LAKESHORE PRODUCTS

2600# Shallow Water Lift

ASSEMBLY INSTRUCTIONS & MANUAL

BEFORE YOU BEGIN, READ ALL INSTRUCTIONS AND CHECK TO BE SURE THAT YOU HAVE ALL PARTS NEEDED.

IMPORTANT

Inspect your lift often to insure safe operation.
Replace frayed or rusted cable, worn or bent parts immediately!!
Do not operate the lift if any parts are worn or damaged.

This lift is not intended to be used for human transport.
Board the boat only after it is clear of the lift.
Do not play on or around the lift.

WARNING

FAILURE TO FOLLOW THE INSTRUCTIONS AND SAFETY RULES COULD CAUSE SEVERE INJURY OR DEATH!!

LAKESHORE PRODUCTS

TEN YEAR LIMITED WARRANTY

Lakeshore Products, Inc. (Seller) warrants the aluminum structure on docks and lifts of its manufacture to be free from defects caused by faulty material or poor workmanship. Seller will at its option, repair or replace any such goods found on examination by Seller, to be defective under normal use and service within ten years from date of purchase. Upon discovery of any such defect, Buyer must notify Seller in writing of defect and provide proof of purchase. Seller warrants cast aluminum parts, mechanical components and hardware for one year.

Seller shall not be held responsible for repairs or modifications to its docks or lifts unless authorization has been obtained from Seller. This warranty does not cover damage caused by incorrect assembly or adjustments, overloading, improper use, neglected maintenance, alterations or damage caused by accident, ice , saltwater or acts of God.

Components obtained from other manufacturers and used in Sellers products will be covered under the manufacturers warranty and shall not be the responsibility of the Seller.

Sellers responsibility under this warranty shall be the repair or replacement of defective items. Seller is not liable for incidental or consequential damages of any kind.

LAKESHORE PRODUCTS • 855 West Chicago Road • Quincy, Michigan • (517) 639-3815

2600# CAPACITY LIFT
SHALLOW WATER

ASSEMBLY INSTRUCTIONS

1) Identify all parts on parts list and locate on exploded view. Open package of nuts, bolts, and washers and lay them out by size. Compare with list in Accessory Package.

2) See to it you have the necessary tools to assemble your new LAKESHORE LIFT.

2 - 9/16 WRENCHES (FOR 3/8" BOLTS)
2 - 3/4 WRENCHES (FOR 1/2" BOLTS)
1 - TAPE MEASURE
1 - TIN SNIPS TO CUT STEEL BANDING
1 - SMALL STEP LADDER

3) After identifying all individual component parts, stand up the 2 MAINFRAME SIDES on a flat level area. Have someone hold these mainframe sides so they will not fall over and injure someone before step (4) is completed. (The side with the decals should be the winch side!).

4) Bolt the main frame sides together now using the front and rear MAINFRAME SPREADER TUBES. Each corner will need (4) 3/8" x 3 1/2" hex bolts with (4) 3/8" washers and (4) 3/8" nuts. See figure (B).

It is VERY IMPORTANT at this point to follow the following procedure:

a) All bolts must be installed with the nuts on the outside of the lift.

b) After installing all (16) 3/8" bolts at the corners (washers under the nut only), tighten them only to finger tight.

c) Now install (2) 24" angle braces on the front legs as shown. Only tighten the bolts to finger tight level. Use (1) 3/8" X 2 1/2" bolt at bottom of brace and one at the top. (4) 3/8" washers and (4) 3/8" nuts will be used here with the washers under the nuts. At the rear of the lift the braces are installed horizontally between the rear cradle tube and the cradle spreader tube using (2) 3/8" x 2 1/2" and (2) 3/8" x 3 1/2" hex bolts with (4) 3/8" washers and (4) 3/8" nuts. These braces are important to the strength of the lift.

d) Before you use your 9/16" wrenches to tighten the 3/8" bolts, you must measure diagonally across the lift and see to it that your measurements are equal to within 1/4". If you find one diagonal longer than the other, gently push the lift at this corner until diagonal measurements are equal. Be sure you measure from the same points in each direction.

e) Now tighten the bolts on the corners - one at a time - again checking with your tape to see that your lift has stayed square to within 1/4 ".

f) Now tighten the (8) 3/8" nuts used on the angle braces.

