

SUNFLOWER



OWNER'S MANUAL

MODEL NO.
10-0040-5

- safety
- assembly
- transportation
- maintenance
- replacement parts



SNARK

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SPECIFICATIONS

Length	11 feet	Crew capacity	350 lbs. (2 adults)
Beam	3 feet 6 inches	Hull material	*Corlite
Freeboard	14 inches	Mast, boom, spar, tiller	Anodized Aluminum
Sail Area	55 sq. feet	Rudder head	cast aluminum
Shipping weight	100 pounds	Rudder blade	extruded aluminum
Hull weight	45 pounds	Wood Parts	varnished marine plywood

[°]Reinforced foam laminate

IMPORTANT OWNER'S RESPONSIBILITY

BE SURE TO READ THE FOLLOWING BEFORE LAUNCHING YOUR SAILBOAT

RULES FOR SAFE BOATING

A.

Before operating your boat, read the Snark Sailing Manual carefully and be thoroughly familiar with the rules for safe operation.

B.

Do not overload your boat. Capacities are clearly stated on the CAPACITY INFORMATION PLATE located on the transom of the boat.

C.

The SUNFLOWER is a small boat and caution must always be used, particularly when operating on open bodies of water where conditions can be unexpectedly severe.

D.

Always carry a Coast Guard-approved personal flotation device for each person aboard and check with local authorities for regulations governing registration and operation of your boat. If capsizing should occur, stay with your boat until help arrives. It will not sink and is far easier for rescuers to see than a lone swimmer.

FIGURE 1

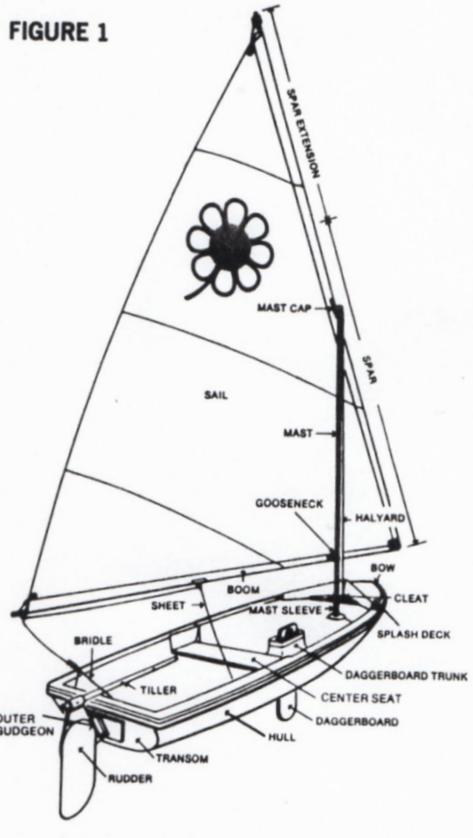


FIGURE 3

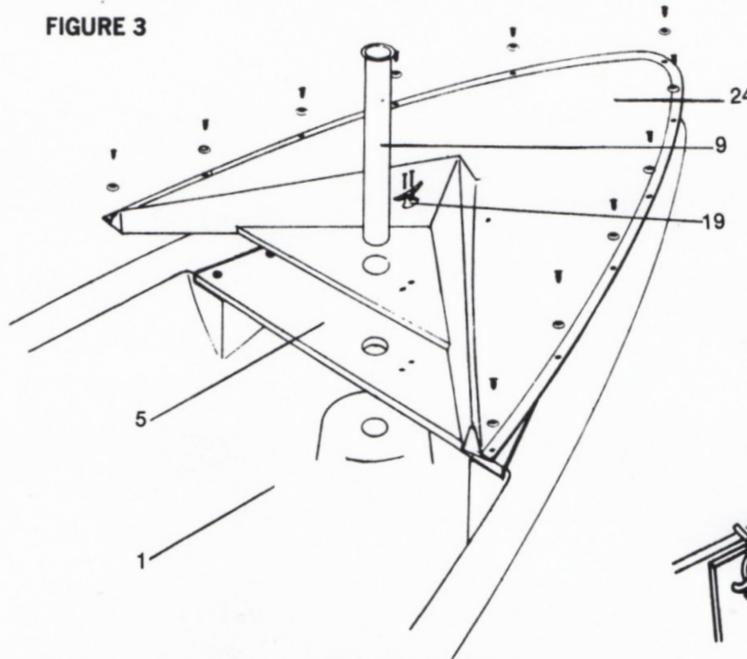
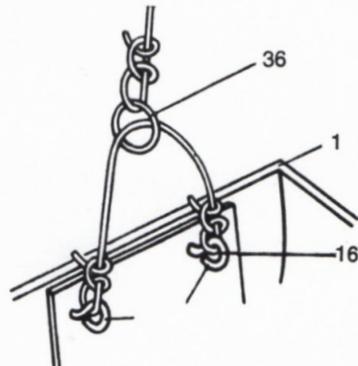


