HME 50126, 60126, & 80126
NEXT GEN INSTRUCTIONS

PLEASE READ THROUGH ALL OF THE INSTRUCTIONS BEFORE BEGINNING. DETERMINE WHICH SIDE YOU WOULD LIKE THE WINCH ON PRIOR TO ASSEMBLY. IF POSSIBLE, ASSEMBLE THE LIFT ON A FLAT, LEVEL SURFACE. LIFT MUST BE LEVEL WHEN IT IS INSTALLED FOR THE LIFT TO OPERATE PROPERLY. EXTENSION LEGS ARE AVAILABLE FROM YOUR AUTHORIZED HARBOR MASTER DEALER. GREASE THE PULLEYS AND ROLLERS AFTER ASSEMBLY AND THROUGHOUT THE SEASON FOR BEST USE.

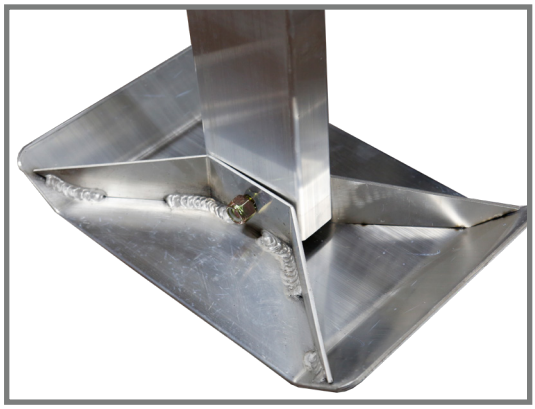
harbor master
BOAT LIFTS AND DOCKS

STEP 1:

BOLT AN ELITE FOOTPAD TO THE LEG POST USING (4) 1/2 X 2-1/2 BOLTS & (4) 1/2 NYLOCK NUTS.

PLACE BOLT THROUGH FOOTPAD AND LEG.

THREAD THE 3/8" NYLOCK NUT ONTO THE BOLT.



TIGHTEN THE BOLT & NYLOCK NUT. LEAVE LOOSE ENOUGH FOR THE FOOTPAD TO BE ABLE TO PIVOT. MAKE SURE THE BOLT IS THROUGH THE NYLON ON THE NYLOCK NUT.

STEP 2:

SLIDE LEGS INTO THE SIDEFRAMES & INSERT LEG PINS & HAIR PIN RETAINER. SET ALL OF THE LEGS TO THE SAME HEIGHT WHILE BUILDING THE LIFT. USE EITHER

SLIDE THE LEG INTO THE SIDEFRAME.

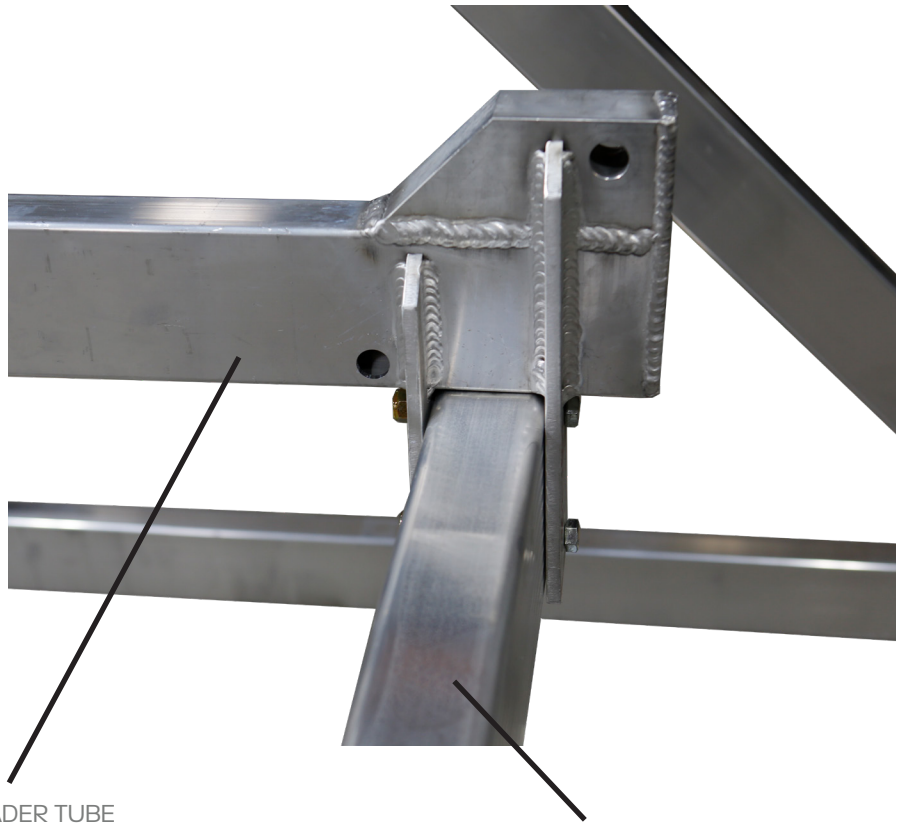
ADJUST LEGS TO DESIRED HEIGHT. EACH HOLE ON THE LEG IS 6" APART. HOLES ON SIDE FRAME ARE 3" APART. THE LIFT IS ADJUSTABLE IN 3" INCREMENTS.

WHEN DESIRED HEIGHT OF THE LEGS IS FOUND, PLACE LEG PIN THROUGH THE SIDEFRAME AND THROUGH THE HOLE ON THE LEG.

PUT THE HAIR PIN RETAINER ON THE LEG PIN TO SECURE THE LEG PIN. IF YOU NEED TO ADJUST THE LIFT LEGS, PULL THE LEG PIN AND HAIR RETAINER, ADJUST THE LEG, THEN PUT THE LEG PIN & HAIR PIN BACK THROUGH THE SIDEFRAME AND LEG.

STEP 3:

BOLT THE SPREADER TUBES TO THE LOAD TUBES USING (8) 9/16" X 4-1/2 BOLTS & 9/16" NYLOCK NUTS. RUN THE BOLTS FROM THE OUTSIDE TO THE INSIDE. MAKE SURE THE BED IS SQUARE BEFORE TIGHTENING BOLTS AND NUTS.



