

Exhaust Gas Recirculation System (Except KQ)

Troubleshooting Flow Chart — EGR System



Self diagnosis indicator blinks twelve times: Most likely a problem in the Exhaust Gas Recirculation (EGR) system.

-Check engine warning light has been reported.

-Red LED indicates CODE 12.

Verify that all connectors between the EGR valve lift sensor and the PGM-FI ECU are securely connected.

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

Disconnect #11 hose from EGR control solenoid valve.

Connect vacuum pump to EGR valve and apply vacuum.

Does EGR valve hold vacuum?
Did engine stall?

NO

Check #11 hose for damage or clogged. Replace EGR valve if #11 hole is OK.

YES

Disconnect the #5 hose (between the vacuum hose manifold and the 3-way joint) from the 3-way joint and connect vacuum gauge to the hose.

Restart engine and check for vacuum.

Is there vacuum?

NO

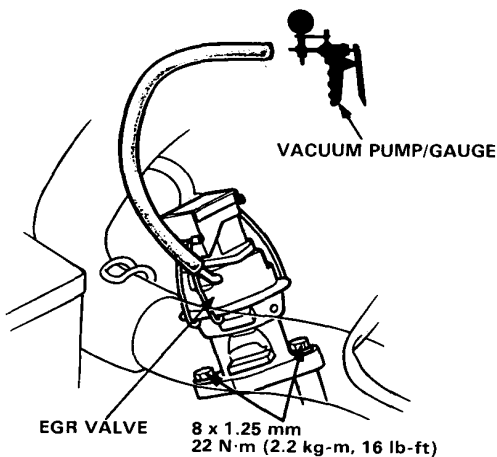
Repair blockage at port or pinch in the #5 hose.

YES

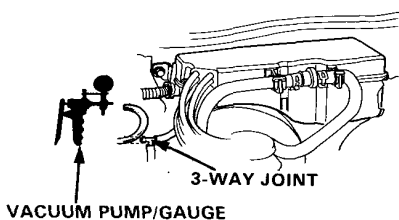
Reconnect the #5 hose.

Disconnect the EGR solenoid valve hose from the CVC valve.

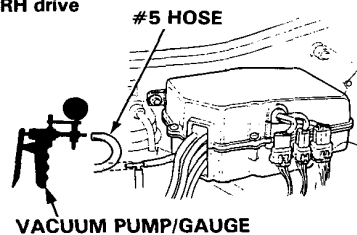
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LH drive

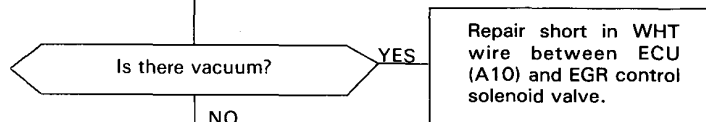
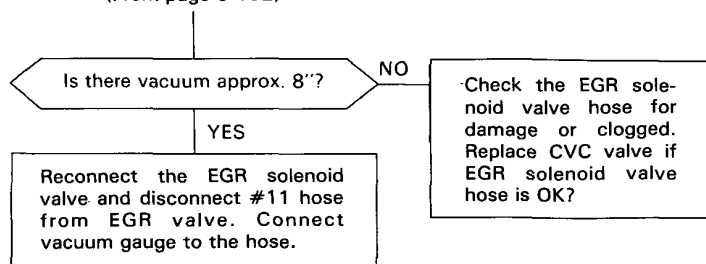


RH drive





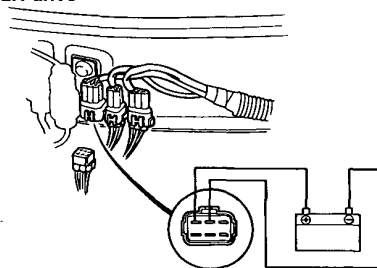
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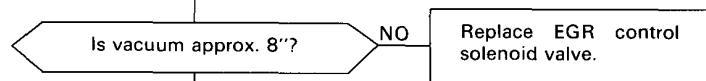
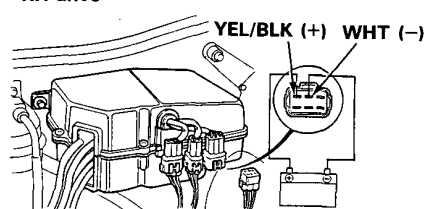
Disconnect 6P connector on the right side of the firewall.

Connect the battery positive terminal to the YEL/BLK terminal and the negative terminal to the WHT terminal.

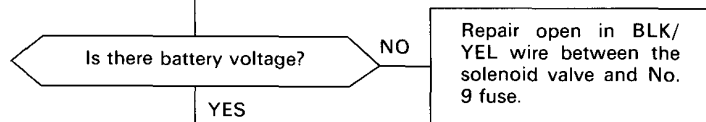
LH drive



RH drive



Measure voltage between BLK/YEL (+) terminal on the R. side wire harness and body ground.



Turn the ignition switch OFF.

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(cont'd)

Exhaust Gas Recirculation System (Except KQ, KP)

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Connect the test harness between the EGR valve lift sensor and engine wire harness.

Turn the ignition switch ON.

Measure voltage between RED (+) terminal and GRN (-) terminal.

Is there approx. 5V?

NO

Measure voltage between RED (+) terminal and body ground.

Is there approx. 5V?

YES

Repair open in GRN/WHT wire between ECU (C14) and the sensor.

NO

Turn the ignition switch OFF.

Is there approx. 1V?

NO

-Replace EGR valve.
-Repair short in WHT/GRN wire between ECU (C8) and EGR valve lift sensor.

YES

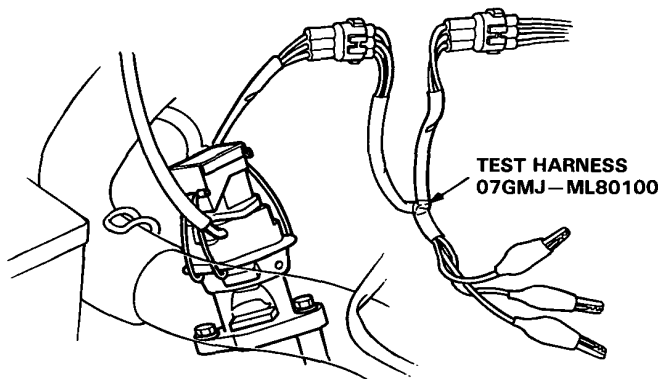
Turn the ignition switch OFF.

Connect the PGM-FI test harness between the ECU and connector (page 11-11).

Turn the ignition switch ON.

Measure voltage between C8 (+) terminal and C14 (-) terminal.

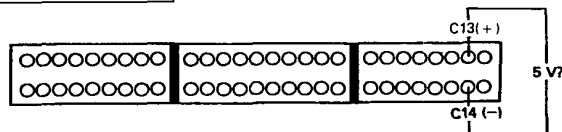
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Connect the PGM-FI test harness between the ECU and connector (page 11-11).

Turn the ignition switch ON.

Measure voltage between C13 (+) terminal and C14 (-) terminal.



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