DTC	C1210/36	ZERO POINT CALIBRATION OF YAW RATE SENSOR UNDONE

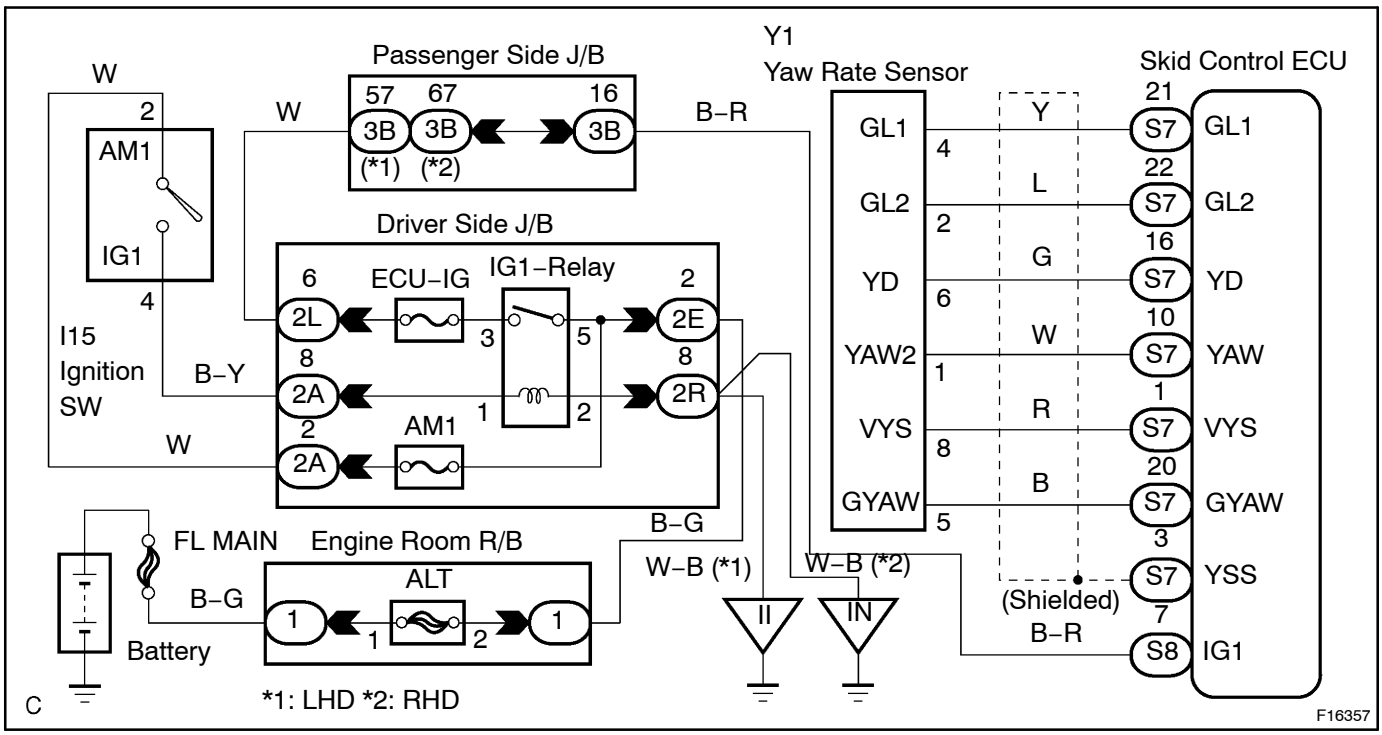
DTC	C1233/33	OPEN OR SHORT CIRCUIT IN YAW RATE SENSOR CIRCUIT

DTC	C1234/34	MALFUNCTION IN YAW RATE SENSOR

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1210 / 36	1. After ECU was replaced, when the shift lever was moved other than to P position within 15 sec. soon after ECU terminal IG1 become ON for the first time. 2. When the yaw rate sensor zero point recorded in ECU is deleted.	• Yaw rate sensor • Yaw rate sensor circuit • P position switch circuit
C1233/33	Detection of any of conditions 1. through 4.: 1. When the ECU IG1 terminal voltage is 9.5 to 17.2 V, the yaw rate sensor voltage is out of the range from 0.25 to 4.75 V for 1 sec. or more. 2. The yaw rate sensor open circuit detect signal is ON for 1 sec. or more. 3. The yaw rate sensor power source voltage is out of the range from 4.4 to 5.6 V for 1 sec. or more. 4. Momentary open circuit of the yaw rate sensor signal occurs 10 times or more.	• Yaw rate sensor • Yaw rate sensor circuit
C1234/34	When the yaw rate sensor VYS terminal voltage is 4.4 to 5.6 V, YD malfunction signal of the yaw rate sensor is ON for 5 sec. or more.	

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**PERFORM ZERO POINT CALIBRATION OF YAW RATE SENSOR (See page 05–511)**

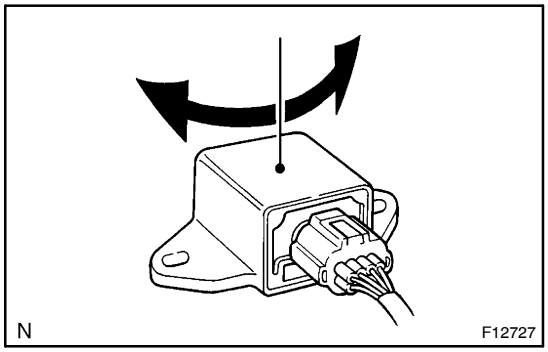
2	**RECONFIRM DTC(See page 05–511)**

A	Malfunction Code
B	Normal Code

B → **END**

A

3 INSPECT YAWRATE SENSOR

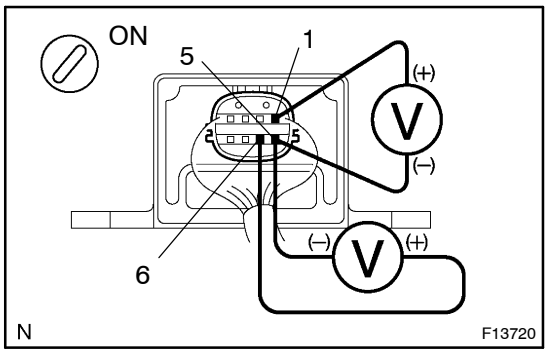


IN CASE OF USING HAND–HELD TESTER:

(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.

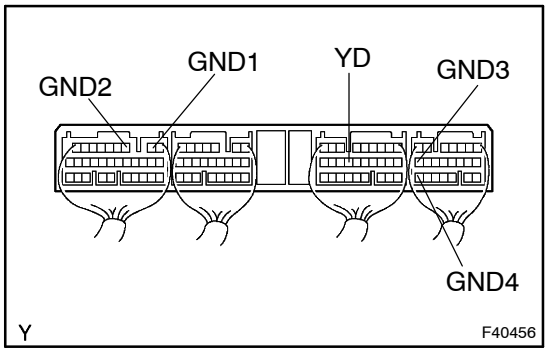
OK:

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

4 CHECK SKID CONTROL ECU TERMINAL VOLTAGE(YD TERMINAL)



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

OK: 4.5 – 5.3 V

OK → **CHECK AND REPLACE SKID CONTROL ECU ASSY**

NG

5	CHECK HARNESS AND CONNECTOR(YAW RATE SENSOR – SKID CONTROL ECU ASSY)(See page 01–31)

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE SKID CONTROL ECU ASSY