WARNING:
Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-888-448-6746, 8 a.m.-5 p.m., PST, Monday-Friday.

Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.
IMPORTANT

Before You Begin Register This Product.
For future reference, record the model name, model number, date of manufacture and purchase date of this product. You can find this information on the product.

Model Name

Model Number

Date of Manufacture

Date of Purchase

OWNER / USER RESPONSIBILITY

DO NOT OPERATE OR REPAIR THIS PRODUCT WITHOUT READING THIS MANUAL.
Read and follow the safety instructions. Keep Instructions readily available for operators. Make certain all operators are properly trained and understand how to safely and correctly operate the product. By proceeding you agree that you fully understand and comprehend the full contents of this manual. Failure to operate this product as intended may cause injury or death. The manufacturer is not responsible for any damages or injury caused by improper use or neglect. Allow product operation only with all parts in place and operating safely. Use only genuine replacement parts. Service and maintain the product only with authorized or approved replacement parts; negligence will make the product unsafe for use and will void the warranty. Carefully inspect the product on a regular basis and perform all maintenance as required. Store these instructions in a protected dry location. Keep all decals on the product clean and visible. Do not modify and/or use for any application other than that for which this product was designed. If you have any questions relative to a particular application, DO NOT use the product until you have first contacted the distributor or manufacturer to determine if it can or should be performed on the product.

For technical questions please call 1-888-448-6746.
INTENDED USE

This jack is designed to lift and raise outboard marine engines only. The jack features an overload valve bypass system to prevent jack damage and user injury. Compact design allows use in confined spaces. Easily fits under low mounted marine engines. Meets ASME PALD safety standards.

TECHNICAL SPECIFICATIONS

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<tr>
<th>Item</th>
<th>Description</th>
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<tr>
<td>Rated Capacity</td>
<td>750-lbs.</td>
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<tr>
<td>Min. Lift Height (in.)</td>
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<tr>
<td>Max. Lift Height (in.)</td>
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<tr>
<td>Aft Tilt Degree</td>
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<tr>
<td>Left Tilt Degree</td>
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<tr>
<td>Right Tilt Degree</td>
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<tr>
<td>Base L x W x h(in.)</td>
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</table>

Safe Operating Temperature is between 40°F – 105°F (4°C - 41°C)

GENERAL SAFETY RULES

⚠️ WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.

⚠️ CAUTION: Do not allow persons to operate or assemble this jack until they have read this manual and have developed a thorough understanding of how the jack works.

⚠️ WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS
IMPORTANT SAFETY CONSIDERATIONS

DO NOT OPERATE OR REPAIR THIS EQUIPMENT WITHOUT READING THIS MANUAL.

To maintain the Service Jack and user safety, the responsibility of the owner is to read and follow these instructions.
- Inspect the service jack for proper operation and function.
- Keep instructions readily available for equipment operators.
- Make certain all equipment operators are properly trained; understand how to safely and correctly operate the unit.
- Allow unit operation only with all parts in place and operating properly.
- Use only genuine replacement parts.
- Service and maintain the unit only with authorized or approved replacement parts; negligence will make the jack unsafe for use and void the warranty.
- Carefully inspect the unit on a regular basis and perform all maintenance as required.
- Store these instructions in the handle of your jack.
- Keep all decals on the unit clean and visible.

Safety
Always follow safety precautions when installing and operating this jack. Keep all decals on the unit clean and visible. Before proceeding ensure that you fully understand and comprehend the full contents of this manual. Failure to operate this equipment as directed may cause injury or death. The distributor is not responsible for any damages or injury caused by improper use or neglect.

