



MODEL 81036 1 TON CAPACITY UNDER HOIST HYDRAULIC JACK **SETUP • OPERATING • MAINTENANCE INSTRUCTIONS**

Note: Revision letters (A, B, C, D etc.) after model numbers have been omitted as they do not affect the setup, operating and maintenance instructions of a particular jack unless otherwise noted.

IMPORTANT: READ THESE INSTRUCTIONS BEFORE OPERATING

BEFORE USING THIS DEVICE, 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 product is covered by a Limited Lifetime Warranty. For details see the back cover of Norco's product catalog.

⚠ WARNING

- This jack is intended to lift, lower or support vehicle components under the vehicle. Do not use to support or stabilize a vehicle.
 - Do not exceed rated capacity.
 - Center load on saddle. Do not use saddle's locating lugs to support the load.
 - Do not shock load.
 - Make sure the detent pin is fully engaged before load is applied to jack.
 - Inspect the jack before each use. Do not use the jack if it is damaged, excessively worn, altered, modified or in poor condition. Take corrective action before using the jack.
 - Adequately support the vehicle before starting repairs.
 - Before supporting the vehicle component with this jack refer to the vehicle's service manual or inquire from the vehicle manufacturer the recommended under hoist jack support surface(s) on the vehicle component.
 - Be sure vehicle, vehicle component and under hoist jack setup are stable.
 - Use only on a hard level surface.
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SETUP

1. The bottom of the lifting tube includes a hex head bolt which must be backed off so the minor diameter of the jack ram can slide into the bottom of the lifting tube. Place the round jack base flat on the floor. Slide the lifting tube over the ram and secure them in place by tightening the hex head bolt.
2. A detent pin is connected to the top of the lifting column by way of a wire lanyard. Install the detent pin in the hole on the telescopic saddle tube closest to the saddle. Allow the exposed ends of the detent pin to rest on the lifting tube.
3. Sometimes air gets trapped in the hydraulic system during shipment. An air bound hydraulic system feels spongy when pumped and sometimes the jack will not pump in full incremental strokes.

PURGING AIR FROM THE HYDRAULIC SYSTEM

- a. The release valve is activated by stepping on the foot treadle. Stepping on the right of the treadle closes the release valve for pumping and stepping on the left of the treadle opens the release valve for lowering the load. Step on the left of the treadle while simultaneously using one hand to pump the foot pedal about ten full strokes.
- b. Release your foot from the foot treadle and pump the jack until the ram is extended to maximum height.
- c. If the condition remains, repeat steps "a" and "b" until all the air is purged from the system.

OPERATING INSTRUCTIONS

1. Make sure the vehicle is stable and is at the proper work height before positioning the under hoist jack.
2. Consult the lift and/or vehicle manufacturer for the proper positioning of the under hoist jack.
3. Become familiar with the operation of the jack. The saddle can be lifted close to the vehicle component. Disengage the detent pin that locates the saddle tube on the lifting tube. Using one hand, raise the saddle tube so the saddle is close to the vehicle component and then install the detent pin in the saddle tube hole closest to the top edge of the lifting tube.
4. Pumping the jack will raise the saddle the additional distance required to make contact with the vehicle component. The release valve foot treadle is spring loaded and normally in the closed position for pumping. You can tap slightly on the right side of the foot treadle to make sure it is closed. **IMPORTANT:** Excessive

force applied to the release valve foot treadle is not necessary for opening and closing the release valve and will damage the release valve shaft. The pump pedal can now be activated to raise the saddle. **IMPORTANT:** Remember that the jack is designed to lift, lower or support vehicle components. Continuing to pump the jack will add pressure against the vehicle component. Do not exert excessive force against the vehicle component as it might cause the vehicle or component to become unstable.

5. Make sure the vehicle component is secured to the vehicle before lowering the jack. The jack can be lowered by stepping on the left side of the release valve foot treadle. Maintaining pressure on the foot treadle will lower the saddle to its lowest position. If foot pressure is released from the left side of the release valve foot treadle, the release valve will close off and the saddle will not lower.

PREVENTATIVE MAINTENANCE

1. Always store the jack in a well protected area where it will not be exposed to inclement weather or any harmful elements. The jack must be cleaned of water, snow, sand, or grit before using.
2. The jack must be lubricated periodically in order to prevent premature wearing of parts or rusting. A general purpose grease must be applied to the axle, wheels and pump linkage. Do not lubricate the ram, pump piston and saddle. Make sure that no lubrication or grease comes in contact with the saddle. Always inspect the saddle prior to use and remove any traces of a substance that could cause saddle slippage.

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

4. Inspect the jack before each use. Do not use the jack if it is cracked, broken, bent, shows signs of thread damage, has loose or missing hardware, or is altered or modified in any way. Take corrective action before using the jack again.

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.

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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.