LUNMAR INSTALLATION GUIDE
3000 SL & CL / 4000 SL & CL / 6000 SL & CL
STEEL MOUNT
READ ALL INSTRUCTIONS BEFORE STARTING

THE LUNMAR 3000, 4000, AND 6000 BASIC INSTALLATION ARE THE SAME. THE 3000 AND 4000 WORK BASED ON A SINGLE LINE PULL AND THE 6000 WORKS BASED ON A DOUBLE LINE PULL. THE OVERHEAD INSTALLATION OF THESE KITS ARE THE SAME EXCEPT ON THE 3000 AND 4000 THE CABLE CONNECTS DIRECTLY TO THE SLING OR CRADLE BEAM AND ON THE 6000 IT PASSES THROUGH A PULLEY AND THEN BACK UP TO DEADMAN OFF ON AN OVERHEAD BEAM. LUNMAR KITS ARE DESIGNED FOR A 2" SCHEDULE 40 GALVANISED PIPE TO RUN OFF TO ONE SIDE AND PARALLEL TO THE BOAT WHICH IS SUSPENDED FROM THE OVERHEAD STEEL BEAMS WHICH RUN PERPENDICULAR TO THE BOAT BY STRAP BEARINGS AND BEARING BRACKETS. THE BEAMS WHICH THE KIT ATTACH TO ARE USUALLY 10' TO 12' APART DEPENDING ON LENGTH OF BOAT AND THE DISTANCE BETWEEN THE STRAP BEARING AND THE 560 PULLEYS ARE 10' IF THE BOAT IS 8 1/2' WIDE.

FOLLOW THESE STEPS FIRST:

1) THE STANDARD LUNMAR KIT REQUIRES TWO WOOD OR STEEL BEAMS RUNNING PARALLEL TO THE BOAT.
2) PULL THE BOAT INTO THE BOAT SLIP.
3) THE AFT STEEL BEAM SHOULD BE LOCATED 1' TO 2' FROM TRANSOM.
4) THE NEXT BEAM SHOULD BE LOCATED ABOVE THE BOAT WHERE YOU WOULD WANT THE FRONT SLING TO HIT THE BOAT. USUALLY 10' TO 12'.

CHECK BOXES FOR ALL PARTS BEFORE FREIGHT COMPANY LEAVES!!!

THIS KIT IS A <u>BOATLIFT</u> AND IS INTENDED TO BE USED AS ONLY A BOATLIFT. DO NOT USE THIS LIFT TO PICK UP HUMANS.

DO NOT WORK UNDER A HANGING BOAT!!!!!!!

ALL ELECTRICAL MODIFICATIONS MUST BE DONE BY A CERTIFIED ELECTRICIAN!!!!!

PARTS LISTS
(STEEL MOUNT KITS)

LUNMAR 3000 SLING KIT (STEEL MOUNT)
1-3/4 MOTOR/SWITCH/GFI
1-AMS 3000 GEARPLATE
2-102G STRAP BEARINGS
2--12" TORQUE PIPES
1-80' 1/4" GALV CABLE
2-560 PULLEYS
4-1/2 X 1 1/2 BOLTS/NUTS/LOCKS/WASHERS
8-1/4" CABLE CLAMPS
2-4 X 14 NYLON SLINGS 8400# CAPACITY
2-5"@10#X13' GALVANIZED OVERHEAD STEEL BEAMS
2-1/2" X 14" BOLTS/NUTS/LOCKS/FLATS

LUNMAR 4000 SLING KIT (STEEL MOUNT)
ALL THE PARTS IN THE 3000 SLING KIT
EXCEPT THE MOTOR IS 1HP INSTEAD OF 3/4

LUNMAR 6000 SLING KIT (STEEL MOUNT)
ALL THE PARTS IN THE 3000 SLING KIT
PLUS: 4--560 PULLEYS
1--120' 1/4" GALV CABLE

ADDITIONAL PARTS REQUIRED
1--2" SCHEDULE 40 GALVANISED PIPE (21')

LUNMAR 3000 CRADLE KIT (STEEL MOUNT)
1-3/4 MOTOR/SWITCH/GFI
1-AMS 3000 GEARPLATE
2-102G STRAP BEARINGS
2-12" TORQUE PIPES
1-80' 1/4" GALV CABLE
2-560 PULLEYS
4-1/2 X 1 1/2 BOLTS/NUTS/LOCKS/WASHERS
8-1/4" CABLE CLAMPS
2-9' CRADLE BEAMS
4-RIGHT HAND CHOCK BRACKETS
4-LEFT HAND CHOCK BRACKETS
8-1/2" X 4 1/2" GALVANIZED BOLTS/LOCKS/NUTS/FLATS
8-1/2" X 4" GALVANIZED CARRIAGE BOLTS/LOCKS/NUTS
2-1/2" X 14" GALVANIZED BOLTS/NUTS/LOCKS/FLATS
2-5"@10#X13' GALVANIZED OVERHEAD STEEL BEAMS