⚠️ WARNING:

DO NOT USE wood blocks or any other non-approved load sustaining devices or any other non-approved lifting devices for a means of lifting with the jack and or load being raised. The manufacturer only warrants loads to be sustained by jack stands that meet current ASME standards. Failure to heed these warnings may cause injury or death.
SAFETY MARKINGS

⚠️ WARNING:

1. Study, understand, and follow all instructions before operating this device.
2. Do not exceed rated capacity.
3. Use only on hard, level surfaces.
4. Lifting device only. Immediately after lifting, support the marine engine with appropriate means.
5. Do not move or dolly the boat while on the jack.
6. Lift only on areas of the marine engine as specified by the marine engine manufacturer.
7. No alterations shall be made to this product.
8. Only attachments and/or adapters supplied by the manufacturer shall be used.
9. Do not get under or allow anyone under the marine engine until it has been supported with appropriate means.
10. Center load on saddle prior to lifting.
11. Use wheel chocks or other blocking device on opposing wheels before using jack.
12. Secure boat hull and trailer to ensure no shifting, movement, or tipping will occur when removing the marine engine.
13. Do not use this jack for any use other than the manufacturer specified usage.
14. Failure to heed these markings may result in personal injury and/or property damage.

⚠️ GENERAL SAFETY INSTRUCTIONS:

Position the Jack
Position the jack to only lift on the areas of the marine engine as specified by the manufacturer. After lifting the marine engine always support the load with appropriate means before working on the marine engine.

Do Not Overload Jack
Do not overload this jack beyond its rated capacity. Overloading this jack beyond its rated capacity can cause damage to or failure of the jack.

Always Use on Hard Level Surfaces
This jack is designed only for use on hard level surfaces capable of sustaining the load. Use on unstable or other possible loss of load.

Chock and Block (Stabilize)
Apply parking brake in vehicle before operating jack.
A chock is a wedge for steadying an object and holding it motionless, or for preventing the movement of a wheel
Chock the wheel opposite the end being lifted.
GENERAL SAFETY INSTRUCTIONS (continued):

When you block a load, you secure and support a load that is being lifted. The block(s) or stabilizer(s) should have a weight capacity that is greater than the weight of the load which is being lifted.

Center Load on Jack Saddle
Center load on jack saddle before lifting engine.
Off-center loads and loads lifted when the jack is not level can cause loss of load or damage to the jack.

Do not raise or lower the engine unless tools, materials and people are clear.
When the lift is being lowered, make sure everyone is standing at least six feet away. Be sure there are no tools or equipment left under or around the jack before lowering.

Always lower the jack slowly.

DO NOT USE THE JACK TO SUPPORT OR STABILIZE A LOAD.
Using the jack to support or stabilize a load may result in unexpected movement and result in serious injury, being crushed and death. Always securely chock and block (stabilize) the load to be lifted. Never place any part of the body under a raised load without properly chocking and supporting the load.

Never use the jack on curved or tubular bumper
Do not jack curved bumpers this will result in a boat slipping off the jack and falling, causing serious injury or death. Use a bumper lift to lift most vehicles with curved bumpers or plastic bumpers.

Wear ANSI-approved safety glasses and heavy-duty work gloves during use.

Do not adjust the safety valve.

Do not move or dolly boat while jack is in use.

Stay alert. Use caution and common sense when operating jack. Do not use a jack when tired, incoherent, dizzy, under the use or drugs or alcohol.

Training
Read this manual before use. Do not allow anyone who has not read this manual, and/or does not understand the requirements, use the jack.

Spectators
Do not allow bystanders around the jack or under the load supported only by the jack. -Do not allow anyone in the boat while the jack is in use. Keep all bystanders away from boat when in use.

Operators
Not for use by children or people with reduced mental capacity. Not for use under the influence of drugs or alcohol.

Inspection
Inspect the jack carefully before each use. Ensure the jack is not damaged, excessively worn, or missing parts. -Do not use the jack unless it is properly lubricated. -Using a jack that is not in good clean working condition or properly lubricated may cause serious injury.
GENERAL SAFETY INSTRUCTIONS (continued):

Additional Notes:
Save the receipt, warranty and these instructions.
Do not modify the jack in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment. There are specific applications for which the jack was designed.
Always check for damaged or worn out parts before using the jack. Broken parts will affect the equipment operation. Replace or repair damaged or worn parts immediately.
When jack is not in use, store it in a secure place out of the reach of children. Inspect it for good working condition prior to storage and before re-use.

