DI8DX–01

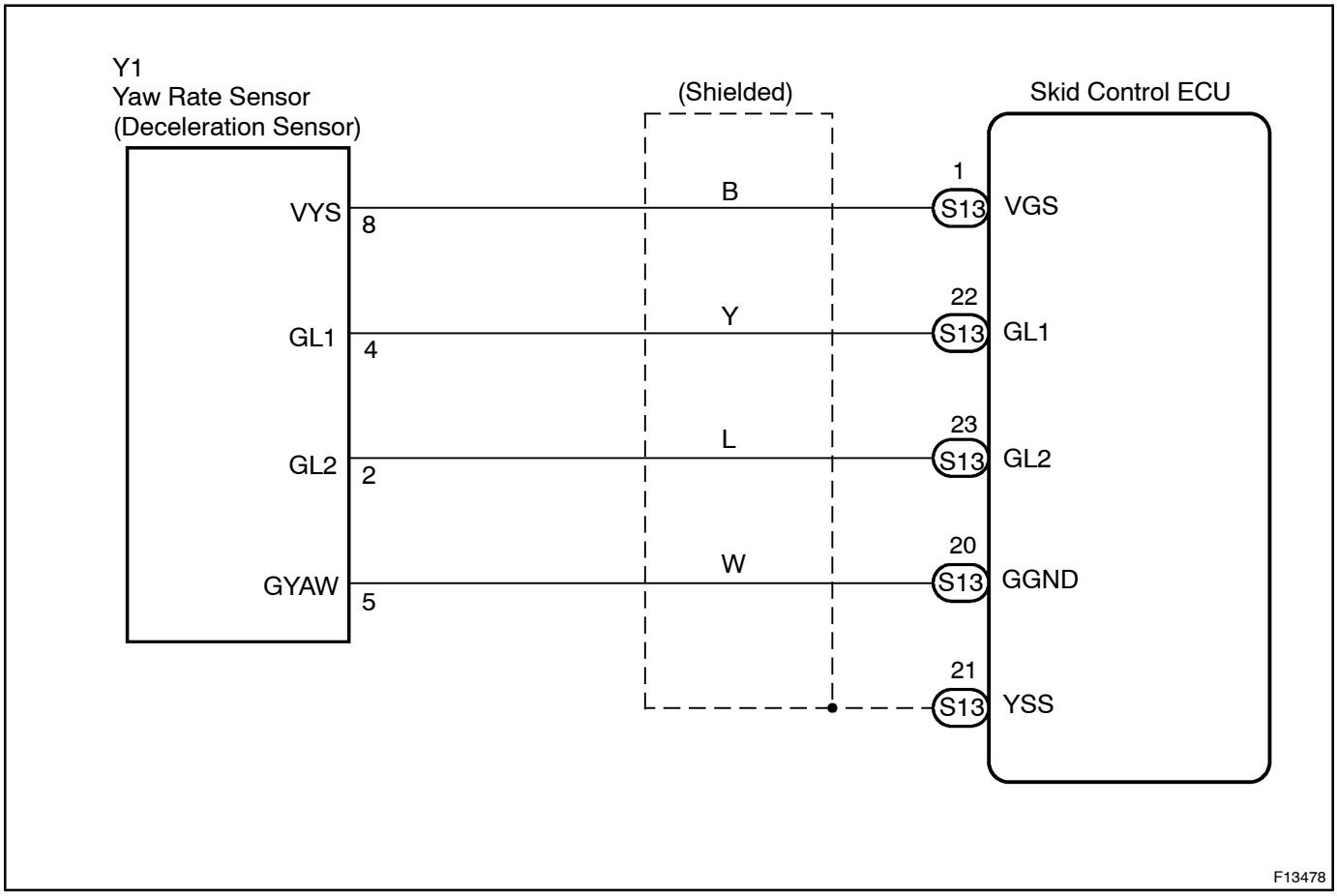
DTC	C1243 / 43, C1245 / 45	Malfunction in Deceleration Sensor