FIGURE 4



using machine screws, flat washers and nuts through predrilled holes in splash deck and mast seat.

d. Parts for the splash desk are packed in a separate bag. They consist of: 14 screws, 12 washers and 1 punch nail. Align the predrilled hole on the front of the splash deck with the center of the SUNFLOWER bow. After making a small starter hole with a punch nail, secure the deck with a screw and finishing washer. Repeat this procedure on all other predrilled holes in the splash deck.

(NOTE: To assure good installation, it is important that you do not overtighten the screws securing the splash deck.)

4. BRIDLE (FIGURE 4)

a. Insert two screw eyes (16) in the predrilled holes in the upper corners of the inside transom pad, which has been fitted into the hull prior to shipment.

b. From the smaller diameter line, cut a piece of $\frac{1}{4}$ inch rigging line three feet long. To prevent the line from unravelling, seal the ends by heating them with a match, cigarette lighter or other naked flame.

c. Tie one end of the line to one of the screw eyes. Slide a white nylon ring (36) onto the line and tie the free end to the other screw eye. Make sure that the bridle line passes over the top of the tiller.

d. Using a piece of $\frac{1}{8}$ inch line or chain (not supplied), attach one end of the rudder "L" pin (21) fitted in step 1d to one of the screws fitted in step 4a. This will keep the pin from being lost.

5. SAIL ASSEMBLY (FIGURE 5)

1. Slide the crimped end of the $30\frac{1}{2}$ inch long spar extention (13) into the upper end of the spar.

2. Fit caps (27) into the ends of the boom (11) and the spar (12 & 13).

(NOTE: Spar is identified by having only four screw holes whereas the boom has six holes).

3. Lay out sail, boom and spar as shown in Fig. 5 at right.

4. Starting at the clew, insert the forward end of the boom (end with predrilled hole through both sides) into the hem and slide it to a point halfway through the second cut-out.

5. Slide the brass gooseneck fitting over the forward end of the boom. Without tightening the gooseneck, slide the boom through the remaining hem.

6. Starting at the head, insert the lower end of the spar (with predrilled hole through both sides) into sail hem and slide it through entire sail.

7. Connect boom and spar with double eyebolt (25) and nuts, as shown in Figure 6.

8. Using eyestraps (17) and sheet metal screws, install pulley blocks (18) on boom at points "A" and "B" in Figure 5.

9. Using sheet metal screws, install eyestraps on spar at points "D" and "C" in Figure 5.

10. There are short lengths of line attached to grommets at each corner of the sail. Tie those at the head and clew as shown in Fig. 7. Tie that at the tack as shown in Figure 6.

