Owner’s Manual & Safety Instructions

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.

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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

<table>
<thead>
<tr>
<th>Pressure Scale</th>
<th>0 &lt;-&gt; 300 PSI / 0 &lt;-&gt; 20 BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Release Type</td>
<td>Push Button Release</td>
</tr>
<tr>
<td>Hose Fitting</td>
<td>M10, M12, M14, M18 (Male, With “O” Ring)</td>
</tr>
<tr>
<td>Hose Size</td>
<td>1/2” Diameter x 20” Long</td>
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</tbody>
</table>

**IMPORTANT SAFETY INFORMATION**

1. **Block drive wheels before use.**
   Set parking brake and put gear selector in neutral for manual transmission or park for automatic transmission. Risk of sudden vehicle movement!

2. **Read vehicle’s service manual before use.**

3. **Keep away from hot or moving engine parts.**

4. **Use with gasoline engines only.**
   Do not exceed gauge range.

5. **Secure connections before use.**

6. **Inspect before every use; do not use if parts loose or damaged.**

7. **Wear ANSI-approved safety goggles during use.**

8. **Use the Tester only in well-ventilated areas.**
   A running gasoline engine produces carbon monoxide. **Carbon monoxide is a colorless, odorless, gas that can cause serious injury or death.**

9. **Maintain labels and nameplates on the Compression Tester.**
   These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

10. **WARNING: The brass components of this product contain lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. (California Health & Safety Code § 25249.5, *et seq.*)**

11. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. Caution is necessary when near coil, spark plug cables, or distributor of running engine. Engine should be off during distributor adjustment.

12. 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.
Instructions

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this document before set up or use of this product.

NOTE: Performing a compression test requires the work of two individuals; one person to operate the vehicle’s ignition switch while the other person operates the Compression Tester.

1. Prepare the engine for compression testing by starting the engine and allowing it to warm up to its normal operating temperature. Then, switch off the ignition.
   WARNING! Avoid carbon monoxide poisoning! Never run a gasoline engine in an enclosed garage or other contained area.

2. Once the engine has been turned off, disconnect both coil wires from the coil of the engine. Insulate coil wires or route them away from each other and all metal surfaces.

3. Remove all of the spark plugs. Make note of which spark plug wires go to each spark plug locations.

4. Attach either the Adapter Fitting or Hose and Hose Fitting to the Gauge.

5. Connect the Compression Tester to the first cylinder of the engine. With the gas pedal pressed all the way down, crank the engine for at least eight revolutions.

6. While cranking the engine, observe the Gauge. Record the maximum reading.

7. After recording the maximum reading, stop cranking the engine. Then, release the air pressure in the Gauge by pressing the Air Release Button.

8. Remove the Compression Tester from the first engine cylinder. Then repeat Steps #5, #6, and #7 for the remaining engine cylinders.

NOTE: Good engine cylinder compression will be indicated with a high initial reading, and a progressive build-up to the final maximum reading. Poor engine cylinder compression will be indicated with a low initial reading, and a much slower build-up to the final maximum reading. The compression readings for all of the engine cylinders should not vary by more than 10%. Check service manual for acceptable pressure ranges.

Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gauge</td>
</tr>
<tr>
<td>2</td>
<td>Hose</td>
</tr>
<tr>
<td>3</td>
<td>Angled Adapter Fitting</td>
</tr>
<tr>
<td>4</td>
<td>Straight Adapter Fitting</td>
</tr>
<tr>
<td>5</td>
<td>M18 Hose Fitting</td>
</tr>
<tr>
<td>6</td>
<td>M14 Hose Fitting</td>
</tr>
<tr>
<td>7</td>
<td>M12 Hose Fitting</td>
</tr>
<tr>
<td>8</td>
<td>M10 Hose Fitting</td>
</tr>
</tbody>
</table>

Record Serial Number Here:___________

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed 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 LIST IN THIS DOCUMENT AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR 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.

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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.