DIA03−01

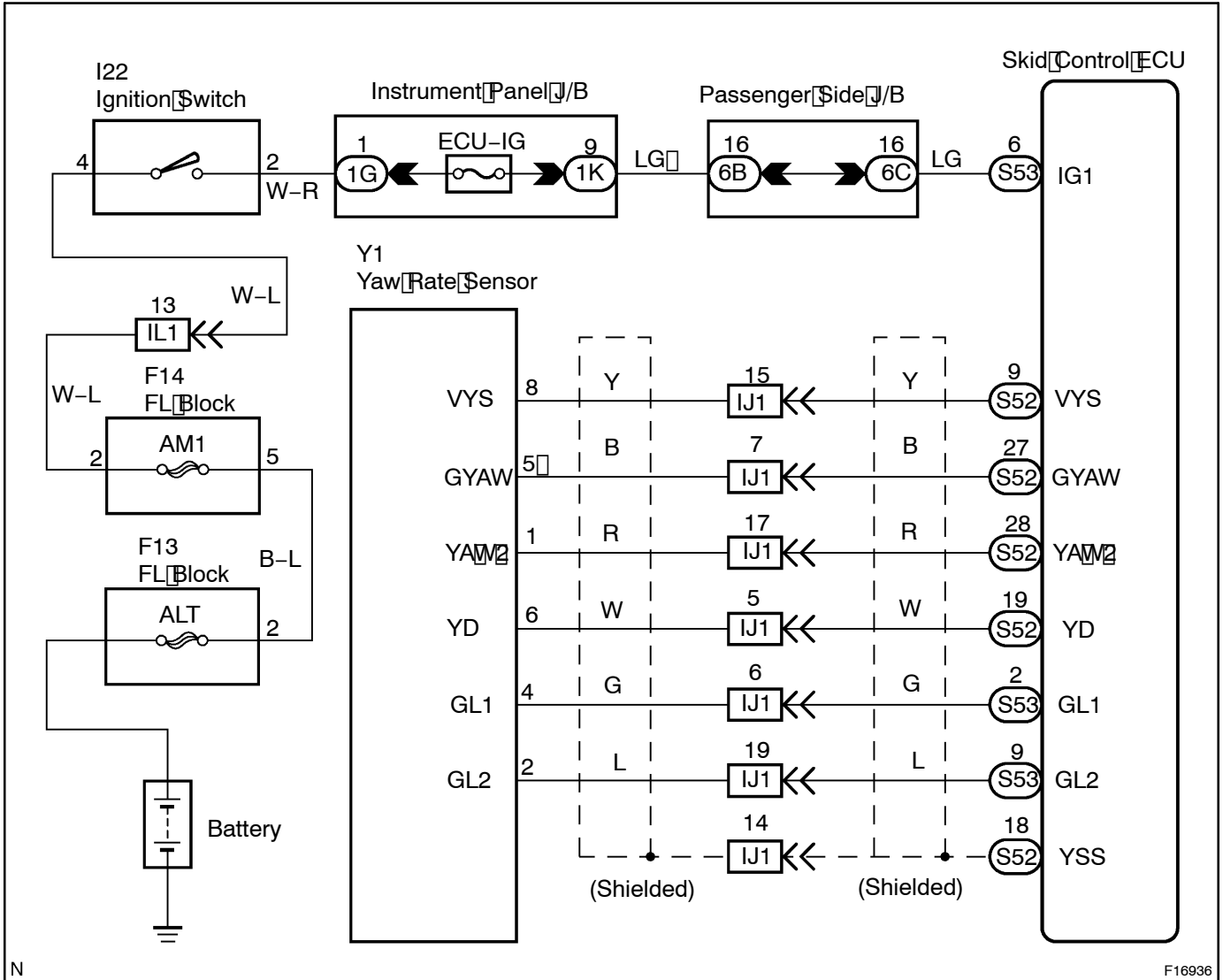| DTC	C1233 / 33, C1234 / 34	Yaw Rate Sensor Circuit

