DTC	C1243/43	MALFUNCTION IN DECELERATION SENSOR

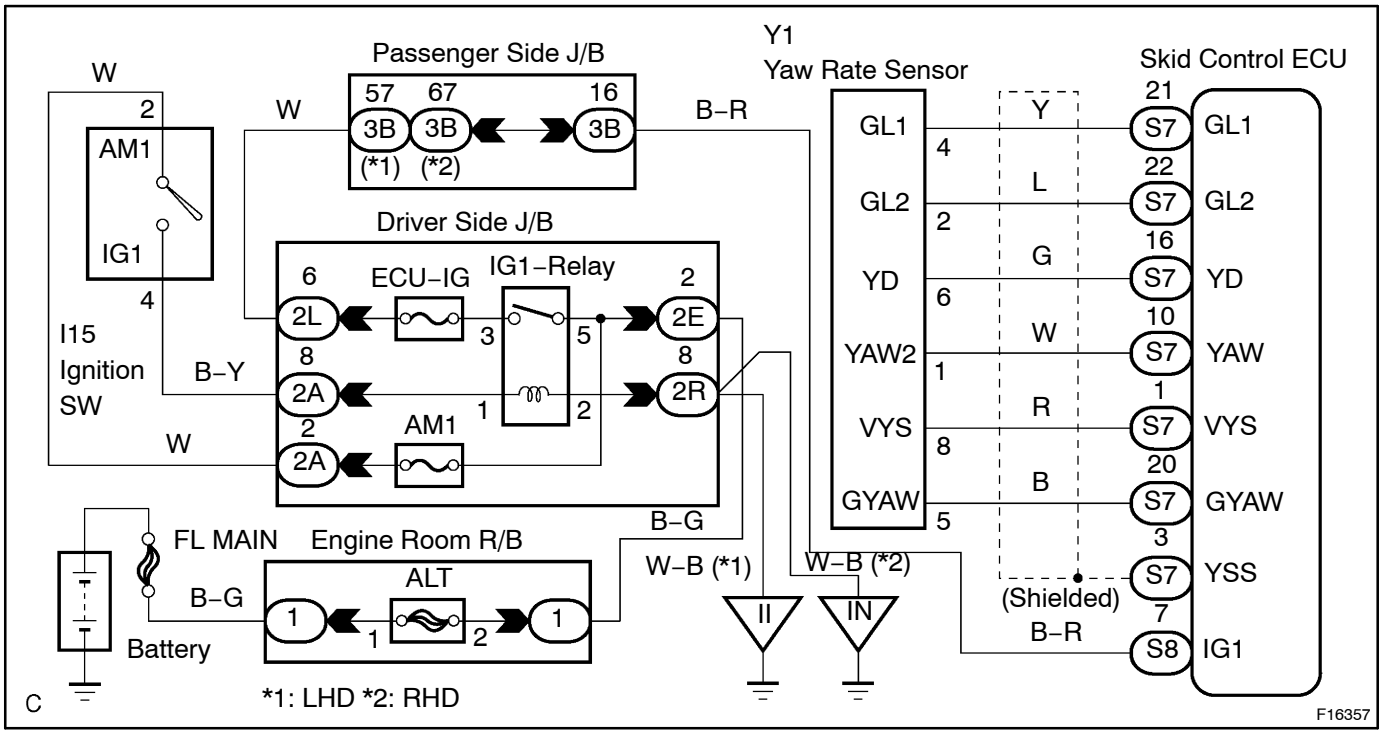
DTC	C1245/45	MALFUNCTION IN DECELERATION SENSOR

DTC	C1336/39	ZERO POINT CALIBRATION OF DECELERATION SENSOR UNDONE

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1243/43	While vehicle speed gets to 0 km/h (0 mph) from 30 km/h (18 mph), and the condition that GL1 and GL2 signals of ECU terminals did not change 2 LSB or more continued in a sequence 16 times.	• Deceleration sensor • Wire harness for deceleration sensor system
C1245/45	At the vehicle speed of 30 km/h (18 mph) or more, and the condition that the difference between acceleration and deceleration values of computation from deceleration sensor and vehicle speed becomes more than 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 no 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 DECELERATION SENSOR ZERO POINT CALIBRATION (See page 05–511)**

2	**RECONFIRM DTC(See page 05–511)**

A	Malfunction Code
B	Normal Code

B → **END**

A

3	**READ VALUE OF HAND–HELD TESTER(DECELERATION SENSOR OUTPUT VALUE)**

(a) Select the item ”DECELERAT SEN, DECELERAT SEN2” in the DATA LIST and read its value displayed on the hand–held tester.
(b) 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

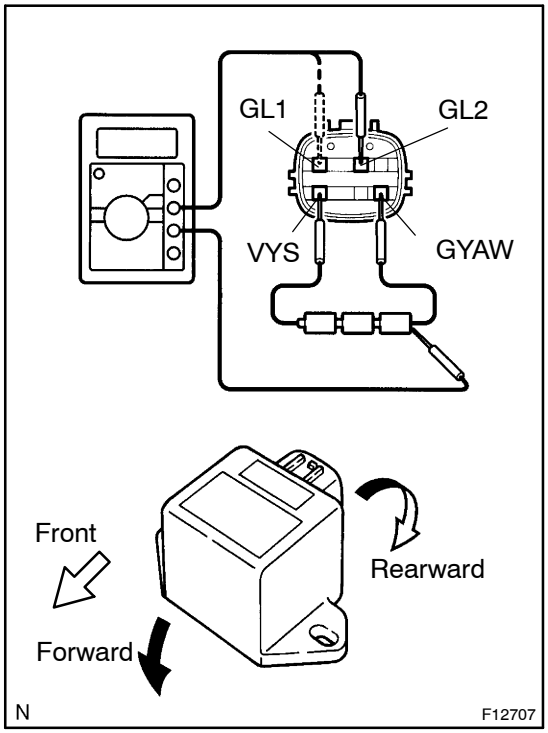
4	**CHECK HARNESS AND CONNECTOR(YAW RATE SENSOR(DECELERATION SENSOR) – SKID CONTROL ECU ASSY)(See page 01–31)**

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE YAWRATE SENSOR

5	INSPECT YAWRATE SENSOR(INCLUDE DECELERATION SENSOR)



(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.

(d) 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 YAWRATE SENSOR**

OK

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

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

CHECK AND REPLACE SKID CONTROL ECU ASSY