LUNMAR 4000 CRADLE KIT (STEEL MOUNT)
ALL THE PARTS IN THE 3000 CRADLE KIT
EXCEPT THE MOTOR IS 1HP INSTEAD OF 3/4

LUNMAR 6000 CRADLE KIT (STEEL MOUNT)
ALL THE PARTS IN THE 3000 CRADLE KIT
PLUS: 4--560 PULLEYS
1--140' 1/4" GALV CABLE

ADDITIONAL PARTS REQUIRED
1--2" SCHEDULE 40 GALVANISED PIPE (21')
2--BUNK BOARDS (2 X 10 X 14 ROUGH CUT TREATED OR DOUBLED 2 X 10 X 14)

OPTIONAL PARTS AVAILABLE
HOIST COVERS-----WEIGHTED SLINGS-----CABLE WEIGHTS-----REMOTES
STAINLESS STEEL CABLE-----GALV GEAR PLATES-----6"/8"/10" SLINGS

TOOLS REQUIRED FOR INSTALLATION:
ELECTRIC DRILL-----1/2 WOOD BITS-----1/2 STEEL BIT-----5/16 STEEL BITS
HAMMER-----WRENCHES-----SCREW DRIVERS-----LEVEL-----ROPE-----PENCIL

FOLLOW THESE STEPS IN ORDER TO SAVE TIME!!!!!

1) CONNECT THE 102G STRAP BEARING TO THE OVERHEAD STEEL BEAM USING THE SUPPLIED 1/2 X 1 1/2 BOLTS/NUTS/LOCKS/WASHERS.

2) SET OVERHEAD STEEL BEAMS INTO PLACE 10' APART OVER LIFT POINTS.

3) SLIDE PIPE INTO STRAP BEARINGS.

4) THE PIPE SHOULD BE RUNNING PARALLEL WITH BOAT AND OVER TO ONE SIDE. THE PIPE SHOULD BE AS CLOSE TO THE EDGE OF DOCK AS POSSIBLE TO MAKE IT EASIER TO GET IN AND OUT OF BOAT.

5) MOUNT 560 TO TAB ON OVERHEAD STEEL BEAM ACROSS FROM 102G.

6) DRILL 5/16 HOLE THROUGH PIPE IN CENTER OF EACH OF 102 ASSEMBLIES.

7) INSTALL MOTOR ON GEARPLATE AND TIGHTEN BELT.

8) HANG GEARBOX ON PIPE AND BOLT TO BEAM USING TORQUE PIPES.

9) MARK HOLE ON GEARPLATE AND DRILL 1/2 HOLE THROUGH PIPE AND BOLT UP.

SKIP TO 11 IF INSTALLING A 6000# KIT.

10) RUN CABLE THROUGH PIPE AND OVER TO PULLEY ATTACHING LOOSE ENDS TO SLINGS (OR CRADLE BEAM) WITH THE PROVIDED CLAMPS. *GO TO 15.*

11) RUN CABLE THROUGH PIPE OVER TO 560 PULLEY DOWN TO 560 PULLEY AND DEADMAN OFF ON OVERHEAD BEAM.

12) ATTACH PULLEY TO SLING OR CRADLE BY REMOVING BOLT ON PULLEY.

13) YOU CAN LEVEL THE SLING OR CRADLE BEAM BY PULLING DOWN ON CABLE.

14) ONCE LEVEL TURN ON WINCH. ONCE TWO WRAPS ARE MADE ON TO PIPE THE CABLE IS LOCKED INTO POSITION AND WILL NOT MOVE.

15) MAKE SURE CABLES WRAP OPPOSING EACH OTHER WITHOUT STACKING (STACKING CABLES WILL REDUCE THE LIFE OF THE CABLES).

16) GREASE GEARBOX AT THE THREE ZERTS AND SPREAD A LIBERAL AMOUNT OF GREASE ON FLYWHEEL. APPLY SMALL AMOUNT OF GREASE ON THE 102'S TO ELIMINATE SQUEALING.

IF YOU ARE INSTALLING A SLING KIT YOU ARE FINISHED.

FINAL CRADLE INSTALLATION

17) **PONTOON APPLICATION** -- LAY BUNK BOARDS FLAT ON CRADLE BEAMS SO PONTOONS WILL LINE UP. DRILL 3/8 THROUGH BUNK BOARD AND CRADLE BEAM AND BOLT UP BOARD.

V-BOTTOM FOR FLAT BOTTOM BOAT APPLICATION -- ASSEMBLE CHOCK BRACKETS AS SHOWN IN DIAGRAM AND CONNECT TO CRADLE BEAM. THE BUNK BOARDS SHOULD BE ANGLED TO CONFORM TO THE BOTTOM OF THE BOAT. ON AN 8 1/2 BOAT THE AFT CHOCK BRACKETS SHOULD BE ABOUT 60" APART AND THE FORWARD CHOCK BRACKETS SHOULD BE ABOUT 56" APART. ON FLAT BOTTOM BOAT STAND THE BOARDS SO THAT THEY ARE 90 DEGREES TO THE BUNK BOARDS.

18) IF YOU PURCHASED THE OPTIONAL CABLE GUIDE POSTS CONNECT BETWEEN THE CRADLE AND THE 560 PULLEYS.