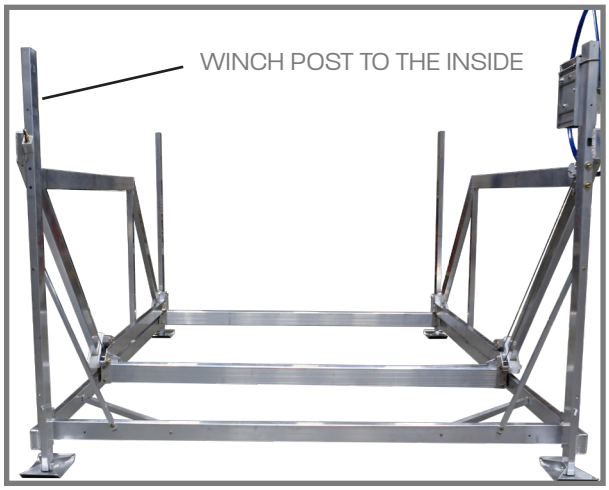
MEASURE THE BED CORNER TO CORNER. ENSURE THE MEASUREMENT IS THE SAME ON BOTH SIDES.

ENSURE THE BED IS SQUARE. THIS IS IMPORTANT FOR THE LIFT TO RAISE AND LOWER PROPERLY.

STEP 4:

STAND THE SIDE FRAMES UPRIGHT WITH THE WINCH POST FACING TOWARDS THE INSIDE OF THE LIFT. BOLT THE FRONT AND REAR BASE TUBES TO THE SIDE FRAMES. (FRONT BASE TUBE HAS HOLES IN THE SIDE OF THE BASE TUBE.) MATCH THE BOLT PATTERN ON THE BASE TUBE TO THE PLATE WELDED TO THE SIDE FRAME.

BOLT THE BASE TUBES TO THE SIDE FRAME USING (6) 3/8 X 1 BOLTS, (10) 3/8 X 3 BOLTS, AND (16) 3/8 NYLOCK NUTS. PUT THE BOLTS IN FROM THE OUTSIDE TO THE INSIDE.

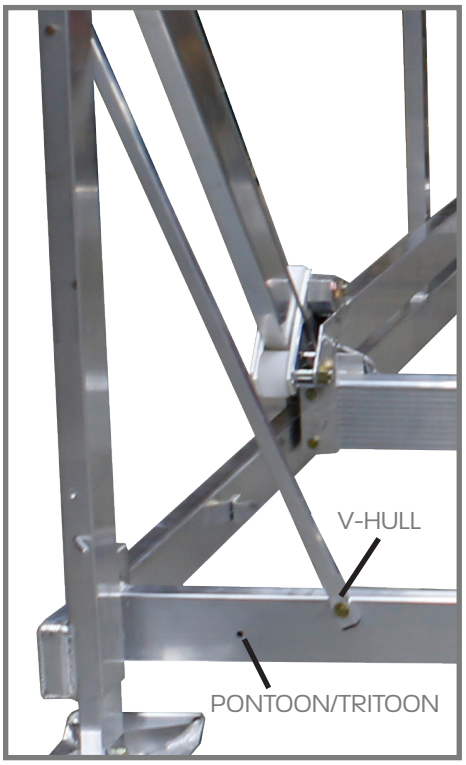


STAND THE SIDE FRAMES UPRIGHT SO THE WINCH POST IS FACING TOWARDS THE INSIDE OF THE LIFT.

STEP 5:

INSTALL THE UPPER BRACE TUBES WITH (2) 3/8" X 6" BOLTS AND (2) 3/8" X 3-1/2" BOLTS. USE 3/8" WASHERS AGAINST THE BRACE TUBES. WHEN TIGHTENING THE BOLTS AND NUTS, BE CAREFUL TO NOT OVERTIGHTEN. THIS MAY CAUSE THE LOWER BRACING TO CAVE IN. FIRMLY TIGHTEN.

USE WASHERS AGAINST THE BRACE TUBE.



THE BRACE TUBE CAN BE PLACED INTO TWO DIFFERENT POSITIONS DEPENDING ON WHETHER THE BOAT IS A V-HULL OR A PONTOON/TRITOON.

STEP 6:

INSTALL LOWER ANGLE BRACE WITH THE (4) 3/8" X 3" BOLTS. USE 3/8" WASHERS AGAINST THE THE ANGLE BRACES. PLACE THE BRACE ONTO THE BOLT WITH WASHER & BEND THE TABS TO FIT.

BEND THE TABS ON THE LOWER BRACING IN TO PROPERLY FIT THE BRACING ON THE SIDEFRAME AND THE FRONT BASE TUBE.

USE (4) 3/8" X 3" BOLTS, (4) 3/8" WASHERS, & (4) 3/8 NYLOCK NUTS.

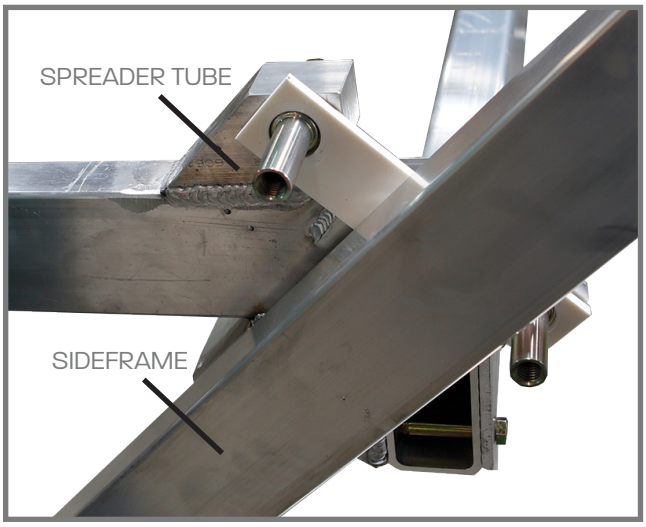
TIGHTEN THE NUTS AND BOLTS UNTIL THE LOWER BRACING IS FIRMLY SECURE. DO NOT OVERTIGHTEN.