ASSEMBLY

1. Familiarize yourself with the jack.
2. Prior to assembly, carefully remove the retaining clip attached to the handle socket.
   CAUTION: The socket will tend to spring upward when the clip is removed. To prevent possible injury, place one hand on the top of handle socket to control the upward motion of the handle socket retaining clip, and then carefully remove the retaining clip. After removed slowly allow handle socket to raise back into resting position.
3. Take off the screw located on handle piece 1; Attach handle pieces 1 and 2 making sure to align the holes on both sections. Reinsert the screw and tighten.
4. Unfasten the screw located in the Handle Socket to insert the assembled handle.
5. Line up the square whole located at the bottom of the handle over the square bolt inside the Handle Socket.
6. Secure the handle in place by tightening the screw in the Handle Socket Without any weight on the jack. Cycle the lift up and down several times to insure the hydraulic system is operating properly. (Perform to the Air Purge Procedure before first use.)

CAUTION:
Do not lift or carry jack by handle. Handle could dislodge and jack may fall, resulting in possible injury or property damage.
SYSTEM AIR PURGE PROCEDURE

IMPORTANT: BEFORE FIRST USE
Perform the following Air Purge Procedure to remove any air that may have been introduced into the hydraulic system as a result of product shipment and handling. This step is to be completed without any weight on the jack.

1. Turn release valve counter-clockwise one full turn to the open position.
2. Rapidly pump the handle 6-8 times. Leave handle in down position to expose oil fill plug.
3. With a flat blade screwdriver, push the oil fill plug slightly to the side to purge trapped air from system. (Use caution not to tear or puncture the oil plug.)
4. Turn release valve clockwise to the closed position.
   Jack is now ready for use. Check for proper pump action.

BEFORE USE

SAFETY INSTRUCTIONS

⚠️ WARNING:
Study, understand and follow all warnings and instructions before using this stand. Do not exceed rated capacity. Use only on hard, level surfaces capable of sustaining the load. Tighten and adjustment all mechanisms before applying the load. Be sure load is centered and secured before applying load to dolly. Off center loads may make the load rotate in either direction, use caution or care to make sure load is secure before releasing or moving parts. Move dolly slowly and carefully to avoid instability of part. Do not attempt to move the loaded dolly across a floor having cracks or other obstacles that could impede movement. Never work directly under a supported load. Visually inspect stand for damage before use. Check for cracked welds, bent metal and loose, damaged or missing parts. Check and that the pump operates smoothly before putting into service. Inspect before each use. Do not use if bent, broken or cracked components are noted. Do not overload. Lifting device only. Immediately after lifting, support the marine engine with appropriate means. Use only attachment and adapters supplied and approved by the manufacturer. Do not make any alterations to this product. Failure to heed the warnings may result in personal injury, property damage and/or death.
RAISING THE JACK

1. Block the boat's wheels for lifting stability. Secure the load to prevent inadvertent shifting and movement.
2. Position the jack near desired lift point.
3. Refer to the boat manufacturer owner's manual to locate approved lifting points on the engine. Position the jack so that the saddle is centered and will contact the load lifting point firmly.
4. Assemble the handle, ensure to align with slots.
5. Close the release valve by turning it clockwise until it is firmly closed.
6. Before raising the load double check and verify the saddles are centered and also has full contact with the lifting point.
7. Check that the saddles contact the support points of the outboard marine engine. Adjust the upper frame to make it parallel with the supporting point of the outboard marine engine. Do so by adjusting the 3 adjustment screws for the saddle.

WARNING (STEPS 9 to 14)

8. Check that marine engine and saddles have been properly restrained before removing attachment hardware on marine engine to boat and before lifting.
9. Pump handle to lift until saddle contacts load. Continue to pump the jack handle to lift the to the desired height. After lifting, support the load with an appropriately rated support stand before working on the marine engine.
10. Carefully and slowly remove marine engine from boat using caution to verify engine is kept parallel with the ground at all times. Use only on hard, level surfaces.
11. Use extreme caution when transporting marine engine. Marine engines are top heavy and can tip very easily.
12. Support by appropriate means after removal of marine engine is complete.
13. Verify with the marine engine manufacturer for proper anchor points, proper lifting points, and how engine should be transported. Manufacturer is not responsible for any personal injury and/or property damage when installing, removing, or transporting boat marine engine.
RAISING THE JACK (continued)

⚠️ CAUTION: NEVER WIRE, CLAMP OR OTHERWISE DISABLE THE LIFT CONTROL VALVE TO FUCTION BY ANY MEANS OTHER THAN BY USING THE OPERATOR'S HAND. USE THE HANDLE PROVIDED WITH THIS PRODUCT OR AN AUTHORIZED REPLACEMENT HANDLE TO ENSURE PROPER RELEASE VALVE OPERATION. DO NOT USE EXTENSIONS ON THE OPERATING HANDLE.

