DTC	C1232/32	MALFUNCTION IN DECELERATION SENSOR

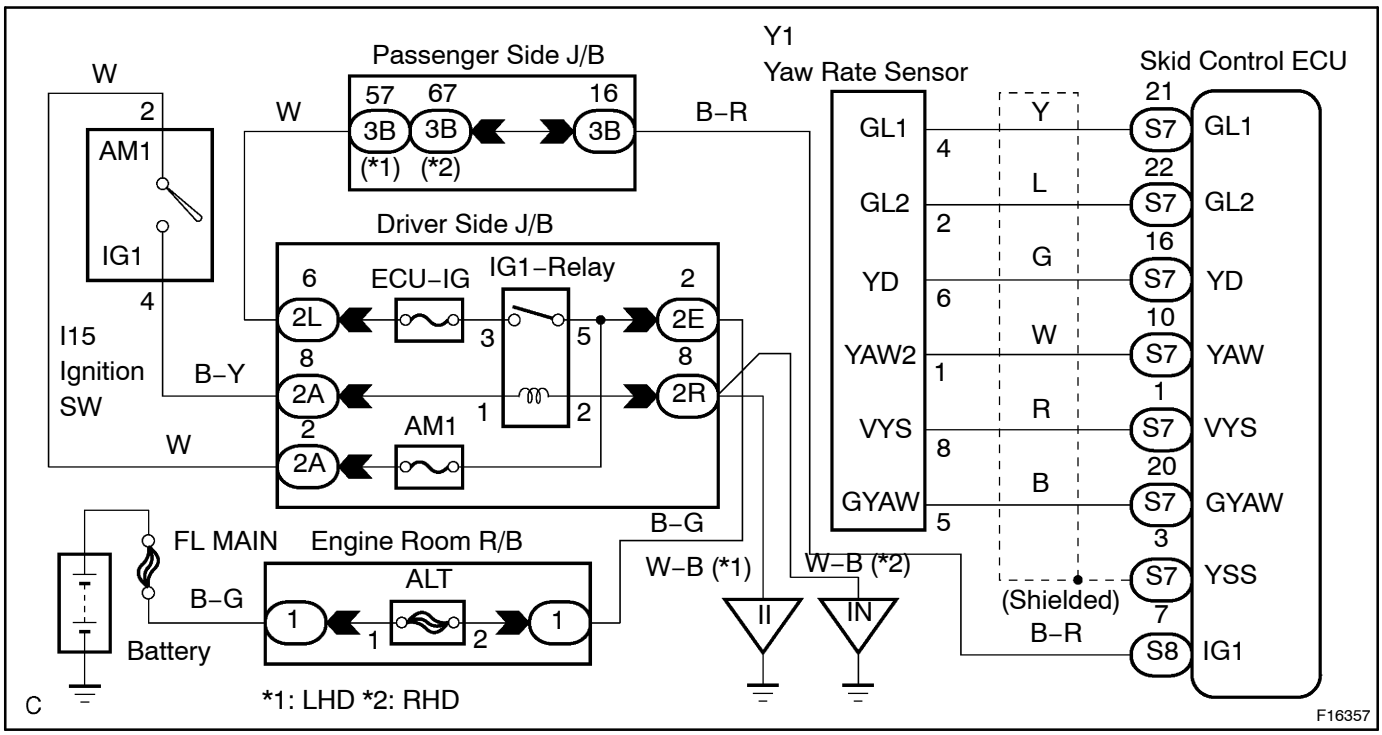
DTC	C1244/44	OPEN OR SHORT IN DECELERATION SENSOR CIRCUIT

CIRCUIT DESCRIPTION

This sensor detects deceleration on the vehicle. The sensor signal is used in ABS & BA & TRC & VSC control. If the sensor functions abnormally, the ABS warning light comes on.

DTC No.	DTC Detecting Condition	Trouble Area
C1232/32	While vehicle speed becomes 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 40 mV or less continued in a sequence 16 times.	• Deceleration sensor • Deceleration sensor circuit
C1244/44	Either of the following 1., 2., 3. or 4. is detected: 1. The condition that ECU terminals GL1 and GL2 values are 1.5G or less or 1.5G or more continues for 1.2 sec. or more. 2. The condition that the deceleration sensor terminal VGS voltage is 4.4 V or less or 5.6 G or more continues for 1.2 sec. or more. 3. At the vehicle speed of 0 km (0 mph), after the difference of output value between deceleration sensor terminals GL1 and GL2 becomes 0.6 G or more, and the condition that does not become 0.4 G or less continues for 60 sec. or more. 4. Deceleration sensor signal momentary open occurs for 7 times or more.	

WIRING DIAGRAM



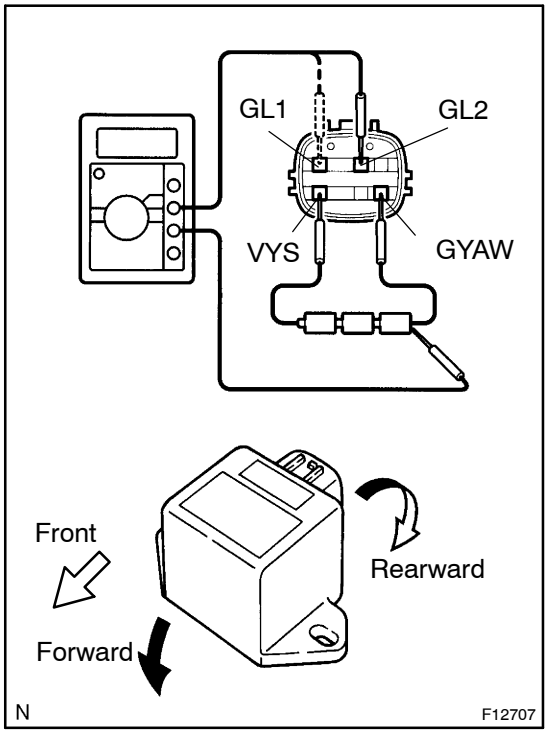
INSPECTION PROCEDURE

1	**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

2	INSPECT YAWRATE SENSOR(DECELERATION SENSOR)



(a) Connect 3 dry batteries of 1.5 V in series.
(b) 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.

(c) Check the output voltage of GL1 and GL2 terminals.
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

CHECK AND REPLACE SKID CONTROL ECU ASSY