5) Install the "H" support units as shown in FIGURE (A). Use the (4) 1/2" x 4" bolts (nuts on the outside of the lift, (1/2" washer under nut) and tighten only until the special lock nut snugs up against the washer and plate.

6) Install the FRONT CRADLE and the REAR CRADLE (the one with the engine stop), with the pulleys toward the front of the lift. Use the (6) 1/2" x 4" bolts with 1/2" washers and lock nuts.

HINT: If you install the two outside bolts first, it will be easier to install the center bolts. Again, only tighten until nut and washer are snug against brackets. DO NOT OVER-TIGHTEN THESE BOLTS as this will bend the angle brackets and prevent the "H" units from rotating to lift boat.

7) Install the two 104 3/4" x 2" x 5" cradle spreader tubes as shown in FIGURE (C) and secure with the (8) 3/8 x 3" bolts, 16 flat washers and 8 nuts. TIGHTEN THESE BOLTS TIGHT!

8) Using the step ladder, mount the winch using (2) 3/8" x 6" bolts and washers (2 per bolt) to the inside of the MAINFRAME TUBE. Install wheel carefully, (Being sure not to cross-thread the wheel on the winch) and secure. Install your 4 red caps at this time over the tops of the MAINFRAME tubes.

9) Now string the 61' of 1/4" cable at this time.

a) Start by laying the cable out in a straight line being very careful not to kink it in any way.

b) Install the looped end into the hole in the back leg of the MAINFRAME side with the winch and place the 1/2" bolt provided through the loop and secure the bolt with a lock nut. BE SURE NOT TO OVERTIGHTEN THIS BOLT! Only tighten the nut until 1/16" of the bolt is through the nut. This will assure that the tube will not be bent during this procedure.

c) Run the cable through the pulley on the rear cradle closest to you, then across the rear of the lift to the other rear cradle pulley. Now string the cable up OVER the internal pulley in the MAINFRAME back leg opposite of where you started.

HINT: Slide end of box end wrench up through hole in back of frame until behind top of pulley. Stick end of cable over pulley and through hole in wrench. Now use wrench to pull cable down behind pulley and out of frame.

Now string down UNDER the pulley on the diagonal brace, then gently push up through the diagonal tube to the internal pulley at the front of the lift. The cable must go OVER the top of this internal pulley and down to the pulley on the front cradle. String across the lift through to front cable pulleys to the opposite front pulley and up to the front of the internal pulley and then to the winch. SEE CABLE RIGGING SHEET.

D) Wrap the cable around the front side of the winch drum and insert the end through the small end of the welded channel and make a loop. Push end of loop back through the channel in the opposite direction. Place the steel wedge in loop of cable and pull into channel to secure cable to drum. Take up the slack cable by turning the wheel clockwise.

NOW IT IS TIME TO ENJOY!!!

SPECIAL NOTES:

1. A second safety decal is provided in the accessories box. If when you assembled the lift the decal is not easily seen, then install this extra decal so anyone using the lift can read the VERY IMPORTANT safety rules!

2. After moving the lift into the water, be sure to LEVEL the lift. This is accomplished by using the adjustable legs and is critical to the lift's operation.

3. Ideally your lift should be operated in about 18" to 30" of water leaving approximately 5' of post out of the water. This may vary due to water level and boat size.

