DTC	C1232/32	MALFUNCTION IN DECELERATION SENSOR

DTC	C1234/34	MALFUNCTION IN YAW RATE SENSOR

DTC	C1243/43	MALFUNCTION IN DECELERATION SENSOR (CONSTANT OUTPUT)

DTC	C1244/44	OPEN OR SHORT CIRCUIT IN DECELERATION SENSOR CIRCUIT

DTC	C1245/45	MALFUNCTION IN DECELERATION SENSOR

DTC	C1381/97	MALFUNCTION IN POWER SUPPLY VOLTAGE OF YAW/DECELERATION SENSOR

CIRCUIT DESCRIPTION

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

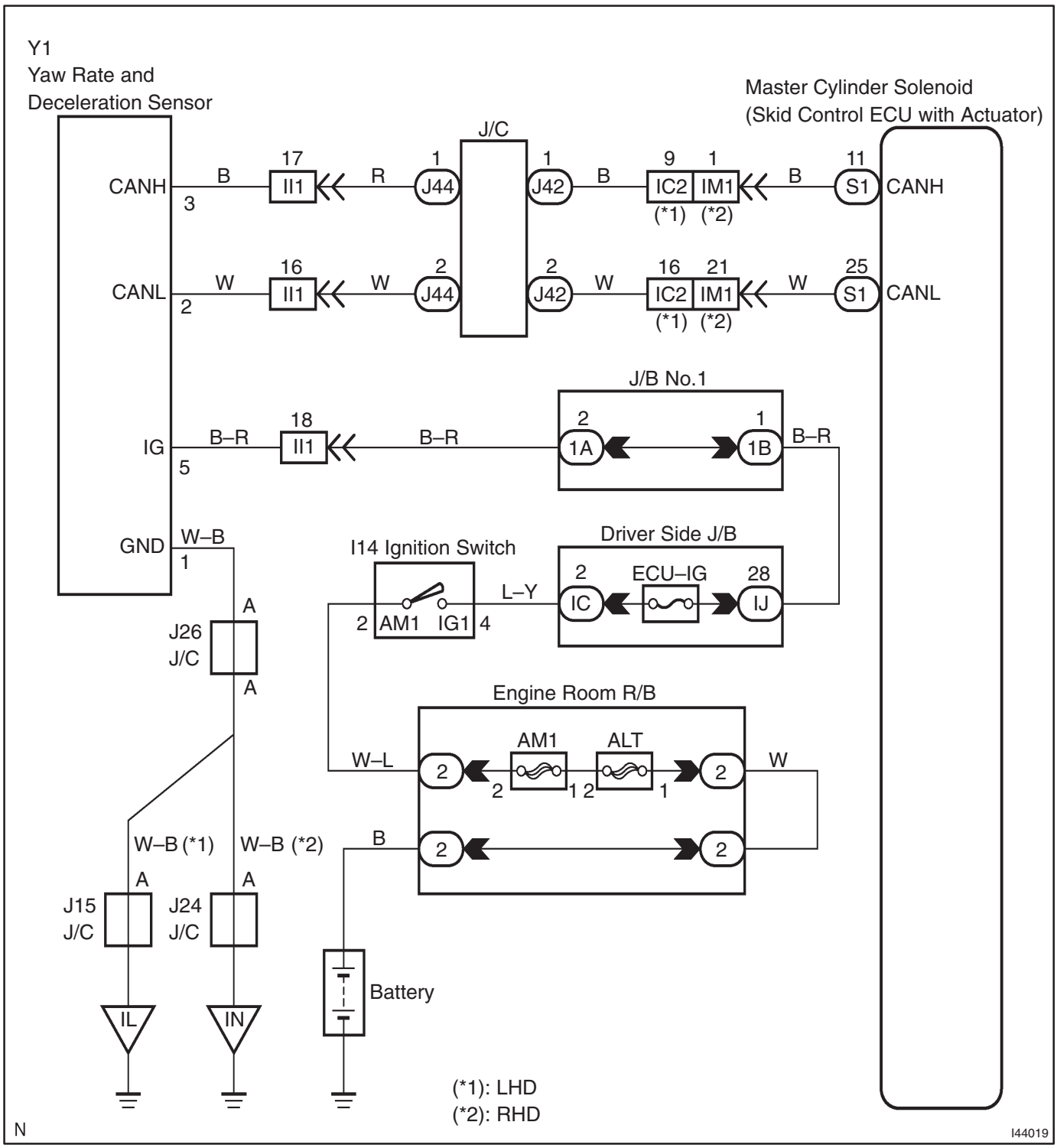
The yaw rate sensor has a built–in deceleration sensor.

If there is trouble in the bus lines between the yaw rate and deceleration sensor and the CAN communication system, the DTC U0123/62 (yaw rate sensor communication trouble) and U0124/95 (deceleration 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 deceleration sensor • Yaw rate and deceleration sensor circuit • CAN communication system
C1234/34	Sensor malfunction signal is received from yaw rate sensor.	• Yaw rate and deceleration sensor • Yaw rate and deceleration 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 deceleration sensor • Yaw rate and deceleration sensor circuit • CAN communication system
C1244/44	When either of the following conditions is detected: 1. 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. 2. Data malfunction signal is received from deceleration sensor.	• Yaw rate and deceleration sensor • Yaw rate and deceleration sensor circuit • CAN communication system
C1245/45	The following condition continues for at least 60 seconds. • Difference between the values calculated from deceleration sensor value and vehicle speed exceeds 0.35 G.	• Yaw rate and deceleration sensor • Yaw rate and deceleration sensor circuit • CAN communication system
C1381/97	Deceleration sensor power source malfunction signal is received for at least 10 sec. at a speed of more than 2 mph (3 km/h).	• Yaw rate and deceleration sensor • Yaw rate and deceleration sensor power source circuit • CAN communication system

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

When replacing the yaw rate and deceleration sensor, perform zero point calibration (see page 05–744).

1	CHECK DTC

(a) Clear the DTCs (see page 05–766).
(b) Turn the ignition switch off.
(c) Turn the ignition switch to the ON position.
(d) Check if the DTCs (U0073/94, U0123/62, C1210/36 and/or C1336/39) are detected (see page 05–766).

Result:

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

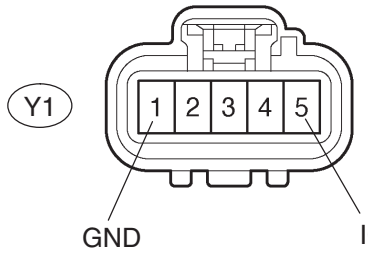
B → **REPAIR CAN COMMUNICATION SYSTEM ACCORDING TO OUTPUT CODE (SEE PAGE 05–1446)**

C → **REPAIR CIRCUIT ACCORDING TO OUTPUT CODE (SEE PAGE 05–776)**

A

2 INSPECT YAW RATE AND DECELERATION SENSOR (TERMINAL VOLTAGE AND CONTINUITY)

Yaw Rate and Deceleration Sensor (Wire Harness Side) Connector Front View:



(a) Disconnect the yaw rate and deceleration sensor connector.

(b) Measure the voltage according to the value(s) in the table below.

Standard:

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:

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

Result:

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

B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–759)**

C → **REPAIR OR REPLACE HARNESS OR CONNECTOR (IG OR GND CIRCUIT)**

A

REPLACE YAW RATE AND DECELERATION SENSOR (SEE PUB. NO. RM990E, PAGE 32–91)