P0751 / P0752 Shift Solenoid-A Performance or Stuck OFF / Shift Solenoid-A Stuck ON

DTC Detecting Condition and Trouble Area

DTC Detecting Condition	Trouble Area
DTC P0751: When one of the following condition was detected while vehicle running at 5 km/h (3.1 mile/h) or more in "D" range after engine being warmed up. • 4th gear ratio is detected although TCM command is for 1st gear (See table below *1) Or • 3rd gear ratio is detected although TCM command is for 2nd gear (See table below *2). (2 driving cycle detection logic) 2nd gear ratio is detected although TCM command is for 3rd gear while vehicle running at 5 km/h (3.1 mile/h) or more in "D" range after engine being warmed up. (2 driving cycle detection logic)	Mechanical malfunction of shift solenoid valve– A. Malfunction of valve body assembly. Fluid passage clogged or leaking. Mechanical malfunction of automatic transmission (clutch, brake or gear etc).

Table for detecting condition

TCM output gear position		1st	2nd	3rd	4th
Actual gear position	Stuck OFF (DTC P0751)	4th *1	3rd *2	3rd	4th
	Stuck ON (DTC P0752)	1st	2nd	2nd	4th

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 warm it up to normal operating temperature.
4) Shift select lever to "N" and "D" range for each 10 seconds.
5) Start vehicle and increase vehicle speed to 60 km/h (37 mile/h) with throttle position 40% or more.

6) Stop vehicle and turn ignition switch OFF.

7) Repeat Step 3) to 5) one time.

8) Stop vehicle.

9) Check DTC, pending DTC and freeze-frame data.

DTC Troubleshooting

Step	Action	Yes	No
1	Was "A/T System Check" performed?	Go to Step 2.	Go to "A/T System Check: ".
2	Check shift solenoid valve–A for operation referring to "Solenoid Valves (Shift Solenoid-A, Shift Solenoid-B, TCC Pressure Control Solenoid and Pressure Control Solenoid Inspection: ". Are they in good condition?	Clean fluid passage or replace valve body assembly.	Replace shift solenoid valve–A.