TROUBLESHOOTING

LIFT WILL NOT PICK UP BOAT

1) BOAT WEIGHS MORE THAN LIFT CAPACITY
2) LOW VOLTAGE
3) BELT SLIPPING
4) GEARPLATE OR PIPE BINDING DUE TO IMPROPER ALIGNMENT

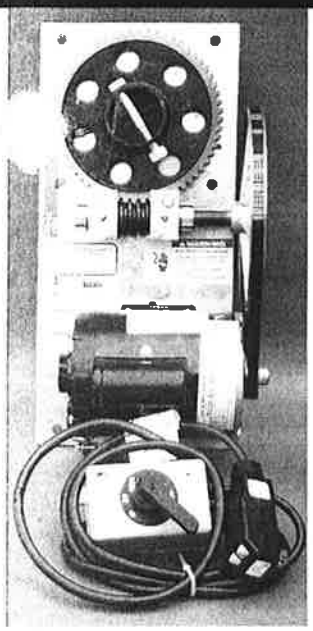
LIFT MAKING EXCESSIVE NOISE

1) NEEDS TO BE GREASED
2) PIPE OR GEARBOX OUT OF ALIGNMENT
3) CABLES RUBBING AGAINST 102 ASSEMBLIES

CABLES BACKLASHING

1) ADD CABLE WEIGHTS TO PULLEYS
2) UPGRADE TO WEIGHTED SLINGS
3) CABLES RUBBING AGAINST 102 ASSEMBLY

SPECIFICATIONS AND FEATURES



Capacity:
2000 lbs

Motor:
3/4 H.P. 120 V
ODP

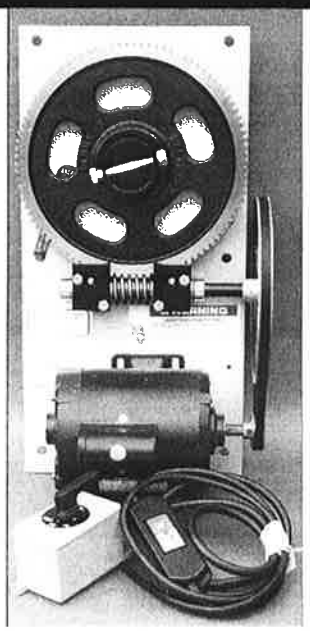
Wiring:
Gauge
atherproof

Plate:
1/4" Steel
9.5" x 19.5"
galvanized

Gear:
8" Cast 60 Tooth
Precision
machined

Hoist Speed:
4.0 Vertical
feet per min.

Shipping Wgt:
48 Pounds
UPS Shipping



Capacity:
3000 lbs &
4000 lbs

Motor:
3/4 H.P.
120/240 V
ODP, TENV,
TEFC, & 12 V DC

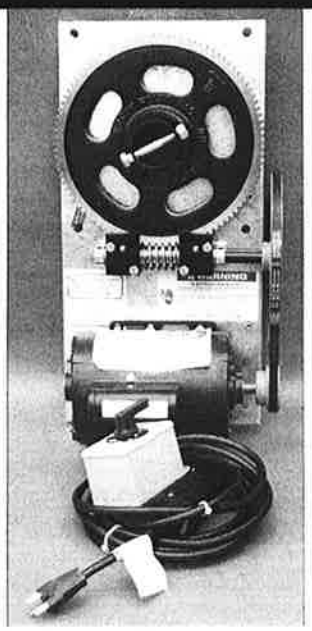
Wiring:
14 Gauge
weatherproof

Plate:
1/4" Steel
12" x 24" Baked
on powder coat
Available option -
stainless &
galvanized

Gear:
12" Cast
Precision
machined

Hoist Speed:
2.5 Vertical
feet per min.
Faster speeds
available

Shipping Wgt:
78 Pounds
UPS Shipping



Capacity:
6500 lbs

Motor:
1 H.P.
120/240 V
TENV, TEFC

Wiring:
14 Gauge
weatherproof

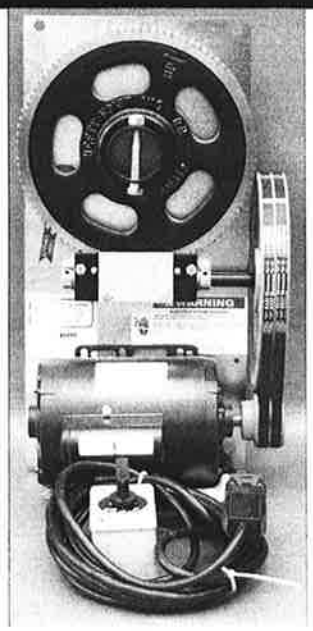
Plate:
1/4" Steel
12" x 24" Baked
on powder coat
Available option -
stainless &
galvanized

Gear:
12" Heavy duty
cast - Precision
machined

Hoist Speed:
3.0 Vertical
feet per min.
Faster speeds
available

Shipping Wgt:
100 Pounds
UPS Shipping

Pulleys:
Steel pulleys



Capacity:
8500 lbs
Std with twin belt

Motor:
1.5 H.P.
120/240 V
TEFC

Wiring:
12 Gauge
weatherproof

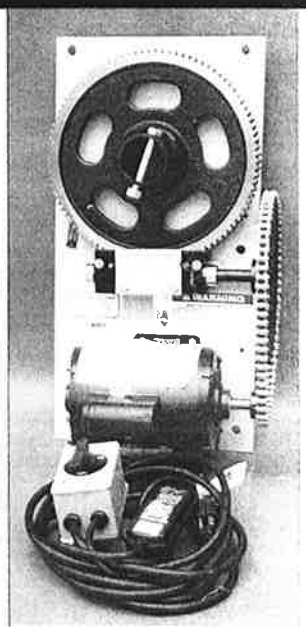
Plate:
1/4" Steel
12" x 24" Baked
on powder coat
Available option -
stainless &
galvanized

