

Snark Sailboat Manual

Sundancer or Fireflower

*(Discontinued –Some Parts Are Available – Hull Similar to the current Sunflower 3.3
and Sail Rig is Similar to the Main Sail of the current Sea Skimmer)*

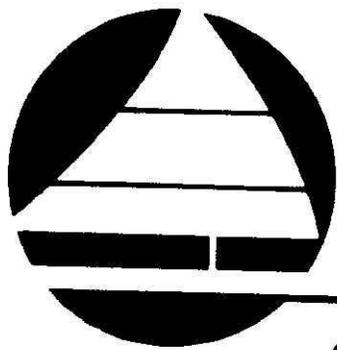
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SNARK BOATS

OWNERS MANUAL

SUNDANCER MODEL NO: SB 118

- Safety
- Assembly
- Operation
- Transportation
- Maintenance
- Replacement Parts

SPECIFICATIONS

Length	11'	Sail Area	60 sq. ft.
Beam	3'6"	Hull Material	Armor-Clad
Freeboard	14"	Crew Capacity	310 lbs.

NOTICE

- *Do not allow raw gasoline or other petroleum based products to come in contact with styrene (core of hull).
- *Standing in boat on land may cause delamination of hull covering.

IMPORTANT

OWNER'S RESPONSIBILITY

BE SURE TO READ THE FOLLOWING BEFORE LAUNCHING YOUR SAILBOAT

RULES FOR SAFE BOATING

1. Before operating your boat, read all the manuals carefully and be thoroughly familiar with rules for safe operation.
2. Check with local authorities for regulations governing registration and operation of your boat. Do not overload your boat. Capacities are clearly stated on the Capacity Information Plate on your boat.
3. Use common sense at all times. While sailing is one of the safest sports, develop a healthy respect for Mother Nature. Remember, wind and water (particularly cold water), can be hazardous elements. Keep an alert lookout—accidents occur when you don't use your eyes.
4. This is a small boat and caution must always be used, particularly when operating on open bodies of water where weather conditions (wind and water) can suddenly become unexpectedly severe. Always check local weather conditions before beginning and then continue to keep an eye on the weather.
5. Always carry a Coast Guard-approved Personal Flotation Device (PFD) for each person aboard. Children and non-swimmers should wear theirs at all times, and everyone should wear it if rough weather conditions develop.
6. If you capsize (and most sailors, even good ones, will at one time or another capsize), observe the following:
 - a. Account for all aboard.
 - b. Swim to the boat and always stay with the boat. It is far easier for rescuers to see it than a lone swimmer. Remember, your boat cannot sink.
 - c. Don life jackets.
 - d. Gather and secure all gear together.
 - e. Make sure the centerboard is pushed into place so that it protrudes its entire length.
 - f. Right the boat by placing your knee or foot on the edge of the boat, grasp the centerboard and allow your body weight to slowly pull the hull into an upright position. Climb into the boat by sliding up and along on your stomach.
 - g. Remember, when the boat capsizes, it is easier to right when it is on its side and before it turns completely over (turns turtle); however, your boat can be righted from the turtle position, too.

ASSEMBLY INSTRUCTIONS

1. RUDDER AND TILLER (Diagram 1)

- a. Locate the following items:
 1. Black rudder head (31)
 2. "L" pin (21) and cotter pin (22)
 3. Tiller and tiller extension (29)
 4. 1" bolt and nut (36)
 5. Rudder Blade (30)
 6. Bolt, washer and nut (37)
- b. Place the black rudder head (31) on the hinge plate (33) with the pointed end up. Secure in position by sliding the rudder "L" pin through the flanges. Insert the cotter pin through the small hole in the lower end of the "L" pin.
- c. Slide the tiller mount (29) over the pointed end of the rudder head (31) and align the rear most hole in the tiller mount with the hole in the top of the rudder head. Secure with 1" bolt and locking nut (36).
- d. Insert the carriage bolt through the square hole in the center of the rudder head. This bolt must pass from the left side to the right side. Install the rudder blade with 5/16" washer and locknut (37).
- e. Install rudder blade on the carriage bolt and secure with locknut. The nut should only be tight enough to give a slight resistance when you try to lift.

2. BOW EYE

- a. Insert the bow eye (8) through the predrilled hole in the bow (front) of the hull and sandwich the hull with large washers and nut.

