DTC	C1232/32	Stuck in Deceleration Sensor

DTC	C0371/71	Yaw Rate Sensor (Test Mode DTC)

DTC	C1234/34	Yaw Rate Sensor Malfunction

DTC	C1243/43	Acceleration Sensor Stuck Malfunction

DTC	C1244/44	Open or Short in Deceleration Sensor Circuit

DTC	C1245/45	Acceleration Sensor Output Malfunction

DTC	C1279/79	Deceleration Sensor Output Voltage Malfunction (Test Mode DTC)

DTC	C1381/97	Yaw Rate and / or Acceleration Sensor Power Supply Voltage Malfunction

DESCRIPTION

The skid control ECU receives signals from the yaw rate and deceleration sensor via the CAN communication system.
The yaw rate sensor has a built-in deceleration sensor and detects the vehicle's condition using 2 circuits (GL1: G sensor 1, GL2: G sensor 2).
If there is trouble in the bus lines between the yaw rate and deceleration sensor and the CAN communication system, DTC U0123/62 (malfunction in CAN communication with the yaw rate sensor) and U0124/95 (malfunction in CAN communication with the deceleration sensor) are output.
These DTCs are also output when the calibration has not been completed.
DTCs C0371/71 and C1279/79 are deleted when the yaw rate and deceleration sensor sends a yaw rate and/or deceleration signal or test mode ends. DTCs C0371/71 and C1279/79 are output only in test mode.

DTC No.	DTC Detection Condition	Trouble Area
C1232/32	At vehicle speed of 10 km/h (6 mph) or more, either GL1 or GL2 (input signal) does not change for 30 seconds or more.	• Yaw rate sensor • Yaw rate sensor circuit
C0371/71	Detected only during test mode	• Yaw rate sensor • Yaw rate sensor circuit
C1234/34	Sensor malfunction signal received from yaw rate sensor.	• Yaw rate sensor • Yaw rate sensor circuit
C1243/43	While vehicle speed changes from 30 km/h (19 mph) to 0 km/h (0 mph), condition that values of GL1 and GL2 do not change occurs 16 times or more.	• Yaw rate sensor • Yaw rate sensor circuit
C1244/44	When either condition below is met: 1. IG terminal voltage is 9.5 V to 17.2 V and YD1 malfunction signal from yaw rate sensor is received. 2. After difference between GL1 and GL2 becomes 0.6 G or more with vehicle stationary, difference remains 0.4 G or more for 60 seconds or more.	• Yaw rate sensor • Yaw rate sensor circuit

DTC No.	DTC Detection Condition	Trouble Area
C1245/45	At vehicle speed of 30 km/h (19 mph) or more, difference between forward and backward G calculated from deceleration sensor value and that calculated from vehicle speed sensor value exceeds 0.35 G for 60 seconds or more.	• Yaw rate sensor • Yaw rate sensor circuit
C1279/79	Detected only during test mode.	• Yaw rate sensor • Yaw rate sensor circuit
C1381/97	At vehicle speed of more than 3 km/h (2 mph), deceleration sensor power source malfunction signal received for 10 seconds or more.	• Yaw rate sensor • Yaw rate sensor circuit

WIRING DIAGRAM

Refer to DTC C1210/23, C1336/39 (see page BC-89).

INSPECTION PROCEDURE

NOTICE:

When replacing yaw rate and deceleration sensor, perform zero point calibration (see page BC-24).

HINT:

When DTC U0123/62, U0124/95 or U0126/63 is output together with DTC C1232/32, C1234/34, C1243/43, C1244/44, C1245/45, or C1387/97, inspect and repair the trouble areas indicated by DTC U0123/62, U0124/95 or U0126/63 first.

BC

1 CHECK DTC

(a) Clear the DTC (see page BC-47).
(b) Turn the ignition switch OFF.
(c) Turn the ignition switch ON again and check that no CAN communication system DTC(s) is output.
(d) Drive the vehicle at a speed of 30 km/h (19 mph) or more and check that no DTCs are output.

Result

Result	Proceed to
DTC is output (relating to yaw rate and deceleration sensor)	A
DTC is output (relating to CAN communication system)	B
DTC is not output	C

B → **REPAIR CAN COMMUNICATION SYSTEM**

C → **END**

A

2 CHECK YAW RATE SENSOR INSTALLATION

(a) Check that the yaw rate sensor has been installed correctly (see page BC-211).

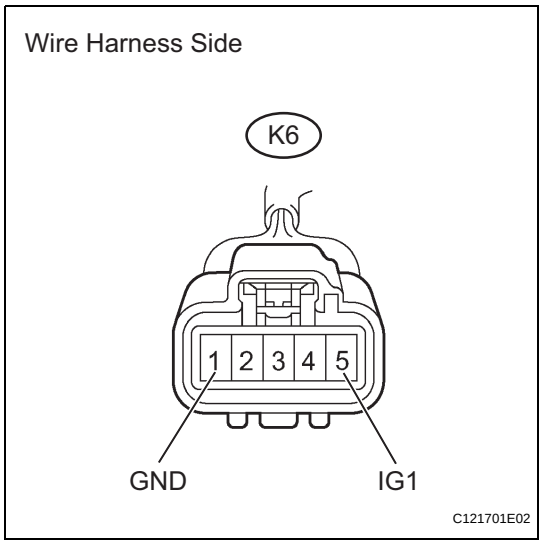
OK:

The sensor is tightened to the specified torque.
The sensor is not tilted.

NG → **INSTALL YAW RATE SENSOR CORRECTLY**

OK

3 CHECK WIRE HARNESS (YAW RATE SENSOR - BATTERY AND BODY GROUND)



(a) Disconnect the K6 sensor connector.

(b) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Condition	Specified Condition
K6-5 (IG) - Body ground	Ignition switch ON	10 to 14 V

(c) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
K6-1 (GND) - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

REPLACE YAW RATE SENSOR

BC