PITTSBURGH AUTOMOTIVE

Master Fuel Injection Pressure Test Kit

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.

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

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Specifications

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<th>Pressure Scale</th>
<th>0–100 PSI / 0–700 kPa</th>
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<tr>
<td>Gauge Accuracy</td>
<td>± 2%</td>
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Important Safety Information

⚠️ WARNING ⚠️

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

1. **Stay Keep your work area clean and well lit.** Cluttered and dark work areas invite accidents.

2. **Stay alert.** Watch what you are doing, and use common sense when operating tools and equipment. Do not assemble or use this product while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating tools and equipment may result in serious personal injury.

3. **Wear eye protection.** Wear ANSI-approved safety impact glasses and full face shield when using this product.

4. **Do not force the Pressure Test Kit.** Use the correct product for your application. The correct product will do the job better and safer at the rate for which it is designed.

5. **Maintain the Pressure Test Kit with care.** Keep this product clean. Properly maintained products are less likely to malfunction. Do not use damaged products. Tag damaged products “Do not use” until repaired.

6. **Check for any condition that may negatively affect operation of the Pressure Test Kit.** If readings are inconsistent, or if it appears that the fuel gauge is not functioning properly, the Test Kit should be serviced by a qualified service technician. Many accidents are caused by poorly maintained products.

7. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one product may become hazardous when used on another product.

8. **Industrial applications must follow OSHA requirements.**

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

10. **Use the right product for the job.** There are certain applications for which this product was designed. Do not use small products to do the work of larger industrial products. Do not use this product for a purpose for which it was not intended.
11. **Product service must be performed only by qualified service technician.** Service or maintenance performed by unqualified personnel could result in a risk of injury.

12. **When servicing the Pressure Test Kit, use only identical replacement parts.** 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 personal injury.

13. **Always make sure the area of use for this product is clear of any children.** Do not allow children to play with this product.

14. **Do not allow the vehicle’s engine to run while using the Pressure Test Kit.** When running, the engine of a vehicle produces carbon monoxide, a colorless, odorless, toxic gas that, when inhaled, can cause serious personal injury or death.

15. **Prior to using this product, make sure to read and understand all instructions and safety precautions as outlined in the vehicle manufacturer’s manual.**

16. **Always keep hands and fingers away from the moving parts and hot parts of an engine.**

17. **Do not use this Pressure Test Kit on diesel fuel systems.**

18. **Do not smoke while performing any fuel injection tests or repairs.**

19. **Always have a dry chemical (Class B) fire extinguisher within reach.**

20. **Make sure to provide a suitable container to catch released fuel when the system is de-pressurized.**

21. **Take extra care to prevent fuel from contacting hot engine parts.** It is recommended that tests be performed when the engine is cold.

22. **If a drop light is used, do not allow fuel to contact the hot surface of the bulb.**

23. **Never remove any fittings with the engine running.**

24. **Never loosen any fittings or attempt to remove hoses of vehicle or Pressure Test Kit until you have relieved the fuel system pressure.** Refer to the vehicle manufacturer’s service manual for specific fuel pressure relief procedures.

25. **Always check all connections for leaks during the testing procedure.** At any sign of leaks, turn off the engine or disable the fuel pump. Clean up any spilled fuel and repair all leaks before resuming test.

26. **When preparing for pressure testing, make sure the vehicle’s transmission is placed in “PARK” or “NEUTRAL” and the emergency brake is applied.**

27. **When the test is complete, de-pressurize the system and remove the Pressure Test Kit.** Re-assemble the vehicle’s fuel line(s) to its original condition. Start the engine and check for leaks. If any leaks are present, stop the engine, relieve fuel pressure and repair all leaks. 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.
28. 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.

29. 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.)

30. WARNING: This product contains di (2-ethylhexyl) phthalate (DEHP), 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.)

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

⚠️ SAVE THESE INSTRUCTIONS.

