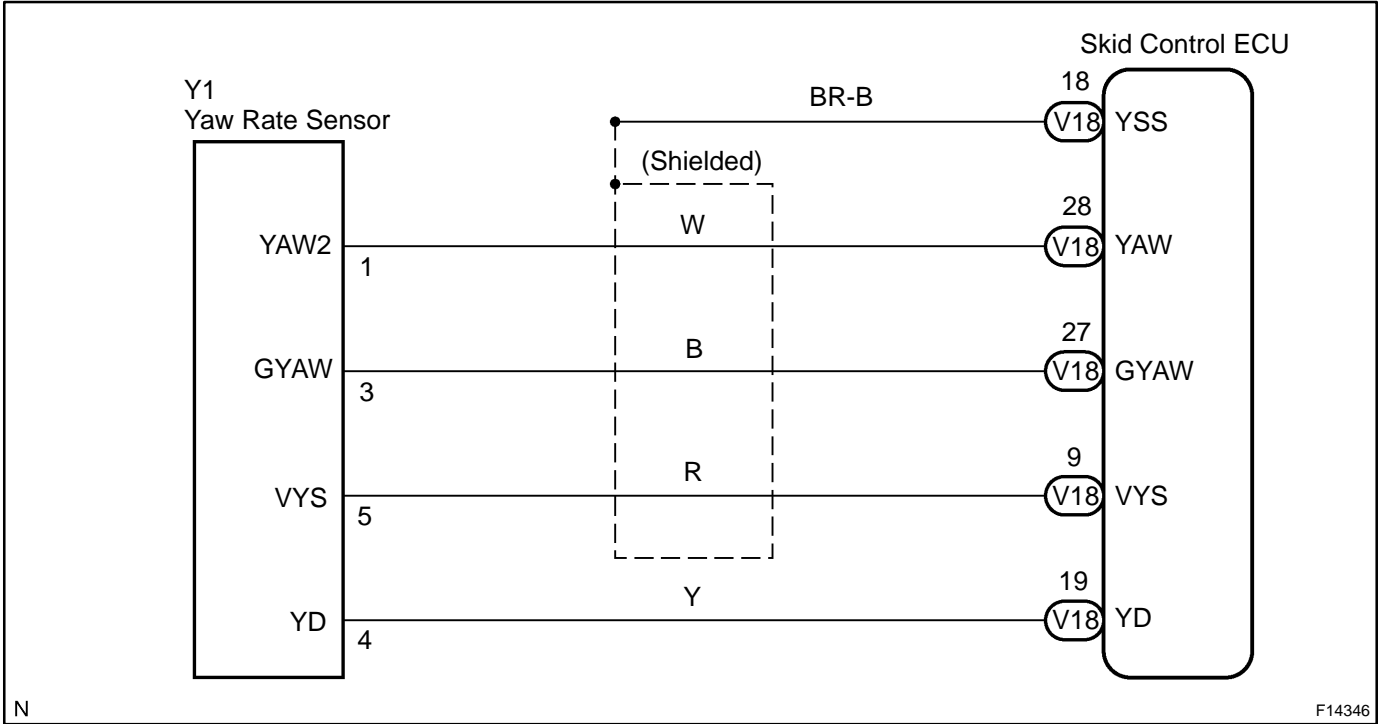


<b>DTC</b>	<b>C1233 / 33, C1234 / 34</b>	<b>Yaw Rate Sensor Circuit</b>
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## CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1233 / 33	<p>When any of the conditions 1. through 4. is detected:</p> <ol style="list-style-type: none"> <li>1. ECU terminal IG1 voltage is 9.5 V to 17.0 V, and the condition that yaw rate sensor voltage is out of the range from 0.25 V to 4.75 V continues for 1 sec. or more.</li> <li>2. The conditions that yaw rate sensor open detect circuit signal is ON and the voltage of ECU terminal IG1 is 9.5 V to 17 V continue for 1 sec. or more.</li> <li>3. The conditions that yaw rate sensor power source voltage is out of the range from 4.4 V to 5.6 V and the voltage of ECU terminal IG1 is 9.5 V to 17 V continue for 1 sec. or more.</li> <li>4. The condition that yaw rate sensor signal is momentarily open occurs 10 times or more and the voltage of ECU terminal IG1 is 9.5 V to 17 V.</li> </ol>	<ul style="list-style-type: none"> <li>• Yaw rate sensor</li> <li>• Yaw rate sensor circuit</li> </ul>
C1234 / 34	<p>Condition 1. or 2. is detected:</p> <ol style="list-style-type: none"> <li>1. The conditions that yaw rate sensor VYS terminal voltage is 4.75 V to 5.25 V and YD malfunction signal of yaw rate sensor is ON continue for 5 sec. or more.</li> <li>2. Shift lever position is in P range and output voltage of yaw rate sensor is out of the range from 2.4 V to 2.6 V or after the difference from zero point calibration voltage of yaw rate sensor has become 0.08 V or more and when the condition that the vehicle speed exceeds 15 km/h (9 mph) while output condition of yaw rate sensor has been repeated more than 3 times.</li> </ol>	

