U1000, U1002 CAN COMM CIRCUIT

Description

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring.Each control unit transmits/receives data but selectively reads required data only.

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
U1000	CAN COMM CIRCUIT	When ABS actuator and electric unit (control unit) is not transmitting or receiving CAN communication signal for 2 seconds or more.	• CAN communication line • ABS actuator and electric unit (control unit)
U1002	SYSTEM COOM	When ABS actuator and electric unit (control unit) is not transmitting or receiving CAN communication signal for 2 seconds or less.	

DTC CONFIRMATION PROCEDURE

1).Turn the ignition switch ON.
2).Perform ABS actuator and electric unit (control unit) self-diagnosis.
3).Is DTC "U1000" or "U1002" detected?
YES >> Proceed to diagnosis procedure.
NO >> INSPECTION END

Diagnosis Procedure

1).CHECK CONNECTOR

A).Turn the ignition switch OFF.

B).Disconnect ABS actuator and electric unit (control unit) connector.

C).Check terminal for deformation, disconnection, looseness, etc.

D).Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to diagnosis procedure.

Special Repair Requirement

1).ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION, CALIBRATION OF YAW RATE/SIDE/DECEL G SENSOR AND CALIBRATION OF PRESSURE SENSOR.

2).After removing/replacing an ABS actuator and electric unit (control unit), be sure to perform the following procedure.