### Applications

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<td>Connects to #8 for basic testing.</td>
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<td>General Motors® 2.5L &amp; 5.7L (Non Multi-Port)</td>
<td>For vehicles with quick connect fuel filters such as 2.5L Oldsmobile® Ciera 1989 &amp; up, and 5.7L Chevrolet® Caprice 1991 &amp; up.</td>
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<td>General Motors® 2.2L (Non Multi-Port)</td>
<td>1992 &amp; up: Chevrolet® Cavalier, Pontiac® Sunbird, Buick® Skylark, and Quad 4 equipped Pontiac® Grand Am.</td>
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<td>Parts</td>
<td>Seals, Tank Valve, and Gasket.</td>
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<td>Double End Barbed Hose Adapter</td>
<td>When vehicles require testing by splicing into 1/4&quot;, 5/16&quot;, or 3/8&quot; fuel line hose.</td>
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<td>8</td>
<td>Single End Barbed Hose Adapter</td>
<td>All vehicles requiring end of line testing with 1/4&quot;, 5/16&quot;, or 3/8&quot; fuel line hose.</td>
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<td>31</td>
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<td>For use in testing with Basic Gauge (1), Pressure Testing, and Bleed-off Assembly (25) and Adapters.</td>
<td></td>
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Typical Hook-ups

**GM® Multi-Port and Chrysler® Multi-Port:**

![Figure A]

1. Turn off the ignition.
2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
3. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).
4. Remove the protective cap from test fitting on vehicle.
5. Attach the swivel female fitting on the Adapter (27) to the test fitting on the vehicle. Hand tighten.
6. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick connector on the Adapter.
7. Start the engine and allow it to idle. Check for leaks.
8. Read the Gauge and compare the result with the pressure in service manual.
9. Stop engine and turn ignition OFF.
10. With free end of Bleed-Off Hose in suitable container, press the Button on side of bleed-off assembly slowly to de-pressurize the fuel system.
11. Refer to Safety Information before removing Tester from vehicle.
12. Replace the protective cap onto the test fitting on vehicle. Check for leaks.

**Ford® Multi-Port (EFI):**

![Figure B]

1. Turn off the ignition.
2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
3. If the vehicle has multi-port fuel injection, the test valve is located on the fuel rail. Remove the protective cap from the test valve.
4. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).
5. Attach the female end of the Ford® Adapter (26) to test the valve. Hand tighten.
6. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.
7. Start the engine and allow it to idle. Check for leaks.
8. Read the Gauge and compare result with pressure in service manual.
9. Stop engine and turn the ignition OFF.
10. With free end of Bleed-Off Hose in suitable container, press the button on side of bleed-off assembly slowly to de-pressurize the fuel system.
11. Refer to Safety Information before removing Tester from vehicle.

12. Replace the protective cap onto test fitting on vehicle. Check for leaks.

**Asian and European Multi-Port Vehicles (Bosch® AFC):**

6. Torque the Adapters to the following specifications:

<table>
<thead>
<tr>
<th>Adapter Number</th>
<th>Size</th>
<th>Torque Specifications</th>
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<tr>
<td>10</td>
<td>8 mm-1.00</td>
<td>48 In./Lb. (5.5 N-m)</td>
</tr>
<tr>
<td>11</td>
<td>10 mm-1.00</td>
<td>72 In./Lb. (8.0 N-m)</td>
</tr>
<tr>
<td>12</td>
<td>12 mm-1.25</td>
<td>96 In./Lb. (11.0 N-m)</td>
</tr>
<tr>
<td>13</td>
<td>12 mm-1.50</td>
<td>96 In./Lb. (11.0 N-m)</td>
</tr>
<tr>
<td>14</td>
<td>14 mm-1.50</td>
<td>125 In./Lb. (14.0 N-m)</td>
</tr>
</tbody>
</table>

7. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).

8. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the test Adapter.

9. Start the engine and allow it to idle. Check for leaks.

10. Read the Gauge and compare the result with pressure in the service manual.

11. Stop the engine and turn the ignition OFF.

12. With free end of Bleed-Off Hose in a suitable container, press the Button on side of bleed-off assembly slowly to de-pressurize the fuel system.

13. Refer to Safety Information before removing Tester from vehicle.

14. Remove the Tester and the pressure test Adapter.

15. Re-assemble the banjo fitting to the fuel inlet and fuel rail (or cold start injector). New Gaskets (6) should be used when re-assembling fuel lines. Check for leaks.

1. Turn off the ignition.

2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.

3. The pressure test connection for these vehicles is located at the point where the fuel inlet meets the fuel rail or cold start injector. The fuel inlet is secured to the fuel rail of cold start injector by a banjo fitting.

