

- FVRRTN circuit short to ground

Diagnostic Aids: A FVRRTN circuit short to ground may damage the solenoid coil. If P0001 is retrieved after a circuit repair, check the solenoid coil for an open circuit.

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

DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P0004 - FUEL VOLUME REGULATOR CONTROL CIRCUIT HIGH - DTC CHART

P0004 - FUEL VOLUME REGULATOR CONTROL CIRCUIT HIGH - DTC CHART

Description: This DTC sets when the PCM detects high or low voltage on the FVR and FVRRTN circuits.

Possible Causes:

- FVR circuit short to FVRRTN circuit
- FVRRTN circuit short to voltage

Diagnostic Aids:

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

DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P000A - INTAKE A CAMSHAFT POSITION SLOW RESPONSE BANK 1 - DTC CHART

P000A - INTAKE A CAMSHAFT POSITION SLOW RESPONSE BANK 1 - DTC CHART

Description: The PCM monitors and evaluates the response of the actual position on a target position change. The setpoint and camshaft position are saved at the beginning of a setpoint change. If this change over time is large enough (gradient), the camshaft phasing change is evaluated. If the change after the diagnostic time is smaller than a threshold, a slow response is detected, and if the value is greater, then there is no concern. By detecting a concern, an antibounce counter is incremented otherwise the counter is decremented. This DTC sets when the counter exceeds an adjustable limit.

Possible Causes:

- Variable camshaft timing (VCT) unit to camshaft alignment
- Erratic camshaft position due to low oil pressure
- Oil flow restriction in the oil passages or the VCT valve body