DTC	C1232/32	MALFUNCTION IN DECELERATION SENSOR

DTC	C1234/34	MALFUNCTION IN YAW RATE SENSOR

DTC	C1243/43	MALFUNCTION IN DECELERATION SENSOR

DTC	C1244/44	OPEN OR SHORT IN DECELERATION SENSOR CIRCUIT

DTC	C1245/45	MALFUNCTION IN DECELERATION SENSOR

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

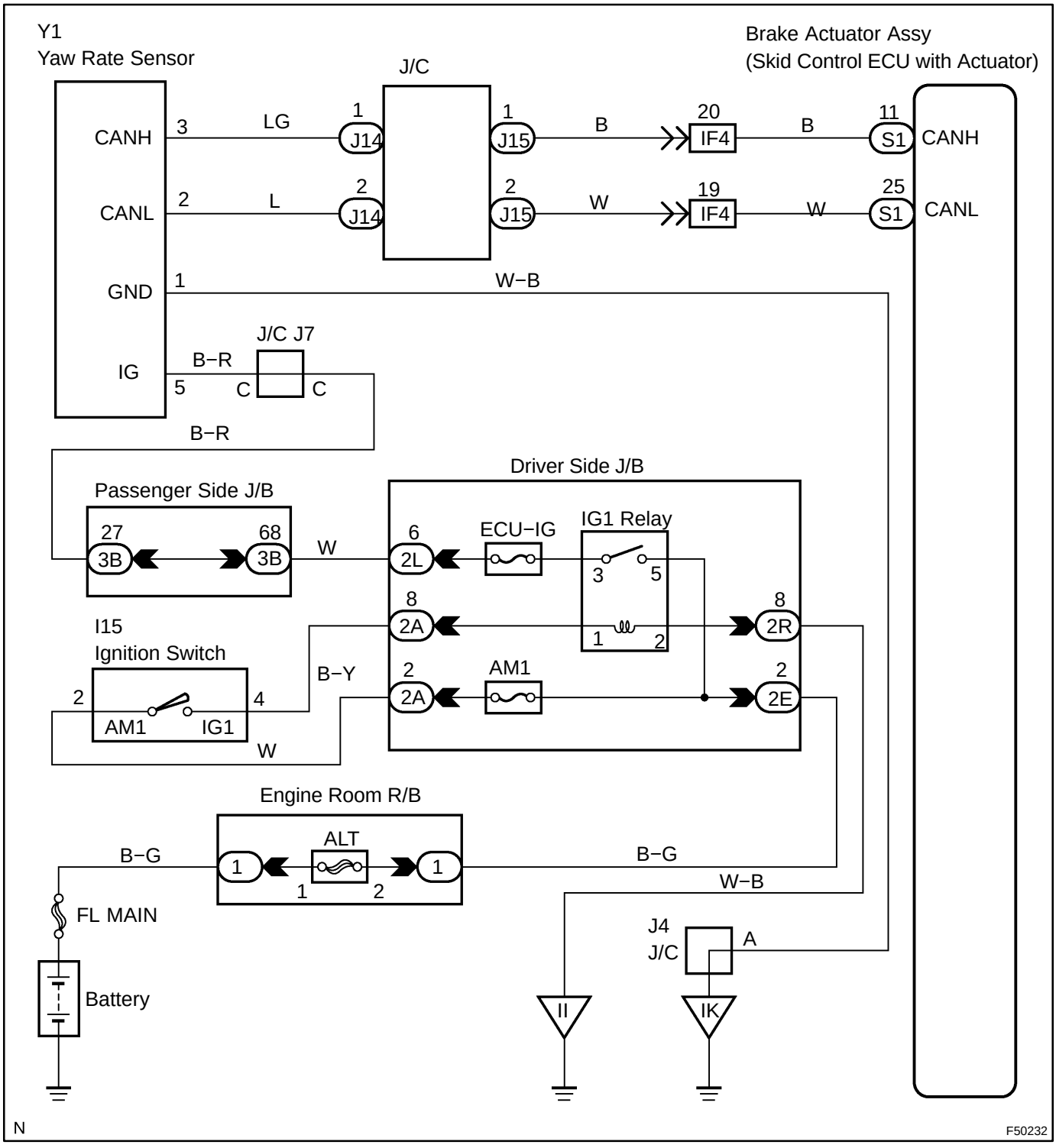
CIRCUIT DESCRIPTION

The yaw rate sensor and deceleration sensor signals are sent to the skid control ECU through the CAN communication system. When there is a malfunction in the communication, it will be detected by the diagnosis function.

