

Read and understand the entire contents of this manual with special emphasis on safety precautions before operating the equipment. Do not allow personnel to operate this equipment until this manual has been fully read and understood. Never allow untrained personnel to operate this equipment as serious damage or injury could occur. Please

contact Yardarm[®] if you do not fully understand any information within this manual.



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SAFETY INFORMATION

We learn by experience and as a result of that experience, safe practices developed in the use of the hydraulic boat jack are described in this manual. Research, development, and years of field experience have evolved into reliable equipment and operation instruction of that equipment.

Accidents occur when equipment is improperly used or maintained. The particular reason for safe practices may not always be stated in this manual but most are based on common sense procedures while others may require technical data to explain.

For personal safety as well as the safety of others, please read and understand the safe practices before attempting to operate this equipment. Failure to observe these safe practices may cause equipment damage, serious injury, or even loss of life. When safety becomes a habit, the equipment can be used with ease and confidence!

Safety instructions pertaining to this product appear throughout this owners manual are highlighted by the signal words **WARNING** and **IMPORTANT**. The signal words identify different levels of hazards described as follows:



identifies statements including operation and maintenance procedures or practices which if not followed carefully could result in equipment damage, personal injury or loss of life.



highlights instructions which need special emphasis to obtain the most efficient operation of the equipment.

WEIGHT CAPACITY

Yardarm[®] hydraulic boat jacks themselves are designed to hold/lift a **maximum of 10,000 lb. (4,500 kg)** each and should never be overloaded. Several lift arms of varying weight capacities are available for use with the hydraulic boat jacks and each has it's own weight capacity that must not be exceeded. Each lift arm is stamped with its rated capacity. Lifting capacities for available lift arms are listed in the accessories section of this manual.



NEVER exceed the rated weight capacity of the hydraulic boat jack or lift arms (whichever is less). Attempting to lift more than the rated capacity of the boat jack or lift arm can result in severe injury, death, and damage to property.

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RECEIVING AND HANDLING CHECKLIST

1. Upon delivery of the hydraulic boat jacks it is your responsibility to complete a physical damage inspection. Any claims for loss or damage that may have occurred in transit must be filed by the purchaser with the freight carrier. NOTE: Yardarm[®] (the manufacturer and shipper of the product) is unable to file claims on your behalf with the freight carriers. Upon request, the manufacturer will provide a copy of the original bill of lading or carrier contact information and will be able available to assist in any way possible with the filing of your claim.

2. An inventory checklist is enclosed for your set of hydraulic boat handling jacks, both standard and optional accessories are indicated on this sheet. Please check to ensure you have received all of your accessories as specified on your invoice.*

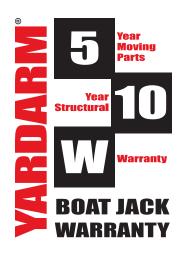
- 3. Cycling the masts and testing the spring loaded safety lock assembly:
 - A. Install the cylinder pump handle.
 - B. Turn the "T" valve to the closed position (clockwise), until snug.
 - C. Pump the hydraulic pump handle until the mast is fully extended.
 - D. The increment marker should indicate approx. 19.5" of vertical lift .
 - E. Slowly turn the "T" valve to the open position (counter clockwise) until the mast begins to retract.

NOTE: Due to shim tolerances the mast may need additional downward force in order for it to retract.

F. While the mast is retracting the safety lock assembly must be tested by activating the roll pin to the right and releasing it. The safety lock should automatically secure the mast from further movement. Test each mast hole during retraction. Perform this step on all of the jacks.

*If any parts or accessories are missing or operating incorrectly upon receipt it is your responsibility to notify us immediately so we can work to correct the situation.

LIMITED WARRANTY



5 YEAR LIMITED BOAT JACK MOVING PARTS WARRANTY. Manufacturer warrants the moving components of the boat jack(s) it manufactures including the hydraulic cylinder and other moving parts to be free of defects in material and workmanship for a period of five (5) years from the date of invoice.

10 YEAR LIMITED BOAT JACK STRUCTURAL WARRANTY. Manufacturer warrants the structural components of the boat jack(s) it manufactures to be free of defects in material and workmanship for a period of ten (10) years from the date of invoice.