Gear:
12" Heavy duty
cast - Precision
machined

Hoist Speed:
2.8 Vertical
feet per min.
Faster speeds
available

Shipping Wgt:
110 Pounds
UPS Shipping

Pulleys:
Steel dual pulleys



Stainless Steel Chain & Sprocket:

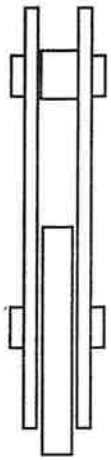
Available:
On all models

Hoist Speed:
Same as listed
with belt & pulleys

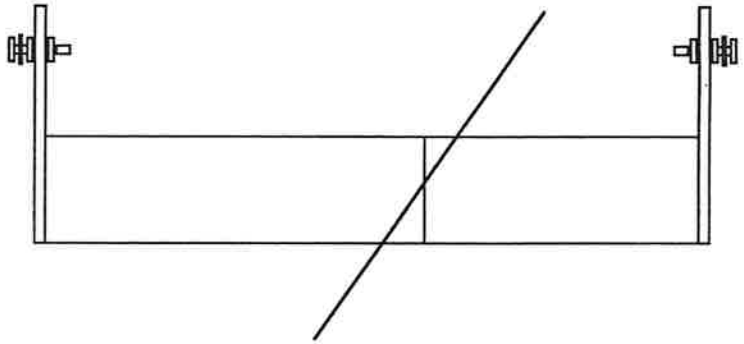
LUNMAR BOAT LIFTS
337-430-0533

6000 CRADLE KIT

560S PULLEY

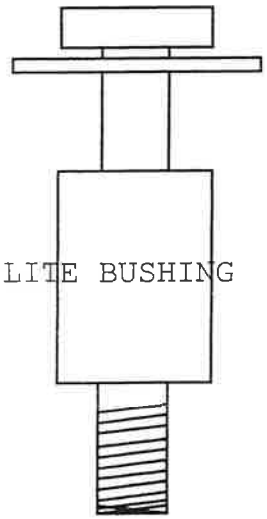


REMOVE BOLT AND OILITE BUSHING TO ATTACH TO SLING OR CRADLE



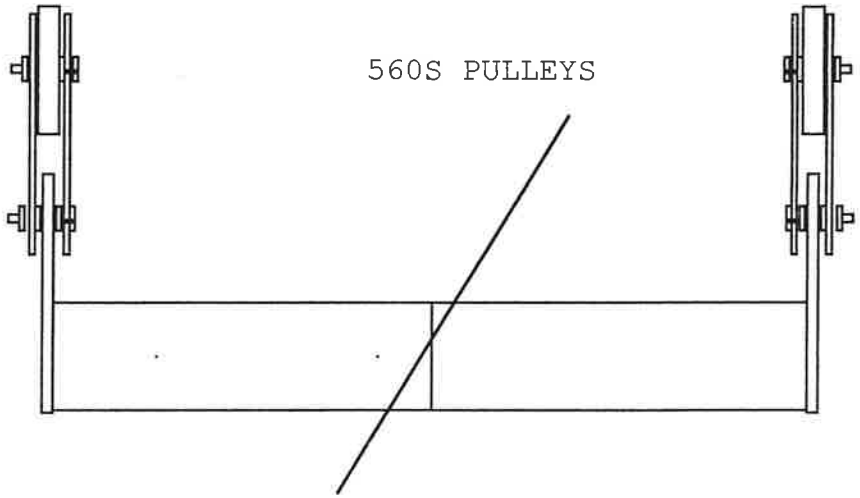
BUSHING MUST BE PRESSED INTO 7/8 HOPES ON PAD EYES OF CRADLE BEAMS.

