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## MODEL 82990 10 TON & 82992 15 TON CAPACITY PORTABLE AIR LIFT 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.

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### 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.

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### **WARNING**

- Visual inspection shall be made before each use of the portable automotive lifting device by checking for abnormal conditions, such as cracked welds, excessive wear, leaks, and damaged, loose, or missing parts. The device shall be removed from service until repaired by a Norco Authorized Service Center if the visual inspection reveals any problems.
- A device which is believed to have been subjected to an abnormal load or shock should be inspected by a Norco Authorized Service Center.
- Owners and/or operators are responsible for having the device annually inspected by a Norco Authorized Service Center and any defective parts, decals, or safety labels must be replaced with Norco's specified parts. Contact the Norco Customer Service Office for the location of the closest Norco Authorized Service Center.
- Only trained operators should use this jack. It is the owner's responsibility to make sure all trained personnel read and understand the product label and this instruction sheet prior to using the jack.
- Because of potential hazards associated with this type of device, no alterations or modifications shall be made to it and no attachments and/or adapters shall be used unless supplied by Norco.
- Before lifting a load, refer to the vehicle's service manual or inquire from the vehicle manufacturer the recommended jack lifting points and jack stand support surfaces on the vehicle chassis or components.
- This jack was designed for lifting purposes and sometimes can be used to support the load immediately after it is lifted. If the jack is used to support the load, two jacks must be used in accordance with step 8 of the Operating Instructions section of this manual. If the jack is not used to support the load immediately after lifting, use two jack stands in accordance with step 7 of the Operating Instructions section of this manual.
- Do not exceed rated capacity. Lift only dead weight.
- Do not exceed 200 P.S.I. input air pressure.
- Center the load on the saddle.
- Use only on hard, level surface.
- During lifting, inspect the position of the jack and its saddle in relationship to the vehicle to prevent any unstable conditions from developing. If conditions look like they are becoming unstable, slowly lower the load and make the appropriate setup corrections after the load is fully lowered.

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### SETUP

1. Refer to the exploded view parts drawing for identification, location and position of parts.
2. Insert the handle in the jack's handle receiver and secure it to the jack with the bolt and locknut provided. Make sure the hose holders on the handle are facing up.
3. Install the quick disconnect of your choice in the air valve.
4. The air hose can be looped around the hose holders on the handle for storage.

## OPERATING INSTRUCTIONS

1. Become familiar with the two position air valve. Depressing the air valve lever closest to where the shop air hose is connected to the valve will raise the ram for lifting. Depressing the air valve lever in the opposite direction will lower the load.

2. **IMPORTANT:** Before lifting load, become familiar with the use of the jack's ram tube, saddle tube, extension tube and pins provided. While jack is pressurized a sudden loss of load will cause ram tube, saddle tube and/or extension tube to rise with sufficient force to cause severe personal injury and/or property damage. One pin is used for positioning the extension tube or the saddle tube in the ram at the desired height. The pin should be put through the desired hole in the extension tube or saddle tube leaving enough pin exposure on either side for the pin to rest in the half cutout holes in the top edge of the ram tube.

3. With the jack in the lowered position, push the jack under the vehicle. **IMPORTANT:** Use the manufacturer's recommended lifting procedures and lifting points before lifting loads. Position the jack at the designated lift point. Estimate the required ram travel to raise the vehicle to the desired height. If the desired vehicle height exceeds the entire ram travel, adjust the saddle and/or ram tube(s) to make up the difference.

4. Chock the vehicle's tires that will not be lifted off the ground prior to lifting the vehicle and if available, apply the emergency brake or any other method of braking.

5. Depress the air valve lever to raise the saddle close to the designated lift point. Make sure the designated lift point is flat, parallel to the ground and free from grease, any kind of lubricant, or debris. Do not use the saddle's locating lugs to lift or support the load.

6. It will be necessary to use an input air pressure of 172 P.S.I. (82990) or 186 P.S.I. (82992) to achieve the full lifting capacity. Once the saddle is properly aligned with the designated lift point proceed to lift the vehicle to the desired height. During lifting, inspect the position of the jack in relation to the ground and the saddle in relationship to the load to prevent any unstable conditions from developing. If conditions look like they are becoming unstable, slowly lower the load and make appropriate setup corrections after the load is fully lowered.

7. When the vehicle is lifted to its desired height, immediately place jack stands in the designated locations recommended by the vehicle manufacturer to support the load. Adjust the stands' support columns up as close to the designated vehicle support points as possible. Although jack stands are individually rated, they are to be used in a matched pair to support one end of a vehicle only. Stands are not to be used to simultaneously support both ends or one side of a vehicle. Depress the air valve very slowly to gently and slowly lower the vehicle onto the jack stands. Make sure the vehicle is safely supported by the jack stands' saddles and not the locating lugs of the saddles. Inspect the relationship of the jack stands with the ground and the jack stand columns and saddles with the vehicle to prevent any unstable conditions. If the conditions look unstable, depress the air valve very slightly to gently and slowly raise the vehicle off the jack stands. Make the appropriate setup changes and slowly and carefully lower the vehicle onto the jack stand saddles.

8. In some situations, this jack can be used as a jack stand but should be used in a matched pair to support one end of a vehicle only. Jacks used as jack stands are not to be used to simultaneously support both ends or one side of a vehicle. In order to use this jack as a jack stand, the second pin provided should be put through the ram tube leaving enough pin exposed on either side of the ram tube to rest on top of the cylinder sleeve when the air is slowly released for lowering. The air in the cylinder should be completely released when the pin is resting on the cylinder sleeve. Regardless of using this jack for lifting purposes or jack stand purposes, make sure the setup is stable. If the jacks are used in pairs, it is important to remember the lifting of the load is not synchronized and the operator should be very careful to lift one jack at a time in reasonably short increments to prevent unstable conditions.

9. After work is done, depress the air valve to raise the vehicle just high enough to clear the jack stand saddles. Be sure load is stable. If it is not, lower the load back onto the jack stands. Make appropriate setup corrections and repeat the step again. Remove the jack stands from under the vehicle being very careful not to move the vehicle. After the jack stands are removed, very slowly and carefully lower the vehicle down to the ground.

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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. The jack must be lubricated periodically in order to prevent premature wearing of parts. A general purpose grease must be applied to the axle where the wheels rotate and a very thin coat on the ram. Do not lubricate any portion of the lift saddle and make sure the saddle is free from grease, any kind of lubricant, or debris before using the jack.

3. An air 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.

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 components. Contact Norco Industries for a replacement label if your jack's label is not readable.

5. Inspect the jack before each use. Do not use the jack if any component is cracked, broken, bent, shows signs of damage, or leaks air. 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 repairs unless you are a qualified 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.  
Compton, CA 90220  
(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.