HOBIE 18 SX WING INSTALLATION INSTRUCTIONS

CHOORIE CAT

INSTALLATION REQUIRES:

DRILL MOTOR, 3/8" CHUCK
1/4" ROTARY BURRING BIT
3/16",1/4" & *4 DRILL BITS
5/32" HEX KEY
RAT TAIL FILE
RIVET POPPER
PHILLIPS SCREW DRIVER
VISE GRIPS
"C" CLAMPS
3/8" PEN END WRENCH
1/2" CLOSED END WRENCH
SOCKET SET & RACHET
TAPE MEASURE & PENCIL

1	DESCRIPTION	QUAN.
06010131	RIVET 3/16" x 5/8" RIVET CAP 5.5.	60
06011291	RIVET CAP S.S.	60
1 00000 51	OCE 110 177 X 1 07 10	7
09031921	SCREW, SOC. SET 5/16"-24 x 2"	4
08050331	NUT, 5/16"-24 HEX NYLOCK LO-PRO	8
08080891	WASHER, / 16" x 5/ 16" x .065"	4
58160001	STRUT, BLK. ANODIZED	2
91490021	KICK UP BRACKET	4
08030111	SCREW, •10-32 x 1" RHMS	4
08050201	NUT, #10-32 HX NYLOCK	4
08020061	NUT, *10-32 HX NYLOCK CLEVIS PIN 3/16" x 13/16" CLEVIS PIN LOCK RING, SMALL WING LEG ANCHOR PLATE CLEVIS PIN RING DING, LRG, WING COVER LINE, H18 SX 32' WING COVER LINE, SHORT 18 X 4'	4
10860001	CLEVIS PIN LOCK RING, SMALL	4
68190000	WING LEG ANCHOR PLATE	4
20860005	CLEVIS PIN RING DING,LRG.	4
68950001	WING COVER LINE, HIB 5X 32'	2
68951001	WING COVER LINE, HIB SX 32" WING COVER LINE, SHORT IB X 4" MAG MOUNT BAR 2 1/4"	2
6507000)	HAR MOUNT BAR S 1/4"	₽ P
65100000	STRUT TAB	*
13300001	ANCHOR PLATE INSTRUCTION SHT.	i
	STRUT INSTRUCTION SHT. INSERT	1
	HIBSX WING INSTRUCTION SHT.	1
13600001	TRAMP LACE INSTRUCTION SHT.	t l

THIS KIT CONTAINS:

11

I. INSTALLATION OF MOUNTING FASTENERS

THE WINGS ATTACH AND PIVOT ON FOUR SOCKET SCREWS WHICH ARE THREADED INTO MOUNTING BARS INSERTED INTO THE TRAMPOLINE TRACK OF THE FRONT AND REAR CROSSBARS.

INSTALLATION OF THE MOUNTING FASTENERS, ON PRE-1984 BOATS, REQUIRES THE ENLARGEMENT OF THE TRAMPOLINE SLOT SO THAT THE SOCKET SCREWS CAN BE THREADED INTO MOUNTING BARS. LATER BOATS ARE PRE-DRILLED.

- A. REMOVE THE TRAMPOLINE.
- B. ON THE FRONT CROSSBAR, MEASURE 1 1/4" INWARD FROM THE INBOARD HULL RAIL OF BOTH HULLS.
- C. USING A 1/4" ROTARY BURRING BIT, OR RAT TAIL FILE, ENLARGE THE TRAMPOLINE SLOT TO A DIAMETER OF 5/16" AS SHOWN.
- D. REPEAT THIS PROCEDURE ON THE PORT SIDE OF THE REAR CROSSBAR.
- E. THE STARBOARD SIDE OF THE REAR CROSSBAR HAS ALREADY BEEN ROUTED OUT TO ALLOW FOR THE INSTALLATION OF THE TRAMOPLINE AFT LACING STRIP AND ONLY REQUIRES ENLARGEMENT OF THE TOP HALF. WARNING: USAGE OF A STANDARD DRILL BIT TO ENLARGE THE TRAMPOLINE SLOT IS NOT RECOMMENDED. DRILL BITS TEND TO WALK AND CATCH IN THE SLOT A USE A FILE INSTEAD.
- F. SLIDE THE MOUNTING BARS (2 1/4") INTO THE TRAMPOLINE SLOT OF THE FRONT CROSSBAR AND THE PORT SIDE OF THE REAR CROSSBAR.

