



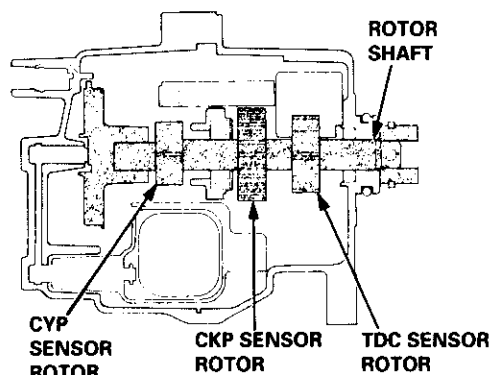
## Crankshaft Position/Top Dead Center/Cylinder Position (CKP/TDC/CYP) Sensor

- P0335** The scan tool indicates Diagnostic Trouble Code (DTC) P0335: A malfunction in the Crankshaft Position (CKP) sensor circuit.
- P0336** The scan tool indicates Diagnostic Trouble Code (DTC) P0336: A range/performance problem in the Crankshaft Position (CKP) sensor circuit.
- P1361** The scan tool indicates Diagnostic Trouble Code (DTC) P1361: Intermittent interruption in the Top Dead Center (TDC) sensor circuit.
- P1362** The scan tool indicates Diagnostic Trouble Code (DTC) P1362: No signal in the Top Dead Center (TDC) sensor circuit.
- P1381** The scan tool indicates Diagnostic Trouble Code (DTC) P1381: Intermittent interruption in the Cylinder Position (CYP) sensor circuit.
- P1382** The scan tool indicates Diagnostic Trouble Code (DTC) P1382: No signal in the Cylinder Position (CYP) sensor circuit.

### Description

The CKP Sensor determines timing for fuel injection and ignition of each cylinder and also detects engine speed. The TDC Sensor determines ignition timing at start-up (cranking) and when crank angle is abnormal. The CYP Sensor detects the position of No. 1 cylinder for sequential fuel injection to each cylinder.

NOTE: If DTC P1359 is stored at the same time as DTC P0335, P0336, P1361, P1362, P1381 and/or P1382, troubleshoot DTC P1359 first, then troubleshoot those DTCs.



— The MIL has been reported on.  
— DTC P0335, P0336, P1361, P1362, P1381 and/or P1382 are stored.

**Problem verification:**  
1. Do the ECM Reset Procedure.  
2. Start the engine.

Is DTC P0335, P0336, P1361, P1362, P1381 and/or P1382 indicated?

NO

**Intermittent failure, system is OK at this time. Check for poor connections or loose wires at C109 (CKP/TDC/CYP Sensor) and ECM.**

YES

**Check for an open in the TDC/CYP sensor:**  
1. Turn the ignition switch OFF.  
2. Disconnect the CKP/TDC/CYP connector.  
3. Measure resistance between the terminals of the indicated sensor (see table).

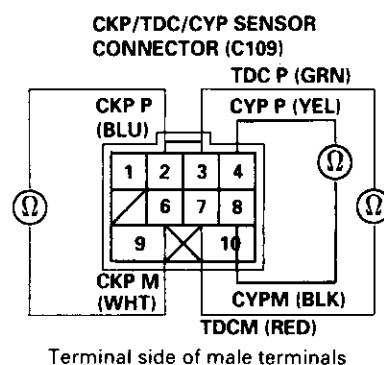
Is there 0.5 – 1.0 kΩ?

NO

**Replace the distributor housing sensor (see section 23).**

YES

(To page 11-84)



SENSOR	DTC	SENSOR TERMINAL	ECM TERMINAL	WIRE COLOR
CKP	P0335	2	C2	BLU
	P0336	6	C12	BLU/YEL (WHT)
TDC	P1361	3	C3	GRN
	P1362	7	C13	WHT/BLU (RED)
CYP	P1381	4	C4	YEL
	P1382	8	C14	WHT (BLK)

( ): ENGINE WIRE HARNESS SIDE

(cont'd)