

# P0974 / P0977 Shift Solenoid "A" Control Circuit High / Shift Solenoid "B" Control Circuit High

## Wiring Diagram

Refer to "DTC P0973 / P0976 Shift Solenoid "A" Control Circuit Low / Shift Solenoid "B" Control Circuit Low: ".

## DTC Detecting Condition and Trouble Area

DTC Detecting Condition	Trouble Area
Voltage of shift solenoid valve TCM terminal is high although TCM is commanding shift solenoid to turn OFF. (1 driving cycle detection logic)	<ul style="list-style-type: none"> <li>• Shift solenoid valve circuit open or shorted to power circuit.</li> <li>• Malfunction of shift solenoid valve.</li> <li>•TCM</li> </ul>

- 1) Connect scan tool to DLC with ignition switch OFF.
- 2) Clear DTCs in TCM and ECM memories by using scan tool.
- 3) Start engine and shift select lever to "D" range.
- 4) Start vehicle and increase vehicle speed to 60 km/h (37 mile/h) in "D" range.
- 5) Keep on driving in the speed for 20 seconds and decrease vehicle speed gradually.
- 6) Stop vehicle.
- 7) Check DTC, pending DTC and freeze-frame data.

## DTC Troubleshooting

	Action	Yes	No
1	Was "A/T System Check" performed?	Go to Step 2.	Go to "A/T System Check".
2	<p><b>Check shift solenoid valve circuit for power supply short</b></p> <p>1) Disconnect TCM connectors. 2) Check for proper connection to TCM at terminal "E92-16" (for shift solenoid valve-A), "E92-15" (for shift solenoid valve-B). 3) If connection is OK, turn ignition switch ON and measure voltage between terminal "E92-16" (for shift solenoid valve-A), "E92-15" (for shift solenoid valve-B) of disconnected harness side TCM connector and ground. Is it 0 – 2 V?</p>	Go to Step 3.	<p>DTC P0974: Shift solenoid valve-A circuit is shorted to power supply circuit. DTC P0977: Shift solenoid valve-B circuit is shorted to power supply circuit.</p>
3	<p><b>Check solenoid valve circuit for open</b></p> <p>1) Check continuity between terminal "E92-16" (for solenoid valve-A) or "E92-15" (for solenoid valve-B) of disconnected harness side TCM connector and ground. Is it infinity?</p>	<p>DTC P0974: Solenoid valve-A circuit is open circuit. DTC P0977: Solenoid valve-B circuit is open circuit. If circuit is OK, go to step 4.</p>	Go to Step 4.

Step	Action	Yes	No
4	<p><b>Inspection solenoid valve</b></p> <p>1) Inspection solenoid valve referring to "Solenoid Valves (Shift Solenoid-A, Shift Solenoid-B, TCC Pressure Control Solenoid and Pressure Control Solenoid Inspection: ". Is check results satisfactory?</p>	<p>Intermittent trouble or faulty TCM. Check for intermittent trouble referring to "Intermittent and Poor Connection Inspection: in Section 00". If OK, substitute a known-good TCM and recheck.</p>	<p>Replace defective solenoid valve referring to "Solenoid Valves (Shift Solenoid-A, Shift Solenoid-B, TCC Pressure Control Solenoid and Pressure Control Solenoid Removal and Installation: ".</p>

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