# WIRING DIAGRAM

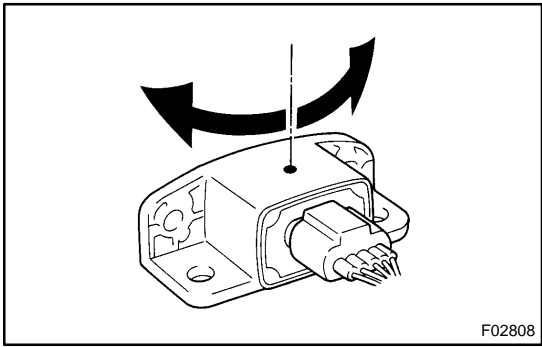


# INSPECTION PROCEDURE

HINT:

Start the inspection from step 1 in case of using the hand-held tester and start from step 3 in case of not using the hand-held tester.

1	Check output value of yaw rate sensor.
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## PREPARATION:

- Remove the 2 bolts and the yaw rate sensor with the connector still connected.
- Connect the hand-held tester to DLC3.
- Turn the ignition switch ON and push the hand-held tester main switch ON.
- Select the DATALIST mode on the hand-held tester.

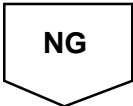
## CHECK:

Check that the yaw rate value of the yaw rate sensor displayed on the hand-held tester is changing: Place the yaw rate sensor vertically to the ground and turn the sensor pivoted on its center.

## OK:

Yaw rate value must be changing.

OK	Go to step 4.
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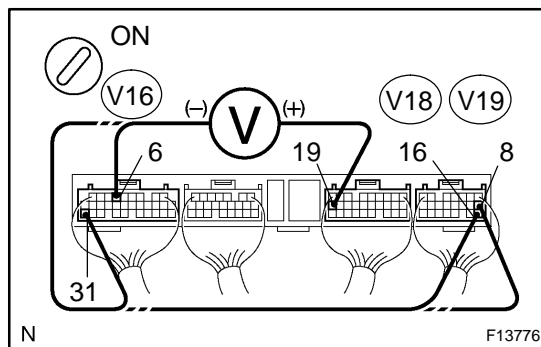
- 2 Check whether continuity exists between terminal YD of yaw rate sensor and terminal skid control ECU.**

**NG**

**Repair or replace harness or connector.**

**OK**

- 3 Check voltage between terminals YD and GND of skid control ECU.**



**PREPARATION:**

Remove the skid control ECU with the connector still connected.

**CHECK:**

- Turn the ignition switch ON.
- Measure voltage between terminals YD (V18 - 19) and GND (V16 - 6, 31, V19 - 8, 16) of the skid control ECU.

**OK:**

**Voltage: 4.5 - 5.3 V**

**NG**

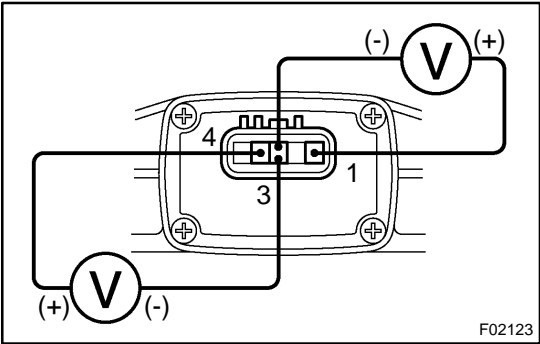
**Replace yaw rate sensor.**

**OK**

**Check and replace skid control ECU.**

4

Check yaw rate sensor.



**CHECK:**

- (a) Turn the ignition switch ON.
- (b) Measure voltage between terminals 1 and 3, 3 and 4 of the yaw rate sensor with the connector still connected.

**OK:**

Terminals 1 and 3 (YAW - GYAW)	Approx. 2.5 V
Terminals 3 and 4 (GYAW - YD)	Approx. 4.5 V - 5.3 V

**NG**

**Replace yaw rate sensor.**

**OK**

**Check and replace skid control ECU.**