

<b>DTC</b>	<b>C1232/32</b>	<b>MALFUNCTION IN DECELERATION SENSOR</b>
<b>DTC</b>	<b>C1234/34</b>	<b>MALFUNCTION IN YAW RATE SENSOR</b>
<b>DTC</b>	<b>C1243/43</b>	<b>MALFUNCTION IN DECELERATION SENSOR</b>
<b>DTC</b>	<b>C1244/44</b>	<b>OPEN OR SHORT IN DECELERATION SENSOR CIRCUIT</b>
<b>DTC</b>	<b>C1245/45</b>	<b>MALFUNCTION IN DECELERATION SENSOR</b>
<b>DTC</b>	<b>C1381/97</b>	<b>MALFUNCTION IN POWER SUPPLY VOLTAGE YAW/DECELERATION SENSOR</b>

## CIRCUIT DESCRIPTION

The yaw rate and deceleration sensor detect any gravity applied to the vehicle and transmits the signal to the skid control ECU via CAN communication.

DTC No.	DTC Detecting Condition	Trouble Area
C1232/32	While the vehicle is at a speed of 10 km/h (6mph) 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.	<ul style="list-style-type: none"> <li>• Yaw rate (deceleration) sensor</li> <li>• Yaw rate (deceleration) sensor circuit</li> </ul>
C1234/34	Sensor malfunction signal is received from yaw rate sensor.	<ul style="list-style-type: none"> <li>• Yaw rate (deceleration) sensor</li> <li>• Yaw rate (deceleration) sensor circuit</li> </ul>
C1243/43	The following condition repeats 16 times. <ul style="list-style-type: none"> <li>• GL1 and GL2 do not change by more than 2LSB when the vehicle decelerates from 30 km/h (19 mph) to 0 km/h (0 mph).</li> </ul>	<ul style="list-style-type: none"> <li>• Yaw rate (deceleration) sensor</li> <li>• Yaw rate (deceleration) sensor circuit</li> </ul>
C1244/44	When any of the following (1 to 2) is detected: (1) All the following conditions continue for at least 60 seconds. <ul style="list-style-type: none"> <li>• Vehicle is stopped.</li> <li>• Difference between IGL11 and IGL21 does not drop below 0.4 G once it reaches 0.6 G or more.</li> </ul> (2) Data malfunction signal is received from G sensor.	<ul style="list-style-type: none"> <li>• Yaw rate (deceleration) sensor</li> <li>• Yaw rate (deceleration) sensor circuit</li> </ul>
C1245/45	The following condition continues for at least 60 seconds. <ul style="list-style-type: none"> <li>• Difference between the values calculated from G sensor value and vehicle speed exceeds 0.35 G at a speed of more than 30 km/h (19mph).</li> </ul>	<ul style="list-style-type: none"> <li>• Yaw rate (deceleration) sensor</li> <li>• Yaw rate (deceleration) sensor circuit</li> </ul>
C1381/97	<ul style="list-style-type: none"> <li>• G sensor power source malfunction signal is received for at least 10 sec. at a speed of more than 3 km/h (2 mph).</li> </ul>	<ul style="list-style-type: none"> <li>• Yaw rate (deceleration) sensor</li> <li>• Yaw rate (deceleration) sensor circuit</li> </ul>

