

DTC	C1232/32	Stuck in Deceleration Sensor
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	C1381/97	Yaw Rate and / or Acceleration Sensor Power Supply Voltage Malfunction

DESCRIPTION

The skid control ECU receives signals from the yaw rate and acceleration sensor via the CAN communication system.

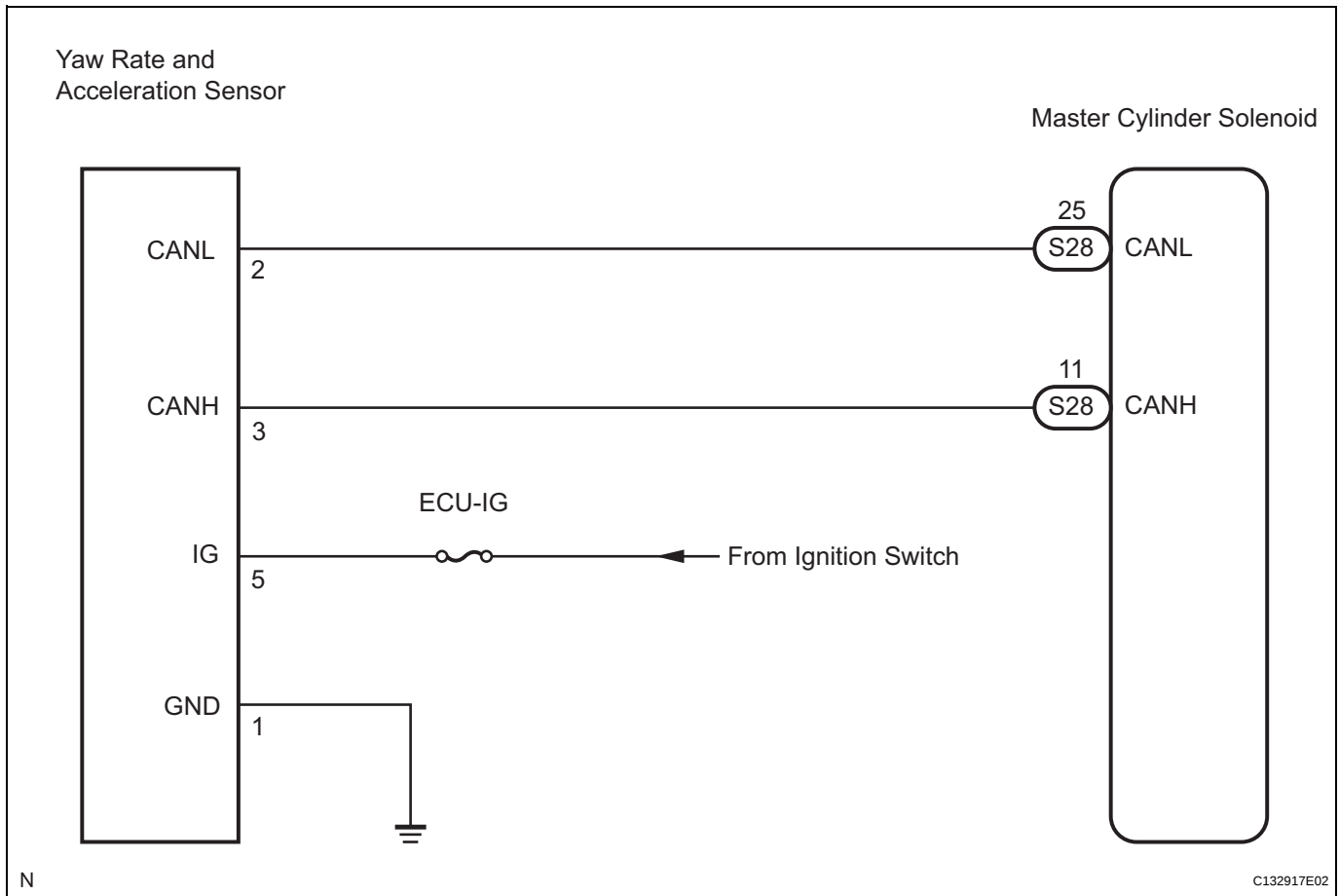
The yaw rate sensor has a built-in acceleration sensor.