1) INSERT BOLT/WASHER INTO OILITE BUSHING AS SHOWN LEFT



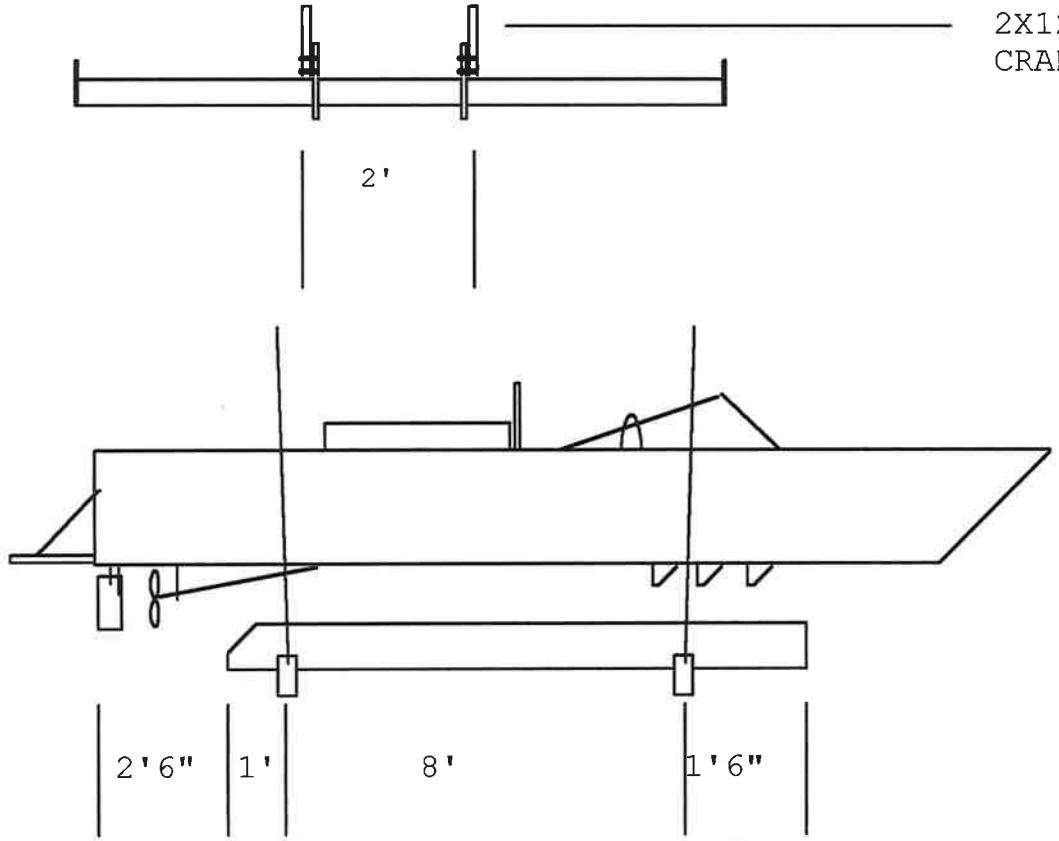
OILITE BUSHING

560S PULLEYS



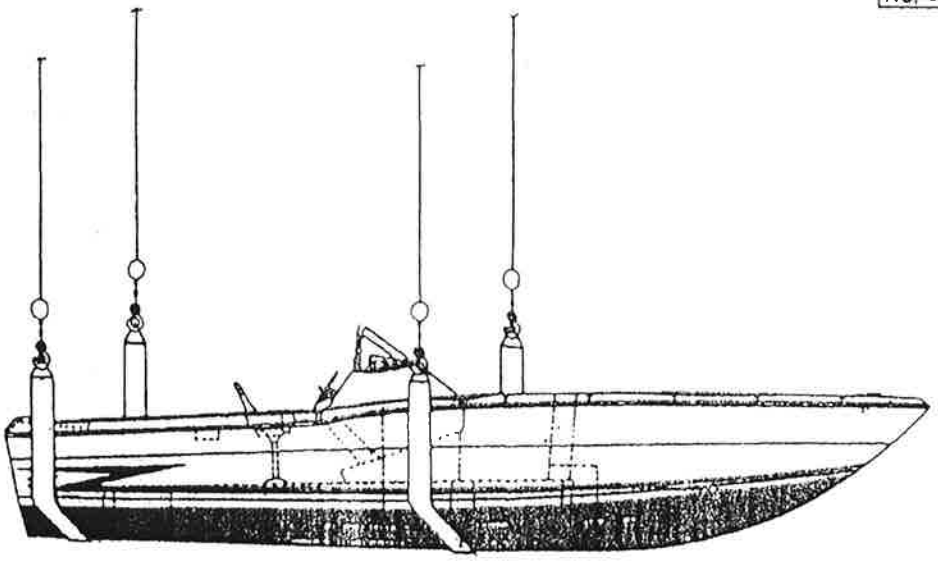
2) WITH A HAMMER DRIVE BUSHING HALF WAY INTO PAD EYE BY STRIKING BOLT HEAD AS SHOWN RIGHT

LUNMAR 3000, 4000, & 6000 CL
BEAM LAYOUT FOR COMPETITION INBOARD SKI BOATS WITH CENTER ENGINES



LUNMAR BOAT LIFTS
3715 HWY 27 SOUTH
SULPHUR LA 70665
337-558-7200
337-558-7202 (FAX)

NO. I-502



FOR OPTIMUM PERFORMANCE:

EQUAL WEIGHT DISTRIBUTION
IS REQUIRED ON ALL 4 CABLES.

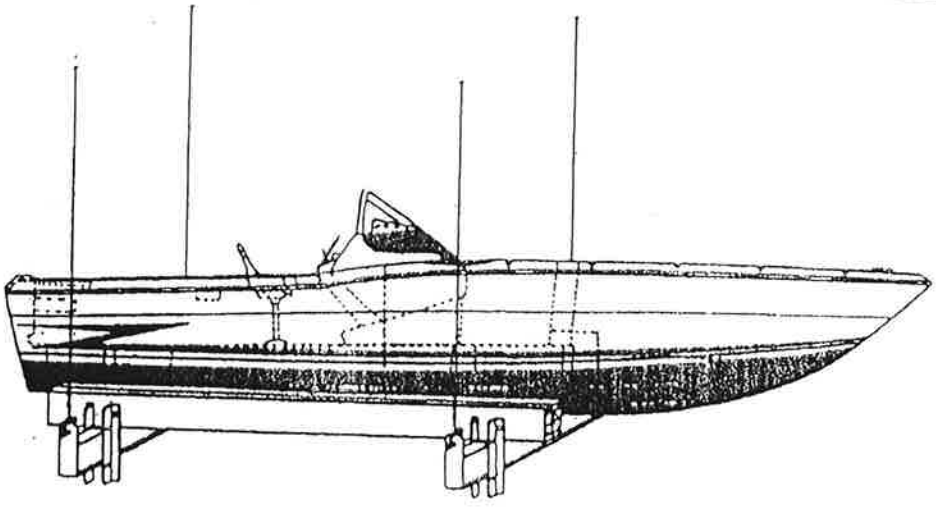
4-POINT SLING HOIST

TO OBTAIN EQUAL WEIGHT DISTRIBUTION:

