

Section IV

RIGGING ZODIAC K40 BOAT

3-37. Description of Load

The description of the load rigged in this section is given below.

a. Inflated Zodiac K40 Rubber Raiding Craft. This boat is rigged on a 75-by 144-inch SOCEP with a G-12C, G-12D, or

G-12E cargo parachute. The boat weighs 60 pounds. When inflated, it is 82 inches wide, 159 inches long, and 29 inches high. The boat shown is powered by a 35-horsepower outboard engine that weighs 216 pounds with its two 6-gallon fuel tanks full. Six paddles

weighing a total of 24 pounds are part of the boat's equipment.

NOTE: A 35-HORSEPOWER ENGINE IS THE LARGEST THAT MAY BE USED ON THIS BOAT.

b. Accompanying Load. An accompanying load weighing at least 470 pounds but no more than 870 pounds must be dropped with the boat.

3-38. Preparing Platform

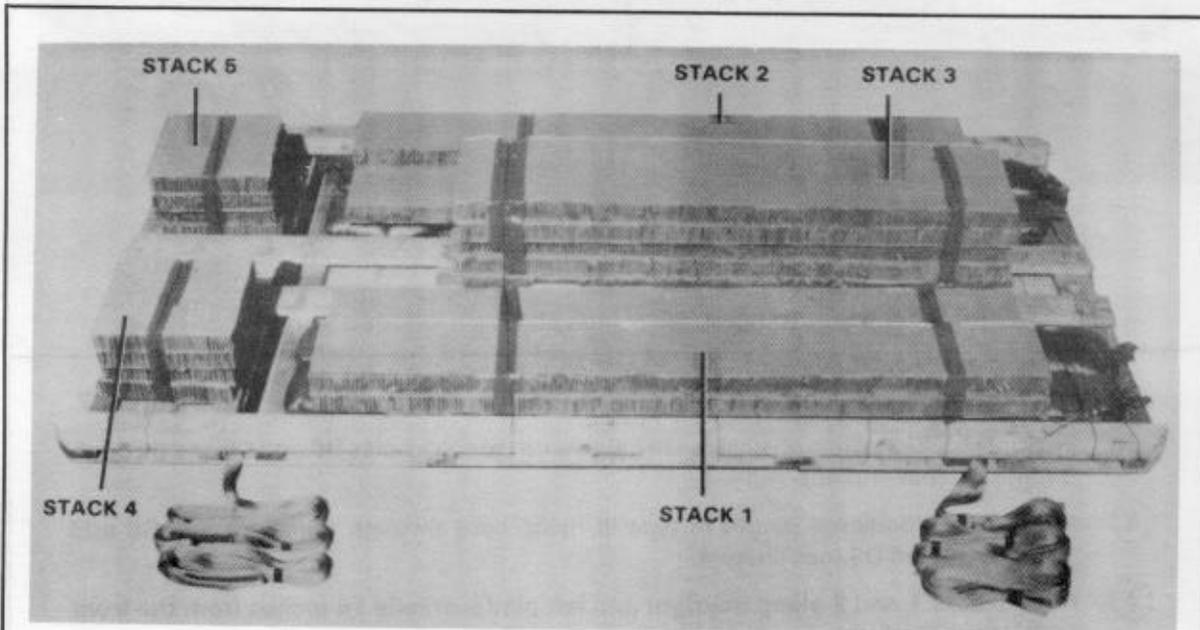
Build a new SOCEP, or inspect and repair a used platform, according to paragraph 3-2.

3-39. Installing Suspension Slings and Stowing Sandbags

Install four suspension slings on the platform according to paragraph 3-3. Stow sandbags on the platform according to paragraph 3-4.

