MODEL WS-II
Part Code 65546 — 2 Ton (1814 Kg.) Capacity

INSTRUCTION MANUAL
REPAIR PARTS LIST

WARNING

1. THIS IS A LIFTING DEVICE ONLY. LOAD MUST BE SUPPORTED BY OTHER APPROPRIATE MEANS BEFORE GETTING UNDER VEHICLE FOR ANY REASON.
2. DO NOT OVERLOAD. OVERLOADING CAN CAUSE DAMAGE TO OR FAILURE OF THE JACK.
3. THIS JACK IS DESIGNED FOR USE ONLY ON HARD LEVEL SURFACES CAPABLE OF SUSTAINING THE LOAD. USE ON OTHER THAN HARD LEVEL SURFACES CAN RESULT IN JACK INSTABILITY AND POSSIBLE LOSS OF LOAD.
4. FAILURE TO HEED THESE WARNINGS MAY RESULT IN LOSS OF LOAD, DAMAGE TO JACK AND/OR FAILURE RESULTING IN PERSONAL INJURY OR PROPERTY DAMAGE.

OWNER’S RESPONSIBILITY

Operation. The owner and/or operator shall have an understanding of these operating instructions and warnings before operating the jack. Warning information shall be emphasized and understood. If the user is not fluent in English, the instructions and warnings shall be read to and discussed with the operator in the operator’s native language by the purchaser/owner, making sure that the operator comprehends its contents.

Maintenance. The jack shall be maintained in accordance with instructions listed under "Maintenance."

Inspection
1. Visual inspection shall be made before each use of the jack, checking for leaking hydraulic fluid, and damaged, loose or missing parts.
2. Each jack, if subjected to an abnormal load or shock, shall be inspected immediately by an authorized Hein-Werner service center.
3. Owners and/or users should be aware that repair of this equipment may require specialized knowledge and facilities. It is recommended that an annual inspection of the jack be made by an authorized Hein-Werner service center and that any defective parts, decals or warning labels be replaced with genuine Hein-Werner parts. A list of authorized service centers is available from Hein-Werner.

Damaged Jacks. Any jack which appears to be damaged in any way, is found to be badly worn, or operates abnormally SHALL BE REMOVED FROM SERVICE until necessary repairs are made by an authorized Hein-Werner service center.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Part</th>
<th>Measurement</th>
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</thead>
<tbody>
<tr>
<td>Saddle low point</td>
<td>4-3/4&quot;</td>
</tr>
<tr>
<td>Saddle high point</td>
<td>20-1/4&quot;</td>
</tr>
<tr>
<td>Length of chassis</td>
<td>28-3/8&quot;</td>
</tr>
<tr>
<td>Length of handle</td>
<td>49-1/2&quot;</td>
</tr>
<tr>
<td>Overall length</td>
<td>72-3/8&quot;</td>
</tr>
<tr>
<td>Frame height</td>
<td>6&quot;</td>
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</table>

INSTRUCTIONS BEFORE USE

1. Squirt a small amount of hydraulic jack oil or light motor oil on the pump piston so it will run down inside the piston guide.
2. With release valve open, pump handle six full strokes to assure proper internal lubrication.
3. Thoroughly lubricate all moving parts of your jack. Raise the saddle to full height and oil the surface of the ram, as well as all moving parts in the handle and the lifting mechanism.
4. Grease the main pin at the fittings provided on the pivot end of the lifting arm.

OPERATION

1. Lifting - Turn knob at the end of the handle clockwise to close release valve. Center lift saddle under load and pump handle.

WARNING

USE JACK FOR LIFTING ONLY. ALWAYS SUPPORT VEHICLE WITH VEHICLE SUPPORT STANDS.

Always center the load on the saddle of your jack. Off-center loads and loads lifted while jack is not level may damage the jack or cause personal injury.

2. Lowering - Slowly turn release knob counterclockwise. Avoid "shock loads" created by quickly opening and closing the release knob as the load is being lowered. This may result in overloading of the hydraulic circuit and possible damage to the jack.
3. When jack is not in use, the handle should be in an upright position. Never leave it resting on the pump piston or at the bottom of a stroke. Saddle should be completely lowered and release knob closed.

MAINTENANCE

1. Use only genuine Hein-Werner hydraulic jack oil in the unit of your jack. Never use alcohol or hydraulic brake fluid. To check oil level, jack must be at rest, saddle down. Remove filler screw and inspect level. Oil should just cover the cylinder inside the reservoir.

THE OIL CAPACITY OF THIS JACK IS 8.5 OUNCES.

WARNING--Over or under-filling causes adverse jack performance. See Troubleshooting.

2. Keep the jack clean and well lubricated. Raise the saddle to full height and oil the surface of the ram often, as well as all moving parts in the handle, the pump piston and the lifting mechanism.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack won't lift load or full rated capacity</td>
<td>Release valve may not be tightly closed.</td>
<td>Jack may be low on oil. Remove filler screw and fill reservoir with clean Hein-Werner jack oil.</td>
</tr>
<tr>
<td>Jack lowers under load</td>
<td>Reservoir may be overfilled. Remove filler screw and drain excess oil.</td>
<td>Moving parts in the lifting arm mechanism may need lubrication.</td>
</tr>
<tr>
<td>Oil leaking from vented filler, screw, pump, or spongy handle raises or drops back under load</td>
<td>Jack will not lift full height</td>
<td>Jack may be airbound. Open the release valve and pump the handle several times. Close the release and operate. Repeat if necessary.</td>
</tr>
<tr>
<td>Jack will not lower completely</td>
<td>Valves may not be closing or have foreign matter present. To flush valves -- lower the lift arm and close the release valve. Place one foot on the front axle and lift the saddle several inches. Pump the handle until the saddle reaches it's full height. Then open release valve, and by stepping on the saddle, force the saddle to lower as rapidly as possible.</td>
<td>If the above procedures do not remedy the problem -- the jack will require service and should be taken to an Authorized Hein-Werner Service Center for repair.</td>
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## Warranty to Commercial Customers

Hein-Werner warrants its products to be free from defects in materials and workmanship for a period of 90 days from the date of original sale to user. Any product proved to Hein-Werner's satisfaction to be defective during that 90-day period will be repaired or replaced, at Hein-Werner's option, if returned to the nearest official service station, transportation charges prepaid. A full and complete explanation of the complaint, and proof of purchase date, must accompany the product. Hein-Werner's sole obligation and buyer's exclusive remedy under this warranty is limited to such repair or replacement.

**HEIN-WERNER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES INCLUDING BUT NOT LIMITED TO LOSS OR DAMAGE RESULTING FROM USE OR LOSS OF USE OF HEIN-WERNER PRODUCTS WHATSOEVER, WHETHER BASED ON BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE OR OTHER TORT, OR ANY STRICT LIABILITY THEORY.**

This warranty does not apply to products subjected to accident, damage by circumstances beyond Hein-Werner's control, improper operation, maintenance or storage, or to other than normal application, use or service.

**THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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