LOWERING THE JACK
1. Raise load high enough to allow clearance for the jack stands to be removed, then carefully remove jack stands.
2. Remove support stands.
3. Grasp the handle firmly with both hands. Securely hold on to the jack handle so your hands do not slip and ensure the release valve does not rapidly lower.
4. Carefully open the Release Valve by slowly turning the handle counter-clockwise. Do not allow bystanders around the jack or under the load when lowering the jack.
5. After removing jack from under the load, keep jack in the lowered position to reduce exposure to rust and contamination.

⚠️ WARNING USE EXTREME CAUTION WHEN LOWERING THE JACK. THE JACK HANDLE MAY TURN RAPIDLY. OPENING THE RELEASE VALVE TOO FAST CAN CAUSE THE JACK TO LOWER RAPIDLY. FAILURE TO HEED THESE WARNINGS COULD CAUSE SERIOUS INJURY OR DEATH.
MAINTENANCE INSTRUCTIONS

If you use and maintain your equipment properly, it will give you many years of service. Follow the maintenance instructions carefully to keep your equipment in good working condition. Never perform any maintenance on the equipment while it is under a load.

Inspection
You should inspect the product for damage, wear, broken or missing parts (e.g.: pins) and that all components function before each use. Follow lubrication and storage instructions for optimum product performance.

Binding
If the product binds while under a load, use equipment with equal or a larger load capacity to lower the load safely to the ground. After un-binding; clean, lubricate and test that equipment is working properly. Rusty components, dirt, or worn parts can be causes of binding. Clean and lubricate the equipment as indicated in the lubrication section. Test the equipment by lifting without a load. If the binding continues, contact Customer Service.

Cleaning
If the moving parts of the equipment are obstructed, use cleaning solvent or another good degreaser to clean the equipment. Remove any existing rust, with a penetrating lubricant.

Lubrication
This equipment will not operate safely without proper lubrication. Using the equipment without proper lubrication will result in poor performance and damage to the equipment. Some parts in this equipment are not self-lubricating inspect the equipment before use and lubricate when necessary. After cleaning, lubricate the equipment using light penetrating oil or lubricating spray.

Use a good lubricant on all moving parts.

For light duty use, lubrication is needed once a month.

For heavy and constant use, lubrication is recommended every week.

NEVER USE SANDPAPER OR ABRASSIVE MATERIAL ON THESE SURFACES!

Rust Prevention:
Check rams and pump plungers on the power unit assemblies daily for any signs of rust or corrosion.

Without a load lift the equipment as high as it goes and look under and behind the lifting points. If signs of rust are visible clean as needed.

Grease Fittings
Some models contain grease fittings that will regularly need to be greased and lubricated.

How the Jack Operates
With release valve closed, an upward stroke of the jack handle draws oil from the reservoir tank into the plunger cavity. Hydraulic pressure holds the valve closed, which keeps the oil in the plunger cavity. A downward stroke of the jack handle releases oil into the cylinder, which forces the ram out. This raises the saddle. When the ram reaches maximum extension, oil is bypassed back into the reservoir to prevent an over extended ram stroke and possible damage to the jack. Opening the release valve allows oil to flow back into reservoir. This releases hydraulic pressure on the ram, which results in lowering the saddle.

Storing the Jack
1. Lower the Lifting Arm.
2. Place the handle in the upright position.
3. Store in a dry location, recommended indoors.

Note: If the jack is stored outdoors, be sure to lubricate all parts before and after use to ensure the jack stays in good working condition.
TO ADD JACK OIL:

1. Position the jack on level ground and lower the saddle.
2. Remove the oil plug.
3. Fill the oil case until oil level is just beneath the lower rim of the oil fill hole.
4. Replace oil plug.
5. Perform the Air Purge Procedure.