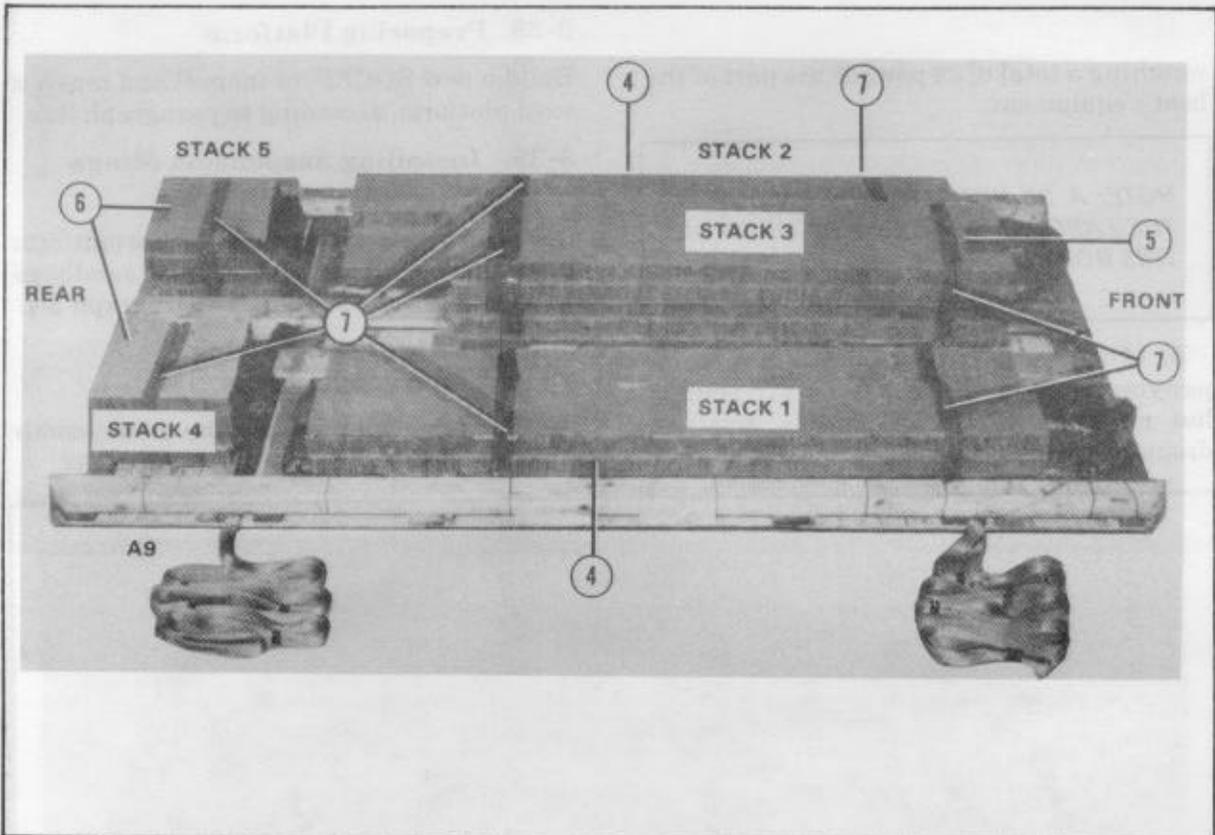
3-40. Placing and Securing Honeycomb Stacks

Build, place, and secure the honeycomb stacks as shown in Figures 3-41 and 3-42.



Stack Number	Pieces	Width (Inches)	Length (Inches)	Instructions
1	1	24	96	Stack the 12-inch-wide piece on top and flush with one side of the 24-inch-wide piece.
	1	12	96	
2	Same as stack 1.			Stack flush. Stack flush.
3	6	18	78	
4	4	18	18	
5	Same as stack 4.			