4. Remove the banjo fitting that secures the fuel inlet to the fuel rail or cold start injector. Place a shop cloth around the bolt to catch any spilled fuel.

5. Install one of the five pressure test Adapters (10, 11, 12, 13, 14) with the corresponding sealing washer and one of the gaskets from the banjo fitting so that the fuel inlet is once again connected to the fuel rail or cold start injector. The test Adapter will hold the banjo assembly in position.

Figure C
**GM® Throttle Body Injection (TBI) With Fuel Filter Threaded On Both Sides:**

1. Turn off the ignition.
2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
3. Locate the fuel filter on the vehicle.
4. Remove the fuel filter by unscrewing the fuel lines from both ends of the fuel filter. Use a container to catch any fuel that may spill out. Wipe off any excess fuel that may spill on the vehicle.
5. Install the GM® TBI Adapter (5) in place of the fuel filter by threading each fuel line into either end of the Adapter. Do not overtighten.
6. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).
7. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the GM® TBI Adapter.
8. Start the engine and check for leaks. Read the fuel pressure. Compare the value on the Gauge to the value in the service manual.
9. Stop the engine and turn the ignition OFF.
10. With free end of Bleed-Off Hose in a suitable container, press the Button on side of bleed-off assembly slowly to de-pressurize the fuel system.
11. Refer to Safety Information before removing Tester from vehicle.
12. Remove the fuel pressure Adapter following the above instructions for removing the fuel filter.
13. Re-install the fuel filter. Start the vehicle and check for leaks.

**GM® Throttle Body Injection (TBI) With Quick Connect Fuel Filter (2.5L 1989 And Up, 5.7L 1991 And Up):**

1. Turn off the ignition.
2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
3. Locate the fuel filter on the vehicle.
4. Remove the fuel filter by compressing the tabs while pulling outward on each fuel line. Use a container to catch any fuel that may spill out. Wipe off any excess fuel that may spill on the vehicle.
5. Install the fuel pressure Adapter (2) in place of the fuel filter by pushing each of the Adapter’s male tubes into the fuel lines. Make sure the nylon clips on the tubes are seated inside the fuel line connectors.
6. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).
7. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.

8. Start the engine and check for leaks. Read the fuel pressure. Compare the value on the Gauge to the value in the service manual.

9. Stop the engine and turn the ignition OFF.

10. With free end of Bleed-Off Hose in a suitable container, press Button on side of bleed-off assembly slowly to de-pressurize the fuel system.

11. Refer to Safety Information before removing Tester from vehicle.

12. Remove the fuel pressure Adapter following the above instructions for removing the fuel filter.

13. Re-install the fuel filter. Start the engine and check for leaks.

4. Remove the fuel filter by unscrewing the steel fuel line from one end of the fuel filter. Remove the nylon fuel line on the other end by compressing the tabs while pulling outward on the fuel line. Use a container to catch any fuel that may spill out. Wipe off any excess fuel that may spill out.

5. Install the fuel pressure Adapter (3) in place of the fuel filter by threading the steel fuel line into the threaded end of the Adapter. Do not overtighten. Connect the other end of the Adapter by pushing the male tube into the nylon fuel line. Make sure the nylon clip on the tube is seated inside the fuel line connector.

6. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).

7. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.

8. Start the engine and check for leaks. Read the fuel pressure. Compare the value on the Gauge to the value in the service manual.

9. Stop the engine and turn the ignition OFF.

10. With free end of Bleed-Off Hose in a suitable container, press Button on side of bleed-off assembly slowly to de-pressurize the fuel system.

11. Refer to Safety Information before removing Tester from vehicle.

12. Remove the fuel pressure Adapter following the above instructions for removing the fuel filter. Re-install the fuel filter. Start the engine and check for leaks.

**GM® 2.2L Engines, 1992 And Up:**

1. Turn off the ignition.

2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.

