Manually-Operated Bottle Jack

OPERATING INSTRUCTIONS

Note: There may be some slight differences in the appearance of the various manually-operated bottle jacks, however the instructions in this manual apply to all of such jacks provided by Harbor Freight Tools.

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3491 Mission Oaks Blvd., Camarillo, CA 93011
Visit our website at: http://www.harborfreight.com

Read this material before using this product. Failure to do so can result in serious injury.
SAVE THIS MANUAL.

For technical questions or replacement parts, please call 1-800-444-3353.

Manual revised 081
SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product’s serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:

⚠️ This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠️ DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠️ WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠️ CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE is used to address practices not related to personal injury.

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

Safety Warnings

⚠️ WARNING Read all safety warnings and instructions. Failure to heed these markings may result in personal injury and/or property damage. Save all warnings and instructions for future reference.

1. Study, understand, and follow all instructions before operating this device.
2. Do not exceed rated capacity.
3. Use only on hard, level surfaces.
4. Lifting device only. Immediately after lifting, support the vehicle with appropriate means.
5. Do not adjust safety valve.
6. Wear ANSI-approved safety goggles and heavy-duty work gloves during use.
7. Keep clear of load while lifting and lowering.
8. Lower load slowly.
9. Do not use for aircraft purposes.
10. Apply parking brake and chock tires before lifting vehicle.
11. Lift vehicle only at manufacturer-recommended locations.
12. Inspect before every use; do not use if parts loose or damaged.

13. Keep your work area clean and well lit. Cluttered work areas invite accidents.

14. Keep bystanders, children, and visitors away while operating jack. Distractions can cause you to lose control. Protect others in the work area.

15. Stay alert. Watch what you are doing, and use common sense when operating a jack. Do not use a jack while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating jacks may result in serious personal injury.

16. Store idle jacks out of reach of children and other untrained persons. Jacks are dangerous in the hands of untrained users.

17. Jack service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

18. When servicing a jack, use only identical replacement parts - refer to attached, product-specific parts list and diagram. Follow instructions in the "Inspection, Maintenance, And Cleaning" section of this manual. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of injury.

19. Maintain labels and nameplates on the Jack. These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

20. Before use, read manufacturer’s instruction manual for the vehicle (or object) you will lift.

21. When lifting only one wheel, support the load immediately with one jack stand (not included) placed under the side of the vehicle being lifted. Align the saddle of the jack stand directly under the vehicle’s seam or recommended lifting point.

22. When lifting the entire front end or rear end of a vehicle, support the load immediately with two jack stands. Align the saddles of the jack stands directly under the vehicle’s frame or recommended lifting points. Also, adjust the jack stands to the same height.

23. Do not work under the vehicle without properly supporting the vehicle with jack stands.

24. Avoid dangerous oncoming traffic. Use the Jack as far away from the roadside as possible.

25. Industrial applications must follow OSHA requirements.

26. Do not allow anyone in the vehicle while using the Jack. Keep all bystanders a safe distance away from the vehicle.

27. Do not support both ends of the vehicle at the same time.

28. Before lowering the Jack, remove all tools and equipment from under the vehicle.

29. The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The
operator must understand that common sense and caution are factors, which cannot be built into this product, but must be supplied by the operator.

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**UNPACKING**

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

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**OPERATION**

**Bleeding**

1. Remove the Oil Filler Plug. Insert the slot on the lower portion of the Handle over the Valve Release Screw. Turn the Handle counterclockwise to open the Valve Release Screw.

2. Insert the Handle into the Plunger/Fulcrum Assembly. Apply pressure to the Saddle, and pump the Handle quickly several times.

3. Check the Oil Fill Hole and, if necessary, top off the Oil Fill Hole with hydraulic oil.

4. Replace the Oil Filler Plug.

5. Test the Jack several times for proper operation before attempting to lift a load. **If, after purging, the Jack still does not appear to be working properly, do not use the Jack until it has been repaired by a qualified service technician.**

**Lifting**

1. **WARNING!** Park vehicle on a flat, level, solid, ground surface safely away from oncoming traffic. Turn off the vehicle’s engine. Place the vehicle’s transmission in “PARK” (if automatic) or in its lowest gear (if manual). Set the vehicle’s emergency brake. Then, block the wheels that are not being lifted.