**LHD: Y1**  
**Yaw Rate Sensor (Deceleration Sensor)**

**Instrument Panel J/B**  
 IG1 Relay  
 ECU-IG

**Engine Room R/B and J/B**  
 ALT

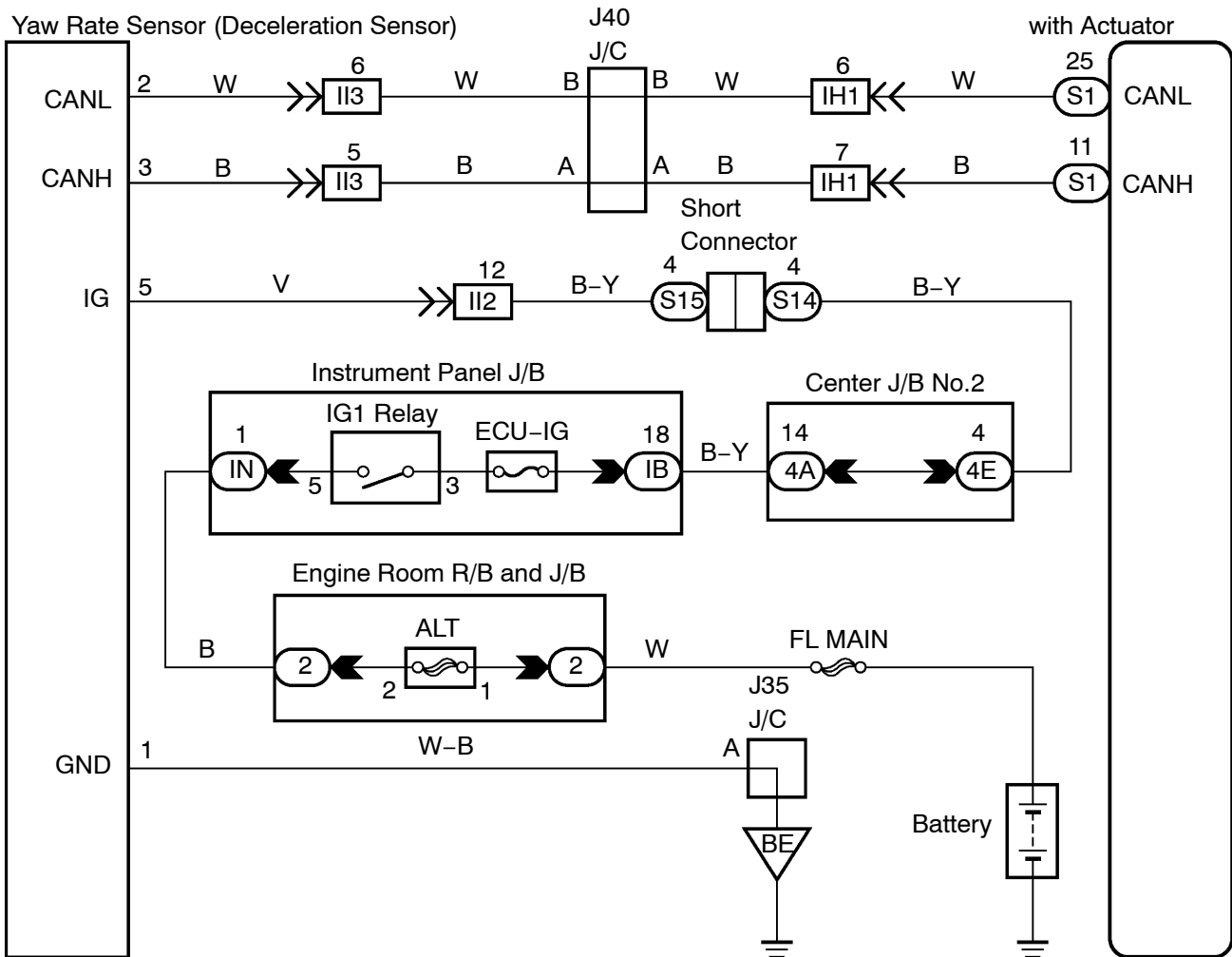
**Skid Control ECU with Actuator**

**Wiring Details:**  
 - **CANL:** Yaw Rate Sensor (Pin 2, W) → II2 (Pin 5, W) → J40 J/C (Pin B) → J40 J/C (Pin B) → IH1 (Pin 6, W) → Skid Control ECU (Pin 25, S1).  
 - **CANH:** Yaw Rate Sensor (Pin 3, B) → II2 (Pin 4, B) → J40 J/C (Pin A) → J40 J/C (Pin A) → IH1 (Pin 7, B) → Skid Control ECU (Pin 11, S1).  
 - **IG:** Yaw Rate Sensor (Pin 5, B-Y) → II2 (Pin 12, B-Y) → J16 J/C (Pin 49) → J16 J/C (Pin 13, SB (B-Y)) → Skid Control ECU (Pin 13, SB (B-Y)).  
 - **GND:** Yaw Rate Sensor (Pin 1, W-B) → J35 J/C (Pin A) → BE (Pin 1, W-B) → Battery.  
 - **FL MAIN:** Engine Room R/B and J/B (Pin 2, W) → FL MAIN → Battery.

**RHD:**

Y1

Yaw Rate Sensor (Deceleration Sensor)

Skid Control ECU  
with Actuator

N

F48253

INSPECTION PROCEDURE

HINT:  
When U0121/94, U0123/62, U0124/95 or U0126/63 is output together with C1232/32 or C1334/34, inspect and repair the trouble areas indicated by those DTCs first.

1 CHECK SENSOR INSTALLATION(YAW RATE AND DECELERATION SENSOR)

(a) Check that the yaw rate and deceleration sensor has been installed properly (see page 32-22).

OK:

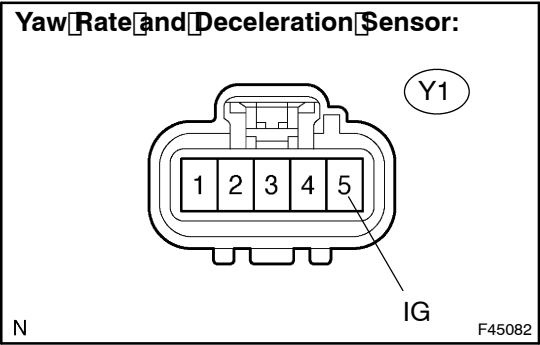
- The sensor should be tightened to the specified torque.
- The sensor should not be tilted.

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INSTALL YAW RATE AND DECELERATION SENSOR CORRECTLY (SEE PAGE 32-22)

OK

2 CHECK HARNESS AND CONNECTOR(IG TERMINAL)



- (a) Disconnect the yaw rate and deceleration sensor Y1 connector.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage according to the value(s) in the table below.

Standard:

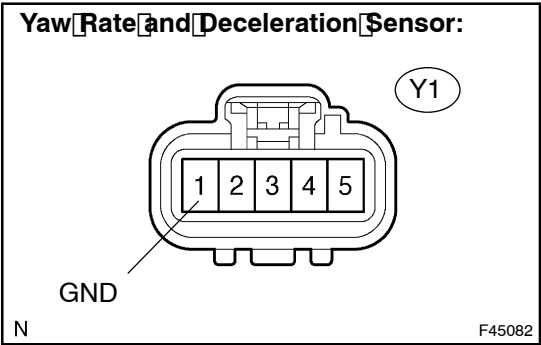
Tester Connection	Specified Condition
Y1-5 (IG) - Body ground	10 to 14 V

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

3 CHECK HARNESS AND CONNECTOR (GND TERMINAL)



- (a) Disconnect the yaw rate and deceleration sensor Y1 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 $\Omega$

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE 32-20)

NOTICE:

When replacing the ABS & TRACTION actuator assy, perform zero point calibration (see page 05-610).