LIMITATION OF WARRANTIES AND REMEDIES. THIS WARRANTY IS EXTENDED ONLY TO THE BUYER WHO PURCHASES THE BOAT JACK(S) DIRECTLY FROM THE MANUFACTURER OR ITS AUTHORIZED DISTRIBUTORS AND IS NON-TRANSFERABLE. THE PURCHASER'S EXCLUSIVE REMEDY ARISING FROM ITS PURCHASE OR USE OF THE PRODUCT SHALL BE STRICTLY LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCTS, AT THE DISCRETION OF THE MANUFACTURER, AND ALL WARRANTY

CLAIMS OR REQUESTS MUST BE MADE IN WRITING TO THE MANUFACTURER WITHIN TEN (10) DAYS AFTER FAILURE OF THE PRODUCT. ALL OBLIGATIONS OR LIABILITIES OF MANUFACTURER OR SELLER FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE PRODUCT AND USE OR PERFORMANCE OF THE PRODUCTS, EXCEPT AS EXPRESSLY PROVIDED HEREIN, ARE FULLY DISCLAIMED AND EXCLUDED, AND NO SELLER OR DISTRIBUTOR HAS ANY AUTHORITY TO MAKE ANY WARRANTY OR ASSUME ANY LIABILITY ON BEHALF OF THE MANUFACTURER IN CONNECTION WITH THE SALE OF THE PRODUCT EXCEPT AS STATED HEREIN.

AS A CONDITION OF THE PURCHASE, PURCHASER AGREES THAT MANUFACTURER AND SELLER SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY COST OF FREIGHT, SHIPPING OR TRANSPORTATION, LABOR, SPECIAL CHARGES, NORMAL MAINTENANCE SERVICES, LOST OPERATING TIME, LOSS OF USE, LOST PROFITS, LOSS OF GOODWILL, CONSEQUENTIAL DAMAGES, PUNITIVE OR EXEMPLARY DAMAGES, OR OTHER DAMAGES OR LOSS. OTHER THAN AS DESCRIBED HEREIN, MANUFACTURER AND SELLER MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS, AND SPECIFICALLY DISCLAIM ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHER WARRANTY. PURCHASER ASSUMES ALL RISK AND LIABILITY RESULTING FROM THE USE OF THE PRODUCTS. PURCHASER FURTHER AGREES AS A CONDITION OF THE SALE AND THE USE OF THE PRODUCT, THAT ANY DAMAGES OR RISK OF LOSS OTHER THAN AS DESCRIBED HEREIN ABOVE, SHALL BE THE EXCLUSIVE RESPONSIBILITY OF THE PURCHASER AND NOT THE MANUFACTURER OR SELLER. MANUFACTURER AND SELLER SHALL NOT BE LIABLE FOR ANY DAMAGES INCURRED BY ANY PERSON AS A RESULT OF MISUSE, IMPROPER INSTALLATION, IMPROPER APPLICATION, IMPROPER OPERATION OF THE PRODUCTS, NORMAL WEAR AND TEAR, ALTERATIONS OR MODIFICATIONS MADE TO THE PRODUCTS, OR ACCIDENT. THE USE OF REPLACEMENT PARTS NOT PROVIDED OR AUTHORIZED BY THE MANUFACTURER VOIDS ALL WARRANTIES.

A COMPLETELY FILLED OUT WARRANTY CARD MUST BE RETURNED TO THE MANUFACTURER WITHIN THIRTY (30) DAYS OF PURCHASE OF THE PRODUCT OR ALL WARRANTIES ARE VOID. PRODUCT MUST BE MAINTAINED IN ACCORDANCE TO THE MAINTENANCE SCHEDULE PROVIDED IN THE PRODUCT MANUAL, FAILURE TO MAINTAIN THE PRODUCT IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE VOIDS ALL WARRANTIES. THIS WARRANTY DOES NOT COVER FACTORY INSTALLED OR CUSTOMER INSTALLED ACCESSORIES.

WARRANTY CLAIMS. Warranty claims must be submitted to the manufacturer within ten (10) days after failure of the product. Contact information for warranty claims:

Yardarm[®] by Forecast Sales, Inc. 2719 Tobey Dr. Indianapolis, IN 46219 317-829-0147

Effective Oct 1, 2016

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UPLOADING PROCEDURES

1. Position your boat in the desired location to be unloaded. Once the boat has been positioned, check that the boat trailer and tow vehicle are in line with each other to maximize trailer clearance during removal.

2. Select the proper lift arms for the task to be completed. The type of arms to be used will depend on the boat and trailer configuration. NOTE: each arm is permanently etched with its specified lifting capacity straight arms have a variable lift capacity of 2,000 lb. (900 kg) to 10,000 lb. (4,500 kg) per each arm. The 10" drop arms are rated at 2,500 lb. (1,125 kg)of lift capacity per arm.



Once the proper lift arm has been selected, make sure the arm safety retaining pin is in place.



