

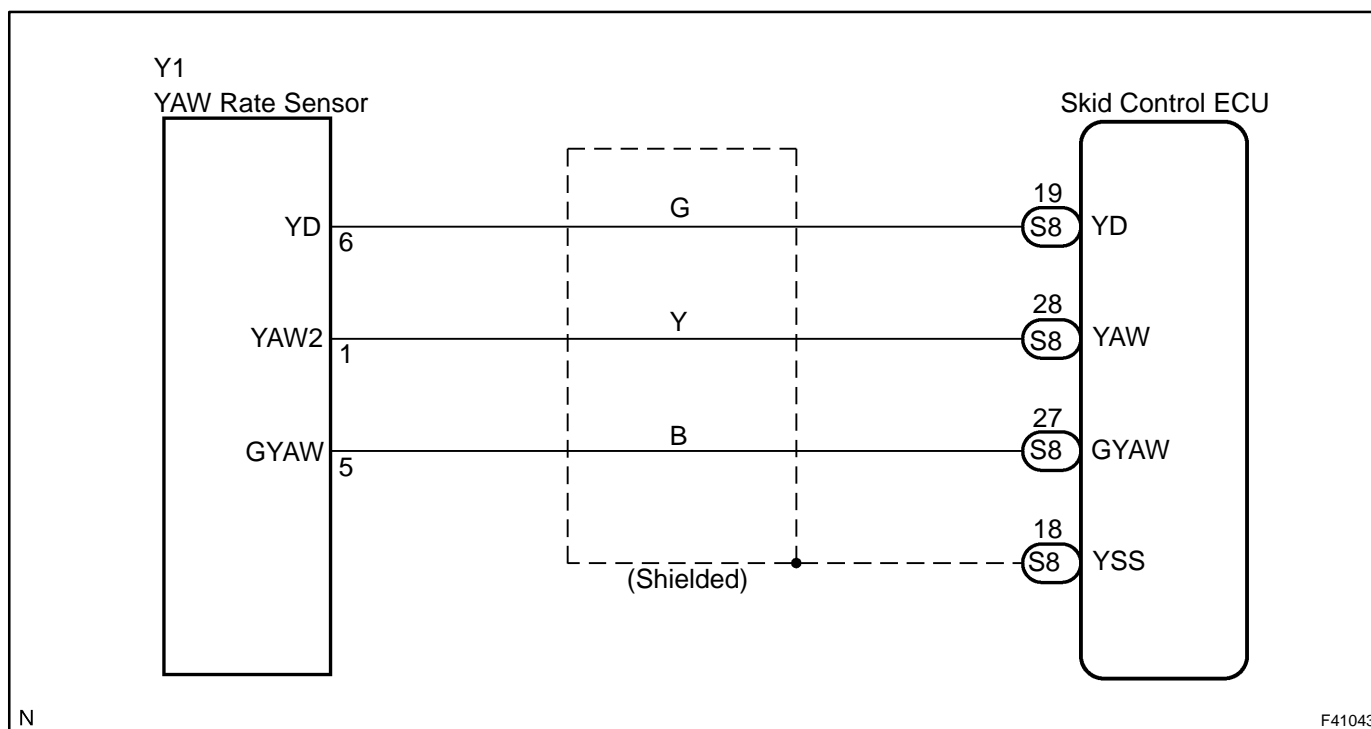
<b>DTC</b>	<b>C1233/33</b>	<b>YAW RATE SENSOR CIRCUIT</b>
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<b>DTC</b>	<b>C1234/34</b>	<b>MALFUNCTION IN YAW RATE SENSOR</b>
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## CIRCUIT DESCRIPTION

