

Description: During a deceleration fuel shut-off (DFSO) event, the PCM monitors how quickly the heated oxygen sensor bank 2, sensor 2 (HO2S22) switches from rich to lean. The measured rate of the rich to lean switch is compared to a calibrated fault threshold value. The threshold value takes into account the level of oxygen in the catalyst, which has an impact on how quickly the rich to lean switch occurs. This DTC sets when the measured value is slower than the threshold value.

Possible Causes:

- Exhaust leaks before or near the HO2S22
- Damaged HO2S22

Diagnostic Aids: Check for leaks in the exhaust system.

Application	Key On Engine Off	Key On Engine Running	Continuous Memory
All	GO to Pinpoint Test DW .		

DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P013E - SENSOR DELAYED RESPONSE - RICH TO LEAN (BANK 1, SENSOR 2) - DTC CHART

P013E - SENSOR DELAYED RESPONSE - RICH TO LEAN (BANK 1, SENSOR 2) - DTC CHART

Description: During a deceleration fuel shut-off (DFSO) event, the PCM monitors the heated oxygen sensor bank 1, sensor 2 (HO2S12) signal to determine if the signal is stuck in range. The PCM expects the signal to exceed a calibrated rich or lean value within a calibrated amount of time. If the signal voltage remains less than the rich value after a number of occurrences, the PCM intrusively controls the fuel system rich over increasing time periods in an attempt to force the signal to greater than the calibrated rich value.

This DTC sets when, after three consecutive intrusive attempts, the signal cannot be forced greater than the calibrated rich value. Also, if the signal voltage remains greater than the lean value after a calibrated amount of time with the fuel injectors off, a counter is incremented. This DTC sets when after three consecutive occurrences the signal is not less than the calibrated lean value.

Possible Causes:

- Exhaust leaks before or near the HO2S12
- Aftermarket exhaust accessories or performance modifications
- Ethanol content in the fuel
- HO2S12 circuit intermittent
- Damaged HO2S12

Diagnostic Aids: Check for leaks in the exhaust system. Check for an intermittent HO2S12 signal.

Application	Key On Engine Off	Key On Engine Running	Continuous Memory
All	GO to Pinpoint Test DW .		