3. SPLASH DECK (Diagram 2)

- a. Locate mast step (24).
- b. Position splash deck (7) on the bow so that hole in wood seat and hole in deck lines up and point of deck lines up with point of boat.
- c. Insert step (24) through splash deck and mast seat (11). Bend slots in step (24) outward to keep in place.
- d. Install cleat (25) on right side of mast sleeve, using machine screws, flat washers and nuts through predrilled holes in splash deck and mast seat.
- e. Parts for splash deck are packed in a separate bag. They consist of screws, washers and a punch nail. Align the front of the splash deck with the center of the bow, starting with the two aft (rear) holes first. Make a small starter hole with the punch nail and 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** over tighten the screws securing the splash deck. Decal for splash deck is packed with the daggerboard.
Lay decal on deck and position. After positioning, remove backing and adhere to splash deck.

4. BOOM ASSEMBLY (Diagram 3)

- a. Taking the end of the boom (6) install gooseneck (41) so eyebolt with S-hook can be inserted through boom and tightened with self-locking nut. Attach fairlead (26) to the top of the boom with two #6 x 1" screws. With the 1-7/8" round head machine screw and 10 x 24 lock nut attach the boom block and bail (23) to the boom.
- b. Tap on the dome end cap (19) and screw the outhaul clam cleat (39) into the predrilled holes in the side of the boom using two #8 x 3/4" self tapping screws.

5. RIGGING

- a. Push on mast cap (42) on top of upper mast section (smaller diameter).
- b. Insert upper mast (5) into lower mast section (4).
- c. Carefully slide bottom of sail sleeve over mast top.
- d. Insert battens into sail.
- e. Insert mast through mast step (24) in splash deck. Place gooseneck (41) around mast. While holding boom in place, take the S-hook and connect to the tack grommet in the sail.
- f. Locate the line supplied in the parts bag: outhaul (5'), downhaul (5'), boom vang (9') and main sheet (20').
- g. Take the outhaul line, tying one end to the clew grommet of the sail and insert the free end through the eye in the dome end cap (19) and secure to clam cleat (39).
- h. Take the downhaul line and tie one end to the small hole in the gooseneck (41) and secure the free end to the cleat on the splash deck.
- i. Take the boom vang line and knot one end and thread through the end of the vang adjuster (18)—6" metal plate with 3 holes. Loose end should go over boom and through fairlead (26) and down to and through vang toggle (13), and threaded through the other two holes in the adjuster. Add sufficient tension to keep boom lowered and parallel to the plane of the hull.
- j. Take end of the main sheet and tie to the becket (looped end) of the boom block (23). Thread the free end through the fairlead (27) located behind the daggerboard trunk and thread back up through the boom block pulley (23).

TRANSPORTING YOUR SAILBOAT

Transporting any boat on a cartop carrier 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. If cartop is not wide enough, a board such as 2 x 4 across carrier could provide a good boat support and place to tie spar (mast & boom) when transporting.

The boat should rest inverted on its gunwales. Padding may 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 tied to prevent sway or other movement.

MAINTENANCE

YOUR BOAT: Your boat should be kept inside or covered when not in use. Avoid long periods of exposure to direct sunlight or weather. To minimize needless wear and excessive scratching, avoid dragging your boat over abrasive surfaces such as concrete launching ramps, coral, rocky beaches, garage floors, etc.

CAUTION: If the ABS skin is fractured and the EPS foam core exposed, gasoline or oil spillage will cause damage. Repairs to the exposed area should be made immediately using the Epoxy Repair Kit #BA302 available from Snark Boats.