STEP 7:

MEASURE THE LIFT FRAME TO ENSURE THE LIFT IS SQUARE. TIGHTEN THE BASE TUBES AND BRACING. WHEN MEASURING, MEASURE CORNER TO CORNER ON A DIAGONAL. MAKE SURE THE DIMENSIONS ARE THE SAME ON BOTH SIDES.

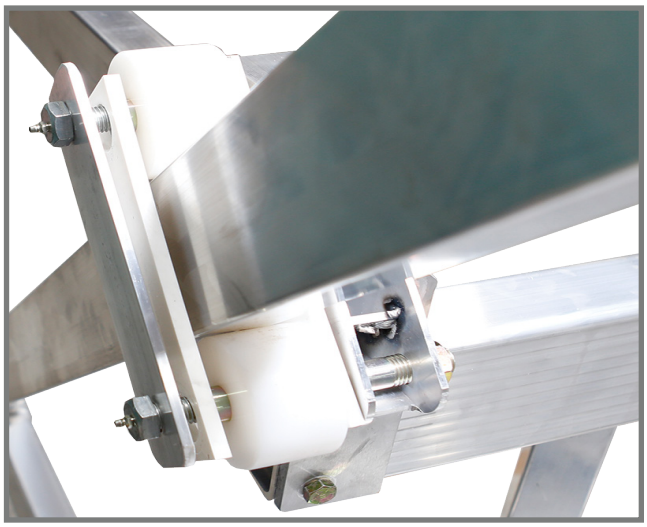
STEP 8A:

INSTALL THE ROLLER SHAFTS INTO THE SPREADER TUBES ON ALL 4 CORNERS OF THE LIFT WITH A PLASTIC WEAR PAD BETWEEN THE SPREADER TUBE AND THE SIDE FRAMES. THREAD 7/8" NUT ONTO THE ROLLER SHAFT.



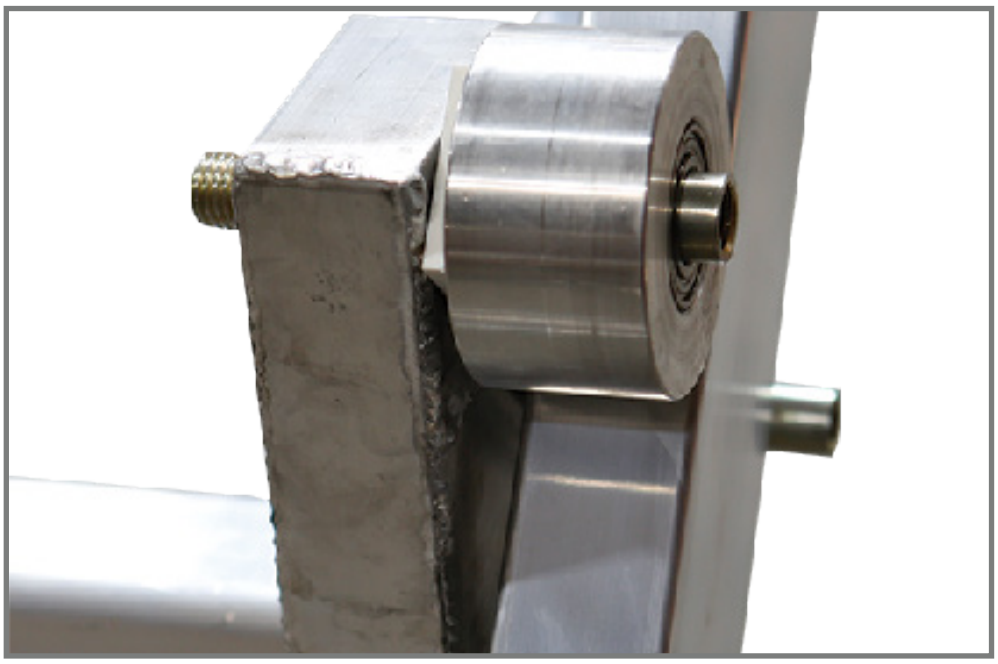
STEP 8B:

INSTALL THE FRONT PLASTIC ROLLERS ON THE ROLLER SHAFTS ON THE FRONT OF THE LIFT (SEE COVER.) PUT ANOTHER PLASTIC WEAR PAD ON THE OUTSIDE OF THE SIDEFRAME. PLACE THE ALUMINUM ROLLER PLATE OUTSIDE OF THE PLASTIC WEAR PAD. THREAD 3/4" BOLT WITH GREASE ZERK INTO THE ROLLER SHAFT.



STEP 8C:

INSTALL THE AULMINUM ROLLERS ON THE TOP SHAFT ON THE REAR ROLLER SHAFTS.



STEP 8D:

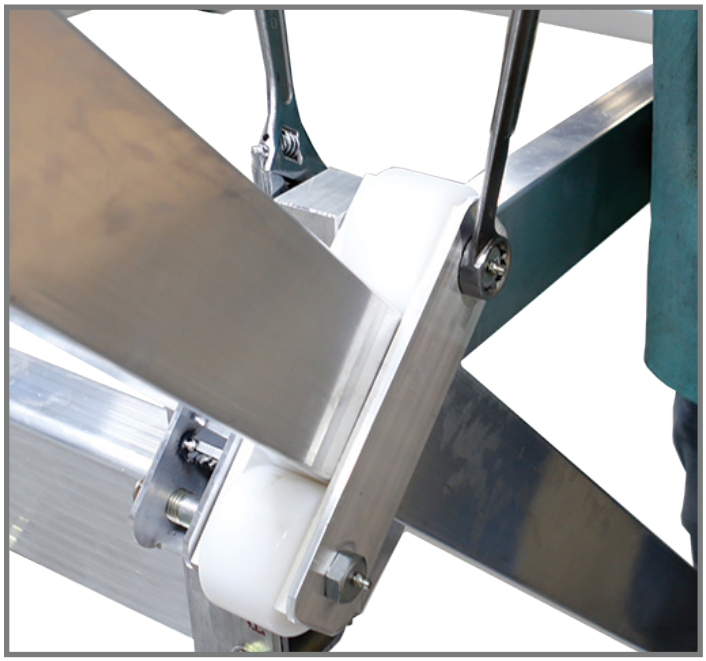
INSTALL THE ALUMINUM SPACER ON THE TOP SHAFT. INSTALL THE PLASTIC SPACER ON THE BOTTOM SHAFTS.