 NOTE: IT MAY BE NECESSARY TO FORCE THE MOUNTING BAR INTO THE TRAMP SLOT OR REMOVE SOME OF THE MATERIAL AT THE OPENING USING A FILE OR ROTOR BURRING BIT. ONLY REMOVE ENOUGH MATERIAL REQUIRED TO INSERT THE MOUNTING BAR.
- G. REINSTALL THE AFT LACING STRIP ONTO THE REAR CROSSBAR.

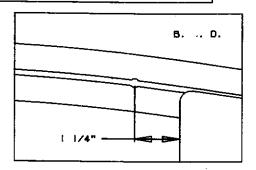
 NOTE: IT MAY BE NECESSARY TO TRIM SOME OF THE BOLT ROPE OFF OF THE

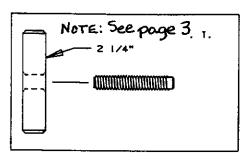
 TRAMPOLINE CORNERS TO ALLOW FOR CLEARANCE OF THE MOUNTING

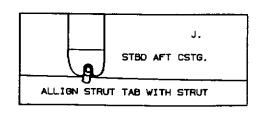
 BARS IN THE TRAMP SLOT. HEAT SEALING THE CUT EDGES IS RECOMMENDED

 (A SOLDERING IRON IS SUITABLE).
- H. INSTALL THE STBD. MOUNTING BAR
- THREAD THE SOCKET SCREWS INTO ALL FOUR MOUNTING BARS.
 THEN INSTALL ANCHOR PLATES (SEE INSTRUCTION SHT. 13300001)
- J'. REMOVE THE COVER PLATE FROM THE CASTINGS ON THE CROSSBARS AND INSTALL THE FOUR STRUT TABS USING THE OUTBOARD ASSEMBLY BOLTS ON BOTH CROSSBARS.
 - NOTE: IT 18 RECOMMENDED THAT THE ANTI-SEIZE LUBRICANT BE APPLIED TO THE ASSEMBLY BOLTS SO THAT THE STRUT TABS CAN BE REMOVED WHEN DESIRED WITHOUT SEIZING THE BOLTS.

 ALSO, WITH THE BOLT REMOVED, IT MAY BE NECESSARY TO FILE THE OPENING OF THE CORNER CASTING TO REMOVE ANY SHARP BURRS AND TO MAKE SURE THAT THE STRUT TAB SEATS FLATLY IN PLACE.
- K. REINSTALL AND LACE UP THE TRAMPOLINE. AGAIN, IT MAY BE NECESSARY TO TRIM THE ENDS OF THE TRAMPOLINE BOLT ROPE TO ALLOW CLEARANCE FOR THE MOUNTING BARS IN THE TRAMPOLINE SLOT, AND THE ANCHOR.







2. WING ASSEMBLY

A. UNPACK WING LEGS AND SEATS FROM BOX AND IDENTIFY AS FOLLOWS:

STBD LEG AFT GREEN STICKER MARKED "A"
STBD LEG FWD GREEN STICKER MARKED "F"
STBD SEAT GREEN STICKER
PORT LEG AFT RED STICKER MARKED "A"
PORT LEG FWD RED STICKER MARKED "F"
PORT SEAT RED STICKER

B. PLACE LEGS IN THEIR PROPER LOCATION ON THE BOAT AND INSTALL THE REMAINING WASHERS AND NUTS.

WARNING: DO NOT OVERTIGHTEN, WING MUST PIVOT FREELY, ALSO, MAKE SURE SCREWS EXTEND PAST LOCK NUTS A MINIMUM OF TWO TO THREE THREADS TO PREVENT NUTS FROM BACKING OFF. IF SCREWS NEED ADJUSTING TO GET PROPER THREADING, LOSEN NUTS AND ADJUST WITH 5/32" HEX KEY.

