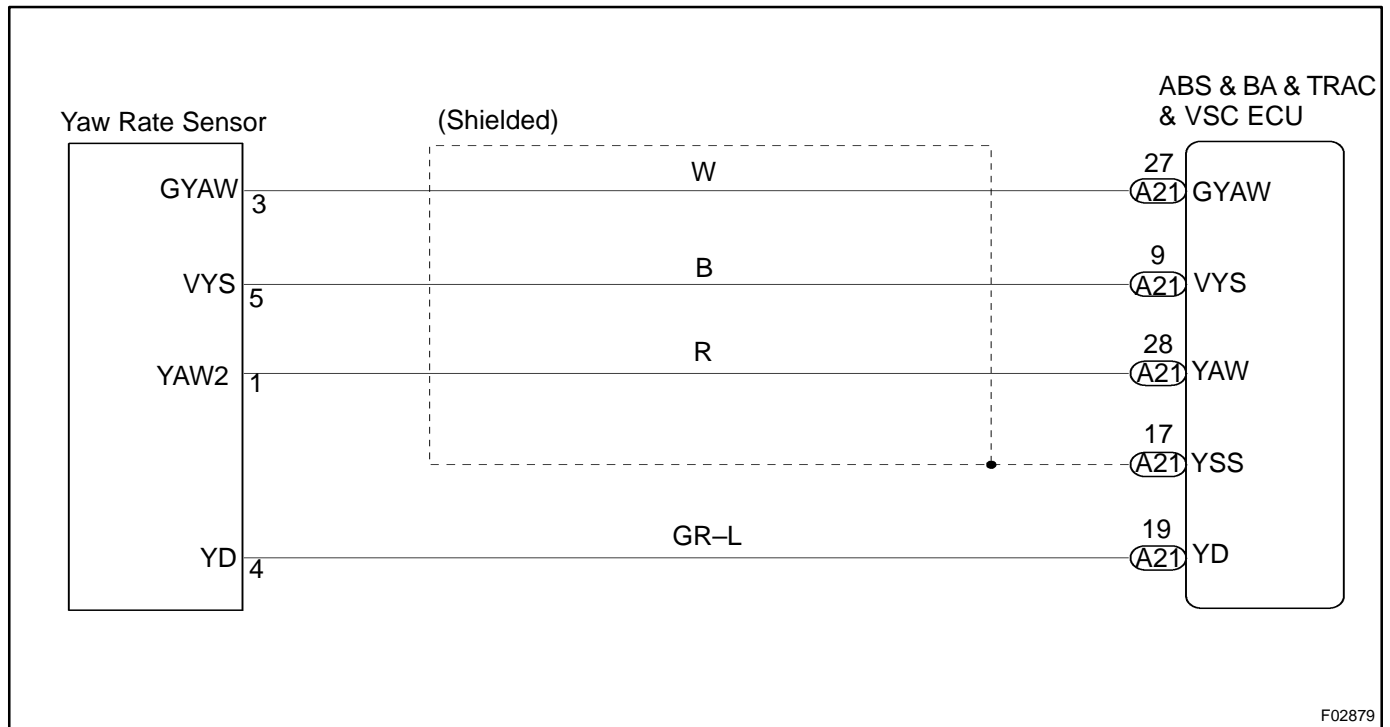


DTC	C1233 / 33, C1234 / 34	Yaw Rate Sensor Circuit
------------	-------------------------------	--------------------------------

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1233 / 33	<p>When any of the following 1. through 4. is detected:</p> <ol style="list-style-type: none"> 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	<p>Condition 1. or 2. is detected:</p> <ol style="list-style-type: none"> 1. 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. 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 more than 15 km/h (9 mph) while output condition of yaw rate sensor has been repeated more than 3 times. 	

WIRING DIAGRAM

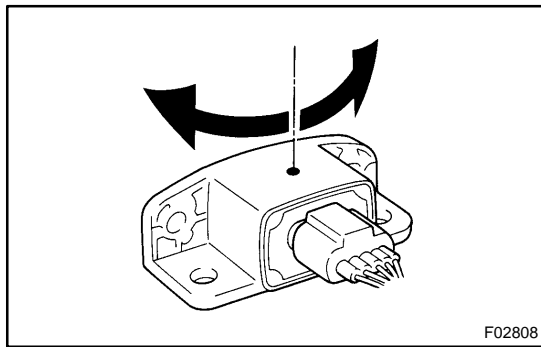


INSPECTION PROCEDURE

HINT:

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

1	Check output value of the yaw rate sensor.
---	--



PREPARATION:

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

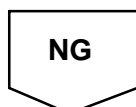
CHECK:

Check that the yaw rate value of the yaw rate sensor displayed on the LEXUS 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.
----	---------------



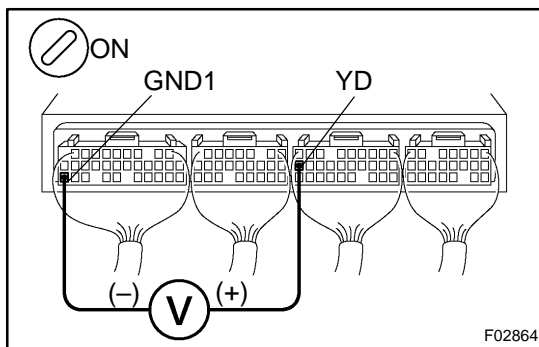
- 2 Check whether continuity exists between terminal YD of yaw rate sensor and terminal YD of ABS & BA & TRAC & VSC ECU.**

NG

Repair or replace harness or connector.

OK

- 3 Check voltage between terminals YD and GND of ABS & BA & TRAC & VSC ECU.**

**PREPARATION:**

Remove the ABS & BA & TRAC & VSC ECU with connector still connected.

CHECK:

- (a) Turn the ignition switch ON.
- (b) Measure voltage between terminals YD and GND of ABS & BA & TRAC & VSC ECU.

OK:

Voltage: 4.5 – 5.3 V

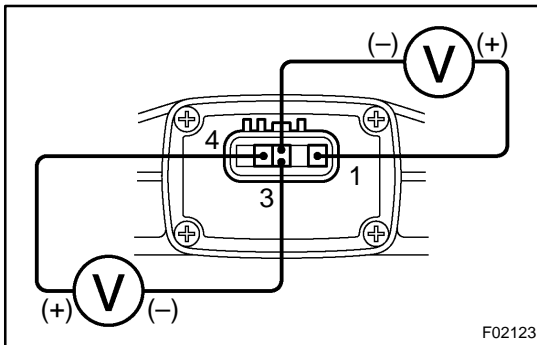
NG

Replace yaw rate sensor.

OK

Check and replace ABS & BA & TRAC & VSC ECU.

4 Check yaw rate sensor.



CHECK:

- Turn the ignition switch ON.
- Measure voltage between terminals 1 and 3, 3 and 4 of the yaw rate sensor with 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

5 Check for open and short circuit in harness and connector between yaw rate sensor and ABS & BA & TRAC & VSC ECU (See page [IN-32](#)).

NG

Repair or replace harness or connector.

OK

Check and replace ABS & BA & TRAC & VSC ECU.