

Electrical Troubleshooting

Troubleshooting Flowchart — Lock-up Control Solenoid Valve A

• OBD II Scan Tool indicates Code P1753.
 • Self-Diagnosis **D4** indicator light blinks once.

Possible Cause

- Disconnected lock-up control solenoid valve A connector
- Short or open in lock-up control solenoid valve A wire
- Faulty lock-up control solenoid valve A

Measure VREF Voltage:

1. Disconnect the A (26P) and B (22P) connectors from the TCM.
2. Turn the ignition switch ON (II).
3. Measure the voltage between the B20 and A13 or A26 terminals.

Is there approx. 5 V?

NO Repair open or short in the wire between the B20 terminal and the ECM.

YES

Check for a Short to Power:
 Measure the voltage between the A16 and A13 or A26 terminals.

Is there voltage?

YES Repair short to power in the wire between the A16 terminal and the lock-up control solenoid valve A.

NO

Measure Lock-up Control Solenoid Valve A Resistance:

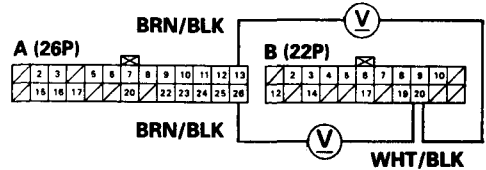
1. Turn the ignition switch OFF.
2. Measure the resistance between the A16 and A13 or A26 terminals.

Is the resistance 14 – 25 Ω?

YES Check for loose TCM connectors. If necessary, substitute a known-good solenoid valve assembly or TCM and recheck.

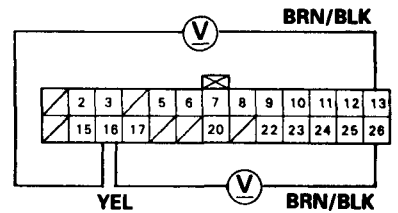
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TCM CONNECTORS

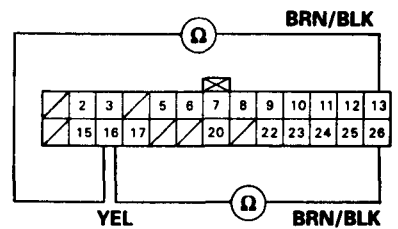


WIRE SIDE OF FEMALE TERMINALS

TCM CONNECTOR A (26P)



WIRE SIDE OF FEMALE TERMINALS





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Check Lock-up Control Solenoid Valve A for a Short Circuit:

1. Disconnect the 2P connector from the lock-up control solenoid valve assembly.
2. Check for continuity between the A16 and A13 or A26 terminals.

Is there continuity?

YES

Repair short to ground in the wire between the A16 terminal and the lock-up control solenoid valve A.

NO

Measure Lock-up Control Solenoid Valve A Resistance at the Solenoid Connector:

Measure the resistance between terminal No. 2 of the lock-up control solenoid connector and body ground.

Is the resistance 14-25 Ω ?

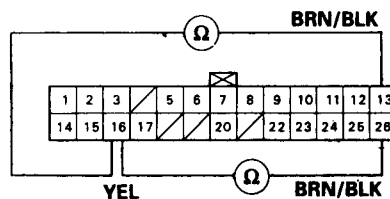
YES

Check for open in the wire between the A16 terminal and the lock-up control solenoid valve A.

NO

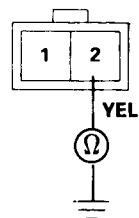
Replace the lock-up control solenoid valve assembly.

TCM CONNECTOR A (26P)



WIRE SIDE OF FEMALE TERMINALS

LOCK-UP CONTROL SOLENOID CONNECTOR



TERMINAL SIDE OF MALE TERMINALS