NOTE: IF THE STRUT OF THE LEG DOES NOT COVER THE BOLT HEAD OR BEAR ON THE CASTING IT MAY BE NECESSARY TO BEND THE STRUT TAB OR, IN EXTREME CASES, REMOVE THE SOCKET SCREW AND LENGTHEN THE 5/16" OPENING TO ACCOMMODATE THE VARIANCE.

- C. ONCE LEGS ARE IN PLACE, PUT THE SEATS IN POSITION, LEGS SHOULD NEST IN SUPPORT CASTINGS MOUNTED TO THE SEATS. USING "C" CLAMPS, FIRMLY CLAMP SEATS TO LEGS IN PROPER POSITION BY CLAMP-ING DIRECTLY OVER THE SUPPORT CASTING AS SHOWN.
- D. USING THE CASTINGS AS DRILL GUIDES, DRILL OUT ATTACHMENT HOLES IN LEGS WITH A *5 DRILL BIT. INSTALL RIVETS AND RIVET CAPS IN HOLES DRILLED TO COMPLETE ASSEMBLY OF THE WING.
- E. REMOVE THE WING FOR TRAMPOLINE INSTALLATION.

3. WING TRAMPOLINE INSTALLATION - REFER TO INSTRUCTION SHEET 13600001

THEIR ARE TWO DISTINCT TRAMPS FOR THE WINGS, ONE MARKED "P" FOR PORT AND THE OTHER "S" FOR STBD.

NOTE: FOR SITTING COMFORT AND EASE WHEN TRAPPING OUT FROM THE WINGS, DO NOT OVER TIGHTEN THE TRAMP OR USE TOOLS WHICH MAY DAMAGE THE TRAMP MATERIAL.

- A. REINSTALL WINGS ON BOAT ONCE TRAMPS ARE IN PLACE.
- B. WITH THE WING IN SAILING POSITION, FIRMLY PRESS DOWN ON THE ASSEMBLY SO THAT THE STRUTS ARE FITTED AGAINST THE STRUT TABS AND CORNER CASTINGS (COVERING THE BOLT HEAD). BE CERTAIN THAT THE STRUT TABS ARE ALLIGNED WITH THE STRUTS.
- C. USING THE STRUT TAB AS A DRILL GUIDE, DRILL THROUGH BOTH WALLS OF THE STRUT WITH A 1/4" DIA. DRILL BIT. RAISE THE ASSEMBLY AND CLEAR OUT DEBRIS.
- D. SECURE THE WINGS INTO POSITION USING THE FOUR CLEVIS PINS AND CLEVIS PIN RING DINGS.
- F. RELEAD THE TRAPEZE WIRES TO THE OUTSIDE OF THE WINGS.

NOTE: TO PREVENT CHAFING OF THE TRAMP MATERIAL MAKE SURE THAT THE CLAMPS ON THE SHOCKCORD ARE COMPLETELY CLOSED AND COVER THEM WITH TAPE. ALSO, A LONGER SHOCKCORD MAY BE NEEDED FOR PREFERRED TRAPEZE TENSION.

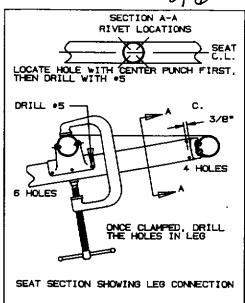
F. TO COMPLETE ASSEMBLY, INSTALL STRUTS USING INSTRUCTION SHT. 13290000

4. IMPORTANT OPERATING NOTES

- A. DO NOT EXCEED THE LOAD CAPACITY OF 450 POUNDS.
- B. WHEN SAILING, WHILE SITTING ON THE WINGS, BE AWARE OF THE LEVEL OF THE BOOM BECAUSE YOU ARE MUCH HIGHER THAN YOU WOULD BE ON THE TRAMPOLINE AND AVOID ANY ACCIDENTAL JIBES (WHEN THE MAINSAIL ABRUPTLY SWINGS FROM ONE SIDE OF THE BOAT TO THE OTHER).
- C. REMOVE OR COVER THE STRUT TABS WHEN SAILING WITHOUT THE WINGS.
- D. WHEN TRAILERING, IT IS RECOMMENDED THAT YOU LAY THE MAST SIDEWAYS.

