

PGM-FI Control System

Troubleshooting Flowchart — Oxygen Sensor [With CATA]



Self-diagnosis LED blinks once: A problem in the Oxygen (O₂) Sensor circuit.



- Check Engine warning light has been reported on.
- LED indicates CODE 1.

Turn the ignition switch OFF.

Remove HAZARD fuse in the main fuse box for 10 seconds to reset ECU.

Inspect pressure regulator.

Is it normal?

NO

Replace the pressure regulator.

YES

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

Hold engine at 1500 min⁻¹ (rpm) for 15 minutes.
NOTE: Do not close throttle completely during this time.

Is Check Engine warning light on and does LED indicate CODE 1?

NO

Intermittent failure, system is OK at this time (test drive may be necessary).
Check for poor connections or loose wires at the thermostat housing, O₂ sensor and C210 (round connector located at the right shock tower).

YES

Inspect for poor connections or loose ground wires at thermostat housing.

Are connections and wires OK?

NO

Repair as necessary.

YES

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(From page 6-22)

Disconnect engine wire harness from O₂ sensor.

Warm up engine to normal operating temperature again, then hold engine speed at 4,000 min⁻¹ (rpm) for 10 seconds then release throttle completely.

Measure voltage between the connector terminal and body ground.

Was voltage above 0.6V at 4,000 min⁻¹ (rpm)? Was voltage below 0.4V during closed throttle deceleration from 4,000 min⁻¹ (rpm)?

NO

Replace O₂ sensor.

YES

Stop engine.

Reconnect O₂ sensor.

Connect the PGM-FI test harness between the ECU and connector (page 6-16).

Restart and warm up engine to normal operating temperature, then hold engine speed at 4,000 min⁻¹ (rpm) for 10 seconds then release throttle completely.

Measure voltage between C16 (+) and A18 (-) terminals.

Was voltage above 0.6V at 4,000 min⁻¹ (rpm)? Was voltage below 0.4V during closed throttle deceleration from 4,000 min⁻¹ (rpm)?

NO

Repair short or open in WHT wire between ECU (C16) and O₂ sensor.

YES

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

O₂ SENSOR
45 N·m (4.5 kg·m, 33lb·ft)

