

Electrical Troubleshooting

Troubleshooting Flowchart — Torque Converter Clutch (Lock-up Control) Solenoid Valve B

- OBD II Scan Tool indicates Code P2756.
- Self-diagnosis  indicator light blinks twice.

Possible Cause

- Disconnected torque converter clutch solenoid valve B connector
- Short or open in torque converter clutch solenoid valve B wire
- Faulty torque converter clutch 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 E26 and A26 terminals.

Is there voltage?

YES

Repair short to power in the wire between the E26 terminal and the torque converter clutch solenoid valve B.

NO

Measure Torque Converter Clutch Solenoid Valve B Resistance:

1. Turn the ignition switch OFF.
2. Measure the resistance between the E26 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

LCB (GRN/BLK)

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

LCB (GRN/BLK)



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Check Torque Converter Clutch Solenoid Valve B for a Short Circuit:

1. Disconnect the 2P connector from the torque converter clutch solenoid valves A and B.
2. Check for continuity between the E26 and A26 terminals.

Is there continuity?

YES

Repair short to ground in the wire between the E26 terminal and the torque converter clutch solenoid valve B.

NO

Measure Torque Converter Clutch Solenoid Valve B Resistance at the Solenoid Connector:

Measure the resistance between the No. 1 terminal of the torque converter clutch solenoid connector and body ground.

Is the resistance 12 – 25 Ω ?

YES

Check for open in the wire between the E26 terminal and the torque converter clutch 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 torque converter clutch 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

LCB (GRN/BLK)

Wire side of female terminals

TORQUE CONVERTER CLUTCH SOLENOID VALVES A AND B CONNECTOR



GRY



Terminal side of male 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)

VB SOL (BLK/YEL)

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