5. LIMITED WARRANTY

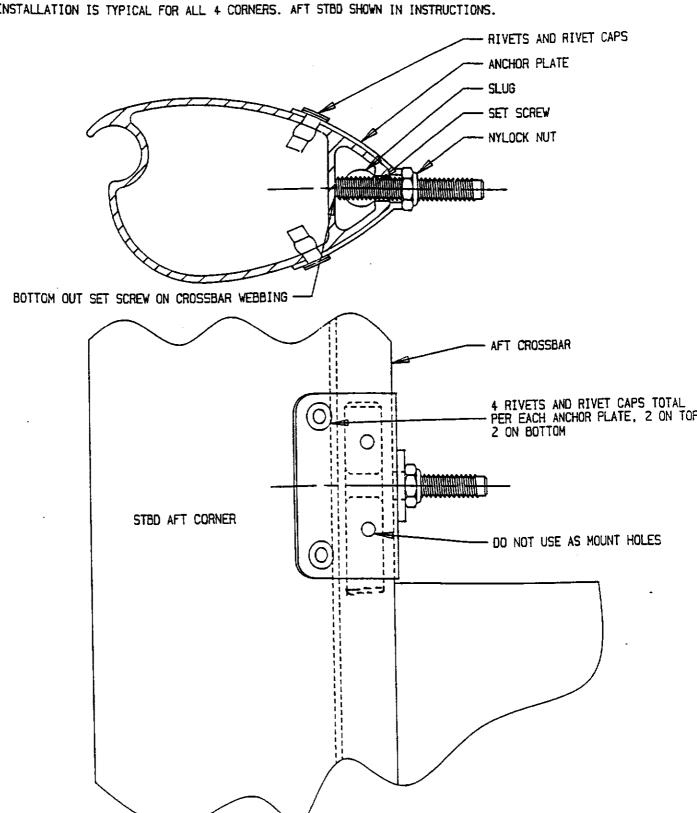
HOBIE CAT WARRANTS THAT THIS PRODUCT IS FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP TO RETAIL CUSTOMERS IN THE UNITED STATES, U.S. POSSESSIONS AND CANADA FOR A PERIOD OF ONE YEAR.



18SX WING ANCHOR PLATE MOUNTING INSTRUCTIONS

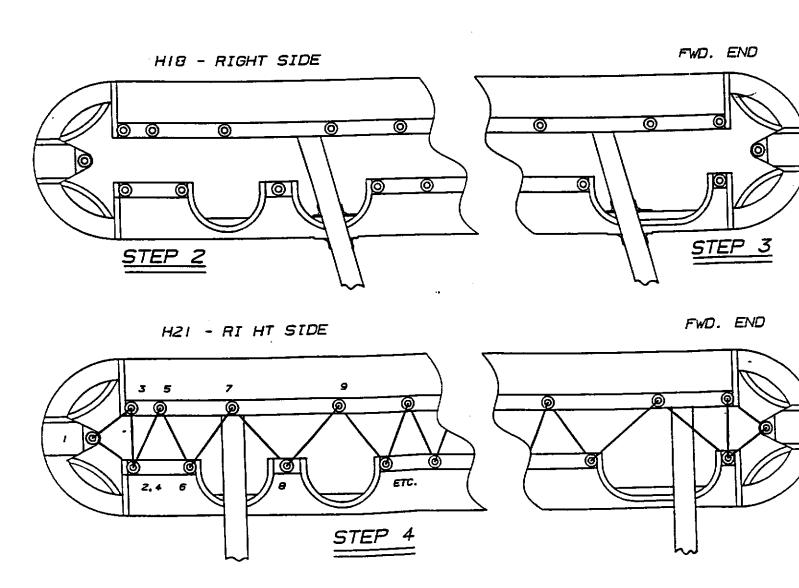
- 1. TIGHTEN SET SCREW AGAINST WEB IN THE CROSSBAR.
- 2. PLACE ANCHOR PLATE OVER SET SCREW, SNUG INTO PLACE WITH NYLOCK NUT.
- 3. USING OUTER MOST HOLES IN PLATE AS A DRILL GUIDE, DRILL OUT MOUNT HOLES WITH A *4 DRILL BIT ON BOTH THE TOP AND BOTTOM SIDES OF THE CROSSBAR.
- 4. INSTALL RIVETS AND RIVET CAPS.