STEP 8E:

INSTALL THE AULMINUM ROLLERS ON THE TOP SHAFT ON THE REAR ROLLER SHAFTS.

STEP 8F:

INSTALL THE PLASTIC WEAR PADS. THEN THE ALUMINUM ROLLER PLATES WITH THE 3/4" BOLTS WITH GREASE ZERKS.



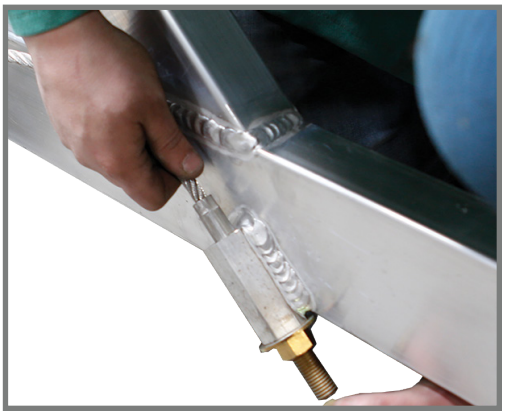
STEP 9A:

DETERMINE WHICH SIDE OF THE LIFT (RIGHT OR LEFT) THAT YOU WANT THE WINCH ON. MOST PEOPLE MOUNT THE WINCH ON THE SIDE OF THE LIFT CLOSEST TO THEIR DOCK. THIS ALLOWS YOU TO REACH THE WHEEL OR POWER UNIT (NOT INCLUDED) FROM THE DOCK.

THE SIDE FRAME THAT THE WINCH MOUNT ON WILL ALSO BE THE SIDE FRAME WHERE THE LEVELING CABLE MOUNTS TO THE BOTTOM OF THE SIDE FRAME (ON BOTTOM TUBE OF THE SIDE FRAME.)

USE THE 5/8" WASHER AND (2) 5/8" FINISH NUTS WHEN ATTACHING THE LEVELING CABLES TO THE LIFT.

*IF YOU ARE GOING TO MOUNT THE WINCH ON THE RIGHT SIDEFRAME, PLEASE REFER TO THE REVERSE WINCH INSTRUCTIONS.



STEP 9B:

PUT 1-3/8" X 1" BUSHING INSIDE OF THE ALUMINUM PULLEY WITH THE PLASTIC SPACERS ON THE OUTSIDES.

MAKE SURE THE OPEN SIDE OF THE BEARING IS FACING THE GREASE ZERK WHEN INSERTED INTO THE LIFT.

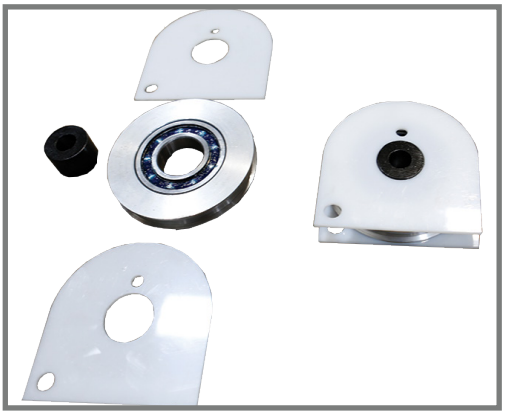
INSERT THE PULLEYS INTO THE PULLEY BRACKET ON THE SPREADER TUBES. HOLD IT IN PLACE WITH 5/8" X 2-1/2" BOLT.

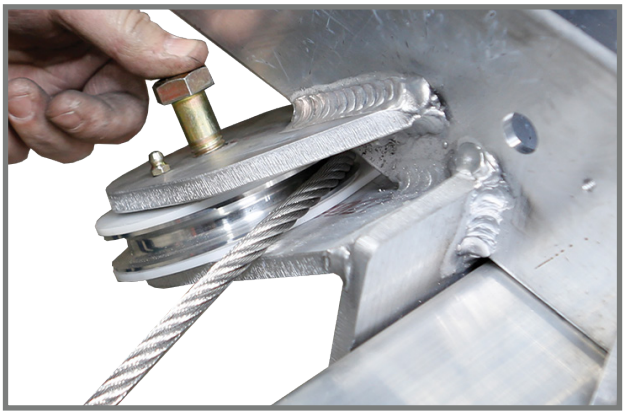
THE CABLE GOES OVER THE TOP OF THE PULLEY ON THE WINCH SIDE. THE CABLE GOES UNDERNEATH THE PULLEY ON THE SIDE OPPOSITE OF THE WINCH.

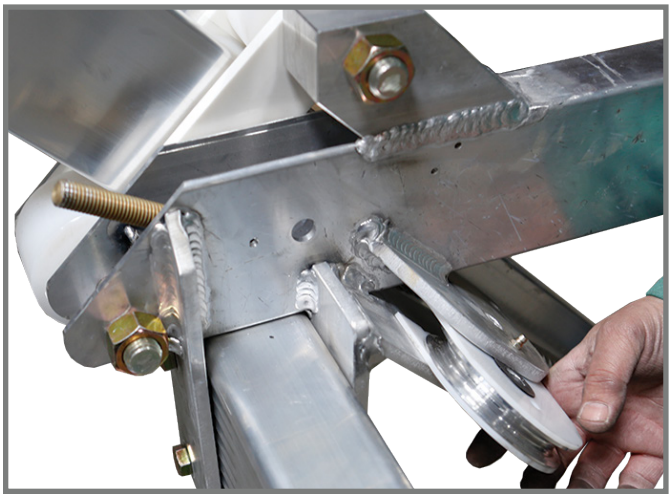
THE LEVELING CABLE STUD WILL GO UP THROUGH THE WINCH POST SLOT.