Figure 3-41. Honeycomb stacks for K40 boat prepared

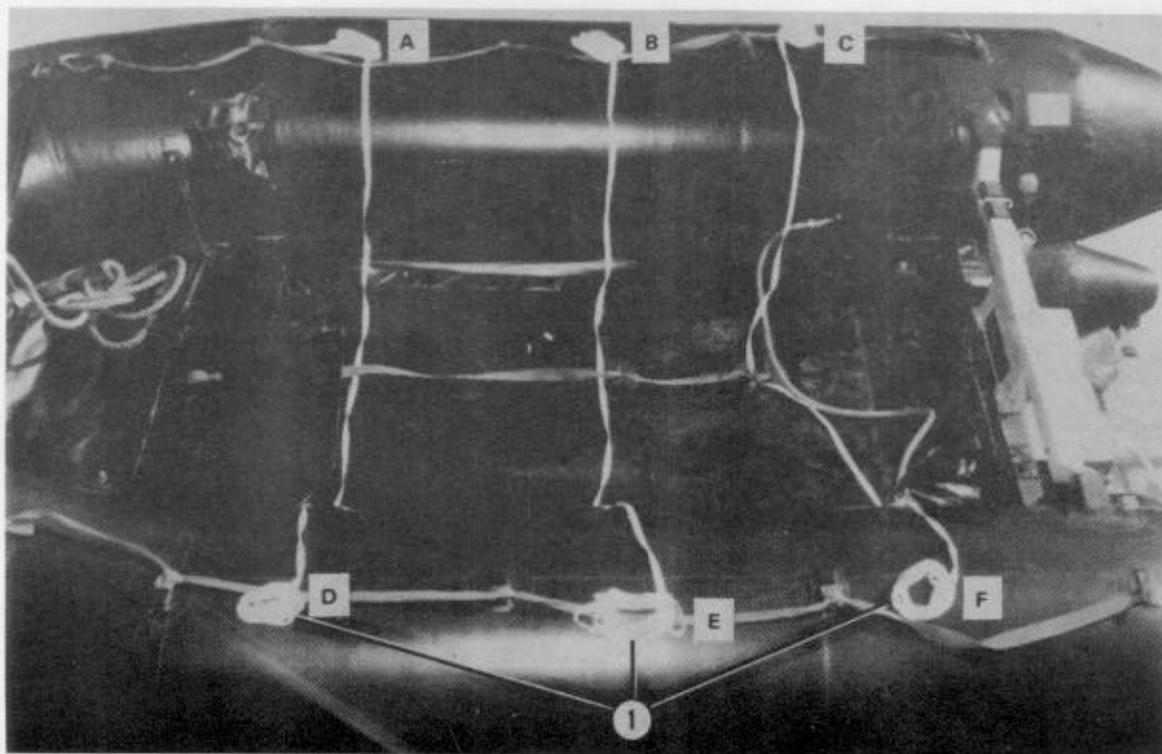


- ① Position type III nylon cord on the platform as shown in steps 1, 2, and 3 of Figure 3-7.
- ② Position additional lengths of type III nylon cord through holes B6 and C6 and through B3 and C3 (not shown).
- ③ Position an additional length of type III nylon cord through holes A9 and B8 and through C8 and D9 (not shown).
- ④ Place stacks 1 and 2 along the right and left platform rails 16 inches from the front edge of the platform.
- ⑤ Center stack 3 between stacks 1 and 2, placing it 16 inches from the front edge of the platform.
- ⑥ Set stacks 4 and 5 against the center longitudinal stringers 4 inches from the rear of the platform.
- ⑦ Tie the stacks in place with the pre-positioned type III nylon cord from steps 1, 2, and 3. Use tape under the ties to keep the cord from cutting the honeycomb.

Figure 3-42. Honeycomb stacks for K40 boat placed and secured

3-41. Preparing Boat

Inflate the boat, and install the in-boat tiedowns as shown in Figure 3-43. Install the honeycomb in the bottom of the boat as shown in Figure 3-44.

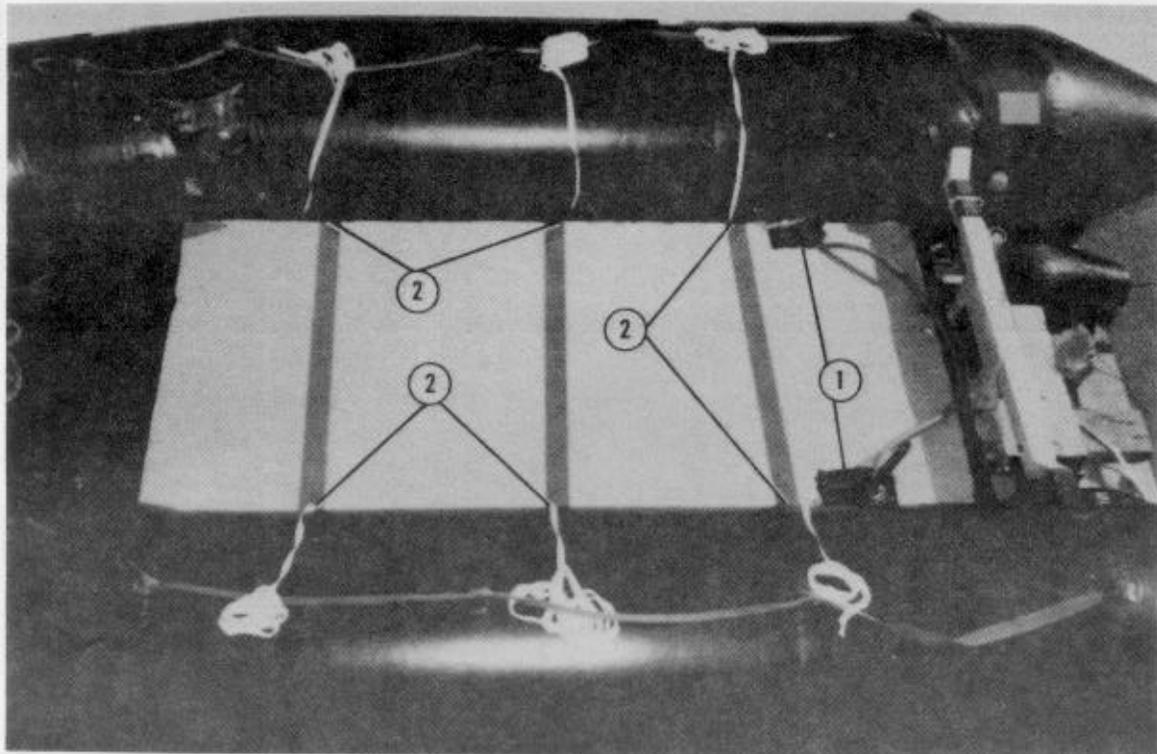


- ① Run three 12-foot lengths of 1/2-inch tubular nylon webbing under the center lifeline at both ends and in the center.

NOTE: ADDITIONAL TIES MAY BE NECESSARY FOR LARGE LOADS.

- ② Tie the bow cover down to convenient points with type III nylon cord (not shown).
- ③ Tie chemical lights to the bow tie inside the boat and to the center side carrying handles with 80-pound cotton webbing if dictated by mission requirements (not shown).

Figure 3-43. In-boat tiedowns installed



- ① Set a piece of 36- by 96-inch honeycomb in the boat against the transom. Make two 2- by 4-inch cutouts to allow for the CO₂ valves.
- ② Tape the edges of the honeycomb where the pre-positioned ties will touch the honeycomb.

