DTC	C1232 / 32	Deceleration Sensor Does Not Function

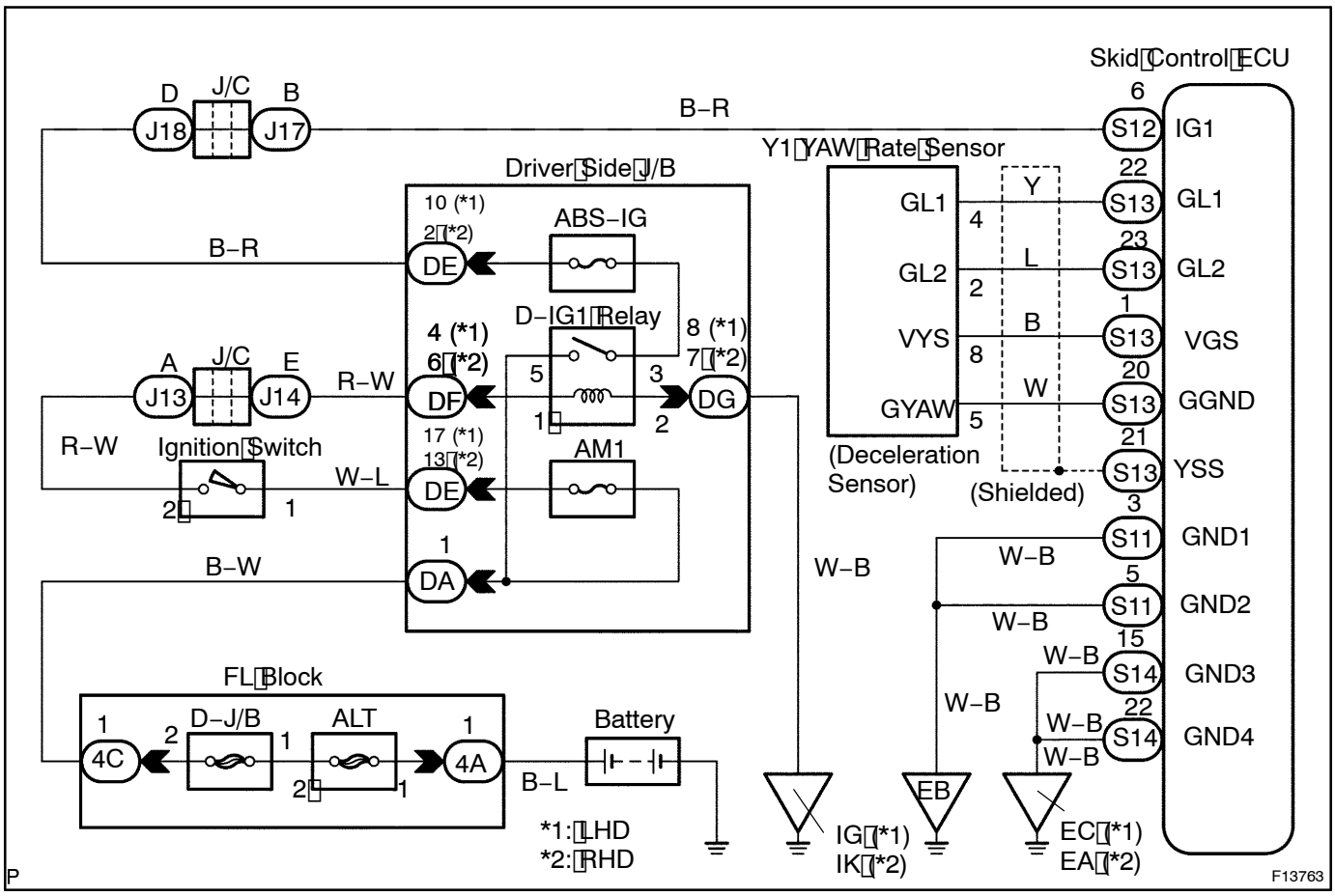
DTC	C1244 / 44	Deceleration Sensor Circuit

CIRCUIT DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
C1232 / 32	Detection of either of conditions 1. and 2.: 1. At the vehicle speed of 10 km/h (6mph) or more, when the condition that ECU terminal GL1 signal change range is less than 20 mV, and ECU terminal GL2 signal change range swings by 486 mV or more occurs for 30 sec. or more. 2. At the vehicle speed of 10 km/h (6mph) or more, when the condition that ECU terminal GL2 signal change range is less than 20 mV, and ECU terminal GL1 signal change range swings by 486 mV or more occurs for 30 sec. or more.	• Deceleration sensor • Deceleration sensor circuit
C1244 / 44	Detection of any of conditions 1. through 4.: 1. The condition that the ECU GL1 and GL2 terminals' values are –1.5 G or less, or 1.5 G or more continues for 1.2 sec. or more. 2. The condition that the deceleration sensor terminal VYS voltage is 4.4 V or less, or 5.6 V or more continues for 1.2 sec. or more. 3. Vehicle speed is 0 km/h (0 mph). After the difference of output values between deceleration sensor terminals GL1 and GL2 becomes 0.6 G or more, the condition that it does not become less than 0.4 G continues for 60 sec. or more. 4. Momentary interruption in the deceleration sensor signal occurs 7 times or more.	

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check for open and 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

2	Check deceleration sensor.

In case of using the hand–held tester:

PREPARATION:

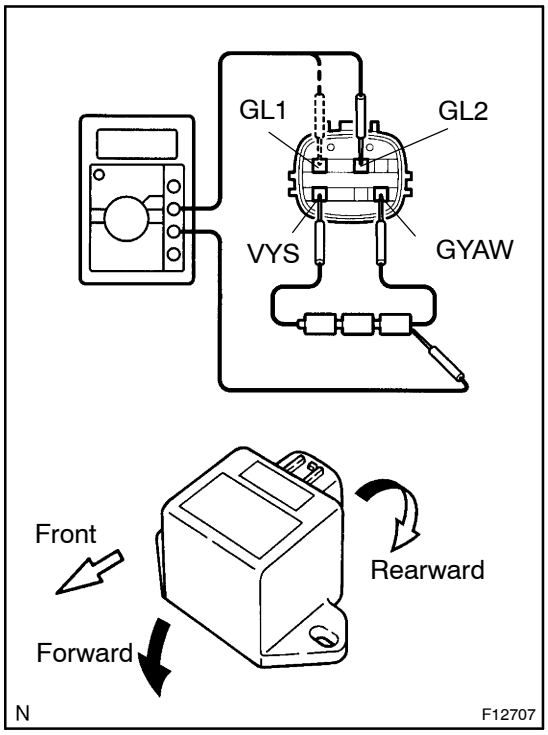
(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch ON and turn the hand–held tester main switch ON.
(c) Select the DATALIST mode on the hand–held tester.

CHECK:

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

OK:

Deceleration value must be changing.



In case of not using the hand–held tester:

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

Check and replace skid control ECU.