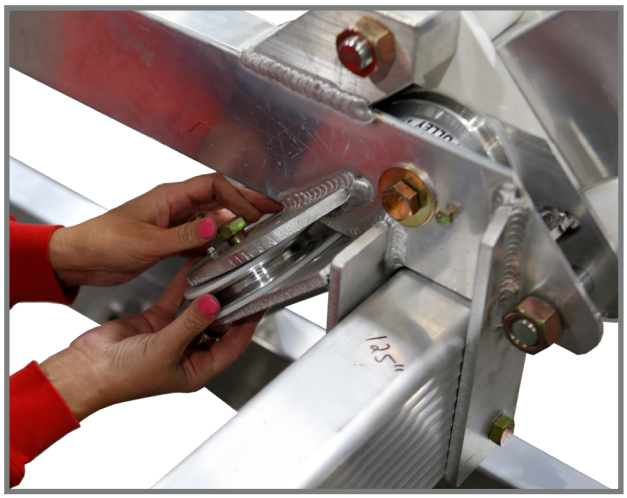
INSERT THE 3/8" X 2-1/4" BOLTS INTO THE PULLEY BRACKETS TO HOLD THE CABLE IN THE PULLEY AND TO KEEP THE PLASTIC PULLEY SPACERS FROM TURNING.

DO NOT OVERTIGHTEN OR THE PULLEY WILL NOT TURN.









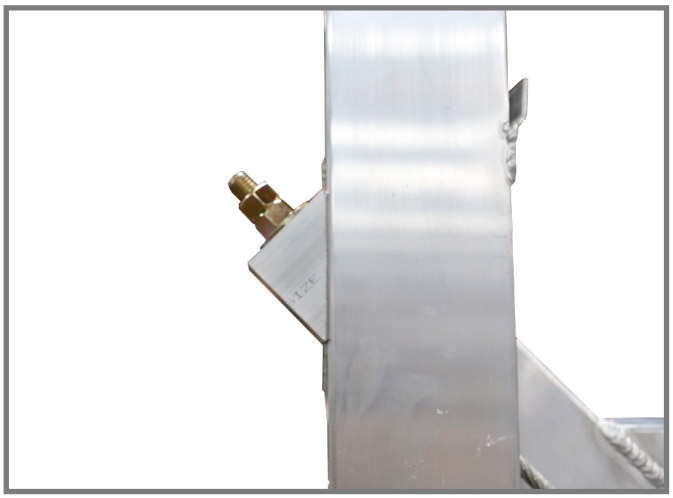
STEP 9C:

RUN THE LEVELING CABLE THROUGHT THE WINCH POST & PUT THE ALUMINUM WEDGE BLOCK OVER THE CABLE. FASTEN WITH 5/8" WASHER & (2) 5/8" NUTS.

THE BLOCK WIL FIT INTO THE SLOT ON THE WINCH POST. YOU CAN PICK UP ON THE BED OF THE LIFT ON THE CLOSEST SIDE TO HELP GIVE SLACK TO THE CABLE TO MAKE IT EASIER TO INSTALL CABLE AND BLOCK.

ONCE YOU GET THE WINCH ATTACHED (LATER STEP) YOU WILL NEED TO ADJUST THE LEVELING CABLE TIGHTENESS SO THAT THE SIDE OF THE BED THAT IS THE CLOSEST TO THE LEVELING CABLE BLOCK IS 1" HIGHER THAN THE OTHER SIDE. THIS WILL MAKE THE LIFT LEVEL WHEN IT IS LOADED.

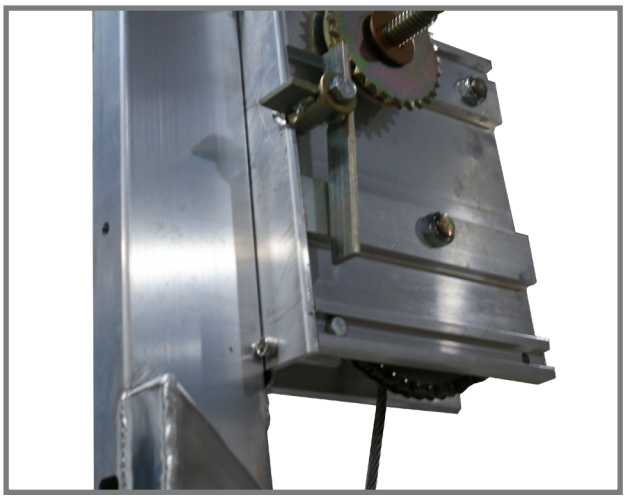
THE SECOND NUT ON THE LEVELING CABLE IS TO KEEP THE FIRST NUT FROM COMING LOOSE.

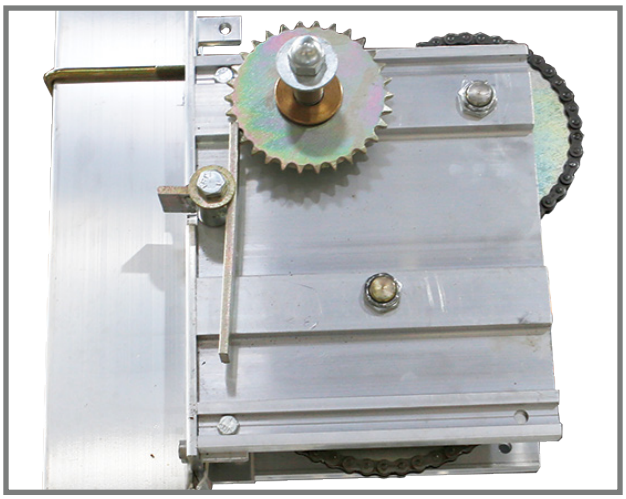


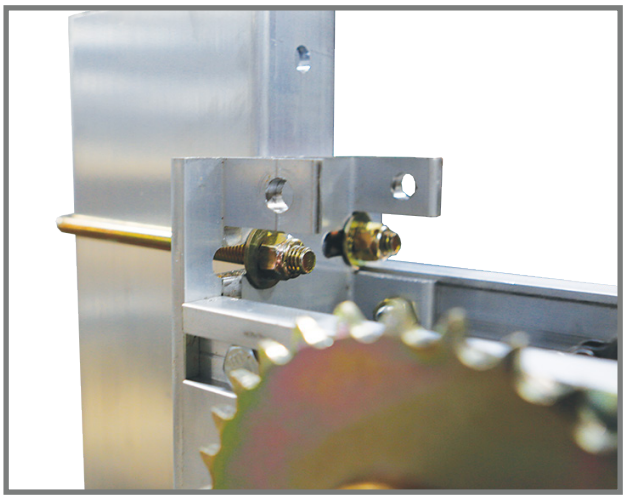
STEP 10:

INSTALL THE WINCH ON THE SIDE FRAME USING THE 3/8" X 2-1/2" X 5-1/2" SQUARE UBOLT & (2) 3/8" FLANGE NUTS. THE WINCH WILL SLIDE INTO THE WELDED TAB ON THE WINCH POSTS.