If there is trouble in the bus lines between the yaw rate and acceleration sensor and the CAN communication system, the DTC U0123/62 (yaw rate sensor communication trouble) and U0124/95 (acceleration sensor communication trouble) are output.

These DTCs are also output when the calibration has not been completed.

DTC No.	DTC Detection Condition	Trouble Area
C1232/32	At a vehicle speed of 6 mph (10 km/h) or more, the fluctuation range of the signal from either GL1 or GL2 is under 80 mV and the other is above 1.9 V for 30 seconds or more.	- Yaw rate and acceleration sensor - Yaw rate and acceleration sensor circuit - CAN communication system
C1234/34	Sensor malfunction signal is received from yaw rate sensor.	- Yaw rate and acceleration sensor - Yaw rate and acceleration sensor circuit - CAN communication system
C1243/43	The following condition repeats 16 times. GL1 and GL2 do not change by more than 2LSB when the vehicle decelerates from 19 mph (30 km/h) to 0 mph (0 km/h).	- Yaw rate and acceleration sensor - Yaw rate and acceleration sensor circuit - CAN communication system
C1244/44	When either of the following conditions is detected: - Both of the following conditions continue for at least 60 seconds. - Vehicle is stopped. - Difference between GL1 and GL2 does not drop below 0.4 G once it reaches 0.6 G or more. - Data malfunction signal is received from acceleration sensor.	- Yaw rate and acceleration sensor - Yaw rate and acceleration sensor circuit - CAN communication system
C1245/45	The following condition continues for at least 60 seconds. Difference between the values calculated from acceleration sensor value and vehicle speed exceeds 0.35 G.	- Yaw rate and acceleration sensor - Yaw rate and acceleration sensor circuit - CAN communication system
C1381/97	acceleration sensor power source malfunction signal is received for at least 10 seconds at a speed of more than 2 mph (3 km/h).	- Yaw rate and acceleration sensor - Yaw rate and acceleration sensor power source circuit - CAN communication system

WIRING DIAGRAM



BC

INSPECTION PROCEDURE

NOTICE:

When replacing the yaw rate and acceleration sensor, perform zero point calibration (See page [BC-19](#)).

1 CHECK DTC

- Clear the DTCs (See page [BC-38](#)).
- Turn the ignition switch off.
- Turn the ignition switch to the ON position.
- Check if the DTCs (U0073/94, U0123/62, C1210/36 and/or C1336/39) are detected (See page [BC-38](#)).

Result

Condition	Proceed to
DTC U0073/94, U0123/62, C1210/36 and/or C1336/39 are not output	A
DTC U0073/94 and/or U0123/62 are output	B
DTC C1210/36 and/or C1336/39 are output	C

B

INSPECT CAN COMMUNICATION SYSTEM

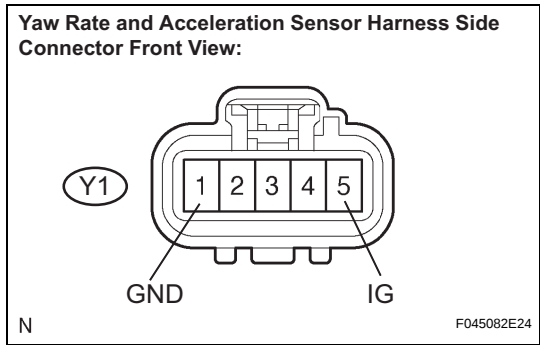
C

REPAIR CIRCUIT INDICATED BY OUTPUT DTC

A

2

INSPECT YAW RATE AND ACCELERATION SENSOR (IG AND GND TERMINAL)



- (a) Disconnect the yaw rate and acceleration sensor connector.
- (b) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
Y1-5 (IG) - Body ground	Ignition switch ON	10 to 14 V

- (c) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
Y1-1 (GND) - Body ground	Ignition switch OFF	Below 1 Ω

Result

Condition	Proceed to
OK (When troubleshooting in accordance with the DTC CHART)	A
OK (When troubleshooting in accordance with the PROBLEM SYMPTOMS TABLE)	B
NG	C

BC

B

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

C

REPAIR OR REPLACE HARNESS OR CONNECTOR (IG OR GND CIRCUIT)

A

REPLACE YAW RATE AND ACCELERATION SENSOR