4. If after fully assembling the lift you discover that your winch should have been set up on the opposite side DON'T PANIC!! Follow the following steps:

a) Remove the cable completely from the lift.

b) In order to move the winch to the opposite side of the lift, the body of the winch needs to be rotated 180 degrees with respect to the mounting plate. (The mounting plate is the part of the winch that the 6" bolts go through to hold the winch to the lift.)
This mounting plate is attached to the winch body with (4) carriage bolts. Remove the (4) carriage bolts and pull the winch body out of the mounting plate and rotate 180 degrees and put the opposite side back in lining up the holes in the side plates with the holes in the back plate. Replace the (4) carriage bolts. NOTICE 1 of the 2 mounting holes in the back plate is slotted. Be sure the slotted hole is at the top and the winch drum is down. Replace the cover and your winch is now reversed and ready to use on the opposite side of your lift.

c) Now exchange the cable end bolt and bushings for the bolt, bushings, and bearing pulley at the rear of the lift. DO NOT DROP ANY OF THESE PARTS INTO THE TUBE!. Stuff a rag or tape over the hole in the tube to keep any parts that may be dropped from falling into the tube.

d) Now move the bolt, bushings and bronze sleeve pulley in the diagonal tube to the opposite frame and reinstall the cable as in step #9.

5. Always be sure that all pulleys are turning freely and inspect the cable to be sure it has no worn or frayed ends. Replace the cable at once if either of these conditions are present.

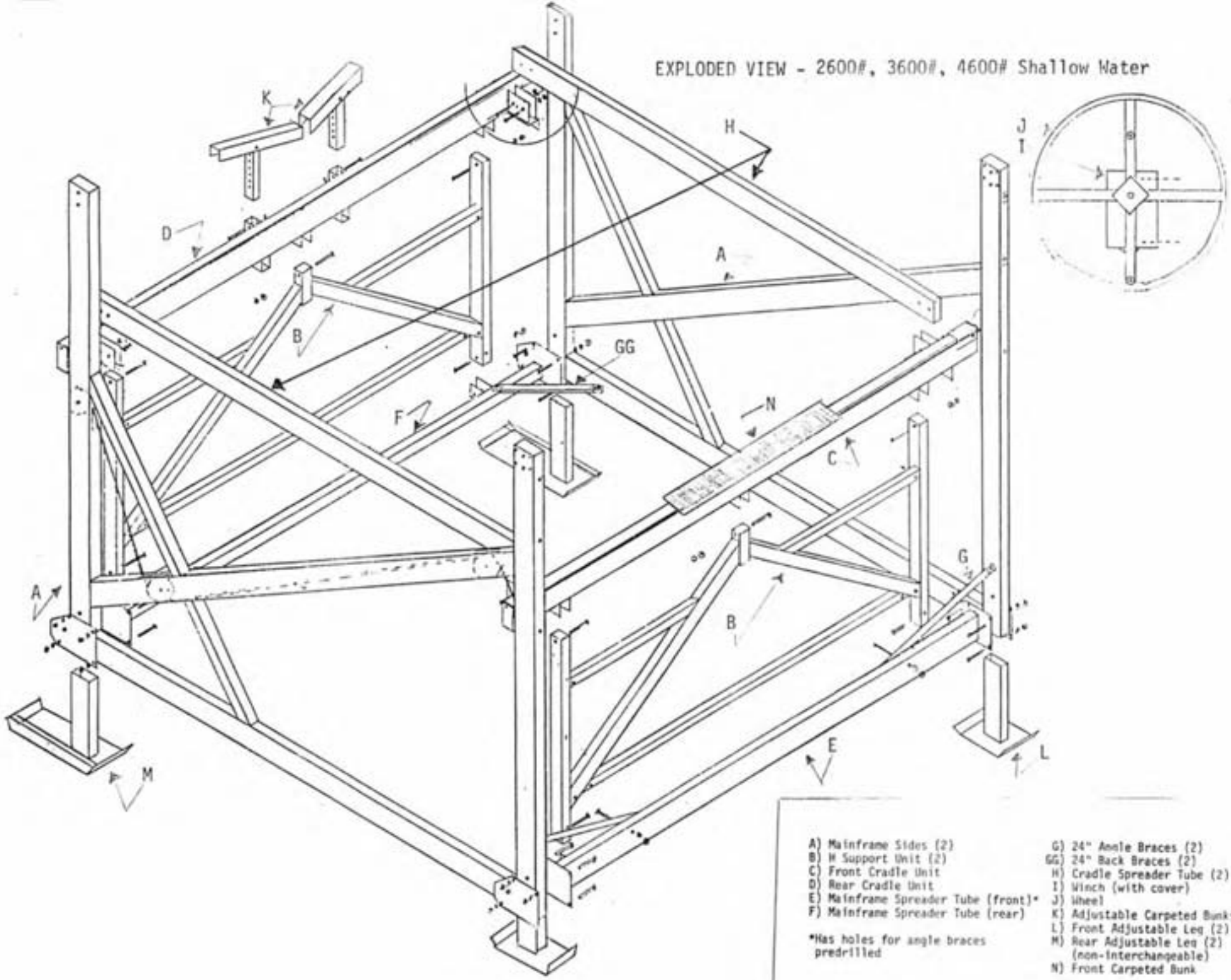
CAUTION!!!

