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## MODEL 72701 1 TON CAPACITY AIR/HYD. UNDER HOIST TRUCK TRANS. JACK **SETUP • OPERATING • MAINTENANCE INSTRUCTIONS**

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### **IMPORTANT: READ THESE INSTRUCTIONS BEFORE OPERATING**

**BEFORE USING THIS JACK, READ THIS MANUAL COMPLETELY AND THOROUGHLY, UNDERSTAND ITS OPERATING PROCEDURES, SAFETY WARNINGS AND MAINTENANCE REQUIREMENTS. FAILURE TO DO SO COULD CAUSE ACCIDENTS RESULTING IN SERIOUS OR FATAL PERSONAL INJURY AND/OR PROPERTY DAMAGE.**

The use of portable automotive lifting devices is subject to certain hazards that cannot be prevented by mechanical means, but only by the exercise of intelligence, care, and common sense. It is therefore essential to have owners and personnel involved in the use and operation of equipment who are careful, competent, trained, and qualified in the safe operation of the equipment and its proper use. Examples of hazards are dropping, tipping, or slipping of motor vehicles or their components caused primarily by improperly securing loads, overloading, off-centered loads, use on

other than hard level surfaces, and using equipment for a purpose for which it was not designed.

It is the responsibility of the owner to make sure all personnel read this manual prior to using this device. It is also the responsibility of the device owner to keep this manual intact and in a convenient location for all to see and read. If the manual is lost or not legible, contact Norco Industries, Inc. for a free replacement. If the operator is not fluent in English, the product and safety instructions shall be read to and discussed with the operator in the operator's native language by the purchaser/ owner or his designee, making sure that the operator comprehends its contents.

#### **WARRANTY**

This floor service jack is covered by a Limited Lifetime Warranty. For details see the back cover of Norco's product catalog.

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### **⚠ WARNING**

- **DO NOT operate the foot pump after the ram has reached its full extension! This may cause over-pressurization of the hose and fittings causing fluid leakage.**
  - Adequately support the vehicle before starting repairs. Consult the in-ground or above-ground lift manufacturer for the recommended support procedure and under hoist support stand locating points.
  - Support the engine with a stand before unbolting the transmission from the engine.
  - Inspect the jack before each use. Do not use the jack if it is damaged, altered, modified, in poor condition, leaking hydraulic fluid or unstable due to loose or missing hardware. Take corrective action before using the jack.
  - Do not use jack beyond its rated capacity. Do not lift or support the vehicle with this jack.
  - Use only on a hard level surface.
  - Be sure setup is stable and secure. Use this jack only with adapters and load restraints provided by Norco. Use of this jack is limited to the removal, installation and transportation (in the lowered position) of transmissions and transfer cases. Center load on saddle. Consult the vehicle manufacturer for the transmission's center of balance. Off-center loads can cause jack failure and/or loss of load.
  - No alterations shall be made to this jack and use only with factory approved adapters.
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### **SETUP**

1. Refer to the exploded view parts drawing for identification, location and position of parts.
2. The air/hydraulic foot pump is equipped with a red reservoir fill plug that prevents oil from leaking out of the pump during shipment. The red fill plug must be replaced with the black vented fill plug before using the jack.
3. The chain and hook are provided in order to secure the transmission to the saddle assembly. The end of the chain should be anchored to the side of the saddle. The restraint system (chain and hook assembly) may be adjusted according to the specific transmission configuration.
4. Sometimes air gets trapped in the hydraulic cylinder of the jack.

An air bound cylinder feels spongy when pumped and sometimes the jack will raise in large increments instead of raising smoothly.

#### **PURGING AIR FROM THE HYDRAULIC SYSTEM**

- a. Press down on the "pump" end of the pedal on the air/hydraulic foot pump with one hand while simultaneously depressing the button located under the "release" end of the pedal with a finger of the other hand. Hold this position for 10 to 15 seconds and then release both hand and finger.
- b. Now depress the "pump" end of the pedal with your foot and raise the jack to maximum height.

If the condition seems better, repeat steps "a" and "b" until air is purged from the system.