1. USE BALANCE POINT OF BOAT.
2. DO NOT USE CENTER OF BOAT LENGTH.

INSTRUCTIONS FOR WEIGHT DISTRIBUTION
SCALE NONE
NO. I-502

NO. I-503



FOR OPTIMUM PERFORMANCE:

EQUAL WEIGHT DISTRIBUTION
IS REQUIRED ON ALL 4 CABLES.

4-POINT CRADLE HOIST

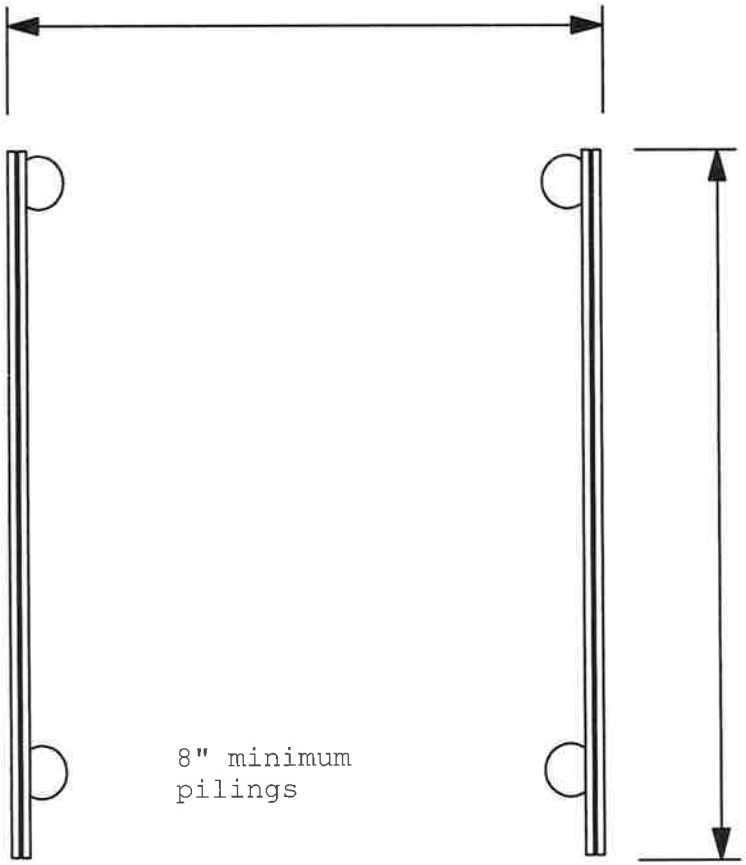
TO OBTAIN EQUAL WEIGHT DISTRIBUTION:

1. USE BALANCE POINT OF BOAT.
2. DO NOT USE CENTER OF BOAT LENGTH

INSTRUCTIONS FOR WEIGHT DISTRIBUTION
SCALE NONE
NO. I-503

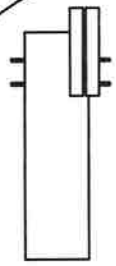
PILING LOCATION FOR ALL LUNMAR STEEL MOUNTS LIFT WITH 13' OVERHEAD BEAMS

distance from outside edge of doubled 2x12 must be between 12'6" and 13' or a custom overhead beam will need to be fabricated



