

Other
Precision Tools from **Central**[®]
"Your Automotive Measuring People"

Micrometers

Rod & Tubular Types

Inside

Outside

Depth

Sets

Dial Indicators & Test Sets

Magnetic Bases

Machinists Tools

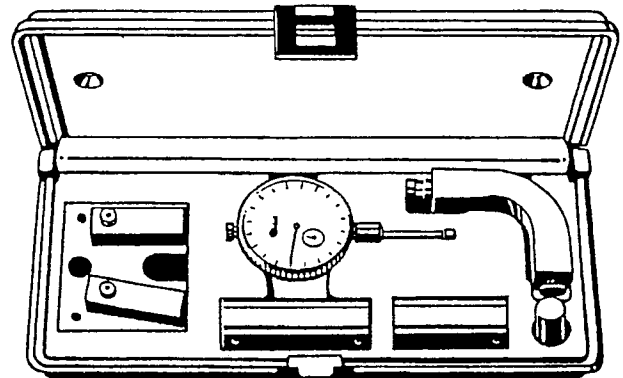
Dial Calipers

Electronic Digital Calipers

Torque Wrenches



**MASTER VALVE
STEM HEIGHT GAGE
No. 6435**



This two gage set provides you with the ability to measure and set both the installed valve stem height and the installed valve spring height to ensure correct valve action and optimum engine efficiency.

Write for Catalog

 **Central Tools, Inc.**

456 Wellington Avenue
Cranston, Rhode Island 02910

© Central Tools, Inc. 1994

INSTALLED VALVE SPRING HEIGHT GAGE INSTRUCTIONS

Gage may be mounted on wall, bench or shelf at rear of bench by using holes provided.

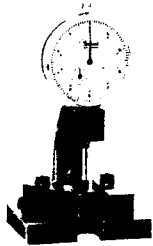


FIGURE 1



FIGURE 2

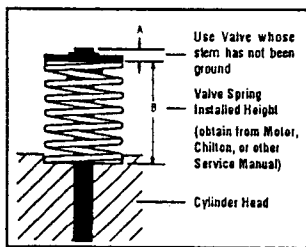


FIGURE 3

1. Assemble gage. Vertical post is locked in place by a set screw accessible through a hole in the right rear corner of the base.
2. Place indicator in post and set to zero with plunger resting on swing arm as shown in FIGURE 1. Lock indicator using set screw at front of post. Adjust indicator bezel to get exact zero reading. After zeroing, return spacer block to original position.
3. Select a new valve or one whose stem has not been ground. Assemble with retainer and keys and place on spacer blocks as shown in FIGURE 2. With indicator contact seated on stem, the reading shown is dimension A.

4. Obtain dimension B (Valve Spring Installed Height — see FIGURE 3 from Motor, Chilton or other service manual under "Valve specifications."

5. Add dimensions A and B to obtain correct valve stem height.

INSTALLED VALVE STEM HEIGHT INSTRUCTIONS

1. To calibrate 4830 set both rev counter and sweep hands on zero of indicator using 1.500 standard and lock indicator with thumb screw. See FIGURE 4. To calibrate 4372, set rev counter hand on zero of indicator using 1.500 standard as shown in FIGURE 4 and lock indicator with thumb screw. Gage No. 4372 will have a total of 2.000" contact-to-base distance. Gage No. 4830 will have a total of 2.500" contact-to-base distance. This dimension can be increased to 3.000" by using optional spacer No. 4380 (not incl.)

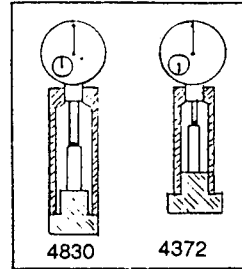


FIGURE 4

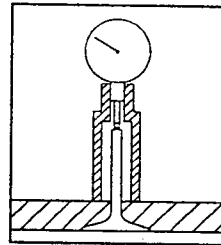


FIGURE 5

2. After grinding valve and seat, place gage over valve stem, as shown in FIGURE 5. Add reading of indicator to the 1" initial height or 1 1/2" if long body is used.

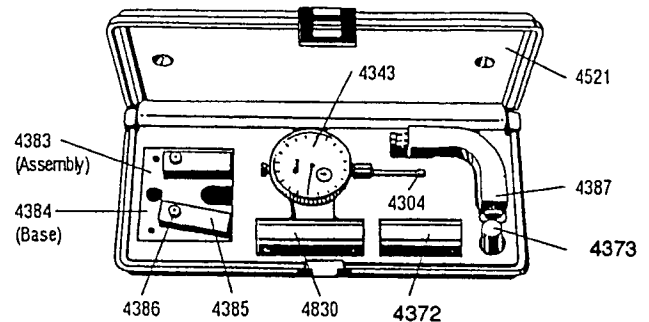
EXAMPLE 1

Valve Stem Height after grinding the valve seat and face 1.930"
Dimension A + B 1.880"
Amount to be ground from stem050"

EXAMPLE 1

Valve Stem Height after grinding the valve seat and face 1.920"
Dimension A + B 1.880"
Amount to be ground from stem040"

COMPONENTS



The amount of metal which can be removed from a valve stem is limited. In severe cases it may be necessary to replace the valve and seat in order to restore the original dimensions.