

**DTC P1361, P1362, P1366 & P1367: TOP DEAD CENTER (TDC) SENSOR CIRCUIT**

1. Perform PCM reset procedure. See PCM RESET PROCEDURE/CLEARING DTCS in SELF-DIAGNOSTICS - INTRODUCTION article. Start engine. If DTC P1361, DTC P1362, DTC P1366 or DTC P1367 is indicated, go to next step. If DTCs are not indicated, problem is intermittent. System is okay at this time. Check for poor connections or loose wires at TDC sensor and PCM connectors. See appropriate wiring diagram in WIRING DIAGRAMS article. Repair as necessary.
2. Turn ignition off. Disconnect TDC sensor connector. TDC sensor Gray, 4-pin connector is located at right side of engine compartment in front of power steering pump. Measure resistance between TDC sensor connector terminals. See **CHECKING TDC SENSOR RESISTANCE** table. If resistance between specified sensor connector terminals is 1850-2450 ohms, go to next step. If resistance is not as specified, replace TDC sensor.
3. Check for continuity between ground and each TDC sensor connector terminal, individually. See **CHECKING TDC SENSOR RESISTANCE** table. If continuity does not exist, go to next step. If continuity exists, replace TDC sensor.
4. Reconnect TDC sensor connector. Disconnect PCM 31-pin connector "C". See **Fig. 3**. Measure resistance between specified PCM 31-pin harness connector "C" terminals. See **CHECKING TDC SENSOR RESISTANCE** table. If resistance between specified PCM 31-pin harness connector "C" terminals is 1850-2450 ohms, go to next step. If resistance between specified PCM 31-pin harness connector "C" terminals is not 1850-2450 ohms, repair open in suspect circuit. See appropriate wiring diagram in WIRING DIAGRAMS article.
5. Check for continuity between ground and 31-pin harness connector "C" terminal No. 20 (Green wire) and terminal No. 29 (Yellow wire), individually. If continuity exists, repair short in Green wire or Yellow wire between PCM 31-pin harness connector "C" and TDC sensor. See appropriate wiring diagram in WIRING DIAGRAMS article. If continuity does not exist, substitute a known-good PCM and recheck. See SUBSTITUTING PCM under SELF-DIAGNOSTIC SYSTEM in SELF-DIAGNOSTICS - INTRODUCTION article. If symptom or indication goes away, replace original PCM.

**CHECKING TDC SENSOR RESISTANCE**

Sensor (DTC)	Sensor Terminal No. (Wire Color)	PCM 31-Pin Connector "C" Terminal No. (Wire Color)
TDC-1 (P1361/P1362)	1 (GRN) & 2 (RED)	20 (GRN) & 21 (RED)
TDC-2 (P1366/P1367)	3 (YEL) & 4 (BLK)	29 (YEL) & 30 (BLK)