



# PGM-CARB Control System [KX, KS, KZ]

## Troubleshooting Flow Chart — Oxygen Sensor



Self-diagnosis LED blinks once: A problem in the Oxygen ( $O_2$ ) Sensor circuit.

LED indicates CODE 1

Warm up engine to normal operating temperature (the cooling fan comes on).

Turn the ignition switch OFF.

Remove EFI, ECU fuse in the under-hood relay box for 10 seconds to reset control unit.

Start engine and allow to idle for 1 minute.

Raise engine speed to 3,000  $\text{min}^{-1}$  (rpm).

Remove #2 and #7 hoses quickly from the vacuum hose manifold and plugs the vacuum hose manifold.

Hold engine speed steady at 3,000  $\text{min}^{-1}$  (rpm) for 20 seconds.

Does LED indicate CODE 1?

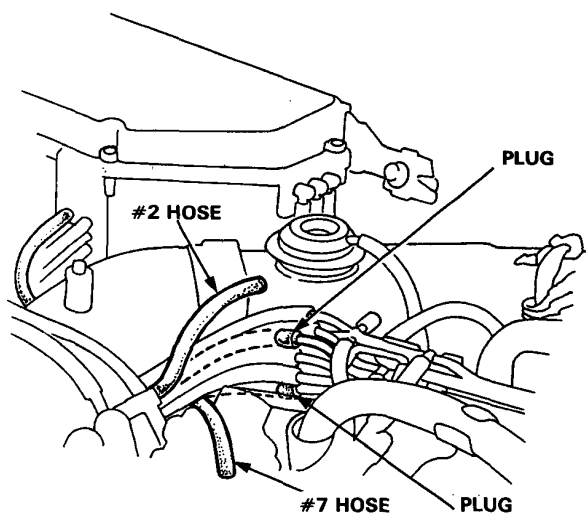
NO

Intermittent failure, check and seat connectors at  $O_2$  sensor, at the battery and at the control unit.

YES

Turn the ignition switch OFF.

(To page 6-46)



(cont'd)

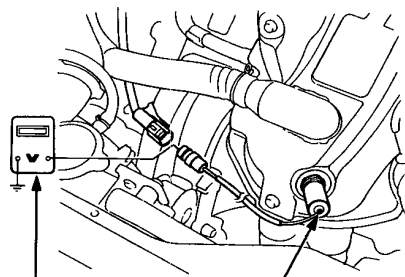
# PGM-CARB Control Unit [KX, KS, KZ]

## Troubleshooting Flow Chart — O<sub>2</sub> Sensor (cont'd)

(From page 6-45)

Disconnect the wire harness from the O<sub>2</sub> sensor and connect a voltmeter between the O<sub>2</sub> sensor connector and engine ground.

Start the engine and measure the voltage between O<sub>2</sub> sensor connector and engine ground.



DIGITAL CIRCUIT TESTER  
07411-0020000

O<sub>2</sub> SENSOR  
45 N·m (4.5 kg-m, 33 lb-ft)

Is voltage above 0.6 V at wide open throttle and below 0.4 V when the throttle is quickly released ?

NO

Replace O<sub>2</sub> sensor.

YES

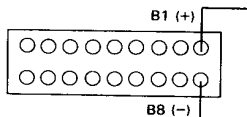
Turn the ignition switch OFF.

Reconnect O<sub>2</sub> sensor.

Connect the ECU check adaptor B between the control unit and connector.

Start the engine.

Measure voltage between B1 (+) terminal and B8 (-) terminal.



Above 0.6 V at full throttle ?  
Below 0.4 V when quickly released ?

Is voltage above 0.6 V at wide open throttle and below 0.4 V when the throttle is quickly released ?

NO

Repair open or short in WHT wire between the control unit (B1) and O<sub>2</sub> sensor.

YES

Substitute a known-good control unit and recheck. If symptom/indication goes away, replace the original control unit.