MODEL 94-642 SERVICE JACK
(2 TON - SERIES "D")

OWNER/OPERATOR MANUAL

SPECIFICATIONS

RATED LOAD CAPACITY 4000 LBS
LOW PICKUP HEIGHT 5"
HIGH LIFTING POINT 19-5/8"
LIFT CAP DIAM. 5-3/4"
HANDLE LENGTH 40-1/2"
FRONT WHEEL DIAM. 3-1/2"

DESCRIPTION

Model 94-642 is a manually operated jack designed for automotive, construction, industrial, and agricultural lifting jobs. If used to lift a vehicle/load, the vehicle/load must be supported by vehicle stands or other appropriate support.

OWNER/OPERATOR RESPONSIBILITY

It is the owner/operator responsibility to properly use and maintain this equipment.

The instructions and warnings contained in this manual shall be read and understood by the owner/operator prior to operating this equipment.

If an owner/operator does not understand English, the contents of this manual shall be explained in the owner/operator native language to assure the owner/operator comprehends.

ASSEMBLY

Assemble jack handle to jack frame as follows:

A. Apply a light coat of chassis grease to jack handle socket (242661).

B. Insert jack handle lower half (242658) into jack handle socket (242661).

C. Install handle bolt (242657).

D. Insert jack handle upper half (242659) into jack handle lower half (242658).

E. Install hex head screw (242660).

OPERATION

BEFORE USING JACK

Prior to operation a visual jack inspection shall be made. Check for bent or worn parts, hydraulic leaks, damaged, loose or missing parts.

Check jack operation by closing release valve and pumping jack handle. If jack responds immediately to pump action, it is ready to use. If not, refer to TROUBLESHOOTING and perform PURGING AIR FROM JACK procedure.

If jack is damaged, badly worn, or operates abnormally it shall be removed from service. Contact a factory authorized service center for repair.

If the jack has been subjected to an abnormal load or shock, the jack shall be inspected by a factory authorized service center.

An annual jack inspection is recommended to be performed by a factory authorized service center.
USING JACK

A. If raising a vehicle, set the parking brakes and block the vehicle wheels.
B. Using jack handle, firmly close release valve by turning clockwise.
C. Position jack under desired vehicle/load lifting point specified by the manufacturer.
D. Pump jack handle and raise the vehicle/load to desired height.
E. Install vehicle stands or other appropriate support under the vehicle/load. Do not crawl under vehicle/load.
F. Carefully lower vehicle/load onto vehicle stands or support.

REMOVING JACK

A. Using jack handle, make sure release valve is closed by turning clockwise.
B. Pump jack handle and raise vehicle/load just enough to clear vehicle stands or support.
C. Remove vehicle stands or support from under vehicle/load. Do not crawl under vehicle/load.
D. Using jack handle, slowly open release valve by turning counterclockwise and slowly lower vehicle/load.
E. When vehicle/load is fully lowered, remove jack from under vehicle/load.

MAINTENANCE

CHECKING HYDRAULIC OIL LEVEL

A. Open release valve and push ram to its lowest position.
B. Remove filler plug.
C. Fill reservoir to bottom of filler plug hole with clean hydraulic jack oil. Do not overfill.
D. Reinstall filler plug.
LUBRICATION
Lubricate jack as follows:
A. Clean jack as required before applying lubricant.
B. Apply grease to jack handle socket opening.
C. Apply oil to wheel axles and castle bearings.
D. Apply oil to saddle and linkage moving parts.
E. Apply oil to handle socket pivot bolts.
F. Apply grease to plunger and plunger pins.
TROUBLESHOOTING
If the following procedures do not correct the problem, contact a factory authorized service center. When submitting a jack or equipment to be repaired, be sure to state the nature of the problem.
PURGING AIR FROM JACK
As with any hydraulic unit, the jack may occasionally become air bound due to being tipped over during shipment or handling. To purge air from jack hydraulic circuit, perform the following procedure:
A. Open release valve one full turn counterclockwise.
B. Pump jack handle at least 6 full strokes to purge air from the pump.
C. Close the release valve.
D. Pump jack handle until jack is fully extended.
E. Continue to pump slowly several times to purge air from the ram.
F. Open release valve and allow jack to retract fully.
G. Close the release valve.

H. Check the pump action. If jack does not respond, repeat the above procedures several times until air is purged from the jack.

COMMON PROBLEMS

JACK WILL NOT LIFT TO FULL HEIGHT.
- Oil level low. Perform CHECKING HYDRAULIC OIL LEVEL procedure.

JACK WILL NOT HOLD LOAD.
- Release valve not closed or not sealing. Repair may be required.
- Dirt in hydraulic oil or pump ball valves not seating. Flush hydraulic circuit by closing release valve and pumping jack to maximum height. Open release valve and quickly lower jack by manually pushing on lift cap. Repeat if necessary. If this procedure does not correct the problem, internal repairs are required.

LIFTING ARM WILL NOT LOWER PROPERLY
- Broken return spring. Replace part required.
- Lift arm bearings binding. Perform LUBRICATION procedure and lubricate lift arms.
- Hydraulic cylinder ram binding. Repair required.
- Lifting arms, spindles, pins bent or worn. Repair required.

JACK FEELS SPONGY WHEN LIFTING LOAD.
- Air in hydraulic system. Perform PURGING AIR FROM JACK procedure.

REPAIR
Repair is limited to replacement of listed service parts. Special procedures and tools are required. If the jack requires repair, contact a factory authorized service center.
SERVICE PARTS

<table>
<thead>
<tr>
<th>PART</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>PART</th>
<th>QTY</th>
<th>DESCRIPTION</th>
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<tr>
<td>242637</td>
<td>2</td>
<td>Caster Assembly</td>
<td>242652</td>
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<td>Gear Shaft</td>
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<td>242638</td>
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<td>Locknut</td>
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<td>Wheel</td>
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<td>Washer (Axle)</td>
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<td>Retaining Ring</td>
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<td>Power Unit Assembly</td>
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<td>242643</td>
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<td>Socket Head Cap Screw</td>
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<td>Split Lockwasher</td>
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<td>Saddle</td>
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<td>Block Link (Ram)</td>
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<td>Return Spring</td>
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<td>Torsion Spring</td>
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<td>Plunger Pin</td>
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<td><strong>Obsolete</strong></td>
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**J1N94-642000D0**
LIMITED WARRANTY

Lincoln, A Pentair Company, warrants that jacks and related service equipment manufactured by it will be free from defects in material and workmanship during the ninety (90) days following the date of purchase. This warranty is extended to the original retailer purchaser only. If a jack or related service equipment proves to be defective during this warranty period, it will be repaired or replaced without charge. To obtain repair or replacement, it must be shipped, transportation charges prepaid, with proof of date of purchase, to a Lincoln authorized Warranty and Service Center, within the ninety (90) days following the date of purchase. This warranty does not apply to parts damaged from accident, overload, or abuse, nor does it apply to any equipment which has been altered or used with special attachments other than those recommended by Lincoln. No other express warranty applies to jacks and related service equipment manufactured by Lincoln.

ANY IMPLIED WARRANTIES applicable to jacks and related service equipment manufactured by Lincoln, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR NINETY (90) DAYS FROM THE DATE OF PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

In no event shall Lincoln be liable for incidental or consequential damages. The liability of Lincoln on any claim or damage arising out of the sale, resale, or use of a jack or related service equipment shall in no event exceed the purchase price. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.