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

DTC No.	DTC Detecting Condition	Trouble Area
C1232/32	While the vehicle is at a speed of 6 mph (10 km/h) or more, the condition that the fluctuation range of the signal from either GL1 or GL2 is under 80 mV and the other is above 1.9 V continues for 30 seconds or more.	• Yaw rate (deceleration) sensor • Yaw rate (deceleration) sensor circuit • CAN communication system
C1234/34	Sensor malfunction signal is received from yaw rate sensor.	• Yaw rate (deceleration) sensor • Yaw rate (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 (deceleration) sensor • Yaw rate (deceleration) sensor circuit • CAN communication system
C1244/44	When any of the following (1 to 2) is detected: (1) All the following conditions continue for at least 60 seconds. • Vehicle is stopped. • Difference between IGL1 and IGL2 does not drop below 0.4G once it reaches 0.6G or more. (2) Data malfunction signal is received from G sensor.	• Yaw rate (deceleration) sensor • Yaw rate (deceleration) sensor circuit • CAN communication system
C1245/45	The following condition continues for at least 60 seconds. • Difference between the values calculated from G sensor value and vehicle speed exceeds 0.35G.	• Yaw rate (deceleration) sensor • Yaw rate (deceleration) sensor circuit • CAN communication system
C1381/97	• G 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 (deceleration) sensor • Yaw rate (deceleration) sensor circuit

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

When U0073/94, U0100/65, U0121/94, U0123/62, U0124/95 and/or U0126/63 are output together with C1232/32, C1234/34, C1243/43, C1244/44, C1245/45 or C1381/97, inspect and repair the trouble areas indicated by U0121/94, U0123/62, U0124/95 or U0126/63 first.

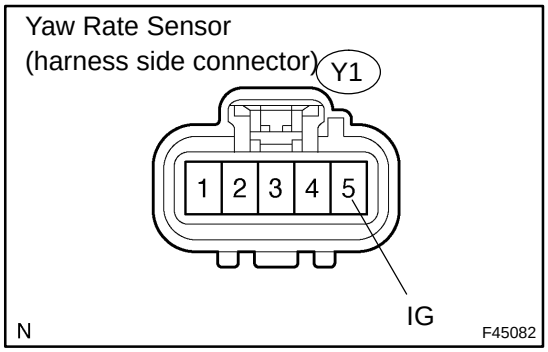
1	CHECK SENSOR INSTALLATION(YAW RATE SENSOR)

(a) Check that the yaw rate sensor has been installed properly (see page 32−71).

NG → **INSTALL YAW RATE SENSOR CORRECTLY**

OK

2	CHECK HARNESS AND CONNECTOR(IG TERMINAL)



(a) Disconnect the yaw rate sensor connector.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.

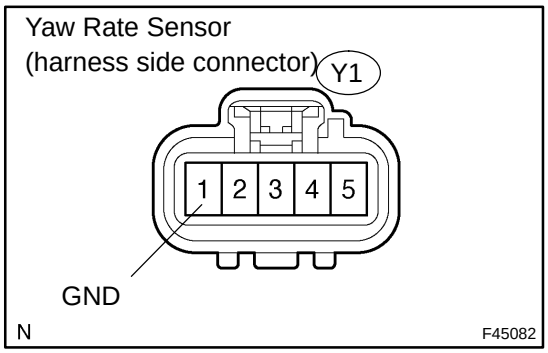
Standard:

Tester Connection	Specified Condition
Y1−5 (IG) − Body ground	10 to 14 V

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

OK

3	CHECK HARNESS AND CONNECTOR(GND TERMINAL)



(a) Disconnect the yaw rate sensor connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
Y1−1 (GND) − Body ground	Below 1 Ω

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

OK

REPLACE YAWRATE SENSOR ASSY (SEE PAGE 32−71)