CIRCUIT DESCRIPTION

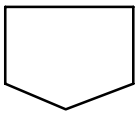| DTC No.	DTC Detecting Condition	Trouble Area
C1233 / 33	When any of the following 1. through 4. is detected: 1. ECU terminal IG1 voltage is 9.5 to 17.2 V and the yaw rate sensor voltage is continuously out of the range from 0.25 to 4.75 V for 1 sec. or more. 2. ECU terminal IG1 voltage is 9.5 to 17.2 V and the yaw rate sensor open circuit detection signal remains ON for 1 sec. or more. 3. ECU terminal IG1 voltage is 9.5 to 17.2 V and the yaw rate sensor power source voltage remains out of the range from 4.4 to 5.6 V for 1 sec. or more. 4. Momentary interruption of the yaw rate sensor signal occurs 10 times or more.	• Yaw rate sensor • Yaw rate sensor circuit
C1234 / 34	When the condition that yaw rate sensor voltage is 4.4 V to 5.6 V and YD malfunction signal of yaw rate sensor is ON continued for 5 sec. or more.	

WIRING DIAGRAM

N   F16936

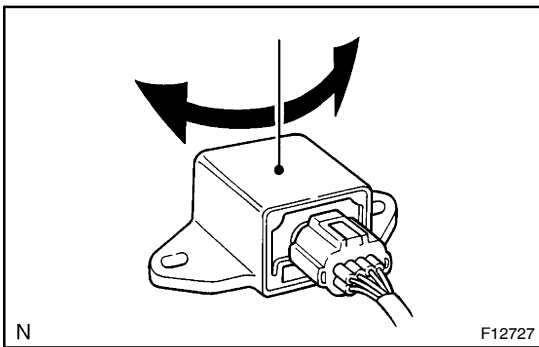# INSPECTION PROCEDURE

1	**Perform zero point calibration of the yaw rate sensor ([See page DI–3](#)).**

2	Is DTC still output?

Check DTC on page DI–3.

> **NO** > No problem.

> **YES**

3	Check output value of the yaw rate sensor.

N   F12727

N   F13720

In case of using the hand–held tester:
PREPARATION:
(a)   Remove the 2 bolts and yaw rate sensor with connector still connected.
(b)   Connect the hand–held tester to the DLC3.
(c)   Turn the ignition switch to ON and push the hand–held tester main switch to ON.
(d)   Select the DATALIST mode on the hand–held tester.
CHECK:
Check that the yaw rate value of the yaw rate sensor displayed on the hand–held tester changes. Place the yaw rate sensor vertically to the ground and turn the sensor pivoted on its center.
OK:
Yaw rate value must be changing.
In case of not using the hand–held tester:
PREPARATION:
(a)   Remove the yaw rate sensor with the connector still connected to it.
(b)   Turn the ignition switch to ON.
CHECK:
Measure voltage between terminals YAW2 (1) – GYAW (5), and terminals YD (6) – GYAW (5) of the yaw rate sensor.
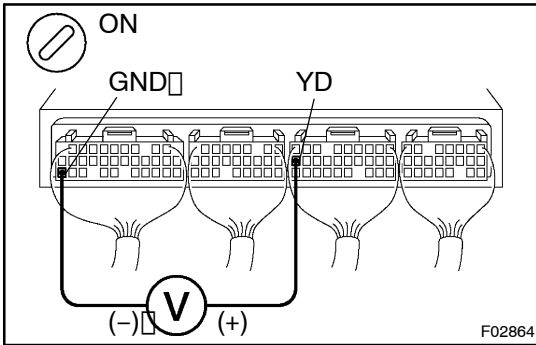**OK:**

Terminals 1 and 5 (YAW2 – GYAW)	About 2.42 V – 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.

ON

GND   YD

(−) V (+)   F02864

PREPARATION:
Remove the skid control ECU with the connector still connected.

CHECK:
(a)   Turn the ignition switch to ON.
(b)   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. |
|---|

NG

5	Check for open and short circuit in harness and connector between yaw rate sensor and skid control ECU (See page IN−31).

NG ⟩ | Repair or replace harness or connector. |
|---|

OK

Check and replace skid control ECU.