DI8DW–01

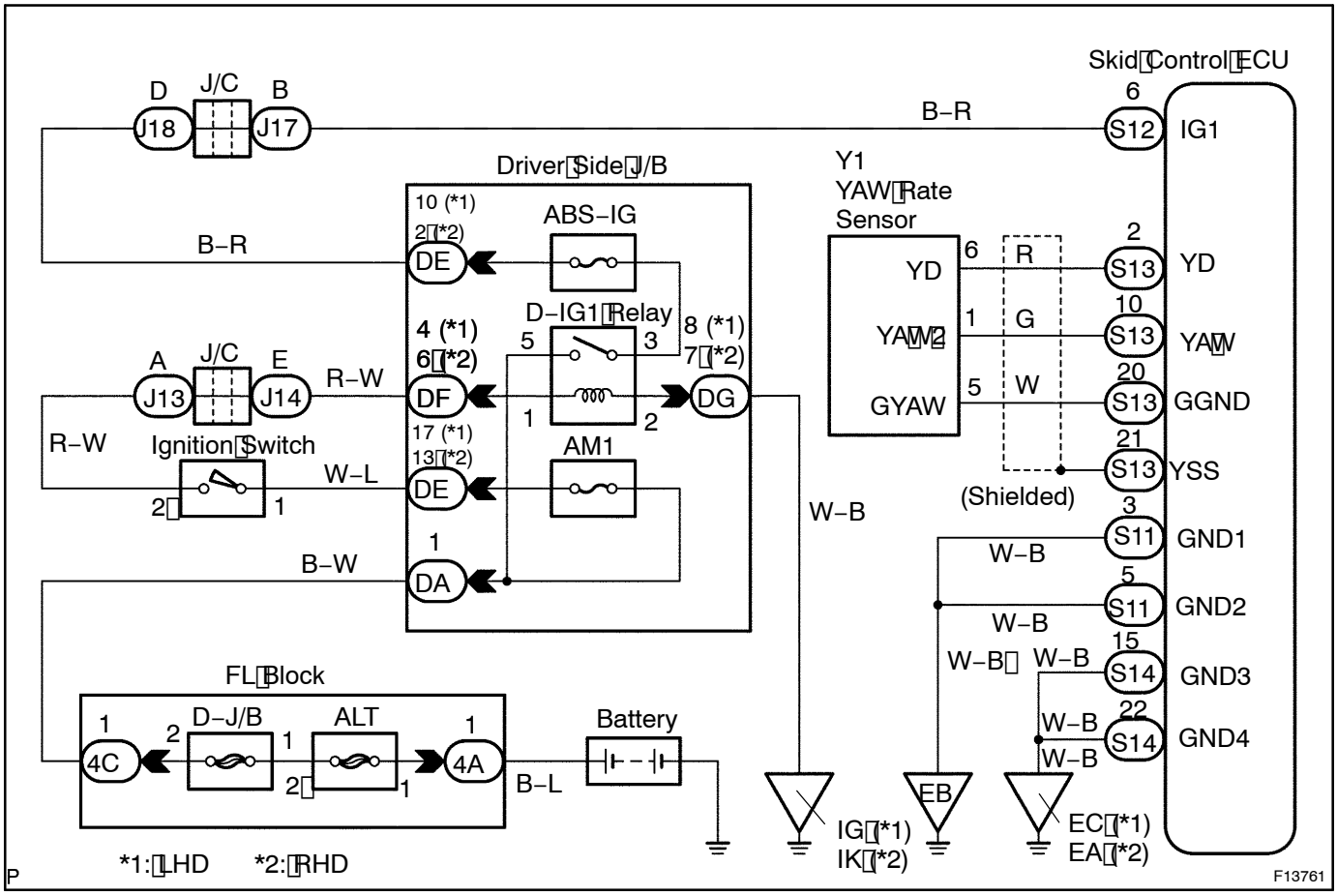
DTC	C1210 / 36	Zero Point Calibration of Yaw Rate Sensor Undone

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

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1210 / 36	When any of following 1. through 2. is detected: 1. After replacing skid control ECU or erasing DTC, when the shift lever wad moved other than to P range 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 range 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 the yaw rate sensor (See page DI–343).