DTC	C1336 / 39	Zero Point Calibration of Deceleration Sensor Undone

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1243 / 43	While vehicle speed becomes 0 km/h (0 mph) from 30 km/h (18 mph) or more, the condition that both GL1 and GL2 signals of ECU terminals do not change 10 mV or more occurs 16 times continuously.	• Deceleration sensor • Wire harness for deceleration sensor system
C1245 / 45	At the vehicle speed of 30 km/h (18 mph), the acceleration and deceleration values calculated from the deceleration sensor values and from vehicle speed are different, and the condition that the difference exceeds 0.35 G continues for 60 sec. or more.	
C1336 / 39	At the initial time after replacing the computer, or after erasing the deceleration sensor memory by operating the terminals Ts and CG of DLC3, the ignition is turned ON and the vehicle is driven in any mode except for the test mode.	• Deceleration sensor • Deceleration sensor circuit • Zero point calibration not done

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

After step 1 and 2, go to step 3 in case of using the hand–held tester, and go to step 5 in case of not using the hand–held tester.

1	**Perform zero point calibration of the Deceleration 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 deceleration sensor.**

PREPARATION:

(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch ON and turn the hand–held tester main switch ON.
(c) Select the DATALIST mode on the hand–held tester.

CHECK:

Check that the deceleration value of the deceleration sensor observed in the hand–held tester is changing when the vehicle is tilted.

OK:

Deceleration value must be changing.

OK → **Go to step 5.**

NG

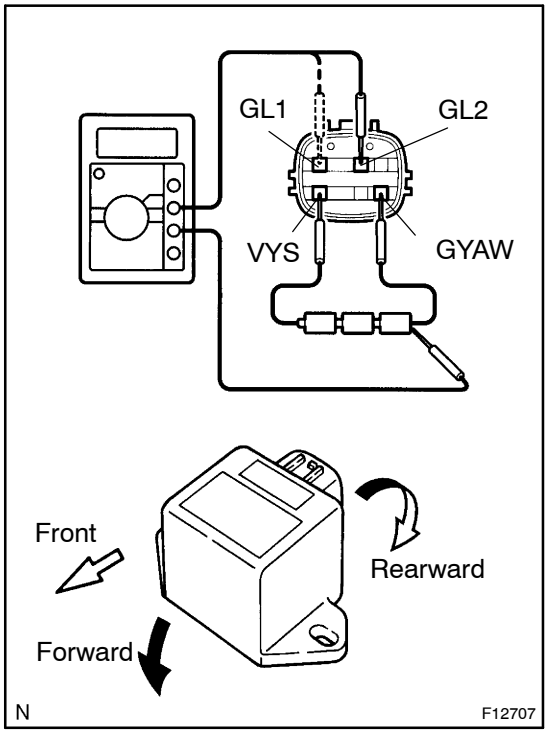
4	Check for open or short circuit in harness and connector between deceleration sensor and skid control ECU (See page IN–35).

NG → Repair or replace harness or connector.

OK

Replace deceleration sensor.

5	Check deceleration sensor.



PREPARATION:

(a) Remove the consol box.
(b) Connect 3 dry batteries of 1.5 V in series.
(c) Connect VYS terminal to the batteries' positive (+) terminal, and GYAW terminal to the batteries' negative (–) terminal. Apply about 4.5 V between VYS and GYAW terminals.

NOTICE:

Do not apply voltage of 6 V or more to terminals VYS and GYAW.

CHECK:

Check the output voltage of GL1 and GL2 terminals when the sensor is tilted forward and rearward.

OK:

Symbols	Condition	Standard Value
GL1	Horizontal	About 2.3 V
GL1	Lean forward	0.4 V – about 2.3 V
GL1	Lean rearward	About 2.3 V – 4.1 V
GL2	Horizontal	About 2.3 V
GL2	Lean forward	About 2.3 V – 4.1 V
GL2	Lean rearward	0.4 V – about 2.3 V

HINT:

- If the sensor is tilted too much it may show the wrong value.
- If dropped, the sensor should be replaced with a new one.
- The sensor removed from the vehicle should not be placed upside down.

NG → Replace deceleration sensor.

OK

6	Check for open or short circuit in harness and connector between deceleration sensor and skid control ECU (See page IN–35).

NG → Repair or replace harness or connector.

OK →

Check and replace skid control ECU.