Owner's Manual
High Lift Transmission Jack

Model
RHO-7425

Capacity
700 lbs.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards.
Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠️ ADVERTENCIA
• Leer, comprender, y seguir las instrucciones antes de utilizar el aparato.
• El manual de instrucciones y la información de seguridad deben estar comunicado en lengua del operador antes del uso.
• No seguir estas indicaciones puede causar daños personales o materiales.

⚠️ WARNING
To avoid crushing and related injuries:
NEVER work on, under or around a load supported only by a hydraulic jack. Transfer the load immediately to a suitable workstation!

Atd Tools Inc.
160 Enterprise Drive, Wentzville, MO 63385

Read this manual and follow all the Safety Rules and Operating Instructions before using this product.

Printed in China
RHO7425-M1 rev 02/08
SAFETY and GENERAL INFORMATION
Save these instructions. For your safety, read, understand, and follow the information provided with and on this jack before using. The owner and operator of this equipment shall have an understanding of this jack and safe operating procedures before attempting to use. The owner and operator shall be aware that use and repair of this product may require special skills and knowledge. Instructions and safety information shall be conveyed in the operator’s native language before use of this jack is authorized. If any doubt exists as to the safe and proper use of this jack, remove from service immediately.

Inspect before each use. Do not use if broken, bent, cracked or damaged parts are noted. Any jack that appears damaged in any way, or operates abnormally shall be removed from service immediately. If the jack has been or suspected to have been subjected to a shock load (a load dropped suddenly, unexpectedly upon it), immediately discontinue use until jack has been checked by a factory authorized service center (contact distributor or manufacturer for list of authorized service centers). It is recommended that an annual inspection be done by qualified personnel. Labels and Operator’s Manuals are available from manufacturer.

PRODUCT DESCRIPTION
This Hydraulic Transmission Jack is designed to be used as an aid in the removal and installation of automotive and light truck transmissions, transfer cases and transaxles. This jack is for use under a properly secured, overhead lift or a garage pit.

Never use this jack as a work station!

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Base Size (L x W )</th>
<th>Hydraulic Lift</th>
<th>Minimum Height</th>
<th>Maximum Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHO-7425</td>
<td>700 lbs.</td>
<td>36-1/8&quot; X 32-5/8&quot;</td>
<td>19-1/8&quot;</td>
<td>57-1/4&quot;</td>
<td>76-3/8&quot;</td>
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</tbody>
</table>

Figure 1- RHO-7425 Nomenclature
PREPARATION
Assembly
Refer to Figure 1 & 2:
1. Attach the base halves (#1) to the upright post (#2), then secure using bolt rods, washers and M12 nuts (#3, 4 & 5) provided.
2. Attach all four casters (#6) to the base halves (#1) using the washers and M12 nuts (#4 & 5) provided.
3. Place hydraulic unit (#7) on top of the upright post (#2) and secure with M10x25 bolts and washers (#8 & 9).
4. Attach saddle assembly (#10) above the ram of hydraulic unit (#7) using pin and spring pin (#11 & 12).
5. Attach all four bracket supports (#13) onto the saddle plate with bolts, flat washers and wing nuts (#14, 15, & 15a).
6. Attach saddle brackets (#16) to bracket support (#13) with provided nuts (#17).
7. Finally, attach chains (#18) with bolts, flat washers, and nuts (#19, 20, & 15a).

Ensure all fasteners are secure before use.

Before Use
1. Verify that the product and application are compatible, if in doubt call Atd Tools Technical Service (636) 327-9050.
2. Before using this product, read the operator’s manual completely and familiarize yourself thoroughly with the product, its components and recognize the hazards associated with its use.
3. To familiarize yourself with basic operation of the jack, locate and turn release valve lever:
   a. Clockwise until firm resistance is felt to further turning. This is the ‘CLOSED’ release valve position used to raise the saddle.
   b. Counter-clockwise, but no more than 2 turns from the closed position. This is the ‘OPEN’ release valve position used to lower the saddle.
4. With saddle fully lowered, remove the oil filler plug. Insert handle into handle socket and pump 6 to 8 full strokes. Check oil level. Proper oil level is just below the rim of the opening of the oil filler plug hole. Reinstall the oil filler plug.
5. Ensure that jack rolls freely. Raise and lower the unloaded saddle throughout the lifting range before putting into service to ensure the pump operates smoothly. Replace worn or damaged parts and assemblies with Atd Tools authorized replacement parts only.