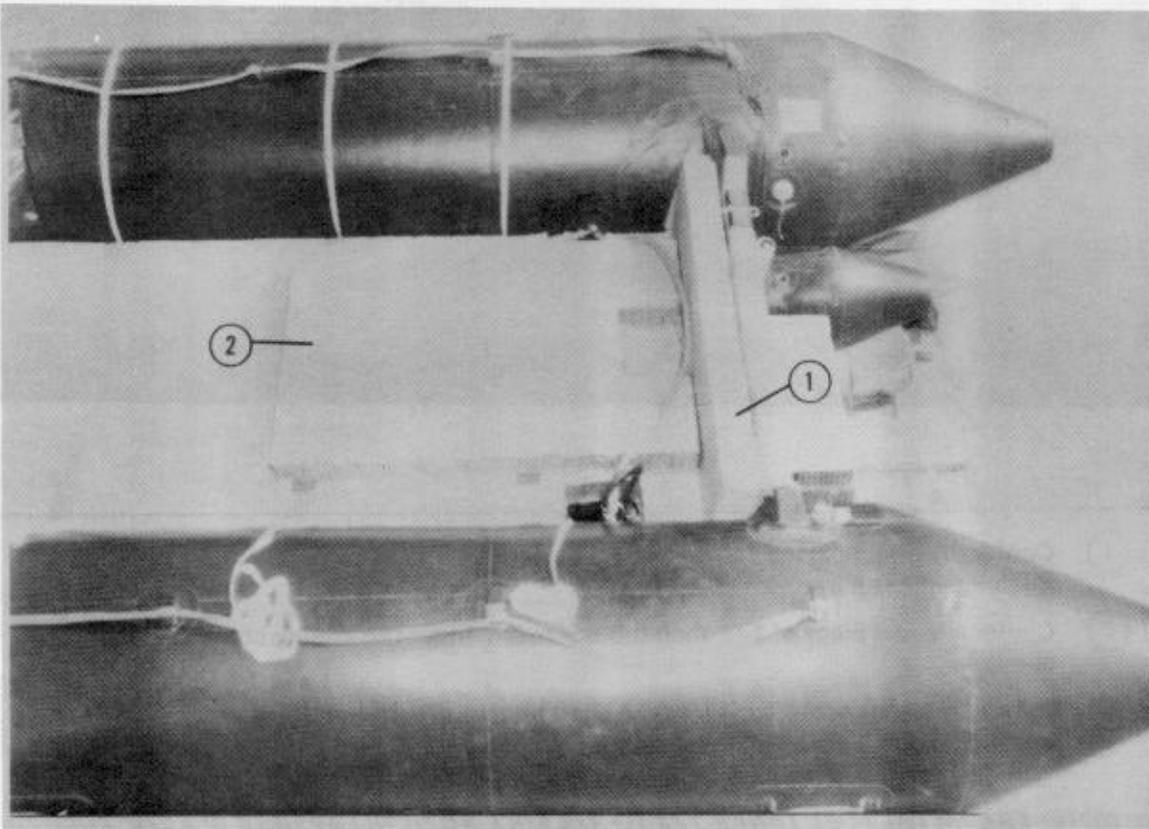
Figure 3-44. Honeycomb for engine and load stowage positioned

3-42. Positioning Boat

Center the boat on the platform with the transom 18 inches from the front edge of the platform.

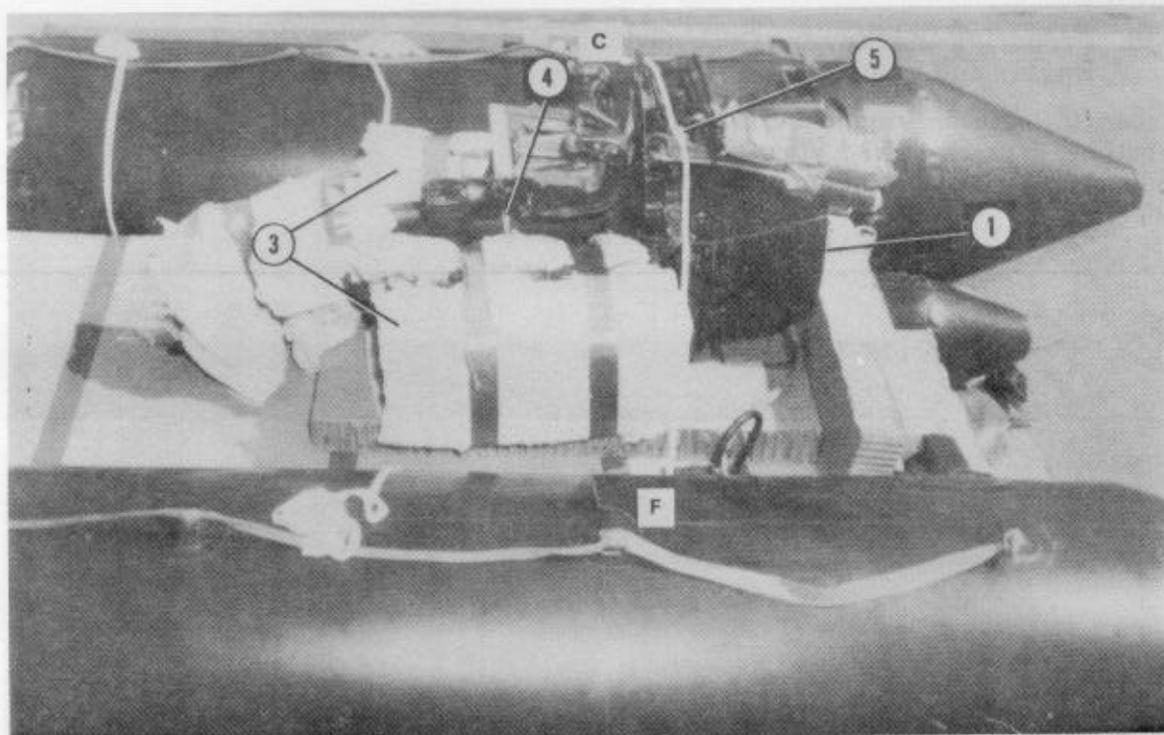
3-43. Preparing and Stowing Outboard Engine and Fuel Tanks

