



7891 ENGINE CALIBRATION & SET-UP KIT

COMPRESSION WHISTLE ALERT™

“Rigid” model #7882 - “Flex” Model #7894

No more burning your fingers. Just listen to Whistle Alert!™

Insert the **Ridged Whistle Alert** or the **Flex Whistle Alert** into any 14mm spark plug hole and bump the engine until you hear the whistle. You are now on the compression stroke!

- Easily finds Top Dead Center Compression Stroke
- Turn engine over from inside the car and listen for the whistle
- No more burning your fingers and hands
- Made and assembled in the USA

TDC INDICATOR #7880 (Std. 6.25”) & #7886 (Ext. Model 10.5”)

READ WARNINGS FIRST!

- **DO NOT use on an engine that has an acute spark plug angle relative to the flat top of the piston or you can bend TDC Shaft.**
- **Best used on Hemi Type engines**
- **Make sure ignition is turned off before installing tool**
- **Do not turn engine over with starter. Manual use only**
- **Before using tool, bring piston close to TDC and make sure engine is on compression stroke with both valves closed**
- **Lubricate threads of TDC Indicator before use**

The **TDC Indicator** allows technicians to accurately set any piston to Top Dead Center. Just remove the spark plug, screw in the gauge and rotate the engine by hand, observing the graduation marks on the sliding shaft. Note the top of the piston stroke! You can also use a dial indicator by setting the plunger on the flat top of the indicator.

- Accurately displays piston movement
- 1/8th inch graduation marks
- Installs as easily as a spark plug
- Made of 1144 steel
- Stainless steel spring
- Made and assembled in America
- Lifetime warranty

DIRECTIONS:

1. Remove the spark plug of the cylinder you want to set at TDC.
2. Lubricate the threads of the TDC Indicator with light oil.
3. Install tool in the spark plug hole and tighten until snug.
4. Now rotate the engine noting the highest point the piston travels by watching the graduation marks on the indicator shaft.
5. Note the top of the piston stroke

COMPRESSION GAUGE EXTENSION #7881

The **Compression Gauge Extension** brings the spark plug hole above the valve cover on hemispherical and deep-plug-hole engines for easy compression gauge attachment.

- Works on deep-hole spark plugs and hemispherical engines.
- Extends spark plug hole to 7.5 inches
- Attaches compression gauges easily
- O-ring seal allows complete compression transfer
- Made of 1144 steel alloy
- American made and assembled
- Lifetime Warranty

DIRECTIONS:

1. Remove the spark plug of the cylinder you want to test.
2. Lubricate the threads of the Compression gauge Extension.
3. Install tool in the spark plug hole and tighten until snug.

CRANK STOPPER #7877

Use to remove balancer pulleys or set up for timing alignment

READ WARNINGS FIRST!

WARNING:

Use only on HEMI spherical type engines with flat top pistons.

Use only where the tool is perpendicular to top of piston.

Warranty voided and serious damage may occur if used in any other applications.

DO NOT INSTALL INTO WORN THREADS! SERIOUS INJURY AND DAMAGE MAY OCCUR IF TOOL IS NOT INSERTED INTO HEALTHY THREADS. USED UNDER HIGH PRESSURE, TOOL MAY ACT AS A PROJECTILE IF ALL THREADS ARE NOT PROPERLY INSPECTED FOR WEAR BEFORE INSERTION.

- Make Sure Ignition is turned off before installing tool.
- Do not turn engine over with starter. Manual use only.
- Before using tool, bring piston on its compression stroke ½ way to TDC or a minimum of 40 deg. before TDC and make sure all valves are closed.
- Avoid screwing tool into combustion chamber deeper than necessary.
- Lubricate threads of Crank Stopper before use.
- Do not use a bar larger than ½" drive ratchet.

NOTE! The crank Stopper should be used only on clean applications, not hard or over torque bolts. (Be sure to look into the combustion chamber and make sure all the valves are closed and piston is coming up to TDC (compression stroke) before installing tool and do not use if the spark plug hole angle is too acute.)

DIRECTIONS:

1. Remove the spark plug and rotate the engine by hand until the piston comes mid way to the top of its compression stroke minimum of 40 degrees before TDC.
2. Install the tool in the spark plug hole until the tool just passes the spark plug threads and contacts the piston.
3. Continue to slowly rotate the engine **manually** until the piston stops against the Crank Stopper. This should hold the engine in place allowing the removal of the harmonic balancer, timing chain, belts or gears.

TO REINSTALL PARTS:

1. Back off the piston from the Crank Stopper and remove the tool.
2. Rotate the engine until the piston moves past TDC approximately ½ of the piston throw.
3. Reinstall the Crank Stopper and turn engine back until it engages the piston.

ADAPTER BUSHINGS #7885 (18 mm) & #7892 (12 mm)

These adapter bushings allow you to use any of the Engine Set-up tools with 12 mm or 18 mm spark plug hole applications, except the Crank Stopper #7876, which does not work on 12mm.

Innovative Products of America®

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