6. RIGGING (FIGURE 6 and 7)

1. Put the mast cap (20) on one end of the mast (10).
2. Lay the folded sail assembly along the center-line of the hull so the gooseneck is centered over the mast sleeve.
3. From the smaller diameter line, cut an 11 foot length for the halyard. After sealing the ends with a match or other flame, pass one end through eye strap ("D") and tie around spar. Pass the other end through the mast cap and tie a knot as close as possible to the end.
4. Insert the mast through the gooseneck and into the mast sleeve, insuring that the boom is to the left side of mast.
Pass the other end through the mast cap and tie a knot as close as possible to the end.
5. Pull down on the halyard to raise the sail. Raise the sail as high as possible, then tie the halyard around the cleat at right of the mast.
6. Align gooseneck so that it makes a 90° angle with rings at the base of the boom and tighten in place.
7. Seal the ends of the diamond braided line. Tie one end to the ring on the bridle which was installed in step 4-C. Thread the free end through the pulley on the base of the boom nearest the stern of the boat, then through the pulley nearest the mast. Tie a figure 8 knot at the end of the line.
8. Insert the daggerboard (2) into the daggerboard well.

TRANSPORTING YOUR SUNFLOWER

Transporting any boat on a cartop rack places considerable stress on the hull unless properly supported. Care must be used in adjusting straps, cables and clamps to prevent excessive pressure on the boat.

The boat should rest inverted on its gunwales. Padding should be placed between the gunwales and the cartop carrier to prevent chaffing. In addition to securing the boat to the cartop carrier, the bow and stern should be secured to the vehicle to prevent longitudinal movement.

MAINTENANCE

To minimize needless wear and excessive scratching, avoid dragging your boat over abrasive surfaces such as concrete launching ramps, coral or rocky beaches, garage floors. . . .

Cleaning your SUNFLOWER is easily accomplished with soap and water and a brush. Avoid strong detergents, alkalis and organic solvents. Sun tan oils, cosmetics, and grease should be removed promptly to avoid permanent stains.

The *"Corlite"™ construction is exceptionally strong, but like all other boat construction materials, it is not indestructible. The SUNFLOWER will absorb impact exceptionally well. However, severe localized impact can cause a fracture. (It is improbable that the fracture would affect more than the impacted skin and the adjacent foam.) Repairs can be made relatively easily using the *CORLITE™ REPAIR KIT.