Bleeding / Venting Trapped Air
With the release valve in the OPEN position (3b.) and with saddle fully lowered, locate and remove the oil filler plug. Pump 6 to 8 full strokes. This will help release any pressurized air which may be trapped within the reservoir. Reinstall the oil filler plug.
OPERATION (see Fig. 1, 2, 3)

Raise Saddle Assembly
1. Locate and close release valve by turning lever clockwise firmly, then pump the handle until the load is contacted.
2. Follow vehicle manufacturers recommended procedures for removing the transmission, transfer case or transaxle as outlined in vehicle service manual or repair guide.
3. Secure load with provided chains.

Ensure the transmission is centered on the jack. An off-center load could cause the jack to tip over resulting in personal injury or property damage.

Lower Saddle Assembly
Be sure all tools and personnel are clear before lowering load. Slowly open the release valve! The more you turn the knob counter-clockwise, the faster the load will come down. Maintain control of the rate of speed at which the load lowers at all times!
1. Secure the load to the jack with provided chain.
2. Slowly, gently, turn release valve counter-clockwise to lower load, but no more than 2 full turns until load is fully lowered.
3. Immediately transfer the load to an appropriate repair fixture.

WARNING
To avoid crushing and related injuries:
NEVER work on, under or around a load supported only by a hydraulic jack. Transfer the load immediately to a suitable workstation!

ADVERTENCIA
• Leer, comprender, y seguir las instrucciones antes de utilizar el aparato.
• El manual de instrucciones y la información de seguridad deben estar comunicado en lengua del operador antes del uso.
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MAINTENANCE

Important: Use only good grade hydraulic jack oil. 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. We recommend Mobil DTE 13M or equivalent.

Adding oil
1. With saddle fully lowered set jack in its upright, level position. Remove oil filler plug.
2. Fill with oil until level with oil filler hole. Reinstall the oil filler plug.

Changing oil
For best performance and longest life, replace the complete fluid supply at least once per year.
1. With saddle fully lowered, remove the oil filler plug.
2. Lay the jack on its side and drain the fluid into a suitable container.
3. Fill with oil until level with oil filler plug hole. Reinstall oil filler plug.
Note. Dispose of hydraulic fluid in accordance with local regulations.

Lubrication
A periodic coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that wheels, casters and pump assemblies move freely.

Cleaning
Periodically check the pump piston and ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

Note: Never use sandpaper or abrasive material on these surfaces!

Storage
When not in use, store the jack with saddle and handle socket fully lowered.

TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Causes</th>
<th>Corrective Action</th>
</tr>
</thead>
</table>
| Jack will not lift load        | • Release valve not tightly closed  
                               | • Load is too heavy                       | • Ensure release valve tightly closed        
                               | • Ensure proper fluid level           | • Consider a higher capacity jack         |
| Jack will lift, but not maintain pressure | • Release valve not tightly closed  
                               | • Hydraulic unit malfunction           | • Ensure release valve tightly closed        
                               | • Drain fluid to proper level        | • Discontinue use, contact Atd Tools     
                               | • Clean and lubricate moving parts   | technical service                        |
| Jack will not lower after unloading | • Reservoir overfilled            | • Ensure proper fluid level                   |
                               | • Linkages binding                 | • With ram fully retracted, remove            |
                               | • Fluid level low                  | oil filler plug to let pressurized air          |
                               |                                  | escape. Reinstall oil filler plug            |
| Poor lift performance         | • Fluid level low                 | • Ensure proper fluid level                   |
                               | • Air trapped in system            | • With ram fully retracted, remove            |
                               |                                  | oil filler plug to let pressurized air        |
                               |                                  | escape. Reinstall oil filler plug            |
| Will not lift to full extension | • Fluid level low                 | • Ensure proper fluid level                   |
REPLACEMENT PARTS
Not all components of the jack are replacement items, but are illustrated as a convenient reference of location and position in
the assembly sequence. When ordering parts, give model number, serial number and description below. Call or write for current
pricing: Atd Tools Inc. 160 Enterprise Drive, Wentzville, MO 63385. Tel:(636)327-9050   Fax:(636)327-9044

Model RHO-7425

<table>
<thead>
<tr>
<th>Item</th>
<th>Part#</th>
<th>Description</th>
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<th>Item</th>
<th>Part#</th>
<th>Description</th>
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<td>Bolt Assy.</td>
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<td>Hydraulic Unit</td>
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<td>Tilt Screw</td>
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<td>BL80-20000-000</td>
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Figure 3- RHO-7425 Replacement Parts
90 DAYS LIMITED WARRANTY

For a period of ninety (90) days from date of purchase, Atd Tools Inc. will repair or replace, at its option, without charge, any of its products, which fails due to a defect in material or workmanship under normal usage. This limited warranty is a consumer's exclusive remedy.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to Atd Tools Inc. Warranty Service Department, 160 Enterprise Drive, Wentzville, MO 63385.

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