2. Insert the lower portion of the Handle into the Valve Release Screw, and...
turn the Handle *counterclockwise* to lower the Jack. Once the Jack is fully lowered, turn the Handle firmly *clockwise* to close the Valve Release Screw.

3. Carefully position the Saddle of the Jack under the vehicle manufacturer’s recommended lifting point. If equipped, the Elevating Screw can be used to alter the height of the jack’s saddle; it is adjusted by turning it clockwise or counterclockwise. (See vehicle manufacturer’s owner’s manual for location of *seam* lifting point when lifting only one wheel and *frame* lifting points when lifting the entire front or rear end of the vehicle.)

4. Pump the Handle until the top of the Jack’s Saddle has nearly reached the vehicle lifting point.

**Note:** The Jack should be positioned at 90° to the vehicle’s lifting point to ensure the Jack’s Saddle and vehicle lifting point are in alignment. If not, remove and reposition the Jack before lifting the vehicle.

5. To lift the vehicle, pump the Handle of the Jack. Use smooth, full strokes for best results.

6. Once the vehicle is raised, slide a jack stand of appropriate capacity (not included) to the proper lifting point referred to in the vehicle owner’s manual. If using two jack stands, position them at the same point on each side of the vehicle.

7. Center the vehicle’s lifting point(s) on the saddle of the jack stand(s). Set up the jack stand(s) according to the manufacturer’s instructions, making sure that they lock securely into position.

**Note:** If using two jack stands they must be at the same height.

8. Slowly turn the Handle *counterclockwise* to open the Valve Release Screw and lower the vehicle onto the saddle(s) of the jack stand(s). Then, turn the Upper/Lower Handle firmly *clockwise* to close the Valve Release Screw.

9. While standing safely aside, gently rock the vehicle to determine if it is stable on the jack stand(s). If it is not, raise the vehicle, and reposition the jack stand(s). **WARNING!** *When performing this procedure be prepared and stand clear of the vehicle, as the vehicle can fall off the jack stand(s) causing personal injury and/or property damage.*

### Lowering

1. Remove all tools, parts, etc. from under the vehicle.

2. Position the Saddle under the lifting point. Turn the Handle firmly *clockwise* to close the Valve Release Screw, and pump the Upper/Lower Handle to raise the vehicle slightly above the saddle(s) of the jack stands. Then, collapse and remove jack stand(s).
3. **Slowly** turn the Handle *counterclockwise* (never more than two full turns) to lower the vehicle onto the ground.

4. Lower the Jack completely. Then, store in a safe, dry location out of reach of children.

## INSPECTION, MAINTENANCE, AND CLEANING

Procedures not specifically explained in this manual must be performed only by a qualified technician.

**WARNING** TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

1. **Before each use**, inspect the general condition of the Jack. Check for broken, cracked, or bent parts, loose or missing parts, and any condition that may affect the proper operation of the product. If a problem occurs, have the problem corrected before further use.

   **Do not use damaged equipment.**

2. **Before each use**, thoroughly test the Jack for proper operation prior to its actual use. If the Jack appears *not* to be working properly, follow *Bleeding* instructions on page 5.

3. Change the hydraulic oil at least once every three years:

   a. With the Jack fully lowered, remove the Oil Filler Plug on the side of the Housing.

   b. Tip the Jack to allow the old hydraulic oil to drain out of the Housing completely, and dispose of the old hydraulic oil in accordance with local regulations.

   c. With the Jack upright, completely fill the Housing with a high quality hydraulic oil (not included) until the oil just begins to run out of the Oil Fill Hole.

   d. Then, reinstall the Oil Filler Plug.

4. Clean with a clean cloth with a detergent or mild solvent. Then, store the Jack in a safe, dry location out of reach of children and other non-authorized people.
For technical questions, please call 1-800-444-3353.