THE ALLEN HEAD BOLT ON THE WINCH WILL FIT AGAINST THE WINCH POST. THE WINCH SHOULD BE PARALLEL TO THE WINCH POST. THE ALLEN HEADED BOLT WILL HIT AGAINST THE WINCH POST.







STEP 11:

PLACE THE LOOP ON THE WINCH CABLE OVER THE 9/16" X 4" X 7-1/2" ROUND UBOLT. ALSO PUT THE PULLEY SIDE ASSEMBLY OVER THE UBOLT. MAKE SURE THE HEADS OF THE BOLTS ARE FACING THE SIDE FRAME AND THE GREASE ZERK IS AWAY FROM THE SIDE FRAME. **THE PULLEY SHOULD BE ABOVE THE LOOP ON THE WINCH CABLE.**

USE (2) 1/2" WASHERS ON THE UBOLTS WITH 9/16" NYLOCK NUTS. TIGHTEN THE UBOLT SO THE NUT IS 1/4" PAST THE END OF THE UBOLT. (ROUGHLY 1-2 THREADS ON THE UBOLT.) **DO NOT OVERTIGHTEN.**

ENSURE THE PULLEY IS ABOVE THE LOOP OF THE WINCH CABLE ON THE UBOLT.

PLACE UBOLT THROUGH THE SIDE FRAME. USE (2) 1/2" WASHERS & (2) 9/16 NYLOCK NUTS.

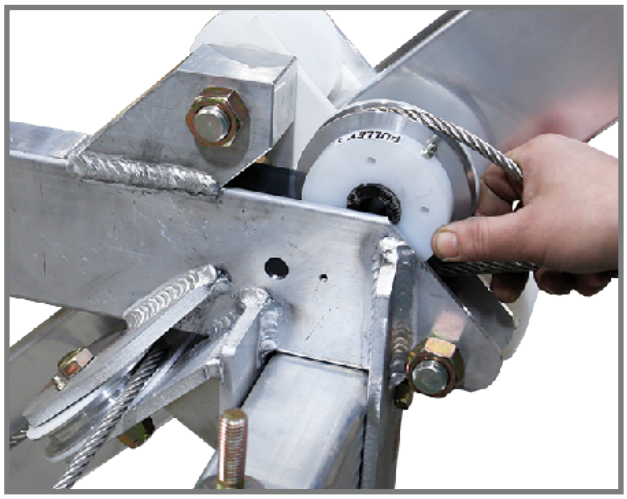
STEP 12A:

TAKE ALUMINUM PULLEY WITH THE 1/8" X 4-1/2" ROUND PLASTIC SPACER ON THE SIDE AND WRAP THE WINCH CABLE AROUND IT.

MAKE SURE THE OPEN SIDE OF THE OPEN SIDE OF THE BEARING IS FACING THE GREASE ZERK WHEN ISERTED INTO THE TUBE.

PLACE 1-3/8" X 1-5/8" BUSHING INSIDE OF THE PULLEY.

THE PLASTIC SPACER WITH THE GREASE ZERK WILL GO ON THE OTHER SIDE OF THE PULLEY WITH THE ARROW FACING THE PULLEY.

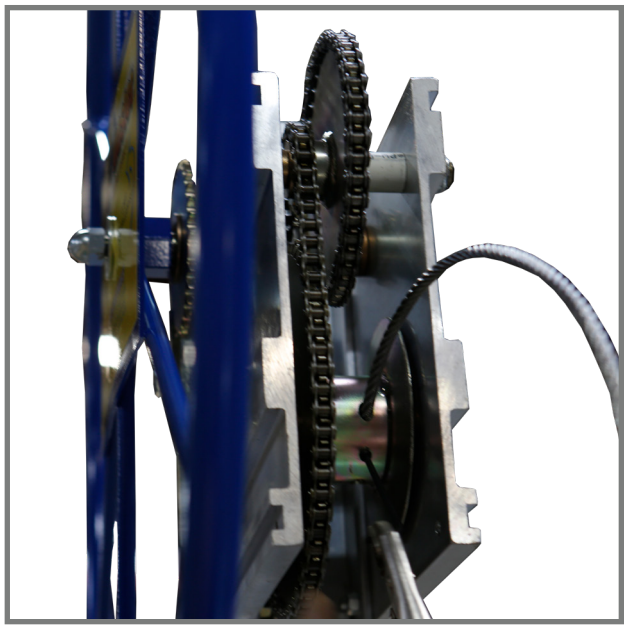


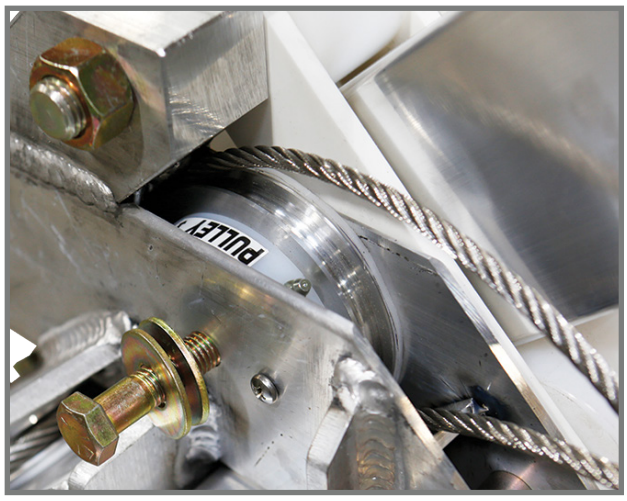
STEP 12B:

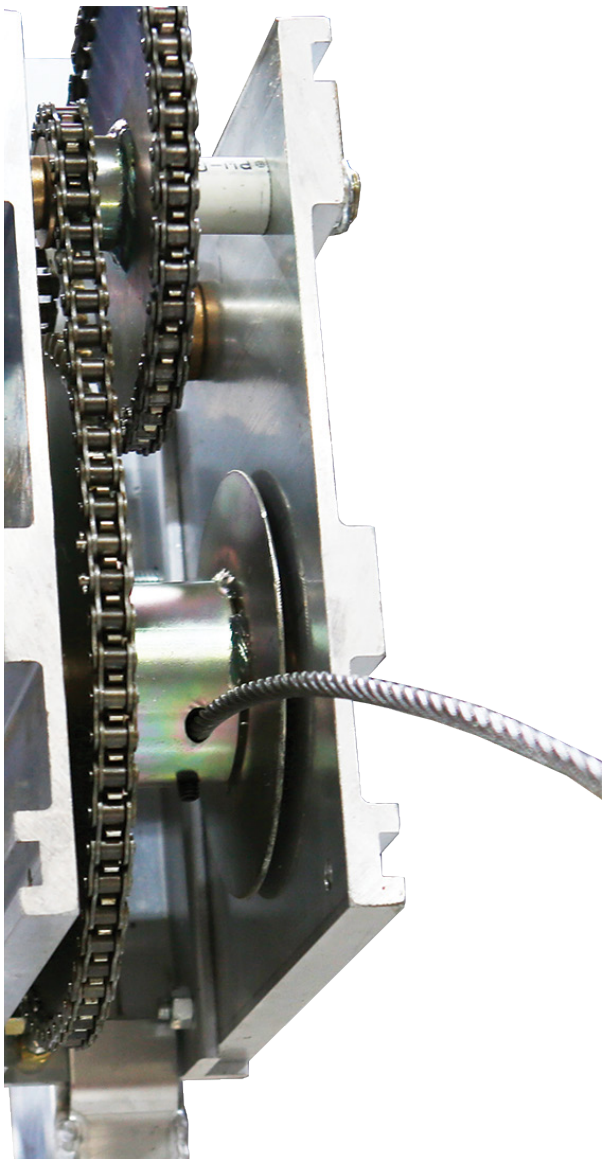
BOLT THE PULLEY INTO THE TUBE WITH A 5/8" X 2-1/2" BOLT WITH (1) WASHER. **DO NOT OVERTIGHTEN.** THE BOLT WILL THREAD INTO THE PLATE THAT IS WELDED TO THE BACK OF THE TUBE. IF YOU OVERTIGHTEN THE BOLT, YOU COULD STRIP THE THREADS OF THE PLATE.

MAKE SURE THE CABLE STAYS IN THE GROOVE OF THE PULLEY. BOLT THE PULLEY SPACER INTO PLACE WITH THE 1/4" X 3/4" BOLT MAKING SURE THE BOLT GOES THROUGH THE HOLE IN THE PLASTIC SPACER.

RUN THE CABLE THROUGH THE PULLEY UNDER THE WINCH AND THROUGH THE WINCH SPOOL. USE THE SET SCREW IN THE WINCH SPOOL TO FASTEN THE CABLE IN THE WINCH. THE CABLE SHOULD EXTEND THROUGH THE SPOOL 1/4".