Do not over-tighten bolts & nuts on your lift. The over-tightening of bolts may severely damage the structural integrity of your lift. When tightening a regular nut against an aluminum tube, tighten until the surface of the tube dimples slightly (1/8"). All lock nuts should be tightened until at least one to one and a half treads of the bolt are showing thru the nut. If you crush the tube, it can crack and under pressure the crack can extend and cause the tube to fail.

2600# SHALLOW WATER BOAT LIFT PART NUMBERS

Part#	Qty	Description
301	1	MAINFRAME SIDE (3 - #F100 installed)
302	1	MAINFRAME SIDE (1 - #F100 & H100 installed)
303	1	FRONT CRADLE UNIT
304	1	REAR CRADLE UNIT
305	1	MAINFRAME SPREADER TUBE (FRONT)
306	1	MAINFRAME SPREADER TUBE (REAR)
307	2	CRADLE SPREADER TUBE
308	2	H-SUPPORT UNIT
A100	1	WINCH - COMPLETE
B100	2	ADJUSTABLE 18" CARPETED CRADLE
B110	1	35" CARPETED BUNK
C100	1	41" WHEEL COMPLETE
D100	2	ADJUSTABLE 36" FRONT LEG
D110L	1	ADJUSTABLE 36" LG REAR LEG (LEFT)
D110R	1	ADJUSTABLE 36" LG REAR LEG (RIGHT)
E100	1	61' X 1/4" CABLE ASSEMBLY
F110	4	INTERNAL BRONZE BUSHING PULLEY ASSEMBLY
G100	4	EXTERNAL PULLEY ASSEMBLY
H100	1	CABLE DEAD END BOLT ASSEMBLY
J110	2	24" ANGLE BRACE (LEFT)
J111	2	24" ANGLE BRACE (RIGHT)
Z101	4	PLASTISOL RED CAP
Z110	1	YELLOW WARNING LABEL
X516H	10	1/2" X 4" S.S. HEX BOLT
X552	10	1/2" S.S. FLAT WASHER
X551	10	1/2" S.S. NYLON LOCK NUT
X410H	6	3/8 X 2 1/2" S.S. HEX BOLT
X412H	8	3/8" X 3" S.S. HEX BOLT
X414H	18	3/8" X 3 1/2" S.S. HEX BOLT
X424H	2	3/8" X 6" S.S. HEX BOLT
X450	34	3/8" S.S. HEX BOLT
X452	44	3/8" S.S. FLAT WASHER