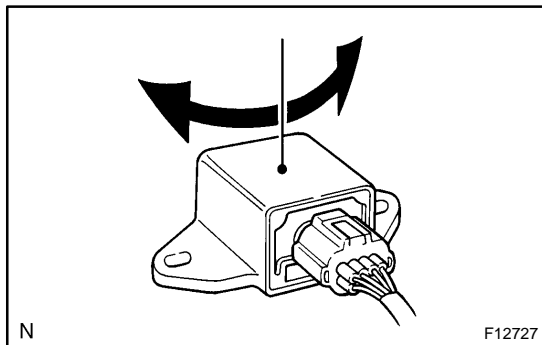
DTC No.	DTC Detecting Condition	Trouble Area
C1233/33	When any of the following 1. through 4. is detected: 1. ECU terminal IG1 voltage is 9.5 V to 17.0 V, and the condition that yaw rate sensor voltage is out of the range from 0.25 V to 4.75 V continued for 1 sec. or more. 2. The conditions that yaw rate sensor open detect circuit signal is ON and the voltage of ECU terminal IG1 is 9.5 to 17 V continued for 1 sec. or more. 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 to 17 V continued for 1 sec. or more. 4. When 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 to 17 V.	<ul style="list-style-type: none"> <li>• Yaw rate sensor</li> <li>• Yaw rate sensor circuit</li> </ul>
C1234/34	When the condition 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 continued for 5 sec. or more.	

## WIRING DIAGRAM



## INSPECTION PROCEDURE

## 1 READ VALUE OF YAWRATE SENSOR



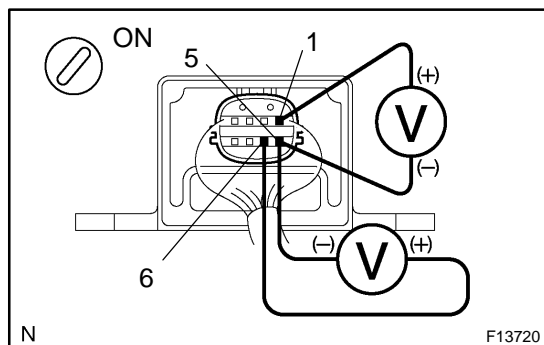
## IN CASE OF USING HAND-HELD TESTER:

- Remove the console box.
- Remove the yaw rate sensor with the connector still connected to it.
- Connect the hand-held tester to the 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 that the yaw rate sensor value of the yaw rate sensor observed in 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. (Reference)**

**When the yaw rate sensor is stationary output value:**  
 $\pm 4 \text{ deg/s}$ .



## IN CASE OF NOT USING HAND-HELD TESTER:

- Remove the console box then remove the yaw rate sensor with the connector still connected to it.
- Turn the ignition switch ON.
- Measure voltage between terminals YAW2 (1) -GYAW (5), and terminals YD (6)-GYAW (5) of the yaw rate sensor.

## OK:

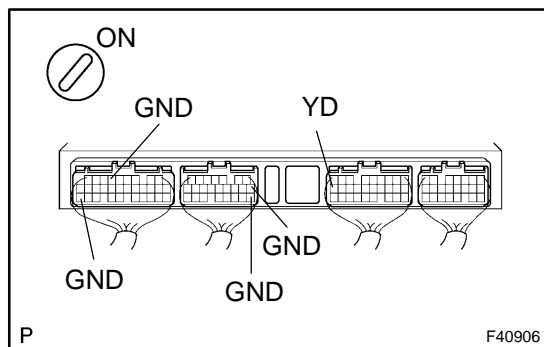
Terminals 1 and 5 (YAW2-GYAW)	About 2.42-2.58 V
Terminals 6 and 5 (YD-GYAW)	About 4.5-5.3 V

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REPLACE YAWRATE SENSOR

OK

## 2 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE(YD TERMINAL)



- (a) Remove the skid control ECU with the connector still connected.
- (b) Turn the ignition switch ON.
- (c) Measure voltage between terminals YD and GND of skid control ECU.

**OK:**

**Voltage: 4.5 - 5.3 V**

**OK**

**CHECK AND REPLACE SKID CONTROL ECU ASSY**

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## 3 CHECK HARNESS AND CONNECTOR(YAW RATE SENSOR - SKID CONTROL ECU)

- (a) Check for open and short circuit in harness and connector between terminal YD of yaw rate sensor and skid control ECU (See page [01-35](#)).

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**REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

**CHECK AND REPLACE SKID CONTROL ECU ASSY**