

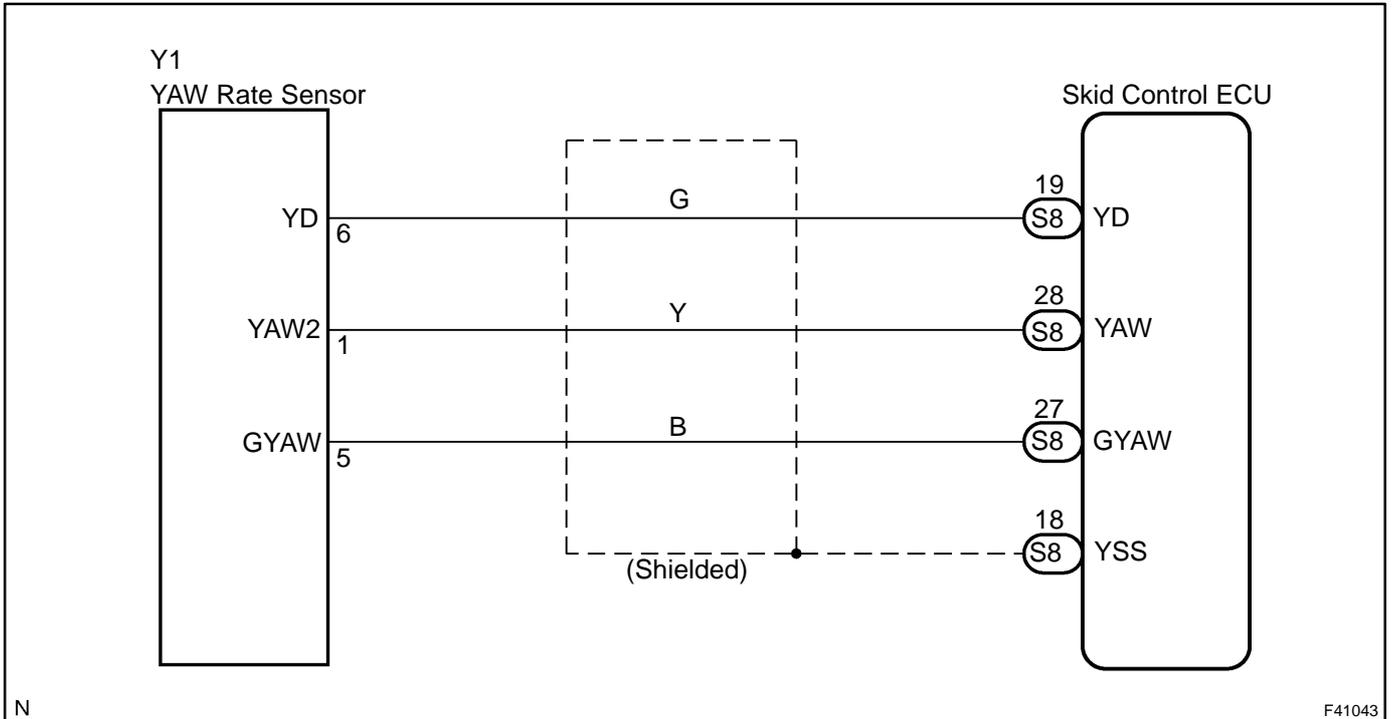
DTC	C1233/33	YAW RATE SENSOR CIRCUIT
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DTC	C1234/34	MALFUNCTION IN YAW RATE SENSOR
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CIRCUIT DESCRIPTION

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"> • Yaw rate sensor • Yaw rate sensor circuit
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

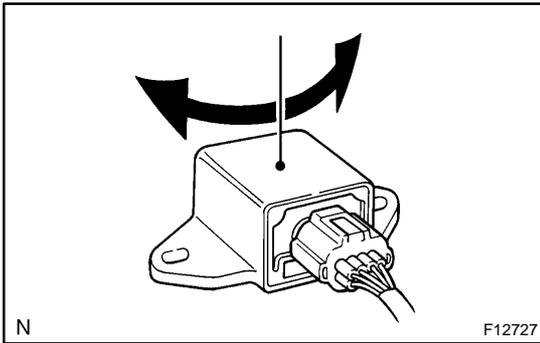


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INSPECTION PROCEDURE

1 READ VALUE OF YAWRATE SENSOR

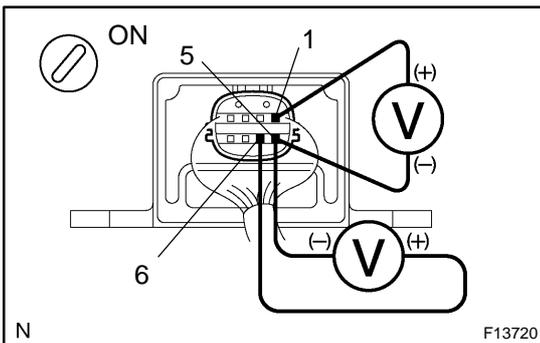
**IN CASE OF USING HAND-HELD TESTER:**

- (a) Remove the console box.
- (b) Remove the yaw rate sensor with the connector still connected to it.
- (c) Connect the hand-held tester to the DLC3.
- (d) Turn the ignition switch ON and push the hand-held tester main switch ON.
- (e) Select the DATALIST mode on the hand-held tester.
- (f) 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:
± 4 deg/s.**

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

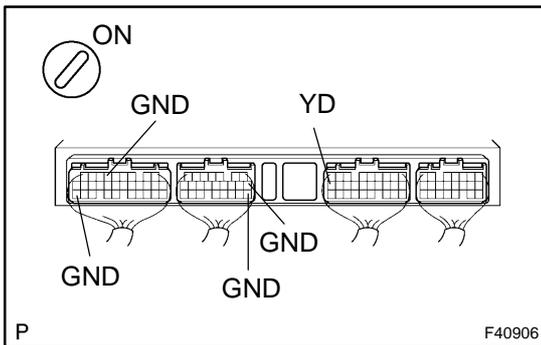
- (a) Remove the console box then remove the yaw rate sensor with the connector still connected to it.
- (b) Turn the ignition switch ON.
- (c) Measure voltage between terminals YAW2 (1) -GYAW (5), and terminals YD (6)-GYAW (5) of the yaw rate sensor.

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

NG**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