Prepare the outboard engine and fuel tanks as outlined in paragraph 3-9. Stow the engine and fuel tanks as shown in Figures 3-45 and 3-46.



- ① Set an 8- by 36-inch piece of honeycomb flush against the transom.
- ② Glue a 24- by 36-inch piece of honeycomb with a 6-by 8-inch cutout in one end of the 24-inch side against the honeycomb positioned in step 1.

Figure 3-45. Honeycomb for engine stowage positioned



- ① Center the engine in the boat with the operator's handle up and the top of the engine flush against the transom honeycomb.
- ② Center a 5-foot piece of 1/2-inch tubular nylon under the engine shaft housing (not shown).
- ③ Set one fuel tank on either side of the shaft housing. Pad between the engine and fuel tanks with small pieces of honeycomb.

NOTE: FILL METAL FUEL TANKS 1/2 TO 3/4 FULL. FILL COLLAPSIBLE PLASTIC FUEL CONTAINERS TO FIVE GALLONS, AND FORCE OUT ALL AIR.

- ④ Tie the tanks to the engine by passing the 5-foot piece of 1/2-inch tubular nylon webbing through the fuel tank carrying handles.
- ⑤ Tie tiedowns C and F together over the engine mounting bracket with a square knot. (See Figure 3-43.)

Figure 3-46. Engine and fuel tanks stowed

3-44. Stowing Load and Paddles

If the load is rucksacks and weapons, load and secure them as outlined in paragraph 3-10. Load and secure communications equipment or underwater breathing apparatus as shown in Figures 3-47 and 3-48.