 NOTE INSTALLATION IS TYPICAL FOR ALL 4 CORNERS. AFT STBD SHOWN IN INSTRUCTIONS.



LACING INSTRUCTIONS FOR 18/21 WING TRAMPOLINE 4/6

- !) PLACE TRAMP AS SHOWN, DEPENDING ON WHICH SET OF WINGS YOU HAVE, ONE OF THE CUT OUTS ON THE AFT END WILL NOT BE USED.
- 2) SECURE END OF TRAMP TO WING BY TYING A BOWLINE KNOT TO THE
 END GROMMET THEN WRAPPING TWO LOOPS AROUND THE WING LEG, AND THEN
 TYING OFF THE LINE WITH ANOTHER BOWLINE KNOT.
- 3) SECURE OPPOSITE END IN THE SAME MANNER, BEFORE TIGHTENING TO REMOVE WRINKLES, MAKE SURE TRAMP IS ALLIGNED PROPERLY AND EVENLY PLACED ON SEAT.
- 4) BEGIN MAIN LACING AS NUMBER SEQUENCE INDICATES.
- 5) FOR FINAL TRAMP TENSION, REPEAT STEP 4 AND SECURELY TIE OFF.
- 6) REMOVE LINES USED IN STEP 2 AND 3 IF DESIRED.
 - NOTE -LINE LENGTH FOR STEP 2 AND 3 IS 4° FEET EACH. LINE LENGTH FOR PRIMARY LACING IS 32° FEET EACH.



WING STRUT SUPPORT INSTRUCTION SHEET

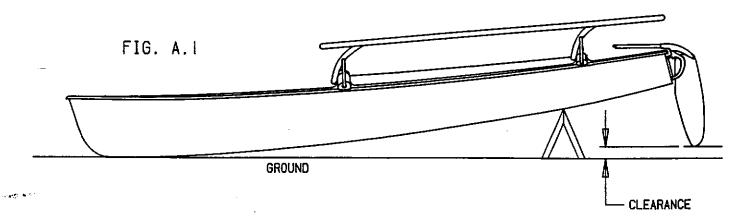
5/6

TOOLS REQUIRED:

- 1. DRILL MOTOR, 1/4" CHUCK
- 2. #4 DRILL BIT
- 3. 3/16" DRILL BIT
- 4. RIVET POPPER
- 5. 3/8" OPEN END WRENCH
- 6. PHILLIPS SCREW DRIVER
- 7. TAPE MEASURE
- 8. 25'-30' OF 3/16" MIN. DIA. LINE
- 9. PENCIL

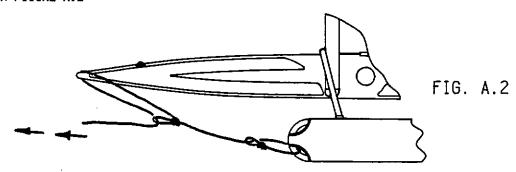
INSTRUCTIONS: NOTE - RUDDERS AND WING MUST BE INSTALLED FOR THIS PROCEDURE

1. PLACE THE BOAT IN A POSITION SO THAT THE RUDDERS WILL HAVE GROUND CLEARANCE IN BOTH THE UP AND DOWN POSITIONS. SEE FIGURE A.1



NOTE - FOLLOWING INSTRUCTIONS ARE FOR INSTALLING PORT SIDE STRUT.

2. TAKE ANY FWD/AFT MOTION OUT OF WING ASSY. BY FOLLOWING INSTRUCTIONS IN FIGURE A.2



PULL LINE TIGHT-PULLING WING FORWARD TO REMOVE PLAY IN WING.

3. DRILL AND MOUNT BRACKET AT GIVEN DIMENSION OF 18 1/4" AS SHOWN IN FIGURE A.3 $\,$

FIG. A.3

