

P1875 4L Switch Circuit Malfunction (Open)

Wiring Diagram

Refer to "DTC P1874 4L Switch Circuit Malfunction (Short):".

DTC Detecting Condition and Trouble Area

DTC Detecting Condition	Trouble Area
Actual transfer position is 4L although TCM detected low switch is	• 4L/N switch or its circuit.
turned OFF with vehicle speed between 29 km/h (18 mile/h) and	• TCM
88 km/h (55 mile/h).	
(1 driving cycle detection logic)	

DTC Confirmation Procedure

- 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 transfer position switch to "4L" position.
- 4) Keep engine running at idle speed for 10 seconds or more with select lever "D" range.
- 5) Start vehicle and increase vehicle speed to about 50 km/h (31 mile/h) in "4L" position for 2 minutes.
- 6) Stop vehicle.
- 7) Check DTC, pending DTC and freeze-frame data.

DTC Troubleshooting

Step	Action	Yes	No
1	<p>Vehicle speed signal check</p> <p>1) Check DTC in ECM and ABS hydraulic unit / control module referring to "DTC Check: in Section 1A" or "DTC Check: in Section 4E".</p> <p>Is there DTC P P0500: Vehicle speed sensor (VSS) malfunction in ECM and/or DTC C1021, C1022, C1025, C1026, C1031, C1032, C1035 and/or C1036 in ABS hydraulic unit / control module?</p>	Go to applicable DTC diag. flow.	Go to Step 2.
2	Was "A/T System Check" performed?	Go to Step 3.	Go to "A/T System Check".
3	Do you have SUZUKI scan tool?	Go to Step 4.	Go to Step 5.
4	<p>4L switch and its circuit check</p> <p>1) Connect SUZUKI scan tool to DLC with ignition switch OFF.</p> <p>2) Turn ignition switch ON.</p> <p>3) Select "DATA LIST" mode on scan tool.</p> <p>4) Check 4L/N switch signal (ON or OFF) on display when turning transfer position switch to each position.</p> <p>4L/N switch specifications "4H" position: OFF "4L" position: ON</p> <p>Is OFF / ON displayed as described above?</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.	Go to Step 6.

Step	Action	Yes	No
5	<p>4L/N switch and its circuit check 1) Turn ignition switch ON. 2) Check terminal voltage "E93-4" of TCM connector connected when turning transfer position switch to each position.</p> <p>4L/N switch specifications "4H" position: 10 – 14 V "4L" position: 0 – 1 V Is voltage as specified?</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>Go to Step 6.</p>
6	<p>4L/N switch check 1) Check 4L/N switch for operation referring to "Transfer Assembly Inspection: Motor-Shift Type (Transfer with Shift Actuator) in Section 3C". Is check result satisfactory?</p>	<p>4L/N switch circuit open. If wire and connections are OK, substitute a known-good TCM and recheck.</p>	<p>Replace 4L/N switch.</p>