

Petrol Compression Tester

TBT4700



IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE TOOL CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. 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. 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 using this product. Electromagnetic fields in close proximity to a heart pacemaker could cause interference or failure of the pacemaker. In addition, people with pacemakers should adhere to the following: Caution is necessary when near the coil, spark plug cables, or distributor of a running engine. The engine should always be off if adjustments are to be made to the distributor.
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.

2. SPECIFICATION

Pressure Scale	0 <-> 300 PSI / 0 <-> 20 kpa
Air Release Type	Push Button Release
Hose Fitting	M10, M12, M14, M18 (Male, With "O" Ring)

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Butts of Bawtry

Station Yard Bawtry Doncaster South Yorks DN10 6QD UK

Tel: 0044 (0)1302 710868 Fax: 0044 (0)1302 719481

Web: www.buttsofbawtry.com Email: info@buttsbawtry.com

3. 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.

4. Parts List