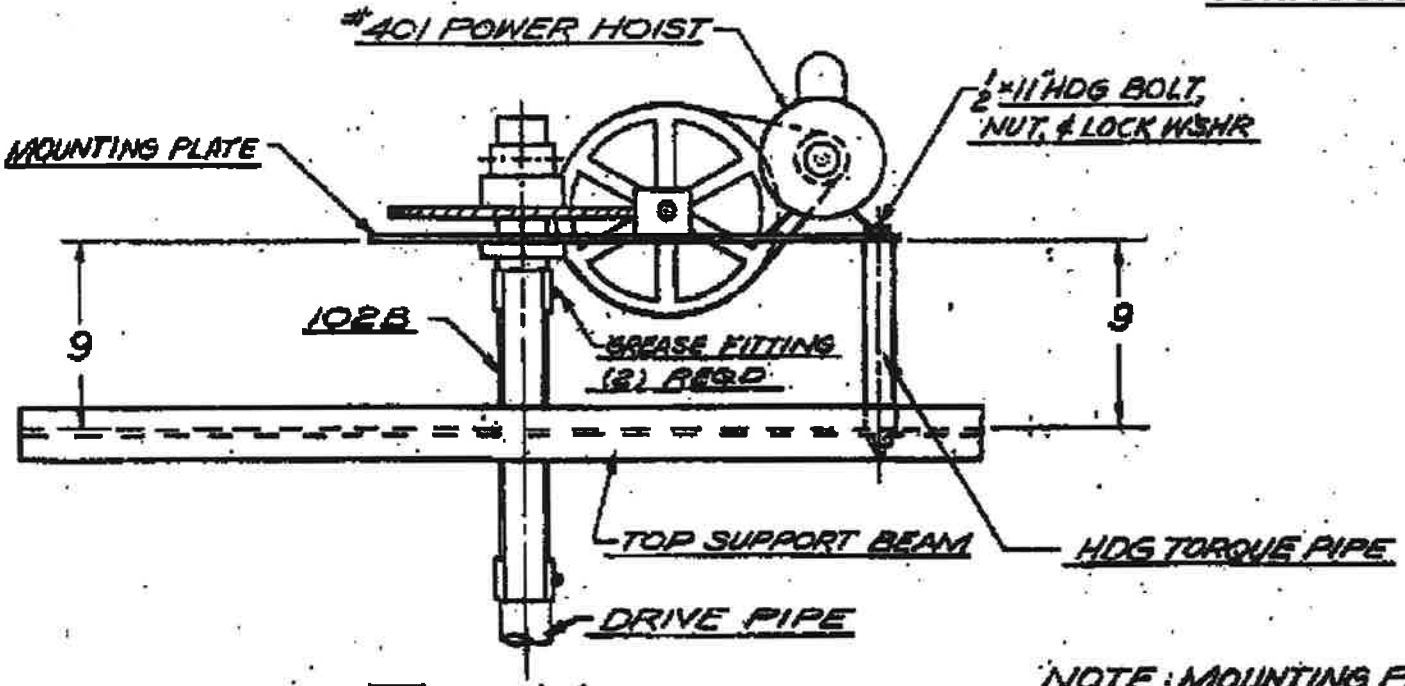
distance from front piling to rear piling can be anywhere from 11' to 13' feet

8" minimum pilings



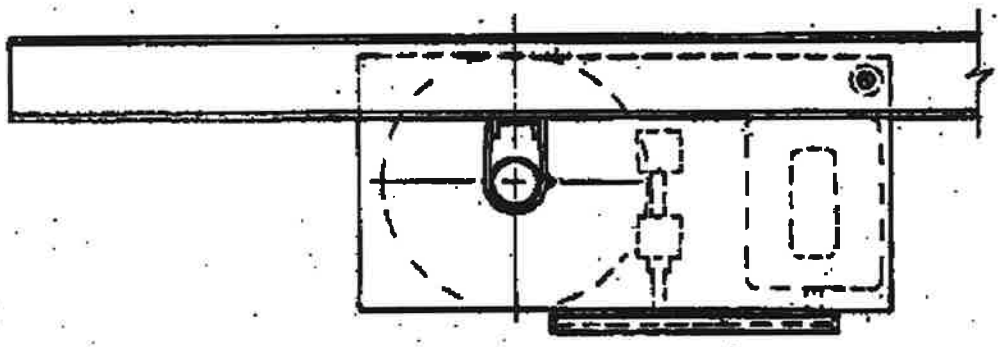
notch pilings so timbers rest on piling. Recommend bolting with 2 5/8 bolts for each piling

