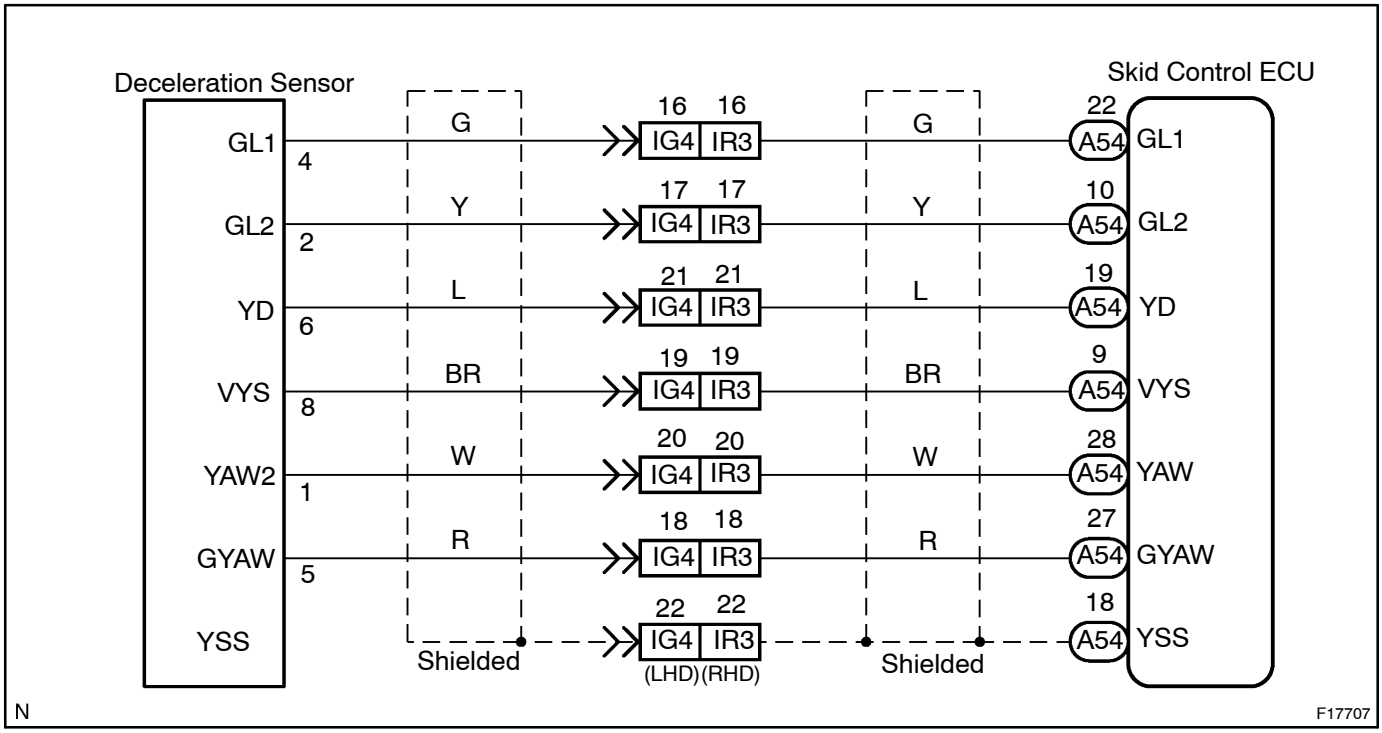
DTC	C 1232 / 32	Deceleration Sensor Circuit

CIRCUIT DESCRIPTION

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 (6 mph) 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 468 mV or more occurs for 30 sec. or more. 2. At the vehicle speed of 10 km/h (6 mph) 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 468 mV or more occurs for 30 sec. or more.	• Deceleration sensor • Deceleration sensor circuit

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
Start the inspection from step 1 in case of using the hand –held tester and start from step 2 in case of not using the hand –held tester.

1	**Check output value of the yaw rate (deceleration) sensor.**

PREPARATION:
(a) Connect the hand –held tester to the DLC3.
(b) Turn the ignition switch ON and push 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 displayed on the hand –held tester is changing when tilting the vehicle.

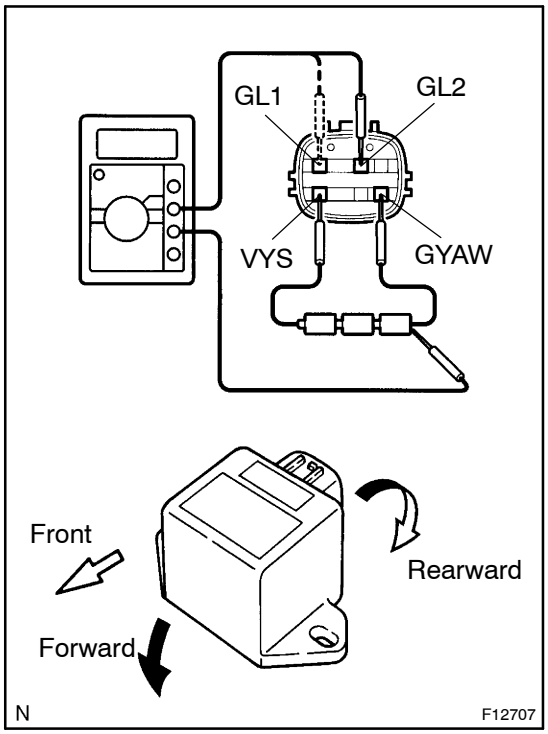
OK:

Deceleration value must be changing.

OK → **Check and replace skid control ECU.**

NG

2	Check yaw rate (deceleration) sensor.



PREPARATION:

(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.

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 rearward	1.0 V – about 2.3 V
GL1	Lean forward	About 2.3 V – 3.5 V
GL2	Horizontal	About 2.3 V
GL2	Lean rearward	About 2.3 V – 3.5 V
GL2	Lean forward	1.0 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 yaw rate sensor.

OK

3	Check for open or short circuit in harness and connector between yaw rate (deceleration) sensor and skid control ECU (See page IN–38).

NG	Repair or replace harness and connector.

OK

Check and replace skid control ECU.