## OPERATING INSTRUCTIONS

### 1. **IMPORTANT: Become familiar with the pedal operation of the air/hydraulic foot pump before using the jack under load.**

Depressing the foot pedal end marked "Pump" raises the jack. To raise the jack a small distance it is necessary to use incremental taps of your foot on the foot pedal until the jack reaches the desired height. Lowering the jack is accomplished by depressing the foot pedal end marked "Release". The pump is equipped with a two speed release mechanism. Gently depressing the foot pedal end marked "Release" lowers the jack slower than if you depress the pedal all the way down. If you want to lower the load slower than the slow speed release, use gentle incremental taps of your foot on the "Release" pedal.

2. Lift the vehicle to the desired work height and support the vehicle in accordance with the lift manufacturer's recommended support procedure and the warnings given in this manual.

3. Use an under hoist stand rated greater than the weight of the engine to support the engine before unbolting the transmission from the engine.

4. Position the transmission jack directly under the transmission. Depress the foot pedal end marked "Pump" in order to raise the saddle to a height very close to the center of balance point of the transmission but do not touch the transmission.

5. Loosen the four bolts that secure the four extension arms to

the saddle. The extension arms are formed in an "L" so that one arm of the "L" is longer than the other. The extension arms can be adjusted in and out to help position the transmission on the saddle. You must determine whether you want to use the long or short arm of the "L" shaped extension arms. Now gently raise the saddle so it supports the transmission. Adjust the four extension arms in position against the transmission and tighten the four bolts that secure the arms to the saddle. Fore and aft saddle tilt adjustments are sometimes necessary to properly position the transmission on the saddle. Side to side tilt positioning may be necessary for the same reason and can be accomplished by activating the side to side tilt knob.

6. The hook end of the chain should be pulled over the center of balance portion of the transmission and secured to the saddle base. Rotate the hook adjustment to take up the slack in the chain and secure the transmission to the saddle.

7. Remove the transmission from the engine according to instructions in the vehicle service manual.

8. Once the transmission has been disconnected from the engine, very slowly depress the "Release" foot pedal to make sure the jack's saddle and transmission do not hang up on any undertruck components, wiring, fuel lines, etc. Continue to lower the jack all the way down.

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## PREVENTATIVE MAINTENANCE

1. Always store the jack in a well protected area where it will not be exposed to inclement weather, corrosive vapors, abrasive dust, or any other harmful elements. The jack must be cleaned of water, snow, sand, or grit before using.

2. Lubricate moving parts once a month with a general purpose grease.

3. It should not be necessary to refill or top off the reservoir with hydraulic fluid unless there is an external leak. An external leak requires immediate repair which must be performed in a dirt-free environment by qualified hydraulic repair personnel who are familiar with this equipment. Norco Authorized Service Centers are recommended. **IMPORTANT: In order to prevent seal damage and jack failure, never use alcohol, hydraulic brake fluid, or transmission oil in the jack.**

4. Every jack owner is responsible for keeping the jack label clean and readable. Use a mild soap solution to wash external surfaces of the jack but not any moving hydraulic components. Contact Norco Industries for a replacement label if your jack's label is unreadable.

5. Inspect the jack before each use. Do not use the jack if any component is cracked, broken, bent, shows sign of damage, or leaks hydraulic fluid. Do not use the jack if it has loose or missing hardware or components, or is modified in any way. Take corrective action before using the jack again.

6. Do not attempt to make any hydraulic repairs unless you are a qualified hydraulic repair person that is familiar with this equipment.

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## REPAIR SERVICE

If your Norco product requires service or repair, contact the Norco Customer Service Department for the location of the nearest Norco Authorized Service Center.

Norco Industries, Inc.  
365 West Victoria St.  
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(310) 639-4000 • Fax: (310) 639-7411  
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It will be necessary to provide the Norco Authorized Service Center with a copy of the bill of sale if requesting warranty repair. If the authorized service center determines your product is eligible for warranty repair, the repair will be made at no charge and returned freight prepaid. The cost of non-warrantable service, repair, and return freight is the customer's responsibility.