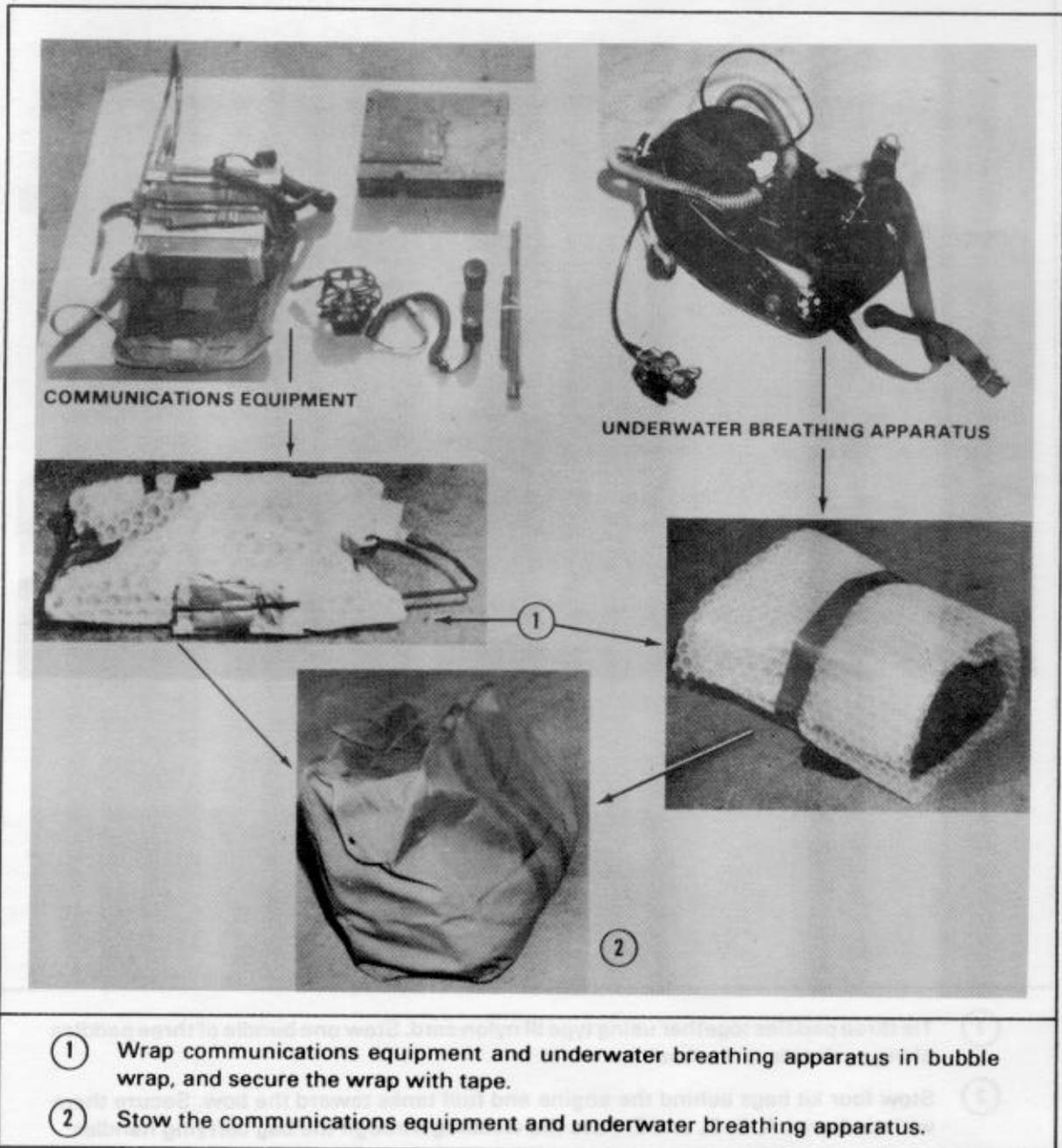
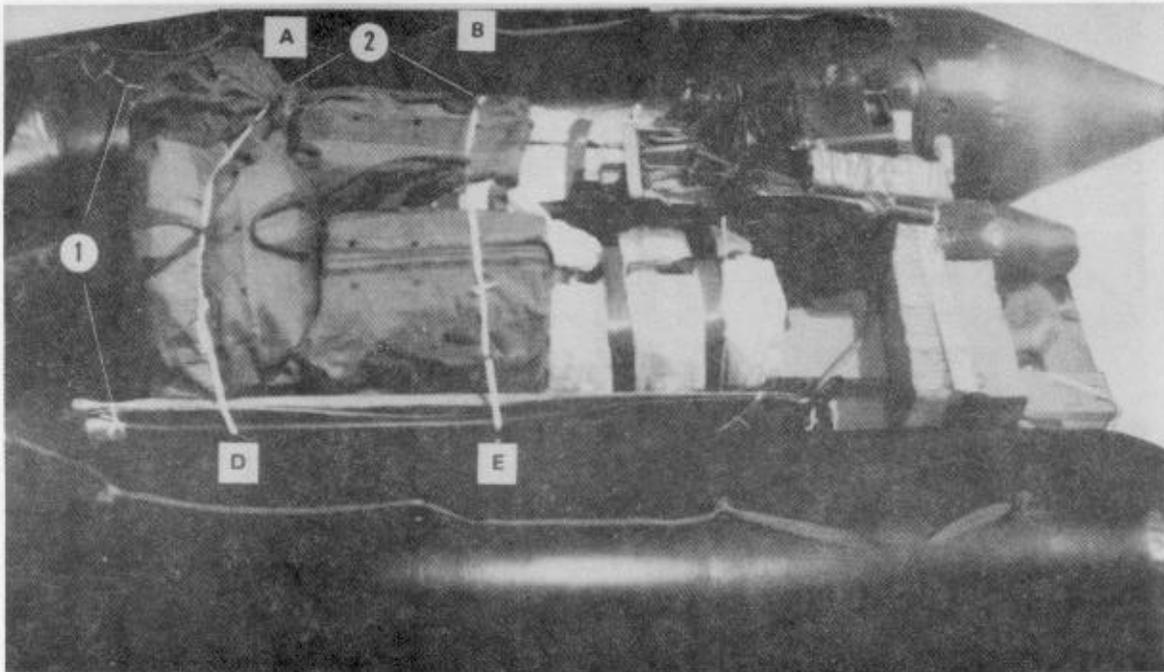


Figure 3-47. Communications equipment and underwater breathing apparatus prepared