EXPLODED VIEW - 2600#, 3600#, 4600# Shallow Water

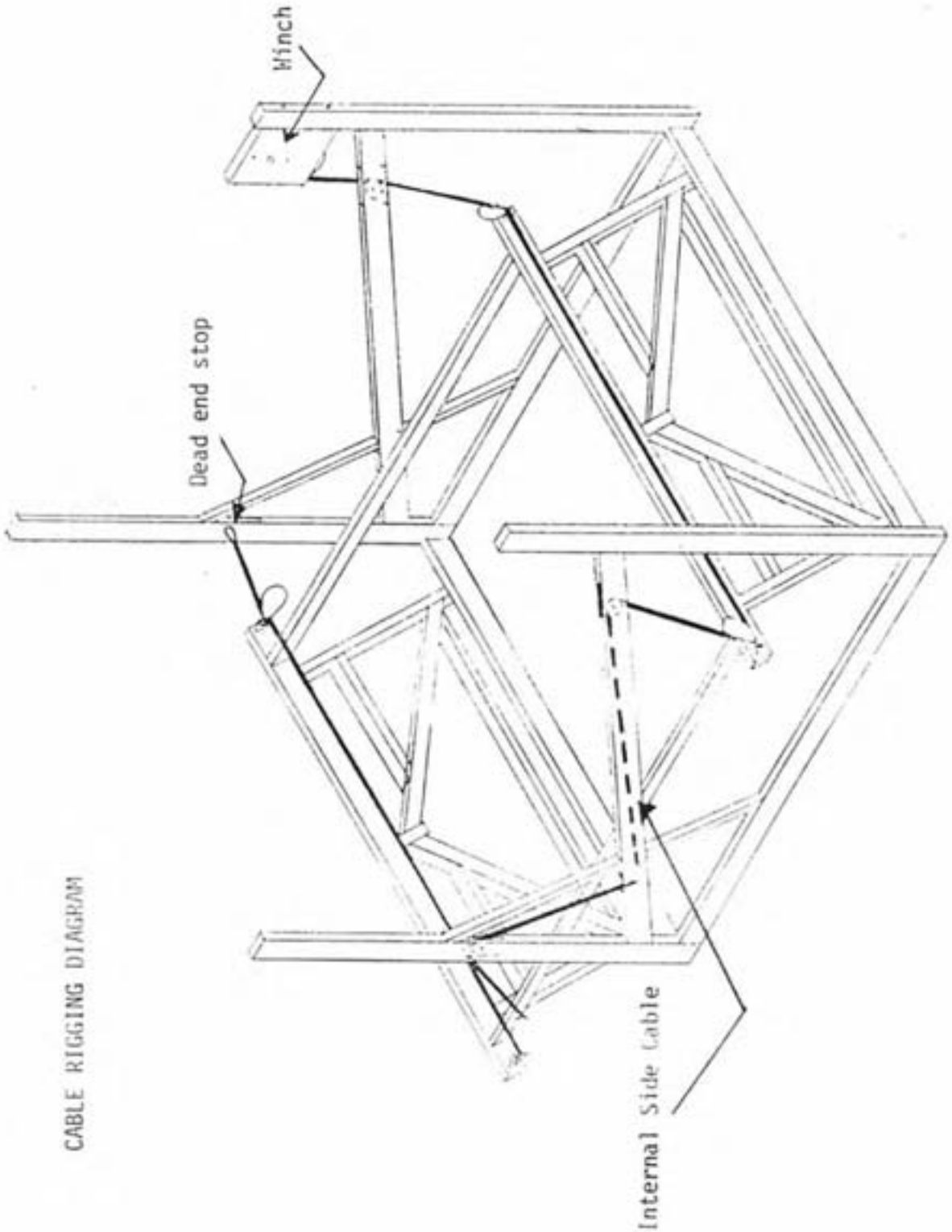


A) Mainframe Sides (2)
B) H Support Unit (2)
C) Front Cradle Unit
D) Rear Cradle Unit
E) Mainframe Spreader Tube (front)*
F) Mainframe Spreader Tube (rear)

*Has holes for angle braces predrilled

G) 24" Angle Braces (2)
GG) 24" Back Braces (2)
H) Cradle Spreader Tube (2)
I) Winch (with cover)
J) Wheel
K) Adjustable Carpeted Bunks
L) Front Adjustable Leg (2)
M) Rear Adjustable Leg (2) (non-interchangeable)
N) Front Carpeted Bunk