Never invert drop arms to use them in the upside down position. Drop arms should only be used to lower the reach of the arms, never to extend the reach higher.

3. Install the contact pads onto each selected arm.



Do not use blocks or other items to raise the height of the contact pads. 5''(12.7 cm) and 10''(25.4 cm) risers are available for purchase.

4. Position the jacks with two on each side of the boat.

A. The two stern jacks can be positioned I" to 12" (2.5 cm to 30.5 cm) forward of the hulls trailing edge. B. The two bow jacks will be positioned at the widest hull mid-section of the boat.



When positioning the jacks to use on pavement, gravel, dirt, etc., you must make sure all four jacks are in a stable vertical position.

5. Position the contact pads so that they seat flatly on the hull chine area. If the pads cannot be flatly mounted on the chine, they may be positioned on the hull, just below the chine.

6. Before beginning the lift, check that all safety lock pins are engaged and that the "T" valve on each hydraulic cylinder is completely closed by turning it clockwise until snug. NOTE: do not over tighten, this will result in damage to the "T" valve.

7. When all crew members are in place and ready, each member must begin slowly raising their jack by PUMPING the hydraulic cylinder pump handle.



Never pull up on the inner jack tube to raise the jack into position! Always pump up the jack with the cylinder pump handle. Pulling up on the inner jack tube will cause serious damage to the hydraulic cylinder resulting in failure.



Maintain open communication between crew members by calling out the jack measurement increments. The boat must be kept as level as possible for a safe and hazard free lift.

8. When the boat is raised to the desired height, all jack safety locks must be engaged. At this time you can safely and carefully remove the trailer from under the boat.

DOWNLOADING PROCEDURES

NOTE: If the boat is sitting on blocks, stands or a dolly system, you will need to refer back to uploading procedures and place boat back on the hydraulic boat jack system.

1. With the boat sitting on the jacks, place your trailer or dollies beneath the boat.



A spotter or spotters will be needed to help monitor trailer fender to jack and hull to bunk clearance during trailer placement.

2. Disengage all four safety lock pins.



If the boat has been temporarily stored on the jacks with the lock pins fully engaged, you may need to relieve the downward pressure off the lock pins. This can be done by:

A. Fully closing the "T" valve.

B. Once the "T" valve is closed, lightly pump the jack while at the same time retracting the locking pin.

3. Once all safety lock pins have been retracted, each crew member must verbally verify his increment setting. Verbal communication is very important in the downloading procedure.



The majority of the time your increment setting are not going to be identical, Fwd. to Aft. Or side to side due to unlevel surface conditions. The lowering increments must still be verbally communicated between crew members in order to keep an even downward load flow.

4. Prior to fully opening the "T" valve, you must slowly turn the valve just to the point of being opened. Once each crew member is at that point, each member may now simultaneously and slowly open the valve.



Do not open or close the valve too quickly with a load on the jacks!

5. Download procedure normally begins with lowering the bow first 2"-3" on the increment marker and then repeating the same step on the aft jacks.

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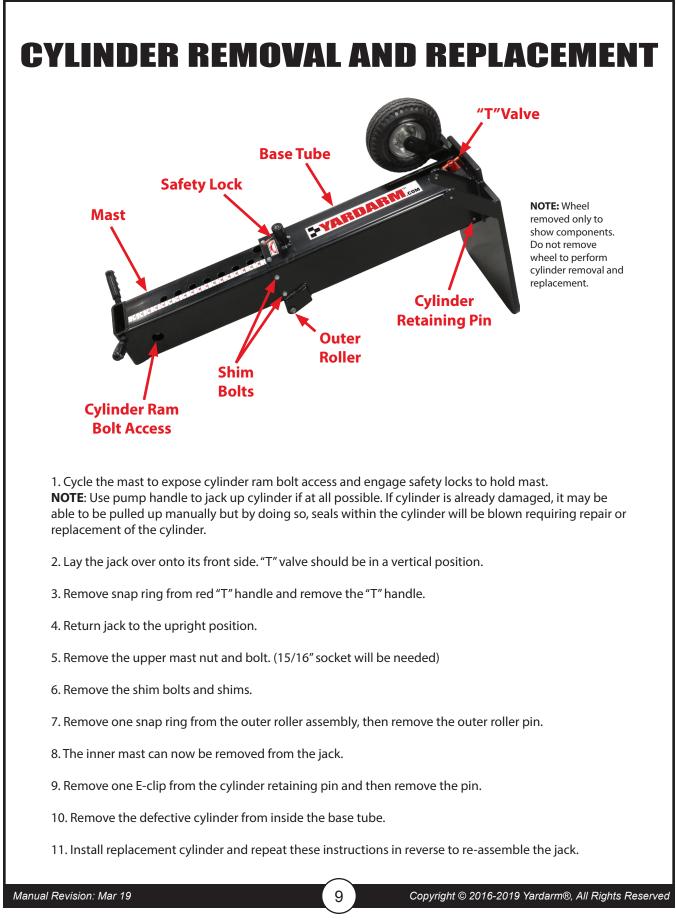
Lowering the bow or the stern first will depend on the type of task you are performing.