3. Locate the fuel filter on the vehicle.
1. Turn off the ignition.
2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
3. The connection with the vehicle’s fuel injection system is at the throttle body. Remove the fuel line at the inlet by prying up on the hair pin from the coupling with a small screwdriver. Use care as the hair pin is made of plastic. Once disconnected, re-install the hair pin into the hair pin coupling.
4. Attach the Hair Pin Adapter (28 for Ford® and 29 for GM® and Chrysler®) to the disconnected fuel line. Make sure both ends of mating parts are seated and locked together.
5. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25). Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter (28 or 29).
6. Start the engine and allow it to idle. Check all connections for leaks.
7. Read the Gauge and compare the result with the pressure values in the service manual.
8. Stop the engine and turn the ignition OFF.
9. With free end of Bleed-Off Hose in a suitable container, press button on side of bleed-off assembly slowly to de-pressurize the fuel system.
10. Refer to Safety Information before removing Tester from vehicle.
11. Remove the fuel pressure Adapter following the above instructions. Re-install the vehicle’s fuel line. Start the engine and check for leaks.
6. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25). Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.

7. Start the engine and allow it to idle. Check all connections for leaks.

8. Read the Gauge and compare the result with the pressure values in the service manual.

9. Stop the engine and turn the ignition OFF.

10. With free end of Bleed-Off Hose in a suitable container, press button on side of bleed-off assembly slowly to de-pressurize the fuel system. Refer to Safety Information before removing Tester from vehicle.

11. Using a disconnect tool, remove the test Adapter and install the vehicle’s fuel line. Start the vehicle and check for leaks.

12. Refer to Safety Information before removing tester from vehicle.

13. Re-install the hex bolt on the fuel filter. Check for leaks.

**Honda®, Acura®, & Sterling® Multi-Port (PGM-FI):**

![Figure I](image)

3. The test port is at the vehicle’s fuel filter, under the hood, just forward of the firewall.

4. The Fuel outlet is secured to the fuel filter by a “double D” bolt. Within this bolt is a smaller hex bolt that provides access to the test connection.

5. Place a shop cloth around the fuel outlet and slowly remove the smaller hex bolt.

6. Screw the small male end of the Honda® Adapter (9) into the hole where the removed hex bolt was. Hand tighten.

7. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25). Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.

8. Start the engine and allow it to idle. Check all connections for leaks.

9. Read the Gauge and compare the result with the pressure values in the service manual.

10. Stop the engine and turn the ignition OFF.

11. With free end of Bleed-Off Hose in a suitable container, press button on side of bleed-off assembly slowly to de-pressurize the fuel system.

12. Refer to Safety Information before removing tester from vehicle.

13. Re-install the hex bolt on the fuel filter. Check for leaks.

**Figure I**

1. Turn off the ignition.

2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
Ford® Throttle Body Injection
With Small Schrader® Valve:

Figure J

1. Turn off the ignition.
2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
3. Remove the air cleaner assembly. The test valve is located at the top of the throttle body unit.
4. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).
5. Attach the female end of the Ford® Adapter (26) to the test valve.
6. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.
7. Start the engine and allow it to idle. Check all connections for leaks.
8. Read the Gauge and compare the result with the pressure values in the service manual.
9. Stop the engine and turn the ignition OFF.
10. With free end of Bleed-Off Hose in a suitable container, press button on side of bleed-off assembly slowly to de-pressurize the fuel system. Refer to Safety Information before removing Tester from vehicle.
11. Start the vehicle and check for leaks.

All Vehicles With 1/4", 5/16", or 3/8" Fuel Line Hose:

Figure K

1. Turn off the ignition.
2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
3. Loosen the hose clamp and disconnect the fuel line hose from the inlet side of the vehicle’s throttle body or discharge side of the fuel pump.
4. Assemble the Double End Barbed Adapter (7) and Hose with Hose Clamps (4).
5. Connect the Double End Barbed Adapter as assembled above between the disconnected fuel line and the throttle body inlet or fuel pump. Tighten all Hose Clamps securely.
6. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).
7. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.
8. Start the engine and allow it to idle. Check all connections for leaks. Read the Gauge and compare the result with the pressure values in the service manual.
9. Stop the engine and turn the ignition OFF.
10. With free end of Bleed-Off Hose in a suitable container, press button on side of bleed-off assembly slowly to de-pressurize the fuel system.

11. Refer to Safety Information before removing Tester from vehicle.

12. Replace the vehicle’s fuel line and tighten all clamps securely. Check all connections for leaks.

**All Vehicles Requiring End Of Line Testing With 1/4”, 5/16”, Or 3/8” Fuel Line Hose:**

1. Turn off the ignition.

2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.

3. Loosen the hose clamp and disconnect the fuel line.

4. Install the Single End Barbed Hose Adapter (8) into the fuel supply hose. Tighten hose clamp securely.

5. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).

6. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.

7. Start the engine and allow it to idle. Check all connections for leaks. Read the Gauge and compare the result with the pressure values in the service manual.

8. Stop the engine and turn the ignition OFF.

9. With free end of Bleed-Off Hose in a suitable container, press button on side of bleed-off assembly slowly to de-pressurize the fuel system.

10. Refer to Safety Information before removing Tester from vehicle.

11. Reconnect vehicle’s fuel line and tighten all clamps securely. Check all connections for leaks.
**Chrysler® Throttle Body Injection:**

1. Turn off the ignition.
2. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
3. Loosen the hose clamp and disconnect the fuel line hose from the inlet side of the vehicle’s throttle body.
4. Confirm if the size of the inlet fuel line hose is 1/4" or 5/16".
5. Assemble the correct Hose and Hose Clamps (4) onto the Double End Barbed Adapter (7).
6. Connect the Adapter assembly between the disconnected fuel line and the throttle body inlet nipple on the vehicle. Tighten all Hose Clamps securely.
7. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25). Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.
8. Start the engine and allow it to idle. Check all connections for leaks. Read the Gauge and compare the result with the pressure values in the service manual.
9. Stop the engine and turn the ignition OFF.
10. With free end of Bleed-Off Hose in a suitable container, press button on side of bleed-off assembly slowly to de-pressurize the fuel system. Refer to Safety Information before removing Tester from vehicle.
11. Reconnect vehicle’s fuel line and tighten all clamps securely. Check all connections for leaks.

**Bosch® Continuous Injection System (CIS) Testing:**

1. Turn off the ignition.
2. Clean the top of the fuel distributor to keep dirt from entering the fuel system.
3. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.
4. The CIS system has a primary circuit with pressure regulated at the fuel distributor. This is known as supply pressure, primary pressure, or line pressure. The side of the Tester without the ball valve is connected to this circuit. The other circuit is known as the control circuit. This contains the control pressure regulator, known as the warm-up compensator. The side of the Tester with the ball valve is connected to this circuit.
5. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).
6. Install Adapter(s) (10, 11, 12, 13, 15, 16, 18, 19, 20, 21, 22, 23, or 24) and O-Ring to the engine as required. Hand tighten only. Then connect Hoses to Adapters.

7. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the CIS Testing Assembly with Ball Valve (31). With free end of Bleed-Off Hose in a suitable container, press button on side of bleed-off assembly slowly to release any air in the test Hose.

8. Refer to Safety Information before removing Tester from vehicle. Remove Tester and Adapters from vehicle. Reconnect vehicle’s fuel injection lines to original condition. Start the vehicle and check for leaks.

**Constant Injection System Electronic (CISE) - European Vehicles:**

1. Turn off the ignition.

2. Clean the top of the fuel distributor to keep dirt from entering the fuel system.

3. Relieve the fuel pressure. Refer to the vehicle’s service manual for specific pressure relief procedures.

4. Connect the Gauge (1) to the Pressure Testing and Bleed-Off Assembly (25).

5. Install Adapter(s) (10, 11, 12, 13, 15, 16, 18, 19, 20, 21, 22, 23, or 24) and O-Ring to the engine as required.

6. Attach the female quick coupler on the Pressure Testing and Bleed-Off Assembly to the male quick coupler on the Adapter.

7. Start the engine and allow it to idle. Check for leaks. Read the fuel pressure. Compare the value on the Gauge to the value in the service manual.

8. With free end of Bleed-Off Hose in a suitable container, press button on side of bleed-off assembly slowly to release any air in the test Hose. Refer to Safety Information before removing Tester from vehicle.

9. Remove Tester and Adapter(s) from vehicle.

10. Reconnect vehicle’s fuel injection lines to original condition.

11. Start vehicle and check for leaks.

**Figure O**

- Gauge (1)
- Pressure Testing and Bleed-Off Assembly (25)
- Adapters (10, 11, 12, 13, 15, 16, 18, 19, 20, 21, 22, 23, or 24)
- and O-Rings
Maintenance

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, vibration, or leaking air occurs, have the problem corrected before further use.

