



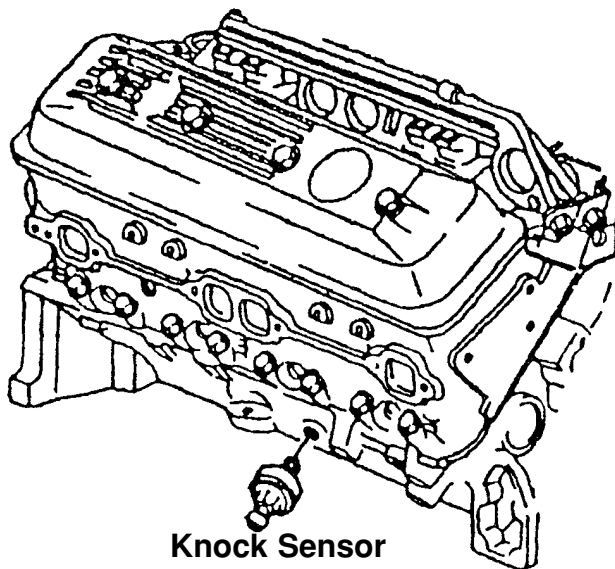
Suggested Installation Instructions for: 601-084, Knock Censor Test Tool

INTRODUCTION:

The Knock Sensor is a small "listening" device that is mounted in the engine block near the cylinder heads. The Knock Sensor detects abnormal vibration (spark knocking) in the engine. When the Knock Sensor detects a knock condition, the ECM retards the EST (Electronic Spark Timing) to reduce spark knock. Loss of the ESC (Electronic Spark Control) signal will cause the ECM to control the EST as if no spark knock was occurring. If the ESC fails to retard the timing during a heavy engine load condition, severe engine knocking will occur. This situation will set a Code 43.

INSTALLATION AND TEST PROCEDURES:

1. Disconnect the factory Knock Sensor connector from the Knock Sensor. Refer to the GM Shop Manual for the Knock Sensor location.
2. Plug in the Knock Sensor Test Tool. CAUTION: Carefully move the test tool from side to side to align pins into place. DO NOT force the test tool into the connection. Damage to the pins or sensor may result. Plug the factory Knock Sensor connector into the female Knock Sensor Test Tool terminal for in-line measurements.
3. Using a digital voltmeter (10 megaohm impedance required), measurements can be obtained to determine if the Knock Sensor is operating properly. Refer to the GM Shop Manual for specifications.
4. Remove the Knock Sensor Test Tool and re-connect ECM connector to the Knock Sensor.



**Knock Sensor
Location**



Knock Sensor