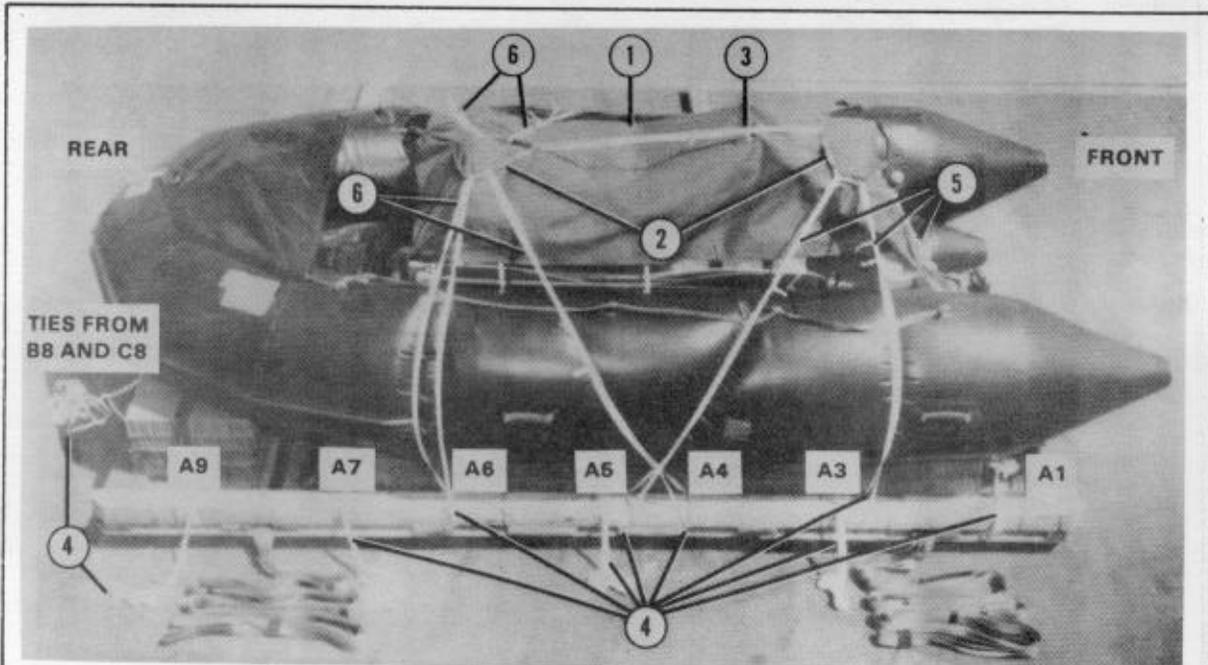


- ① Tie three paddles together using type III nylon cord. Stow one bundle of three paddles along each side of the boat.
- ② Stow four kit bags behind the engine and fuel tanks toward the bow. Secure them with tiedowns A, B, D, and E. Pass the webbing through the bag carrying handles.

Figure 3-48. Kit bags and paddles stowed

3-45. Installing Load Cover and Tiedown Rings

Make the three nylon webbing tiedown rings as shown in Figure 3-12. Install the load cover, and secure the load with the tiedown rings as shown in Figure 3-49.



- ① Cover the engine, the fuel tanks, and the rest of the load with a 6- by 8-foot piece of canvas. Tie the corners of the canvas to convenient points on the boat with type III nylon cord.
- ② Set a two-ply tiedown ring on each end of the load cover. Center the front ring over the engine power section housing. Center the rear ring over the load about 18 inches from the rear edge of the load cover.
- ③ Tie the rings together with a length of 1/2-inch tubular nylon webbing.

NOTE: MAKE ALL TIES TO THE TIEDOWN RINGS AS DIRECTED IN FIGURE 3-21.

- ④ Tie 14-foot lengths of 1/2-inch tubular nylon webbing to platform tiedown spaces A1, D1, A3, D3, A4, D4, A5, D5, A6, D6, A7, D7, A8, D8, A9, and D9. Tie additional lengths to A3, D3, A5, and D5; around B1 and C1; and around B8 and C8.
- ⑤ Tie the 14-foot webbing from spaces A3, D3, A5, D5, and B1 and C1 to the front tiedown ring.
- ⑥ Tie the webbing from spaces A4, D4, A6, and D6 to the rear tiedown ring.

