DTC	U0073/94	Control Module Communication Bus OFF

DTC	U0100/65	Lost Communication with ECM / PCM

DTC	U0123/62	Lost Communication with Yaw Rate Sensor Module

DTC	U0124/95	Lost Communication with Lateral Acceleration Sensor Module

DTC	U0126/63	Lost Communication with Steering Angle Sensor Module

DESCRIPTION

DTC No.	DTC Detection Condition	Trouble Area
U0073/94	When one of following conditions is met: 1. With the IG1 terminal voltage 10 V or more, after the output of data from the skid control ECU is completed, the sending continues for 5 seconds or more. 2. The condition that bus OFF state occurs once or more within 100 ms occurs 10 times in succession. (Sent signals cannot be received.) 3. With the IG1 terminal voltage 10 V or more, a delay in receiving data from the yaw rate and acceleration sensor and steering angle sensor continues for 1 second or more. 4. With the IG1 terminal voltage 10 V or more, the condition that a delay in receiving data from the yaw rate and acceleration sensor occurs more than once within 5 seconds occurs 10 times in succession.	CAN communication system
U0100/65	When either condition below is met: 1. With the IG1 terminal voltage 10 V or more and the vehicle speed 15 km/h (9 mph) or more, data cannot be sent to the ECM for 2 seconds or more. 2. With the IG1 terminal voltage 10 V or more and the vehicle speed 15 km/h (9 mph) or more for 2 seconds or more.	CAN communication system (Skid control ECU to ECM)
U0123/62	When either condition below is met: 1. With the IG1 terminal voltage 10 V or more, data from the acceleration sensor cannot be received for 1 second or more. 2. With the IG1 terminal voltage 10 V or more, the following occurs 10 times in succession within 60 seconds. (a) The condition that data from the acceleration sensor cannot be received occurs once or more within 5 seconds.	CAN communication system (Skid control ECU to yaw rate and acceleration sensor)
U0124/95	When either condition below is met: 1. With the IG1 terminal voltage 10 V or more, data from the acceleration sensor cannot be received for 1 second or more. 2. With the IG1 terminal voltage 10 V or more, the following occurs 10 times in succession within 60 seconds. (a) The condition that data from the acceleration sensor cannot be received occurs once or more within 5 seconds.	CAN communication system (Skid control ECU to yaw rate and acceleration sensor)

DTC No.	DTC Detection Condition	Trouble Area
U0126/63	When either of following conditions detected: 1. When IG1 terminal voltage 10 V or more, data from steering sensor cannot be received for 1 second or more. 2. When IG1 terminal voltage 10 V or more, following condition occurs 10 times in succession.	CAN communication system

INSPECTION PROCEDURE

The skid control ECU inputs the signals from the ECM, steering angle sensor, and yaw rate and acceleration sensor via CAN communication system.

1 CHECK HARNESS AND CONNECTOR (MOMENTARY INTERRUPTION)

(a) Using the DATA LIST of the intelligent tester, check for any momentary interruption in the wire harness and connector corresponding to a DTC (see page BC-23).

Skid control ECU:

Item (Display)	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
EFI COM OPN	EFI communication open detection / ERROR or NORMAL	ERROR: Momentary interruption NORMAL: Normal	-
STEERING OPN	Steering sensor open detection / ERROR or NORMAL	ERROR: Momentary interruption NORMAL: Normal	-
YAW RATE OPN	Yaw rate sensor open detection / ERROR or NORMAL	ERROR: Momentary interruption NORMAL: Normal	-

Result

Condition	Proceed to
There is a constant open circuit	A
There are no momentary interruptions	B
There are momentary interruptions	C

HINT:
Perform the above inspection before removing the sensor and connector.

B → **Go to step 3**

C → **Go to step 4**

A

2 CHECK IF EACH SENSOR AND ECM CONNECTOR IS SECURELY CONNECTED

(a) Check if each sensor or ECM connector is securely connected.

OK:

The connector should be securely connected.

NG → **CONNECT CONNECTOR TO EACH SENSOR OR ECM CORRECTLY**

OK

3	RECONFIRM DTC

(a) Record the output DTCs (for ABS, VSC and CAN communication) (see page BC-47).
HINT:
If the CAN communication system DTC and the relevant sensor DTCs are output simultaneously, troubleshoot the relevant sensor DTCs (for ABS and VSC) after the CAN communication system returns to normal.

Result

Condition	Proceed to
DTC (CAN communication system DTC) is not output	A
DTC (ABS and/or VSC DTC) is output	B
DTC is not output	C

B → **REPAIR CIRCUIT INDICATED BY OUTPUT CODE**

C → **USE SIMULATION METHOD TO CHECK**

BC

A

INSPECT CAN COMMUNICATION SYSTEM

4	REPAIR OR REPLACE HARNESS AND CONNECTOR

(a) Repair or replace the harness or connector.
(b) Check for any momentary interruption between the skid control ECU and each sensor or ECM (see page BC-23).
(c) Check that there is no momentary interruption.

NEXT

5	RECONFIRM DTC

(a) Clear the DTC (see page BC-47).
(b) Turn the ignition switch ON.
(c) Drive the vehicle and turn the steering wheel to the right and left at a speed of 15 km/h (9 mph) or more.
(d) Check that no CAN communication system DTC is output (see page BC-47).
(e) If ABS and/or VSC DTCs are output, record them.

Result

Condition	Proceed to
DTC for the CAN communication system is not output	A
No DTC is output (ABS and/or VSC DTC are output)	B

Condition	Proceed to
No DTC is output (No ABS and/or VSC DTC are output)	C

HINT:
The CAN communication system must be normal when repairing the sensor DTCs (for ABS and VSC).

B	**REPAIR CIRCUIT INDICATED BY OUTPUT CODE**
C	**END**

A

INSPECT CAN COMMUNICATION SYSTEM