6. Once the boat has been seated securely on the trailer, dolly, etc. the jacks may now be removed.



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HYDRAULIC BOAT JACK SYSTEM OWNER'S MANUAL



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HYDRAULIC BOAT JACK SYSTEM OWNER'S MANUAL

CYLINDER SERVICE AND MAINTENANCE INSTRUCTIONS

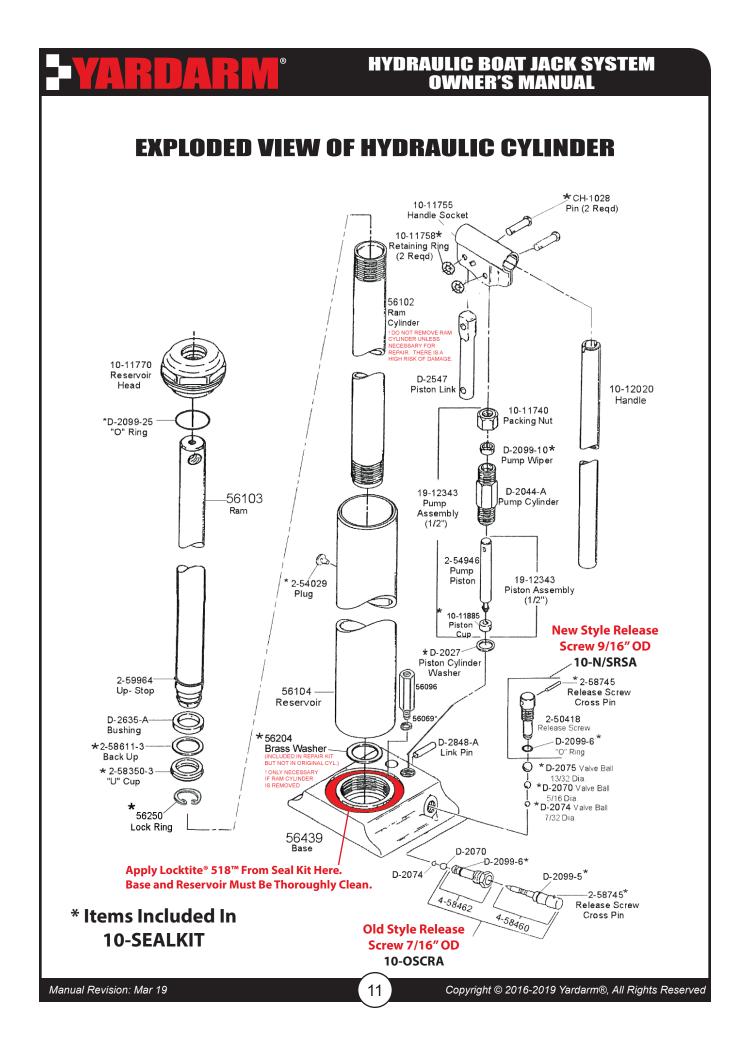
The hydraulic cylinders used by Yardarm[®] are an American made product custom designed for our boat jack system. They are built to give trouble free service when used and maintained properly. However, in the event that the cylinder fails to operate correctly the majority of cases it can be traced to relatively simple causes that are easily corrected. Following is a list of helpful tips that will enable you to correct most situations you encounter when faced with issues to do with the cylinder:

Cylinder Service:

- 1. Release valve may not be completely closed. (turn right to close).
- 2. User may have removed release screw and lost one or more ball checks. Remove and make sure all three ball checks are in position. (Replace balls in order of smallest to largest.)
- 3. Cylinder may be air bound. Open the release valve and pump handle several times.
- 4. Dirty or sticky ball checks. To correct with the release valve open, stand on the base and pull the ram out by holding the extension screw and force the ram down as rapidly as possible. This process flushes oil through the valves and removes loose dirt trapped under the ball seats. In stubborn cases it may be necessary to re-seat the ball checks by tapping each one gently using a small brass rod as a punch. Make sure ball checks are not stuck on seat after re-seating.
- 5. Too much oil results in loss of full pump stroke (similar to air binding). With ram retracted, lower oil to filler hole level.
- 6. Too little oil causes the jack to not lift to full height. With ram retracted, add AW32 hydraulic fluid to filler hole level.
- 7. Jack will raise load, but cylinder will not retract to lower. "O" ring at the top of cylinder is possibly dried out. Pour a small amount of AW32 hydraulic fluid around "O" ring or back off packing nut slightly.
- 8. Jack will not hold load:
 - A. Pressure ball (middle ball) may not be seating properly: see #4 to reseat.
 - B. Release not holding: see #1.
 - C. Worn or defective ram cup: pull ram through head and replace cup.
 - D. Ram cylinder not seating or damaged through overloading or improper use: dismantle jack and tighten or replace ram cylinder.

Cylinder Maintenance:

- 1. Refill only with new AW32 hydraulic fluid. Never use alcohol, glycerine, brake fluid or thick/dirty oil.
- 2. Use caution to prevent entrance of dirt when refilling jack.
- 3. When stored, cylinder should be lowered completely with the pump piston in the lowest possible position and the release valve closed.
- 4. Periodically oil all moving parts.



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HYDRAULIC BOAT JACK SYSTEM OWNER'S MANUAL

BASIC REPLACEMENT PARTS LIST



10-SEALKIT

Seal kit for new style hydraulic boat jack cylinder



10-SLA Safety lock assembly



10-NSCYL Replacement cylinder for new style hydraulic boat jacks



10-NSJACKHANDLE Cylinder pump handle with grip



10-RAMBOLT Jack cylinder head bolt & nut, grade L9



10-JAP Jack arm pin with lanyard and self-tapping screw (requires #30 hole)



10-ORA Outer roller assembly, includes roller, pin & snap rings



10-NSTVALVE New style replacement T-valve with snap ring, 9/16" ID



10-JO-WHEELAXLE Wheel axle and snap rings for 10" pneumatic tire



10-N/SRSA New style release screw assembly, 9/16" OD



MP01675 Rubber handle grip for hydraulic boat jack



10-OSTVALVE Old style replacement T-valve with snap ring, 7/16" ID

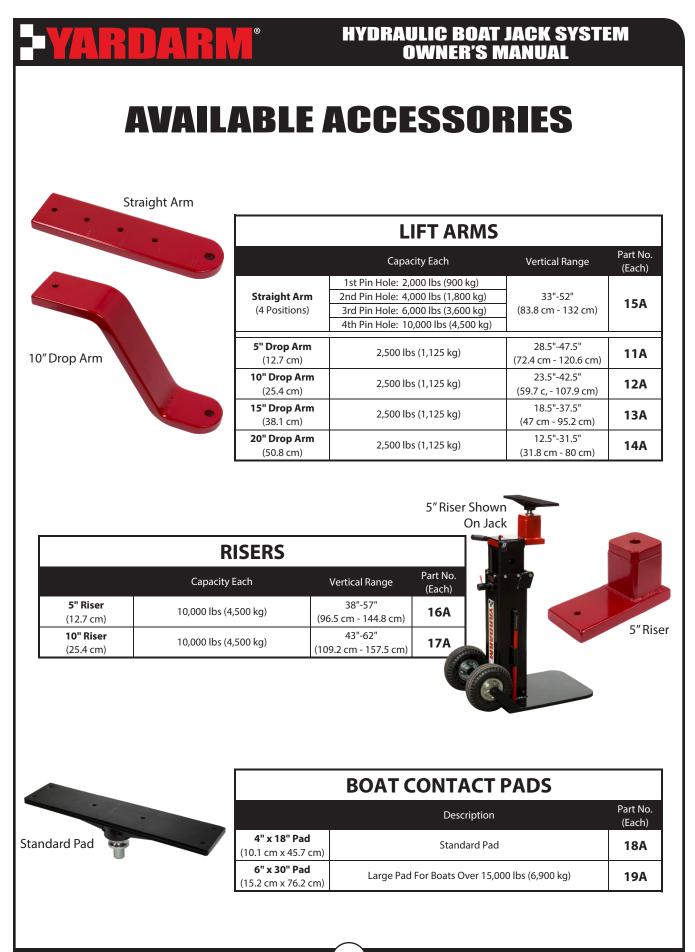


10-OSCRA Old style release screw assembly, 7/16" OD



MP01830 NEW Semi-Solid Wheel, 10", FLAT FREE!

REPLACES FPA354C50 - 10" Pneumatic Tire & 10-JATINNERTUBE - Inner Tube



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