P1777: TCM Lost Communication with ECM (Reception Error)

Wiring Diagram

Refer to "DTC P1774: CAN Communication Bus Off: ".

DTC Detecting Condition and Trouble Area

DTC Detecting Condition	Trouble Area
Reception error of communication data for ECM is detected for longer than specified time continuously. (1 driving cycle detection logic)	•ECM • ABS hydraulic unit / control module •TCM • CAN communication line circuit

DTC Confirmation Procedure

1) Connect scan tool to DLC with ignition switch turned OFF.
2) Turn ON ignition switch and clear DTC by using scan tool.
3) Start engine and run it for 1 min. or more.
4) Check DTC and pending DTC.

DTC Troubleshooting

NOTE
**Upon completion of inspection and repair work, perform "DTC
Confirmation Procedure: " and confirm
that the trouble has been corrected.**

Step	Action	Yes	No
1	Was "A/T System Check" performed?	Go to Step 2.	Go to "A/T System Check: ".
2	**Control module connector check 1) Check connection of connectors of all control modules communicating by means of CAN.** **2) Recheck DTC in TCM referring to "DTC Check: ". Is there DTC P1777?**	Go to Step 3.	Intermittent trouble. Check for intermittent referring to "Intermittent and Poor Connection Inspection: in Section 00".
3	**DTC check in ABS hydraulic unit / control module** 1) Check DTC in ABS hydraulic unit / control module. Is there DTC U1100?	Go to Step 4.	Go to Step 5.
4	**DTC check** 1) Check DTC in ECM referring to "DTC Check: in Section 1A". Is there DTC P1674?	Go to "DTC P1674: CANCommunication (Bus Off Error): in Section 1A".	Check ECM power and ground circuit. If circuit is OK, CAN communication circuit between ECM and ABS hydraulic unit / control module is open circuit.
5	**CAN communication circuit check** 1) Turn ignition switch to OFF position. 2) Disconnect connectors of all control modules communicating by means of CAN. 3) Check CAN communication circuit between control modules for open, short and high resistance. Is each CAN communication circuit in good condition?	Check TCM power and ground circuit. If circuit is OK, substitute a known-good TCM and recheck.	Repair circuit.