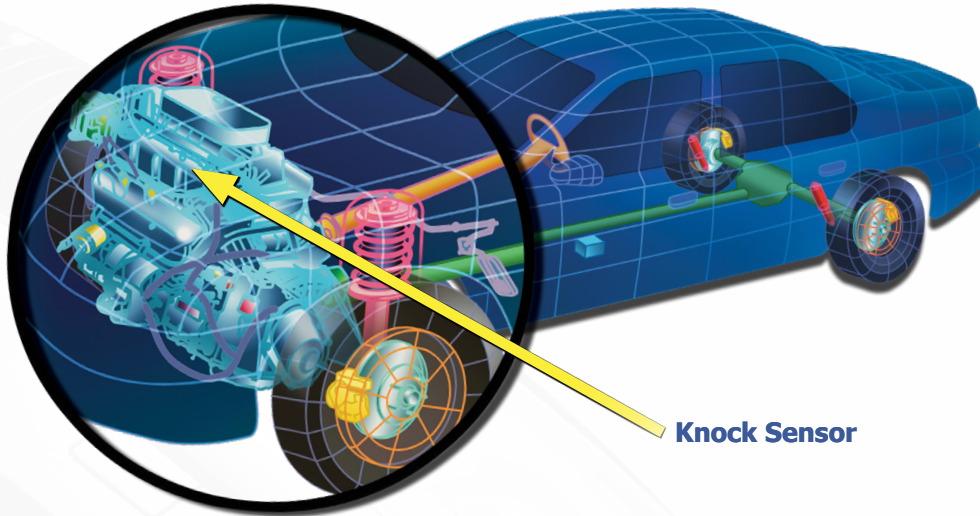


Knock (Detonation) Sensors



What does a Knock Sensor do?

This sensor creates a voltage signal based on the vibrations caused by detonation. The computer uses this signal to retard timing when spark knock occurs.

Where are these sensors located?

The Knock sensor is typically located in the lower engine block, cylinder head or intake manifold.

Will a malfunctioning Knock Sensor illuminate the check engine light or affect vehicle operation?

Yes, a failing sensor can illuminate the MIL, and may cause pinging and drivability problems.

What are the common causes of failure?

The knock sensor can be damaged and fail if it is over tightened during service or replacement. There are 10 diagnostic trouble codes that can be set, ranging between P0325 through P0334

How to determine if these sensors are malfunctioning?

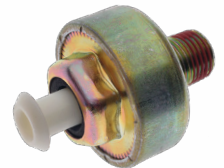
To check for proper operation, monitor the knock sensor data parameter on the scan tool. Some activity should be occurring while accelerating the engine. The diagnostic codes range between P0324 and P0333.

What makes BWD® Knock Sensors the best.

- BWD® knock sensors are designed to respond to knock frequencies up to 1000 Hz accommodating shifts in engine knock frequency making it a more flexible sensor responding to correct engine knock over a broad range of vehicle conditions
- Manufacturing processes include an automated data acquisition system to continuously monitor the sensor output to ensure that it responds with appropriate voltage output at the specified frequency range
- All units are 100% tested using an accelerometer vibration test to ensure trouble-free operation



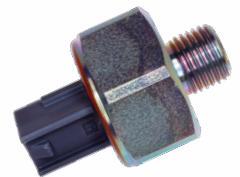
Ford
S8688



GM
S8011



Chrysler
S8078



Toyota
S8766



Honda
S8693



Nissan
S8619