FIGURE 5

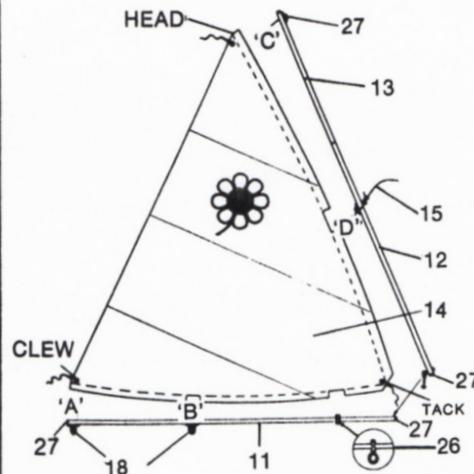


FIGURE 6

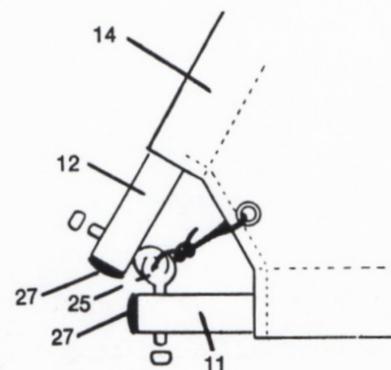
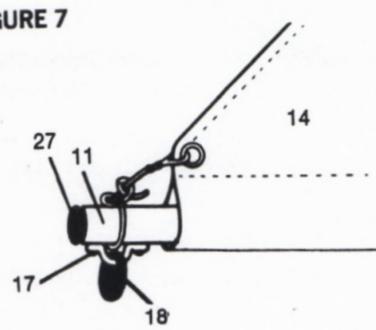
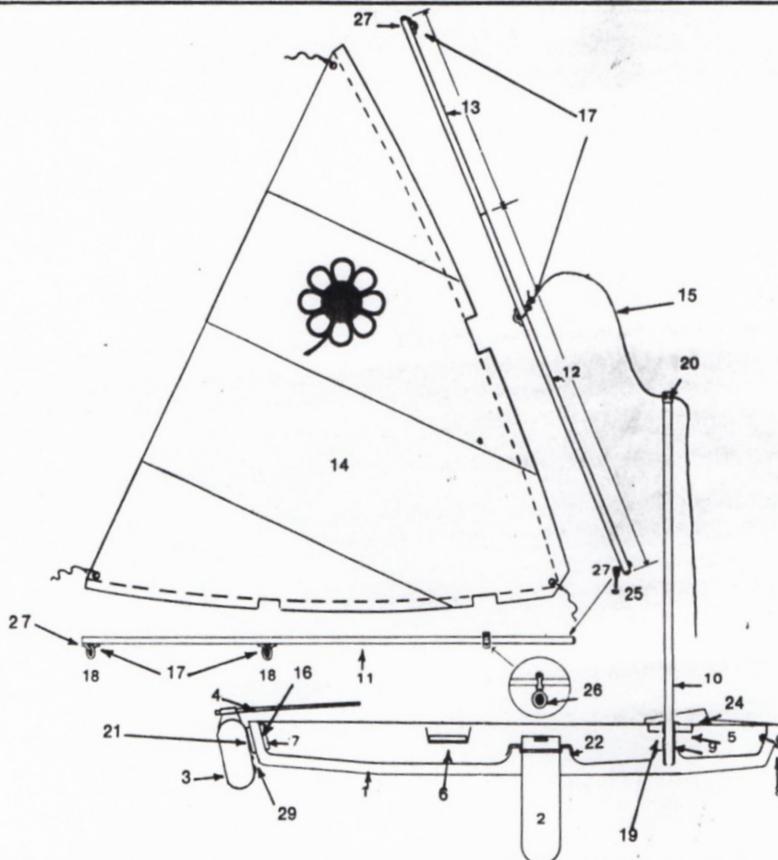


FIGURE 7



SUNFLOWER REPLACEMENT PARTS



Key No.	Part No.	DESCRIPTION	Key No.	Part No.	DESCRIPTION PART NAME
1*	7300	Hull, without rigging, fittings or hardware (F.O.B. Factory)	19	7111	Cleat, with bolts, nuts and washers
2	1101	Daggerboard	20	1123	Mast cap
3	7301	Rudder assembly (head, pad, blade, bearing washer, pivot bolt and pivot nut)	21	2123	Rudder "L" pin
4	7302	Tiller, assembly (Tiller mount and hardware)	22	2122	Daggerboard well cap, white
5	7102	Mast seat, with screws and washers	23*	7307	Complete sail assembly (mast, boom, spar, spar extension, sail)
6	7304	Center seat with Velcro	24	7308	Splash deck with mounting hardware
7	7305	Inner and outer transom pads with bolts and screw eyes	25	7309	Double eyebolt assembly
8	7104	Bow eye, with nut and washers	26	1509	Gooseneck
9	2106	Mast sleeve	27	7306	Spring closure caps for boom and spar (set of 4)
10*	2111	Mast	28	2135	Complete bag of Sunflower hardware
11*	1501	Boom	29	2125	Tiller mount
12*	1502	Spar	30	2101	Rudder only
13	1508	Spar extension	31	2119	Rudder head only
14	1503	Sail	32	2102	Tiller only
15	2137	Rigging (sheet, halyard, bridle)	33	1209	Outer gudgeon
16	7107	Screw eyes (2) for bridle	34	0312	Rudder friction pad
17	7108	Eyestraps (set of 4), with screws	35	1513	Foredock screws
18	2134	Pulley blocks (2)	36	0318	Cotter pin

* Large items

HOW TO ORDER REPLACEMENT PARTS

All parts listed may be ordered from any authorized Snark Dealer or Snark Products Inc., One Riverside Plaza, North Bergen, NJ 07047 (ATTN: Parts Dept.). Retail prices for all items above are available upon request.