



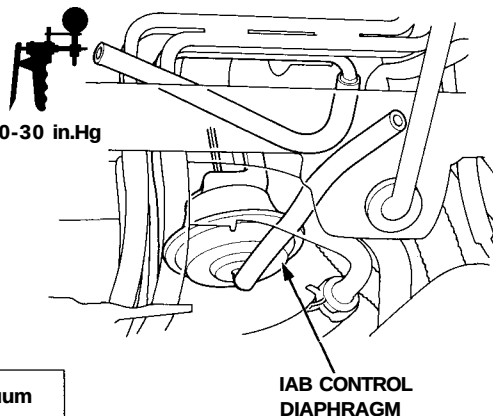
Troubleshooting

Inspection of IAB Control System.

Check for vacuum at idle:

1. Start the engine and allow it to idle.
2. Remove the No. 3 vacuum hose from the IAB control diaphragm and connect a vacuum gauge to the hose.

VACUUM PUMP/GAUGE, 0-30 in.Hg
A973 - 041 - XXXXX



Is there vacuum?

NO

YES

Check for vacuum at IAB vacuum tank:

Remove No. 3 vacuum hose from the IAB vacuum tank, then check for vacuum at the IAB vacuum tank.

Is there vacuum?

NO

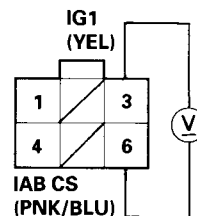
YES

Repair the blockage or vacuum leak between the IAB vacuum tank and the intake manifold.

Check for an open in the circuit:

1. Turn the ignition switch OFF.
2. Disconnect the 6P connector from the control box.
3. Turn the ignition switch ON (II).
4. Measure voltage between the control box connector terminals No. 3 and No. 6.

CONTROL BOX 6P CONNECTOR



Wire side of female terminals

Is there battery voltage?

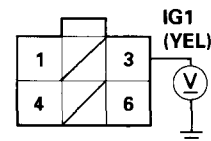
YES

Replace the IAB control solenoid valve.

NO

Check for an open in the wire (IG1 line):

Measure voltage between the control box connector terminal No. 3 and body ground.



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(cont'd)

Intake Air System

Intake Air Bypass (IAB) Control System (cont'd)

(From page 11-155)

A

Check for vacuum at 5,000 rpm:

1. Raise engine speed to above 5,000 rpm.
2. Check for vacuum at the vacuum hose.

Is there vacuum?

NO

IAB control system is OK.

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B

Is there battery voltage?

NO

Repair open in the wire between the control box 6P connector and No. 5 BACK-UP LIGHTS ALTERNATOR TURN SIGNALS (IS A) fuse in the under-dash fuse box.

YES

Check for an open in the wire (IABCS line):

1. Stop the engine and turn the ignition switch ON.
2. Connect ECM connector terminals A20 to A26 with a jumper wire.

ECM CONNECTOR A (26P)

1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

IAB CS
(PNK/BLU)IG1
(BRN/BLK)

JUMPER WIRE

Wire side of female terminals

Does the solenoid valve click when the jumper is connected?

NO

Repair open in the wire between ECM (A20) and control box 6P connector.

YES

Substitute a known-good ECM and recheck (see page 11-39 for immobilizer information). If symptom/indication goes away, replace the original ECM.

YES

Disconnect the 6P connector from the control box.

Is there vacuum?

YES

Replace the IAB control solenoid valve.

NO

Check for a short in the wire (IABCS line):

1. Turn the ignition switch OFF.
2. Disconnect the ECM connector A (26P) from the ECM.
3. Check for continuity between the control box connector terminal No. 6 and body ground.

CONTROL BOX 6P CONNECTOR

1	2	3
4	5	6

IAB CS
(PNK/BLU)

Wire side of female terminals

Is there continuity to ground?

YES

Repair short to ground at the wire between ECM (A20) and control box 6P connector.

NO

Substitute a known-good ECM and recheck (see page 11-39 for immobilizer information). If symptom goes away, replace the original ECM.