 using the data given in Figure 11-7. Each load must be computed due to varying accompanying loads. Make sure the load weighs at least 900 pounds.

11-15. Equipment Required

Use the equipment listed in Table 11-2 to rig the load shown in Figure 11-7.

CAUTION

Make the final inspection required by Chapter 1 before the load leaves the rigging site. If the load includes hazardous material as defined in AFJMAN 24-204/TM 38-250, complete Shipper's Declaration for Dangerous Goods form.

**RIGGED LOAD DATA**

Weight (without parachute)	900 - 2,200 pounds
Height (with parachute)	up to 83 inches
Width	48 inches
Length	96 inches
Parachute	G-12E

Figure 11-7. Ahkio sleds rigged in a double A-22 cargo bag for low-velocity airdrop

Table 11-2. Equipment required for rigging Ahkio sleds in a double A-22 cargo bag for low-velocity airdrop

National Stock Number	Item	Quantity
8040-00-273-8713 1670-00-587-3421	Adhesive, paste, 1-gal Bag, cargo, A-22	As required 2
4030-00-432-2516	Clevis: Screw pin	3
4030-00-678-8562	Suspension, 3/4-in (medium)	2
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb, 3- by 36- by 96-in: 8- by 92-in 18- by 21-in 21- by 94-in 36- by 92-in	7 sheets (2) (8) (4) (2)
1670-01-065-3755	Parachute: Cargo, G-12E	1
1670-00-216-7297	Pilot, 68-in diam	1
5530-00-128-4981	Plywood, 3/4- by 48- by 96-in	1 sheet
1670-01-062-6301	Sling, 3-ft (2-loop), type XXVI nylon webbing	3
7510-00-266-6710	Tape, masking, 2-in	As required
8310-00-102-4478	Thread, cotton, ticket number 8/7	As required
8305-00-268-2411	Webbing: Cotton, 1/4-in, type I	As required
8305-00-082-5752	Nylon: Tubular, 1/2-in	As required
8305-00-263-3591	Type VIII	As required
8305-00-260-6890	Type X	As required