1. BEFORE EACH USE, inspect the general condition of the tool. Check for:
   • loose hardware
   • cracked, worn, or damaged Adapters
   • damaged Pressure Gauge and Hose
   • any other condition that may affect its safe operation.
   If a problem occurs, have the problem corrected before further use.
   Do not use damaged equipment.

2. AFTER EACH USE, wipe external surfaces of the tool with clean cloth.

3. Periodically check the threads for damage.

4. Keep clean and free from dirt, grease and grit.

5. Store tool in its Carrying Case when not in use.
PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM 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.

Record Serial Number Here:

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

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

Item 62788

For technical questions, please call 1-888-866-5797.

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### Parts List and Diagram

#### Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0-100 PSI (0-7.0 Bar) Gauge w/Boot &amp; Hang-Up Hook</td>
</tr>
<tr>
<td>2</td>
<td>GM® 2.5L &amp; 5.7L Fuel Injection Pressure Test Adapter</td>
</tr>
<tr>
<td>3</td>
<td>GM® 2.2L Fuel Injection Pressure Test Adapter</td>
</tr>
<tr>
<td>4</td>
<td>Hose Clamps &amp; Hoses</td>
</tr>
<tr>
<td>5</td>
<td>GM® Throttle Body Injection (TBI) Fuel Pressure Adapter</td>
</tr>
<tr>
<td>6</td>
<td>Seals, Tank Valve &amp; Gasket</td>
</tr>
<tr>
<td>7</td>
<td>Double End Barbed Hose Adapter</td>
</tr>
<tr>
<td>8</td>
<td>Single End Barbed Hose Adapter</td>
</tr>
<tr>
<td>9</td>
<td>6mm-1.00 Honda® &amp; Acura® Multi-Port (PGM-FI) Adapter</td>
</tr>
<tr>
<td>10</td>
<td>8mm-1.00 Banjo Bolt Adapter</td>
</tr>
<tr>
<td>11</td>
<td>10mm-1.00 Banjo Bolt Adapter</td>
</tr>
<tr>
<td>12</td>
<td>12mm-1.25 Banjo Bolt Adapter</td>
</tr>
<tr>
<td>13</td>
<td>12mm-1.50 Banjo Bolt Adapter</td>
</tr>
<tr>
<td>14</td>
<td>14mm-1.50 Banjo Bolt Adapter</td>
</tr>
<tr>
<td>15</td>
<td>8mm-1.00 Long Adapter</td>
</tr>
<tr>
<td>16</td>
<td>8mm-1.00 Female Adapter</td>
</tr>
<tr>
<td>17</td>
<td>8mm-1.00 Male Adapter w/O-Ring (1 Pieces)</td>
</tr>
<tr>
<td>18</td>
<td>8mm-1.00 Male Adapter (Long)</td>
</tr>
<tr>
<td>19</td>
<td>10mm-1.00 Female Adapter</td>
</tr>
<tr>
<td>20</td>
<td>10mm-1.00 Male Adapter</td>
</tr>
<tr>
<td>21</td>
<td>12mm-1.50 Female Swivel Adapter (2 Pieces)</td>
</tr>
<tr>
<td>22</td>
<td>14mm-1.50 Male &amp; Female Swivel Adapter</td>
</tr>
<tr>
<td>23</td>
<td>1/4” BSPT Male &amp; Female Swivel Adapter</td>
</tr>
<tr>
<td>24</td>
<td>16mm-1.50 Male &amp; Female Swivel Adapter</td>
</tr>
<tr>
<td>25</td>
<td>Pressure Testing &amp; Bleed-Off Assembly</td>
</tr>
<tr>
<td>26</td>
<td>Small Schrader® Valve Test Adapter for Ford®</td>
</tr>
<tr>
<td>27</td>
<td>Large Schrader® Valve Test Adapter for GM® &amp; Chrysler®</td>
</tr>
<tr>
<td>28</td>
<td>5/16” Hair Pin Adapter for Ford® CFI</td>
</tr>
<tr>
<td>29</td>
<td>3/8” Hair Pin Adapter for GM® &amp; Chrysler®</td>
</tr>
<tr>
<td>30</td>
<td>Spring Lock Adapter for Ford® EFI</td>
</tr>
<tr>
<td>31</td>
<td>CIS Testing Assembly w/Ball Valve</td>
</tr>
<tr>
<td>32</td>
<td>Carrying Case (not shown)</td>
</tr>
</tbody>
</table>
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.