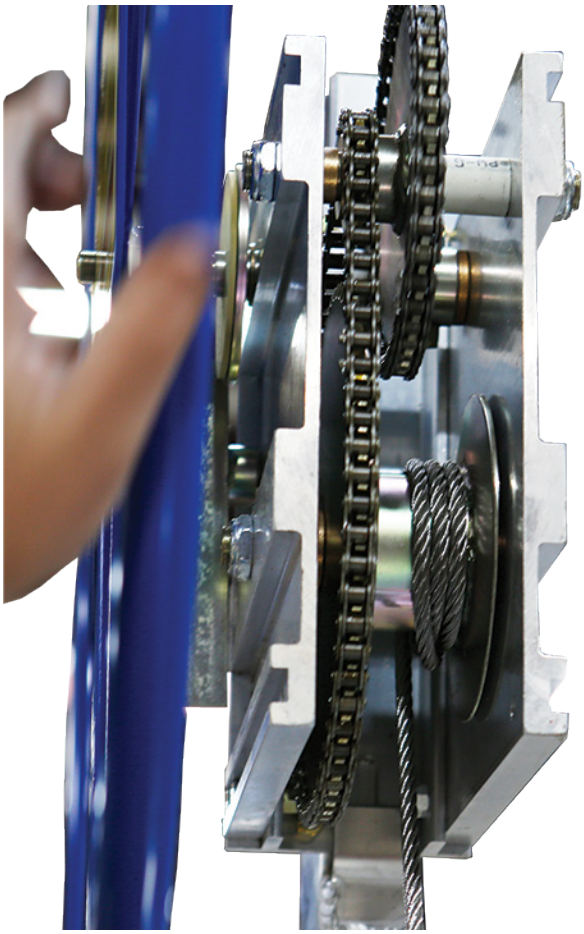


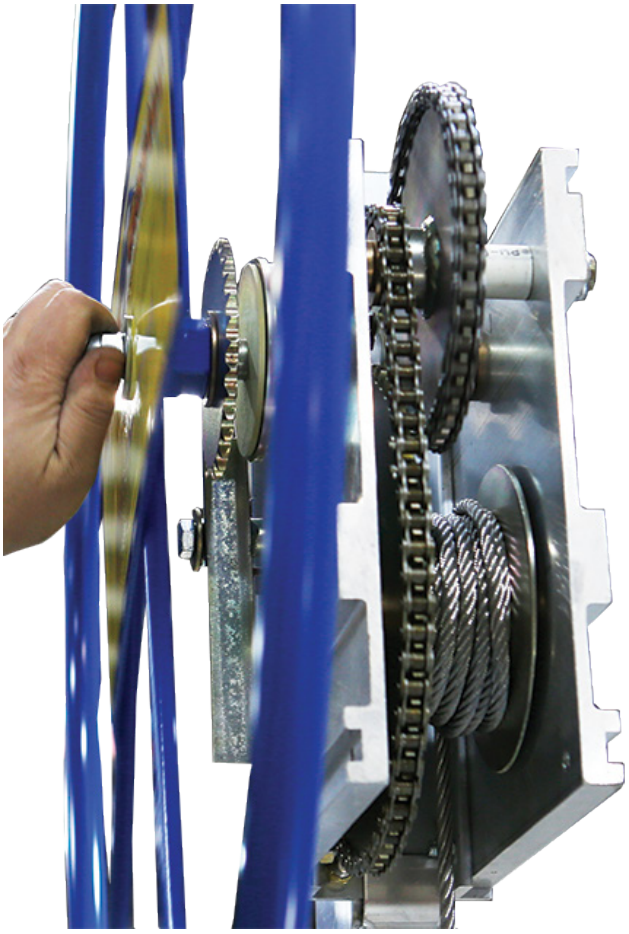
STEP 13:

TAKE THE ACORN NUT AND WASHER OFF OF THE WINCH. THREAD THE WHEEL ONTO THE WINCH. THE CLUTCH DISC SHOULD BE AGAINST THE WINCH SHAFT FIRST, FOLLOWED BY THE GEAR AND BRONZE THRUST WASHER. THIS SHOULD BE FOLLOWED BY THE WHEEL, THEN THE WASHER, AND FINALLY THE ACORN NUT. THIS ORDER IS CRUCIAL FOR THE WHEEL TO OPERATE CORRECTLY. THERE SHOULD BE A 1/4" GAP BETWEEN THE WASHER AND THE WHEEL.

TURN THE WHEEL AND BEGIN TO SPOOL THE CABLE ONTO THE WINCH ENSURING THAT IT SPOOLS CORRECTLY. PUT TENSION ON THE CABLE WHEN SPOOLING TO ELIMINATE ANY SLACK IN THE CABLE. SLACK IN THE CABLE COULD CAUSE DAMAGE TO THE LIFT AND/OR BOAT.

INSTALL THE SPINNER KNOB ON THE WHEEL WITH THE 3/8" SHOULDER BOLT AND 3/8" NUT.



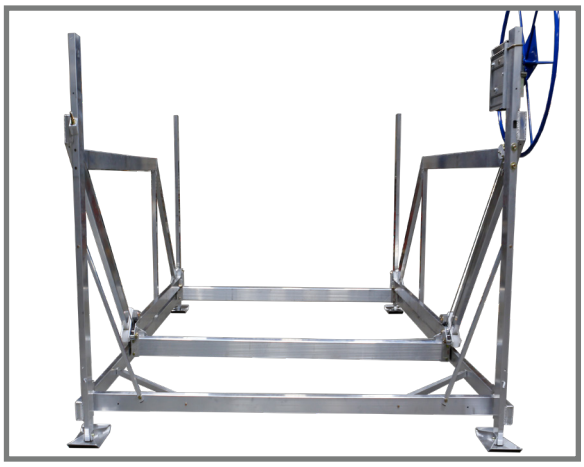


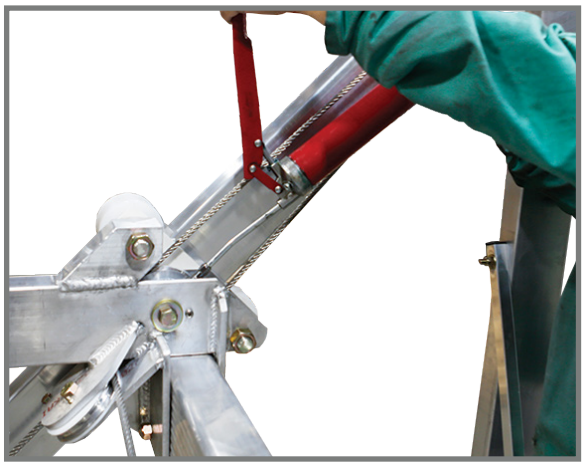
STEP 14:

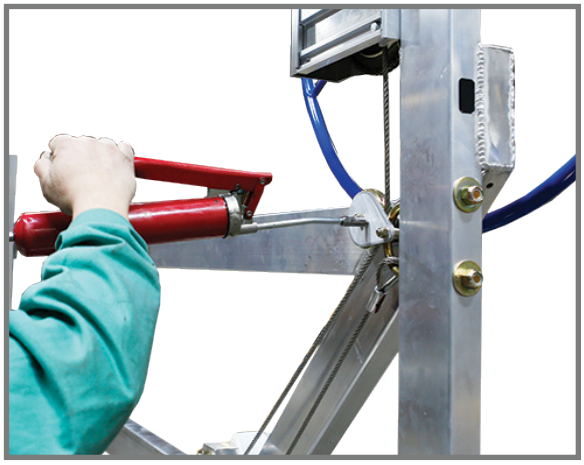
TIGHTEN ALL OF THE BOLTS ON THE LIFT.

GREASE ALL OF THE GREASE ZERKS ON THE LIFT UNTIL THE GREASE PUSHES OUT OF THE SIDE OF THE ROLLERS AND PULLEYS. RAISE THE LIFT SO THE PULLEYS TURN 1/3 ROTATION. GREASE ALL PULLEYS AND ROLLERS AGAIN. ONCE AGAIN RAISE THE LIFTS SO THE PULLEYS AND ROLLERS ROTATE 1/3 OF A ROTATION. GREASE AGAIN. THIS IS ESSENTIAL TO KEEP YOUR LIFT WORKING PROPERLY FOR YEARS TO COME.

MAKE SURE TO REPEAT THE GREASING PROCESS AT LEAST ONE MORE TIME TRHOUGHOUT THE BOATING SEASON. USE A WATERPROOF GREASE IN ORDER TO MAKE SURE THIS PROCESS WORKS CORRECTLY.







MAKE SURE THE CABLE IS IN THE PULLEY WHEN THE 3/8" BOLTS ARE PUT THROUGHT. THE CABLE MOST GO UNDER THE BOLT, NOT OVER.