

APOLLO SAILBOAT SPINNAKER PACKAGE INSTALLATION INSTRUCTIONS



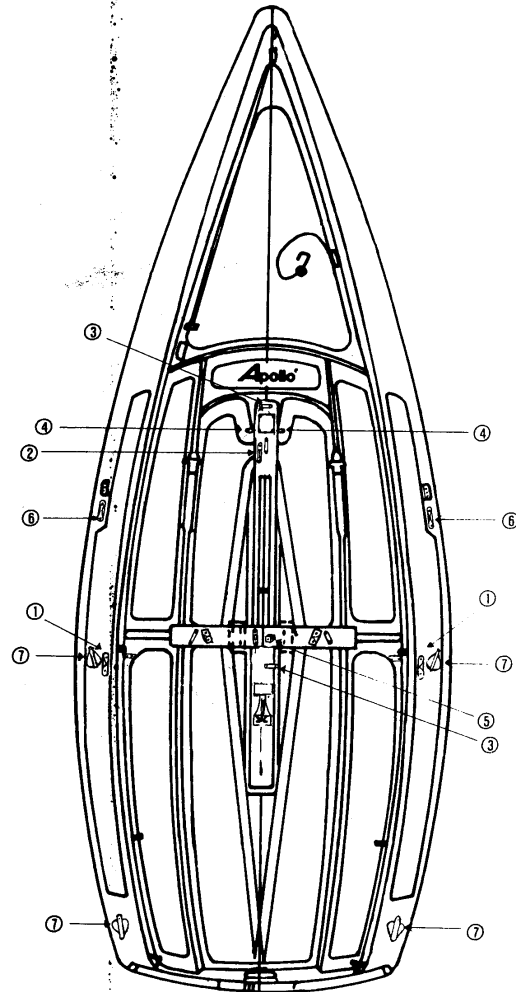
TOOLS NEEDED:

Drill
3/16" Drill Bit
1/8" Drill Bit
Phillips Head Screwdriver
3/8" Open End Wrench
Bedding Compound or Silicone Sealant
Pop Rivet Gun

All holes for machine screws and pop rivets to be drilled with 3/16" bit.

All holes for self-tapping screws to be drilled with 1/8" bit.

1. Install the cam cleats (2) without fairlead (for sheets) as indicated in drawing, 5-1/2" from the edge of the deck and even with the thwart with #10 x 1" self-tapping screws. Bedding compound should be used to maintain the water-tight integrity of the hull.
2. Install the jr. clam cleat (for topping lift) on the port side of the centerboard trunk cap 6" aft of mast as shown, with #10 x 3/4" self-tapping screws.
3. Install the bullseye fairleads as shown; (for halyard) 1" in front of the mainsheet cleat on starboard side of centerboard cap and (for downhaul) 1" in front of mast step on centerline, using #10 x 1-1/2" self-tapping screws.
4. Install 2 bullet blocks with eyestraps (for halyard and topping lift). They should be placed as far forward as possible allowing for the machine screws (#10 x 1") and nuts with washers and lock washers on either side of the mast step. Be sure they do not interfere with the mast tabernacle pins.
5. Install cam cleat with fairlead for halyard on the thwart using 2 #10 x 3/4" self-tapping screws through plate and 2 #10 x 1" self-tapping screws through cams. The starboard edge of the cleat should be even with the centerboard cap and the cams should be in line with the bullseye fairlead installed in step 3.
6. The aluminum guy hooks/clam cleats should be thru-bolted aft of the chain plates using the machine screws, nuts, washers and lock washers provided. Be sure that the open side of the cleat is facing outward and that they run parallel to the centerline of the boat.
7. The 4 cheek blocks for sheets should also be thru-bolted through the flange positioned as shown in the drawing.



8. Spinnaker halyard block is located just above the tang for keeperstay using eye-strap and bullet block fastened with pop rivets.
9. Topping lift block is attached in the same manner as the halyard block positioned 11' above the base of the mast.
10. Spinnaker pole eye should be positioned 3'10" above the base of the mast with pop rivets.
11. The halyard (40' piece of line supplied) should be led through the bullseye fairlead which is mounted near the mainsheet cleat, then through the cam cleat with fairlead to the bullet block on the starboard side of the mast alongside the mast, up to the block above the keeperstay and down, then tied to the sail using a bowline.

NOTE: The halyard is designed to be hoisted by the helmsman by pulling on the halyard aft of the bullseye fairlead near the mainsheet jam cleat. The line will automatically cleat. To release the halyard, raise the line between the cleat and fairlead.

12. The sheet is a continuous type (50' piece of line supplied) which is lead from the sail outside shrouds to the cheek block (7) at the stern to the cheek block amid-ships, across the boat in the same manner to the sail. The sheet is inserted into the guy hook on the pole side when the sail is set.
13. The topping lift (25' piece of line) is tied to the eye in the hook provided then led through the block on the mast down to the block on the port side of the mast and to the jr. clam cleat on the centerboard cap.
14. The downhaul (shock cord) is also tied through the eye in the hook down to the fairlead in front of the eye and then tied to the spinnaker pole eye. The pole downhaul (shock cord) will have to be tensioned sufficiently to prevent the pole raising up when the sail is hit by a gust of wind. There may be some excess shock cord which should be cut off.