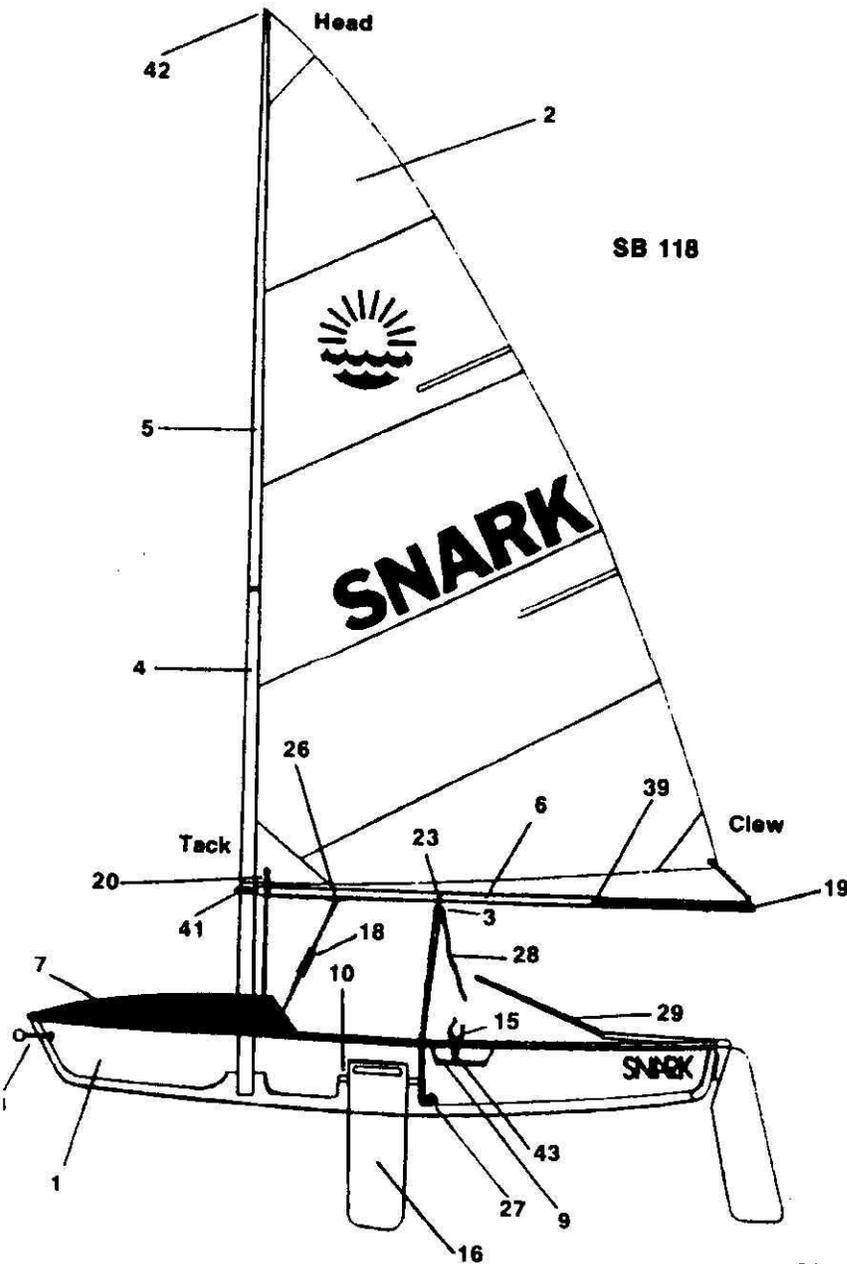


DIAGRAM 1

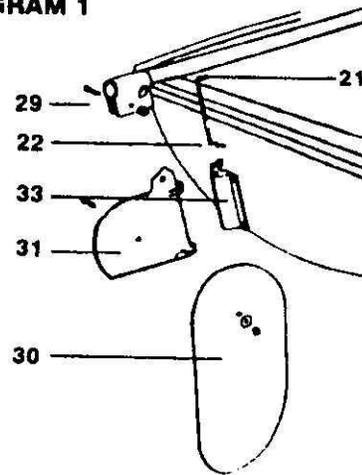


DIAGRAM 2

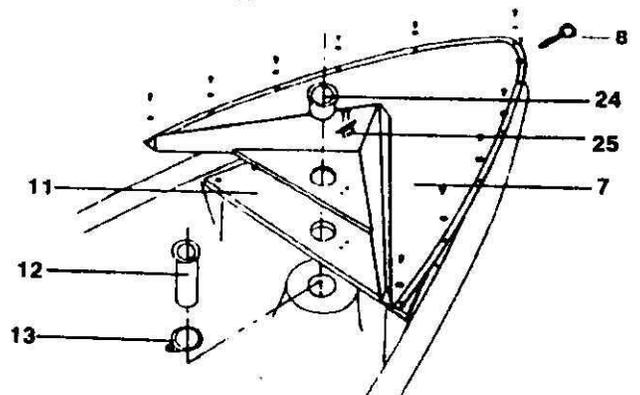
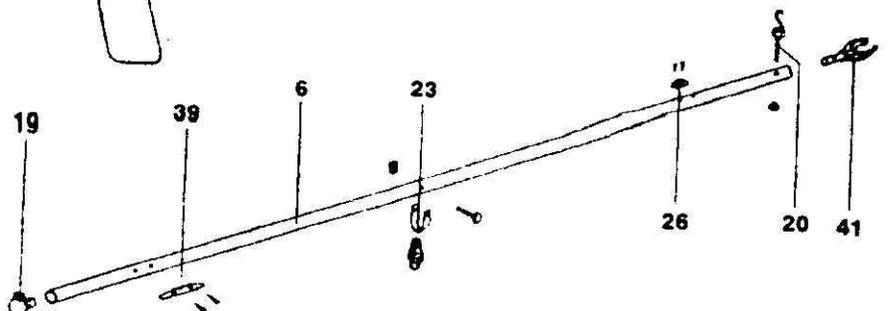


DIAGRAM 3

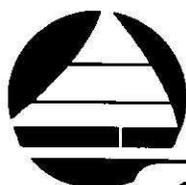


Replacement Parts Price List

NOTE: Items with Asterisk (*) must be shipped by common carrier.
Prices and Specifications are subject to change without notice.

Sundancer SB 118

Key No.	Quantity	Part No.	Description
1	1	74350*	Hull Only
2	1	63800	Sail, 60 Sq. Ft. with Battens; Multi-color
3	1	63730	Boom Block with Swivel
4	1	74365	Lower Mast (7' 11")
5	1	63870*	Upper Mast (9' 6")
6	1	74370	Boom with End Cap (7' 11")
7	1	P-74330*	Splash Deck Assembly (74380 Splash Deck with Gasket & Decals; 61380 Screw Package) ..
8	1	P-62360	Bow Eye Assembly (62360 Bow Eye; 62670 2-Washers; 62660 1-Locknut)
9	1	63930	Center Seat
10	1	74220	Well Cap (White)
11	1	P-63810	Mast Seat (63810 Mast Seat; 62410 4-Screws; 62510 4-Washers)
12	1	63710	Mast Sleeve
13	1	63700	Vang Toggle
15	1	P-30910	Oarlock Horns (2 each 30910)
16	1	63820	Daggerboard
18	1	63690	Vang Adjuster
19	1	60660	Dome End Cap with Eye
20	1	P-31390	Eyebolt (31390 Eyebolt with S-Hook; 31550 Locknut)
21	1	62250	Rudder "L" Pin