TO REPLACE JACK OIL:

1. Position the jack on level ground and lower the saddle.
2. Open release valve by turning handle counter-clockwise.
3. Remove the oil fill plug.
4. Turn the jack on its side to drain old oil from the oil fill hole.
5. Position the jack on level ground and keep saddle in the lowered position. Fill the oil case until oil level is just beneath the lower rim. Keep dirt and other foreign materials clear when pouring.
6. Replace oil plug.

⚠️ ADDITIONAL WARNINGS:

- **DO NOT USE MOTOR OIL IN THE JACK.**
- **ONLY USE ANTI-FOAMING JACK OIL.**
- **ALWAYS USE A GOOD GRADE HYDRAULIC JACK OIL.**
- **DO NOT USE HYDRAULIC BRAKE FLUID, ALCOHOL, GLYCERINE, DETERGENT, MOTOR OIL OR DIRTY OIL.**
- **USE OF A NON-RECOMMENDED FLUID CAN CAUSE DAMAGE TO A JACK.**
- **AVOID MIXING DIFFERENT TYPES OF FLUID AND NEVER USE BRAKE FLUID, TURBINE OIL, TRANSMISSION FLUID, MOTOR OIL OR GLYCERIN. IMPROPER FLUID CAN CAUSE PREMATURE FAILURE OF THE JACK AND THE POTENTIAL FOR SUDDEN AND IMMEDIATE LOSS OF LOAD.**
- **DISPOSE OF HYDRAULIC FLUID IN ACCORDANCE WITH LOCAL REGULATIONS.**

**ADDITIONAL LUBRICATION:**

1. Periodically check the pump piston and ram for signs of rust or corrosion. Clean as needed and wipe with an oil cloth. NEVER USE SANDPAPER OR ABRASIVE MATERIAL ON THESE SURFACES!
2. When not in use, store the jack with pump piston and ram fully retracted.
## ASSEMBLY PARTS LIST

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<tr>
<th>Item No</th>
<th>Description</th>
<th>Part Number</th>
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<tr>
<td>15</td>
<td>Linking Block 1</td>
<td>TXJ1001-052</td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td>Linking Block 2</td>
<td>TXJ1001-053</td>
<td>2</td>
</tr>
<tr>
<td>17</td>
<td>Sleeve</td>
<td>TXJ1001-054</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>Cone point set screws M6X8mm</td>
<td>TXJ1001-055</td>
<td>2</td>
</tr>
</tbody>
</table>
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Jack Will Not Lift Load</th>
<th>Jack Will Not Hold Load</th>
<th>Jack Will Not Lower</th>
<th>Poor Jack Lifting</th>
<th>Will Not Lift to Full Extension</th>
<th>Causes and Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td>Release valve is not completely closed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Turn handle clockwise).</td>
</tr>
<tr>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Weight Capacity Exceeded.</td>
</tr>
<tr>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Air is in the hydraulics.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Purge air from system.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
<td>Low oil level. Add oil as required.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oil reservoir is overfilled:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Drain excessive oil.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lubricate moving parts.</td>
</tr>
<tr>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Jack is binding or foreign obstruction</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
<td>Power unit malfunctioning.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Replace the power unit.</td>
</tr>
</tbody>
</table>

Safe Operating Temperature is between 40°F – 105°F (4°C - 41°C)
REPLACEMENT PARTS

Consumers for replacement parts and technical questions call us Monday – Friday between 8am and 5:00pm EST at 1-888-448-6746.
www.torinjacks.com

Please contact our Customer Service Department with any questions you may have concerning parts, use, or maintenance. Not all equipment components are available for replacement, but are illustrated as a convenient reference of location and position in the assembly sequence. Contact Customer Service for equivalent component. When you contact us, please have your Product’s Model number, Serial Number and Description ready so that we may help you efficiently. This information can be found on a sticker on the product.

The manufacturer or distributor reserves the right to make design changes and or improvements to product lines and manuals without notice.

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This warranty does not cover damage or defects caused by improper use, careless use or abuse of the equipment. This warranty does not cover parts normally considered to wear out or be consumed in the normal operation of the equipment.
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