HANDLE ASSEMBLY

1. PLACE LOWER HANDLE END ON SOLID SMOOTH SURFACE.
2. INSERT HANDLE SEGMENT INTO LOWER HANDLE.
3. ALIGN HOLES AND INSERT SMALL END OF TAPERED PIN.
4. TAP PIN LIGHTLY TO ALIGN HOLES. CHECK ALIGNMENT ON OPPOSITE SIDE.
5. HAMMER PIN UNTIL END OF PIN IS FLUSH WITH HANDLE.
6. REPEAT PROCEDURE WITH UPPER HANDLE.
7. INSERT LOWER HANDLE END INTO HANDLE SOCKET.
8. TIGHTEN SCREW TO SECURE HANDLE.

ATTENTION - VENT SCREW IS CLOSED FOR SHIPPING. OPEN ONE TURN BEFORE USE. CONSULT OWNERS MANUAL FOR FURTHER INSTRUCTIONS.
SPECIFICATIONS
Rated Load Capacity ............... 4000 lbs.
Low Pick-up Height ................ 3 3/4 inches
High Lifting Point ................. 20 inches
Lift Cap (Square) ................. 6 3/4 inches
Handle Length ..................... 50 inches
Front Wheel Diameter ............. 3 3/4 inches
Caster Wheel Diameter .......... 2 1/2 inches
Weight ................................ 90 lbs.

DESCRIPTION
Model 93642 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's 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.

It is the owner/operator's responsibility to maintain the legibility of all warning and instruction labels.

The owner/operator shall retain this manual for future reference to important warnings, operating and maintenance instructions.

ASSEMBLY
The jack is completely assembled except for the handle assembly.

Assemble jack handle to jack frame as follows:

A. Apply a light coat of chassis grease to jack handle socket (239310).
B. Loosen hex head screw (234956).
C. Insert jack handle (234968) into jack handle socket (239310).
D. Tighten hex head screw (234956).

WARNING
FAILURE TO HEED THE FOLLOWING INSTRUCTIONS MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.

• Do not exceed rated capacity.
• Use only as a lifting device. Do not use to support a load or vehicle.
• Use jack on hard level surfaces.
• Center load on lift cap.
• Use vehicle stands or appropriate support after lifting a vehicle/load.
• Lift only at locations specified by the manufacturer.
• Do not crawl under a vehicle/load when placing stands or support.
• Lower a vehicle/load slowly.
• Do not use to dolly a vehicle.
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.

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. Make sure lift cap lugs and cup grip vehicle/load points and jack wheels are free to roll while lifting. Reposition jack if vehicle/load pulls lift arm sideways.

E. Install vehicle stands or other appropriate support under the vehicle/load. DO NOT CRAWL UNDER VEHICLE/LOAD.

F. Carefully lower vehicle/load on to 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. Jack wheels must be free to roll while lifting.

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.

CHECKING HYDRAULIC OIL LEVEL

A. Open release valve and allow jack to fully retract.

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. Hand tighten only.

LUBRICATION

All jack linkages and moving joints require frequent lubrication. Any chassis grease and motor oil can be used. Lubricate jack as follows:

A. Clean jack as required before applying lubricant.

B. Remove handle and apply grease to jack handle socket opening.

C. Use a grease gun to grease the lift arm fulcrum pin through the grease fitting.

D. Apply oil to the pump roller and handle socket side plate pivot pins.

E. Apply oil to all lift arm linkages, universal joint, front wheels and rear casters bearings.

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:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Open release valve one full turn counterclockwise.</td>
</tr>
<tr>
<td>B.</td>
<td>Pump jack handle at least 6 full strokes to purge air from the pump.</td>
</tr>
<tr>
<td>C.</td>
<td>Close the release valve.</td>
</tr>
<tr>
<td>D.</td>
<td>Pump jack handle until jack is fully extended.</td>
</tr>
<tr>
<td>E.</td>
<td>Continue to pump slowly several times to purge air from the ram.</td>
</tr>
<tr>
<td>F.</td>
<td>Open release valve and allow jack to retract fully.</td>
</tr>
<tr>
<td>G.</td>
<td>Close the release valve.</td>
</tr>
<tr>
<td>H.</td>
<td>Check the pump action. If jack does not respond, repeat the above procedures several times until air is purged from the jack.</td>
</tr>
</tbody>
</table>

### 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 seating. 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. Replacement required.
- Lift arm bearings bind. Perform LUBRICATION procedure and lubricate lift arm.
- Hydraulic cylinder ram binding. Repair required.
- Lifting arms, spindles, pin bent or worn. Repair required.

**JACK FEELS SPONGY WHEN LIFTING LOAD**

- Air in hydraulic system. Perform PURGING AIR procedure.

### REPAIR

Repair is limited to replacement of fender and service parts. Special procedures and tools are required. If the jack requires repair, contact a factory authorized service center.
**DO NOT ADJUST**
Safety valve is factory set. If adjustment or repair is required, return jack to nearest Authorized Warranty and Service Center.

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**SECTION B-B**

**239333 HYDRAULIC UNIT ASSEMBLY**

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**NOTE**
Apply light coating of Locktite Gasket Eliminator® 515 or equivalent to ends of tank before assembling tank nut.

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**Table: Pump & Cylinder Assembly and Serviceable Components**

<table>
<thead>
<tr>
<th>Part</th>
<th>Qty</th>
<th>Description</th>
<th>Part</th>
<th>Qty</th>
<th>Description</th>
</tr>
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<td>Suction screen</td>
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<td>201733</td>
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<td>Expansion plug</td>
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<td>Nut</td>
<td>226334</td>
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<td>Washer</td>
<td>226351</td>
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<td>Rubber washer</td>
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<td>Release valve &amp; plug</td>
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<td>Gasket</td>
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<td>U-cup packing</td>
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<tr>
<td>211014</td>
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<td>Discharge spacer</td>
<td>231638</td>
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<tr>
<td>212689</td>
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<td>Bolt</td>
<td>235917</td>
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<td>212908</td>
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<td>O-ring</td>
<td>234666</td>
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<td>Ram</td>
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<tr>
<td>216043</td>
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<td>Valve</td>
<td>234667</td>
<td>1</td>
<td>Ram assembly</td>
</tr>
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* Included in 240530 Seal Repair Kit.
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 one (1) year 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 one (1) year 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 ONE (1) YEAR 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 damages 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.