

Electrical Troubleshooting

Troubleshooting Flowchart — Shift Solenoid Valve B

- OBD II Scan Tool indicates Code P0758.
- Self-diagnosis **D₁** indicator light blinks eight times.

Possible Cause

- Disconnected shift solenoid valve B connector
- Short or open in shift solenoid valve B wire
- Faulty shift solenoid valve B
- Open VB SOL line

Check for a Short to Power:

1. Turn the ignition switch OFF.
2. Disconnect the A (26P) and E (26P) connectors from the PCM.
3. Turn the ignition switch ON (II).
4. Measure the voltage between the E25 and A26 terminals.

Is there voltage?

YES

Repair short to power in the wire between the E25 terminal and the shift solenoid valve B.

NO

Measure Shift Solenoid Valve B Resistance:

1. Turn the ignition switch OFF.
2. Measure the resistance between the E25 and A26 terminals.

Is the resistance 12-25 Ω?

YES

Check for loose PCM connectors. If necessary, substitute a known-good solenoid valves A and B or PCM and recheck.

NO

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PCM CONNECTORS

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

LG1 (BRN/BLK)



E (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

SHB (GRN/WHT)

Wire side of female terminals

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

LG1 (BRN/BLK)



E (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

SHB (GRN/WHT)



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Check Shift Solenoid Valve B for a Short Circuit:

1. Remove the shift cable cover from the transmission.
2. Disconnect the shift solenoid valve/A/T clutch pressure control solenoid valve harness 4P connector.
3. Check for continuity between the E25 and A26 terminals.

Is there continuity?

YES

Repair short to ground in the wire between the E25 terminal and the shift solenoid valve B.

NO

Measure Shift Solenoid Valve B Resistance at the Solenoid Connector:

Measure the resistance between the No. 1 terminal of the shift solenoid valve/A/T clutch pressure control solenoid valve harness 4P connector and body ground.

Is the resistance 12-25 Ω ?

YES

Check for open in the wire between the E25 terminal and the shift solenoid valve B.

NO

Check the VB SOL Voltage:

1. Turn the ignition switch ON (II).
2. Measure the voltage between the E1 and A26 terminals.

Is there voltage?

NO

Check for open in the wire between the E1 terminal and the under-hood fuse/relay box.

YES

Replace the shift solenoid valves A and B.

PCM CONNECTORS

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

LG1 (BRN/BLK)



E (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

SHB (GRN/WHT)

Wire side of female terminals

SHIFT SOLENOID VALVE/A/T CLUTCH PRESSURE CONTROL SOLENOID VALVE HARNESS 4P CONNECTOR

GRN



Terminal side of male terminals

PCM CONNECTORS

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

LG1 (BRN/BLK)



VB SOL (BLK/YEL)

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

Wire side of female terminals