### Trouble shooting

**Possible Symptoms**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack will not lift to its weight</td>
<td>Check that Release Valve is closed fully.</td>
</tr>
<tr>
<td>Saddle lowers under load</td>
<td>Check that Release Valve is closed fully.</td>
</tr>
<tr>
<td>Pump stroke feels spongy</td>
<td>Check that Release Valve is closed fully.</td>
</tr>
<tr>
<td>Saddle will not lift all the way</td>
<td>Vales may be blocked and may not close.</td>
</tr>
<tr>
<td>Handle moves up when jack is under load</td>
<td>Vales may be blocked and may not close.</td>
</tr>
<tr>
<td>Oil leaking from filler plug</td>
<td>Jack may require bleeding - see instructions.</td>
</tr>
<tr>
<td>Unit may have too much hydraulic oil inside</td>
<td>Jack may require bleeding - see instructions.</td>
</tr>
</tbody>
</table>

**Troubleshooting**

1. Lower the Saddle and securely close the Release Valve. To flush the valves:
   1. Open the Release Valve.
   2. Manually lift the Saddle several inches.
   3. Lower the Saddle and securely close the Release Valve.

**WARNING**

To Prevent Serious Injury:

- Use caution when troubleshooting a malfunctioning jack. Stay well clear of the supported load.

**DO NOT USE A DAMAGED OR MALFUNCTIONING JACK!**

Proper operation: Before returning the jack to operation, completely resolve all problems before use. If the solutions presented in the troubleshooting guide do not solve the problem, have a qualified technician inspect and repair the jack before use.

After the jack is repaired, test it carefully without a load by raising it and lowering it fully, checking for all the way.
LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight Capacity</td>
<td>20 Tons (40,000 Lbs.)</td>
</tr>
<tr>
<td>Maximum Height</td>
<td>16-5/16&quot;</td>
</tr>
<tr>
<td>Minimum Height</td>
<td>10-5/8&quot;</td>
</tr>
<tr>
<td>Base Dimensions</td>
<td>6-1/2&quot; x 6-1/4&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>28.8 Lbs.</td>
</tr>
</tbody>
</table>

### Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Q'ty</th>
<th>Part</th>
<th>Description</th>
<th>Q'ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Saddle</td>
<td>1</td>
<td>20</td>
<td>Ball 6</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Piston Rod</td>
<td>1</td>
<td>21</td>
<td>Base</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Nut</td>
<td>1</td>
<td>22</td>
<td>Bolt</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>O-Ring (Nut)</td>
<td>1</td>
<td>23</td>
<td>Washer (Pump)</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Seal</td>
<td>1</td>
<td>24</td>
<td>O-Ring (Pump)</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Piston</td>
<td>1</td>
<td>25</td>
<td>Packing</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Bowl Washer</td>
<td>1</td>
<td>26</td>
<td>Pump</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>O-Ring (Piston)</td>
<td>1</td>
<td>27</td>
<td>Seal</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Oil Fill Plug</td>
<td>1</td>
<td>28</td>
<td>O-Ring (Plunger)</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Cylinder</td>
<td>1</td>
<td>29</td>
<td>Back Ring</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Reservoir</td>
<td>1</td>
<td>30</td>
<td>Plunger</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>Seal</td>
<td>1</td>
<td>31</td>
<td>Spring Bolt</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>Base Plate Washer</td>
<td>1</td>
<td>32</td>
<td>Pin</td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>Ball Fender</td>
<td>1</td>
<td>33</td>
<td>Short Pin</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>Oil Filter</td>
<td>1</td>
<td>34</td>
<td>Link Plate</td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td>Handle Grip</td>
<td>1</td>
<td>35</td>
<td>Swing Socket</td>
<td>1</td>
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<tr>
<td>17</td>
<td>Pin D4x24</td>
<td>1</td>
<td>36</td>
<td>Handle (Front)</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>Release Valve</td>
<td>1</td>
<td>37</td>
<td>Handle (Middle)</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>Release Valve Seal</td>
<td>1</td>
<td>38</td>
<td>Handle (Back)</td>
<td>1</td>
</tr>
</tbody>
</table>

**NOTE:** Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

### PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

SKU 93436  
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