



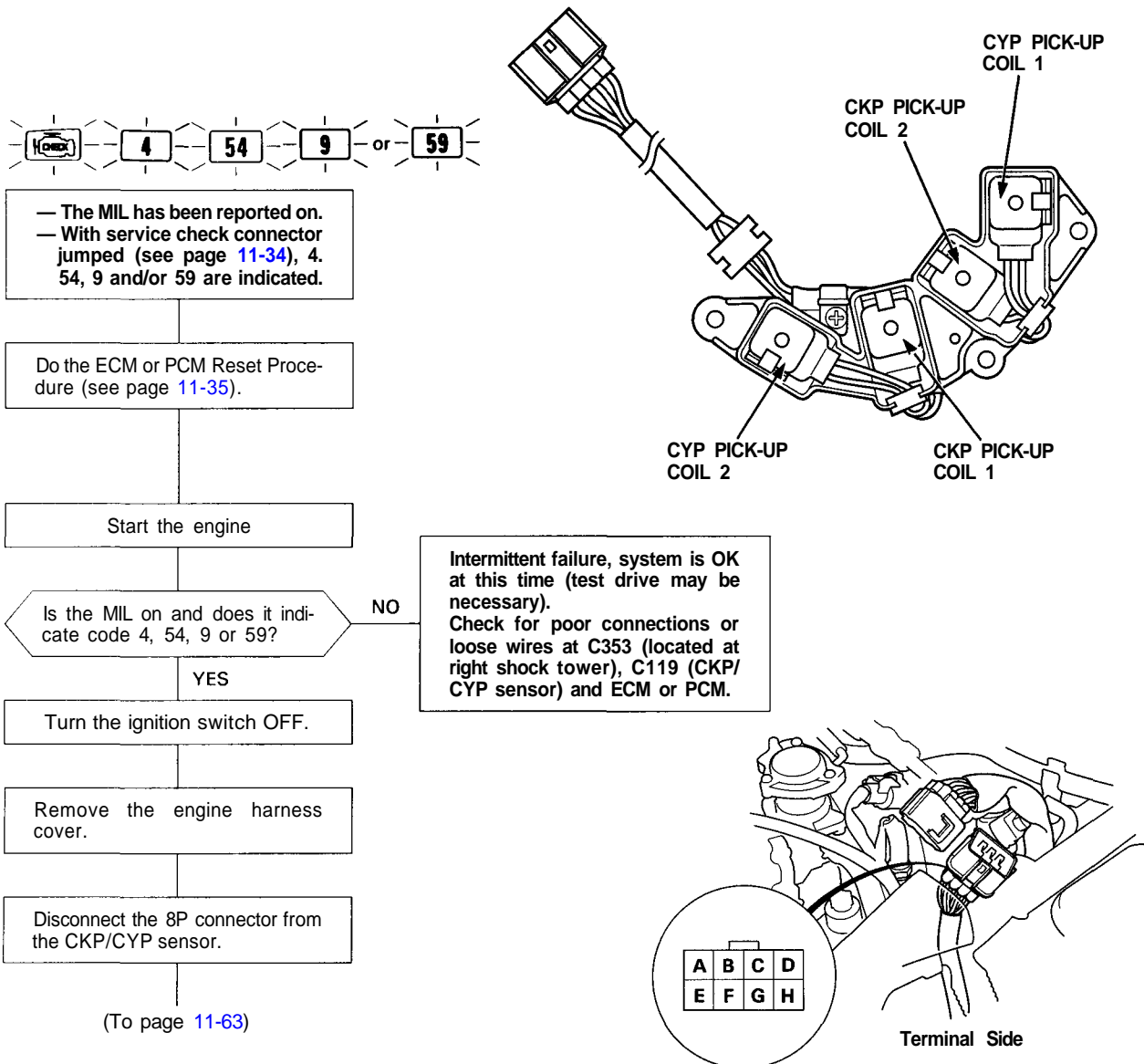


# PGM-FI System

## Troubleshooting Flowchart — CKP/CYP Sensor

-  **4** The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 4: A problem in the Crankshaft Position (CKP) 1 Sensor circuit.
-  **54** The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 54: A problem in the Crankshaft Position (CKP) 2 Sensor circuit.
-  **9** The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 9: A problem in the Cylinder Position (CYP) 1 Sensor circuit.
-  **59** The Malfunction Indicator Lamp (MIL) indicates Diagnostic Trouble Code (DTC) 59: A problem in the Cylinder Position (CYP) 2 Sensor circuit.

The CKP Sensor determines timing for fuel injection and ignition of each cylinder and also detects engine speed. The CYP Sensor detects the position of No. 1 cylinder for sequential fuel injection to each cylinder and ignition timing.





(From page 11-62)

Measure resistance between terminals of the indicated sensor.  
\*see table

Is there 650-900  $\Omega$ ?

NO

Replace the CKP/CYP sensor.

YES

Check for continuity to body ground on all terminals individually.

Is there continuity?

YES

Replace the CKP/CYP sensor.

NO

Reconnect the connector.

Connect the test harness to the main wire harness only, not to the ECM or PCM (see page 11-37):

Measure resistance between terminals of the indicated sensor on test harness (see table).

Is there 650-900  $\Omega$ ?

NO

Repair open in the indicated sensor wires (see table).

YES

Check for continuity to body ground on B15, B13, B11, or 69 terminals.

Is there continuity?

YES

Repair short to body ground in the indicated sensor wires (see table).

NO

Substitute a known-good ECM or PCM and recheck. If symptom/indication goes away, replace the original ECM or PCM.

SENSOR	DTC	SENSOR TERMINAL	ECM TERMINAL	WIRE COLOR
CKP	4	A	B15	ORN/BLU
		B	B16	WHT/BLU
CKP	54	C	B14	WHT
		D	B13	ORN
CYP	9	G	B12	WHT/BLU
		H	B11	ORN/BLU
CYP	59	E	B9	BLU/GRN
		F	B10	BLU/YEL