Figure 3-49. Load and load cover secured

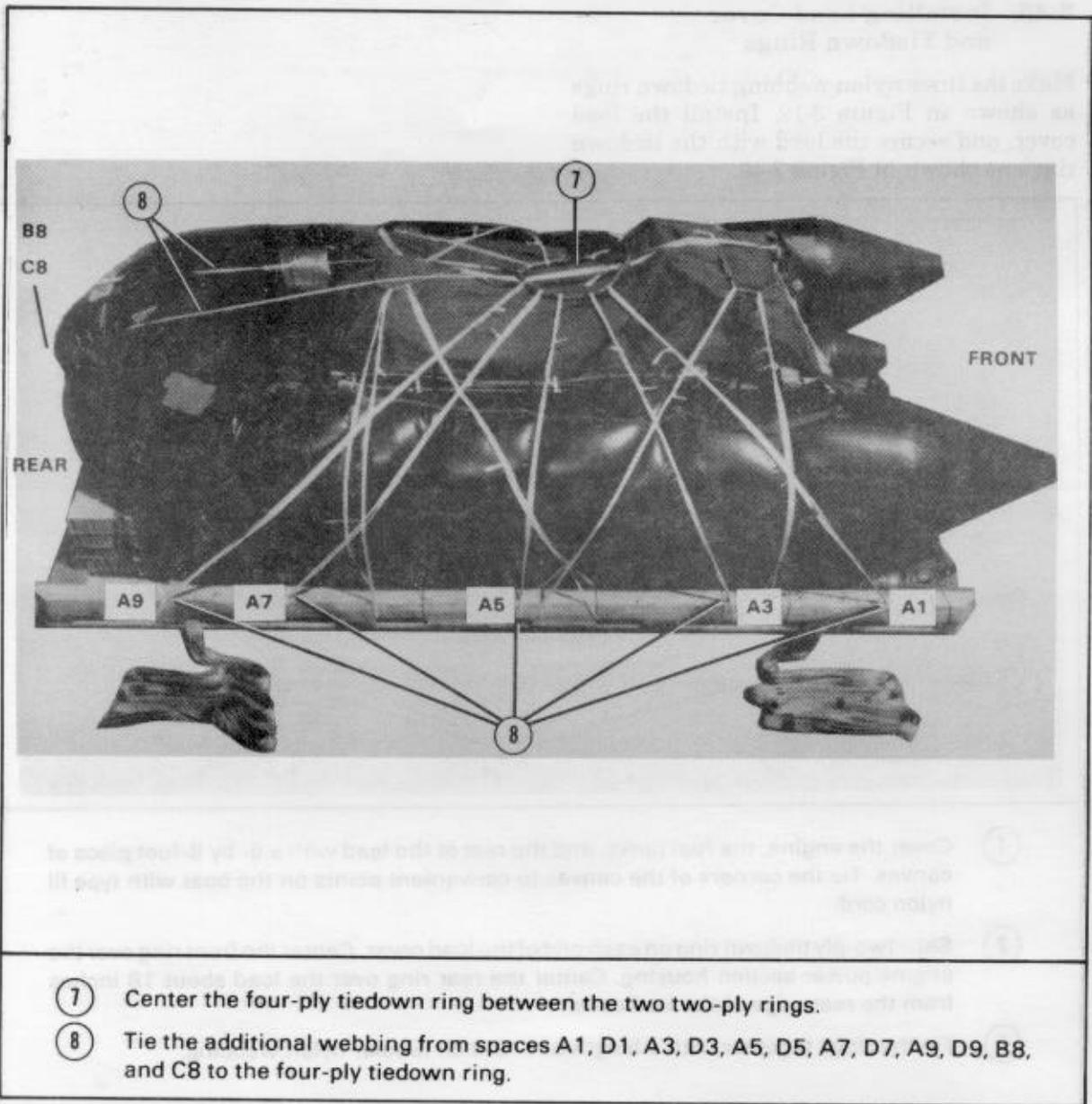


Figure 3-49. Load and load cover secured (continued)

3-46. Rigging Boat

Finish rigging the Zodiac K40 boat by adapting procedures in Section I.

3-47. Marking Rigged Load

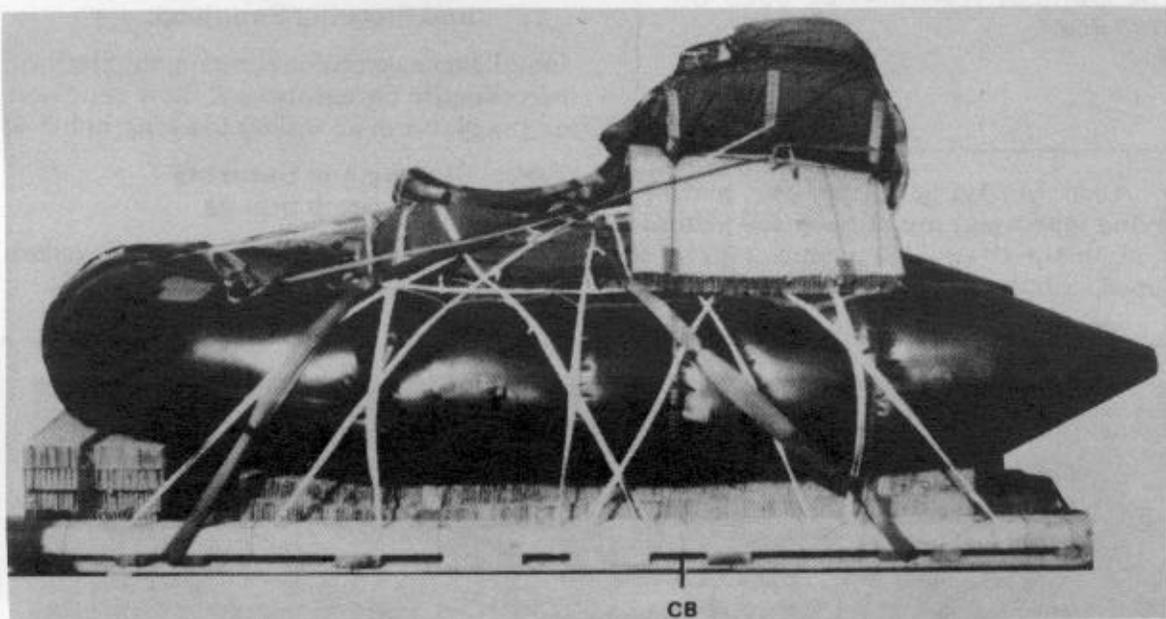
Mark the rigged load according to FM 10-500/TO 13C7-1-5 and as shown in Figure 3-50. If the accompanying load varies

from that shown, the weight, height, and CB must be recomputed.

3-48. Equipment Required

In addition to the items listed in Table 3-1, use six 18- by 78-inch pieces of honeycomb, eight 18- by 18-inch pieces of honeycomb, and one 24- by 36-inch piece of honeycomb.

CAUTION MAKE THE FINAL RIGGER INSPECTION REQUIRED BY FM 10-500/ TO 13C7-1-5 BEFORE THE LOAD LEAVES THE RIGGING SITE.



RIGGED LOAD DATA

Weight	2,208 pounds
Height	70 inches
Width	82 inches
Length	159 inches
Overhang: Front	20 inches
Rear	12 inches
CB (from front edge of platform)	52 inches

Figure 3-50. Zodiac K40 rubber raiding craft fully rigged