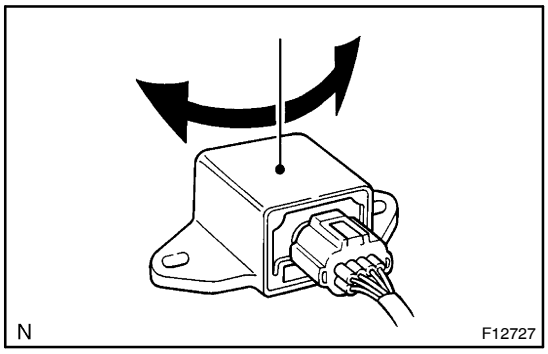
2	Is DTC still output?

Check DTC on page DI–343.

NO ▷ No problem.

YES

3	Check output value of the yaw rate sensor.



In case of using the hand–held tester:

PREPARATION:

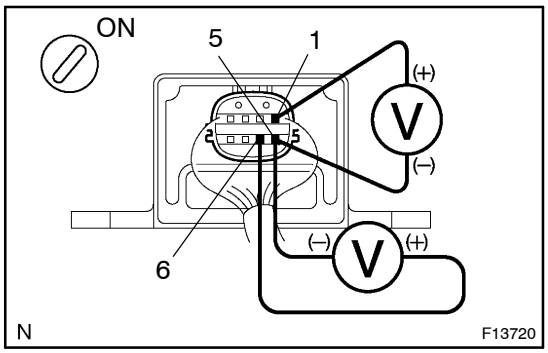
(a) Remove the consol box.
(b) Remove the 2 nuts and the yaw rate sensor with the connector still connected to it.
(c) Connect the hand–held tester to the DLC3.
(d) Turn the ignition switch ON and push the hand–held tester main switch ON.
(e) Select the DATALIST mode on the hand–held tester.

CHECK:

Check that the yaw rate 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 the hand–held tester:

PREPARATION:

(a) Remove the consol box then remove the yaw rate sensor with the connector still connected to it.
(b) Turn the ignition switch ON.

CHECK:

Measure voltage between terminals YAW (1) – GYAW (5), and terminals YD (6) – GYAW (5) of the yaw rate sensor.

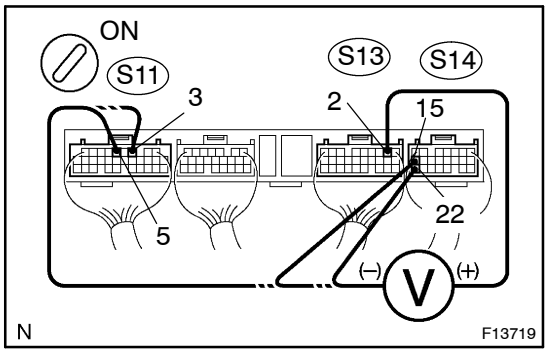
OK:

Terminals 1 and 5 (YAW – GYAW)	About 2.42 – 2.58 V
Terminals 6 and 5 (YD – GYAW)	About 4.5 V – 5.3 V

NG → **Replace yaw rate sensor.**

OK

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



PREPARATION:

Remove the skid control ECU with the connector still connected to it.

CHECK:

(a) Turn the ignition switch ON.

(b) Measure voltage between terminals YD (S13 – 2) and GND (S14 – 15, 22, S11 – 3, 5) of skid control ECU.

OK:

Voltage: 4.5 – 5.3 V

OK	**Check and replace skid control ECU.**

NG

5	**Check for open and short circuit in harness and connector between yaw rate sensor and skid contorl ECU (See page IN–35).**

NG	**Repair or replace harness or connector.**

OK

Check and replace skid control ECU.