22	1	60060	Hair Pin Cotter
23	1	P-63610	Boom Strap (63610 Boom Strap; 63600 Screw; 31550 Locknut)
24	1	63720	Mast Step
25	1	P-30680	Cleat Assembly (30680 Cleat; 31000 2-Screws; 62630 2-Washers; 31350 2-Locknuts) ..
26	1	P-31330	Pad Eye (31330 Pad Eye; 31370 2-Screws)
27	1	P-63620	Fairlead (63620 Fairlead; 63640 2-Screws)
28	1	74390	Line Set (Main Sheet, Down Haul, Out Haul, Boom Vang)
29	1	74360	Tiller Assembly with Extension (74360 Tiller Assembly; 61010 Nut; 60100 Screw)
30	1	63830	Rudder Blade
31	1	P-62020	Rudder Head (62020 Rudder Head; 62560 Bolt; 61620 Washer; 62660 Locknut) ..
33	1	P-62010	Gudgeon (62010 Gudgeon; 60900 4-Screws)
39	1	P-63630	Clam Cleat (63630 Clam Cleat; 32130 2-Screws)
41	1	31590	Gooseneck
42	1	60310	Mast Cap
43	1	P-30900	Oarlock Socket (2 each 30900 Sockets; 32140 4-Screws)
44	1	89140*	Sail Assembly (74375 Upper Mast, Lower Mast, Boom; 74390 Line Set; 63800 60 sq. ft. Sail with Battens; 31590 Gooseneck; 63630 Cleat; 32130 2-Screws; 31330 Pad Eye; 31370 2-Screws; 63610 Boom Strap; 63600 Screw; 31550 2-Nuts; 63730 Boom Block with Swivel; 63690 Vang Adjuster; 31390 Eyebolt with S-Hook; 60310 Mast Cap)
45	1	61990	Bumper, Rubber



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