OPTIONAL TORQUE PIPE CONFIGURATION



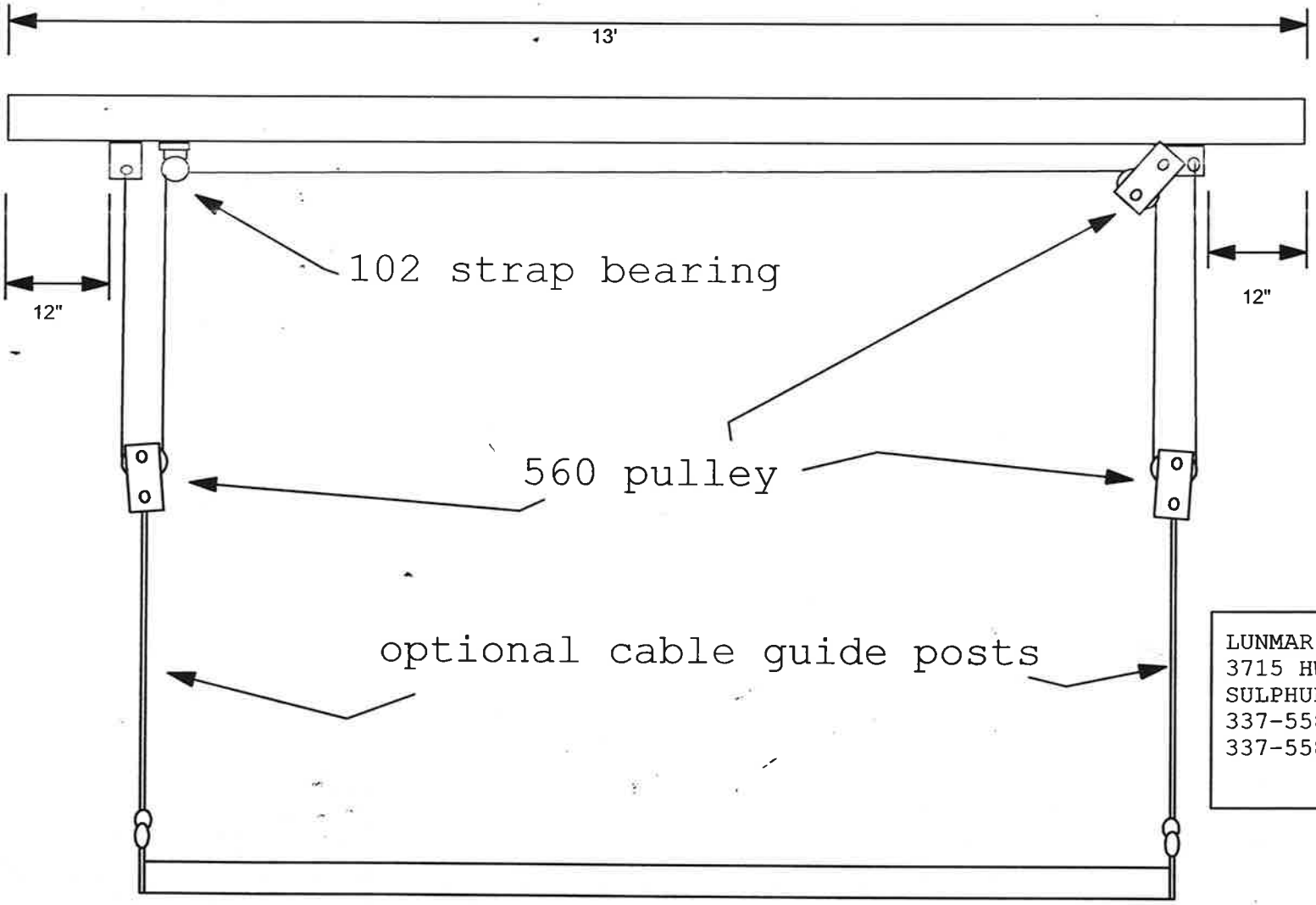
TOP VIEW

NOTE: MOUNTING PLATE MUST BE 90° TO DRIVE PIPE IN BOTH HORIZ. & VERTICAL PLANES.



FRONT VIEW

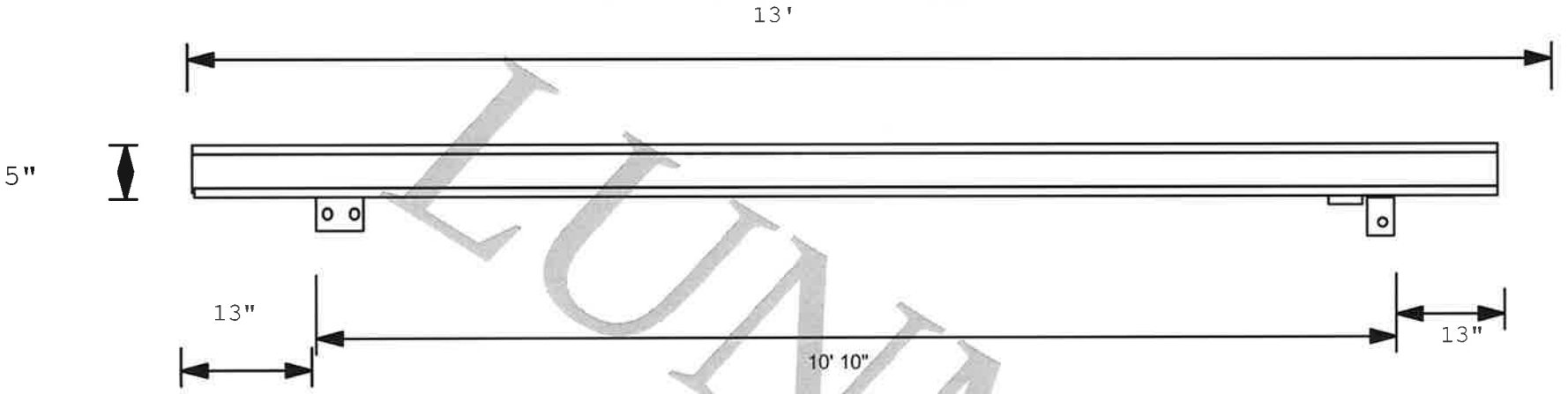
Lunmar 6000 steel mount kit cable layout



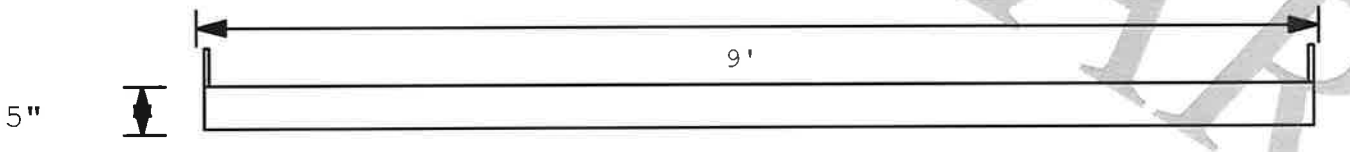
LUNMAR BOAT LIFTS
3715 HWY 27 SOUTH
SULPHUR LA 70665
337-558-7200
337-558-7202 (FAX)

Lunmar Boatlifts Standard Steel mount beam dimensions (custom beam sizes available)

overhead beams



cradle beams



LUNMAR BOAT LIFTS
3715 HWY 27 SOUTH
SULPHUR LA 70665
337-558-7200
337-558-7202 (FAX)