CABLE RIGGING DIAGRAM



CABLE RIGGING DIAGRAM

FIGURE A

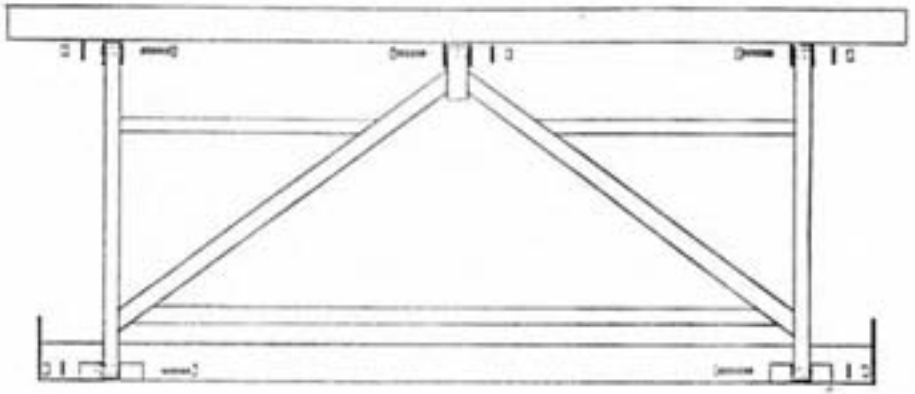


FIGURE B

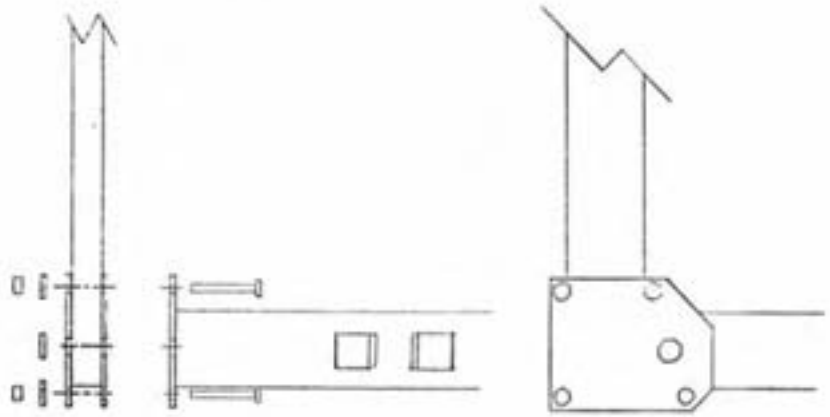
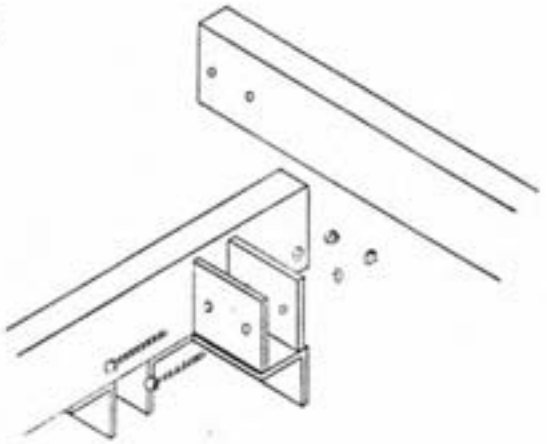
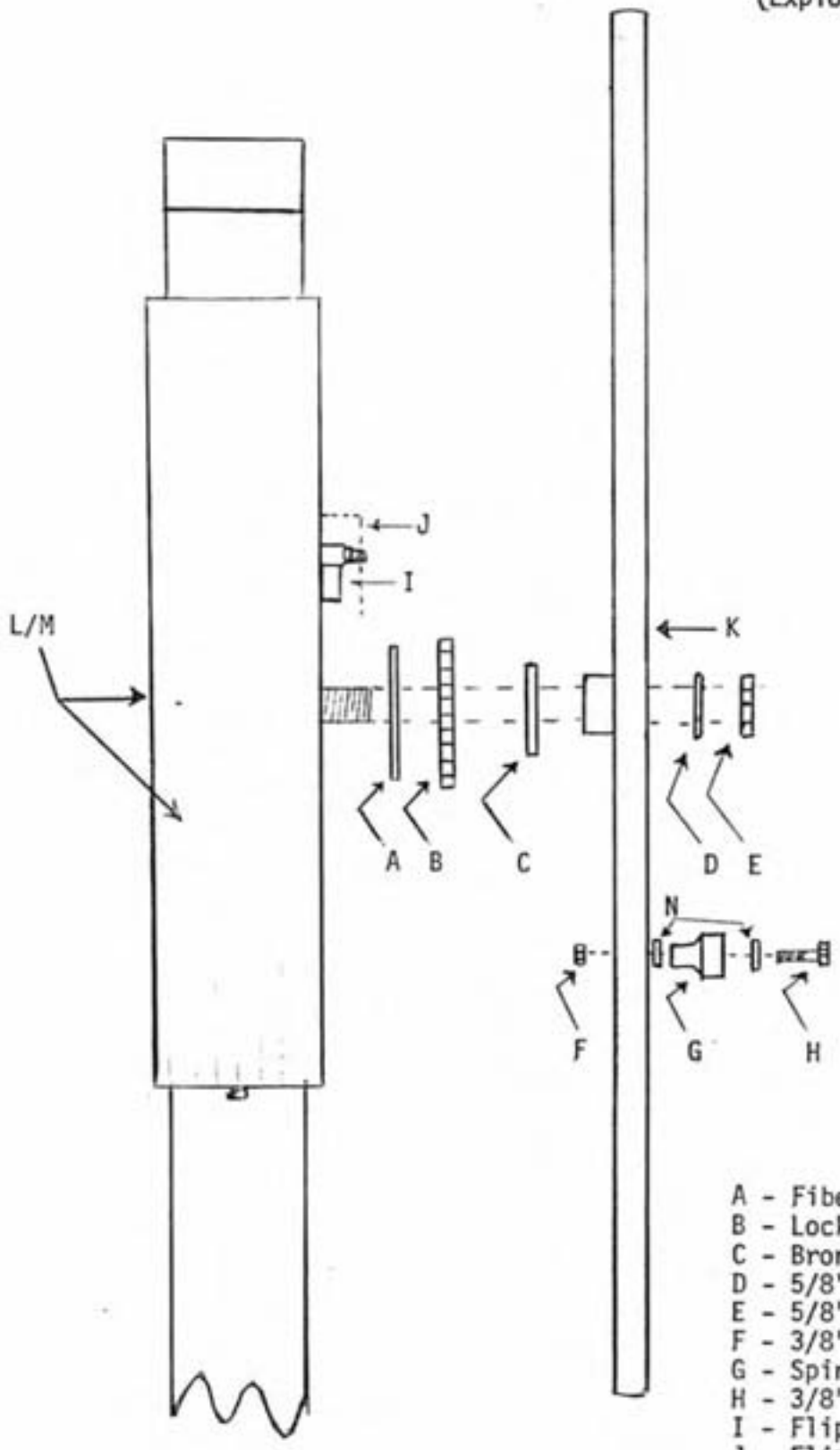


FIGURE C



LAKESHORE WHEEL ASSEMBLY
(Exploded View)



A - Fiber Brake Pad
B - Locking Sprocket
C - Bronze Thrust Washer
D - 5/8" S.S. Flat Washer
E - 5/8" Jam Nut
F - 3/8" S.S. Hex Nut
G - Spinner Knob
H - 3/8" x 3 1/2" Hex Bolt
I - Flipper Sprocket Lock
J - Flipper Stop Cover
K - 41" Wheel
L/M - Winch / Winch Cover
N - 3/8" S.S. Flat Washer