

- Oil flow restriction in the oil passages or the VCT valve body
- variable camshaft timing bank 2 solenoid 2 (VCT22) stuck in position
- VCT22 circuit open
- VCT22 circuit short to voltage
- VCT22 circuit short to ground
- VPWR circuit open
- Camshaft advance mechanism binding (VCT unit)
- Damaged VCT22 phaser
- Damaged camshaft position bank 2 sensor 2 (CMP22)
- CMP22 sensor circuits open
- CMP22 sensor circuits short to voltage
- CMP22 sensor circuits short to ground
- Radio frequency interference

Diagnostic Aids: This DTC may be accompanied by other DTCs. Diagnose all camshaft position (CMP) sensor DTCs first. If no CMP sensor related DTCs are present, continue to follow diagnosis for this DTC.

This DTC is a functional check of the VCT unit. Diagnose any base engine concerns related to the engine oil pressure or engine timing. Refer to the service information , Engine System, Oil Pressure Test, to check the engine oil pressure. Refer to the service information , Engine, to check the engine timing and VCT phasers.

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

DIAGNOSTIC TROUBLE CODE (DTC) CHARTS AND DESCRIPTIONS > P0020 - INTAKE CAMSHAFT POSITION ACTUATOR CIRCUIT/OPEN (BANK 2) - DTC CHART

P0020 - INTAKE CAMSHAFT POSITION ACTUATOR CIRCUIT/OPEN (BANK 2) - DTC CHART

Description: This DTC sets when a low or high voltage on the VCT21 circuit is detected. The test fails if the voltage exceeds a calibrated limit for a calibrated amount of time.

Possible Causes:

- VCT21 circuit open
- VCT21 circuit short to voltage
- VCT21 circuit short to ground