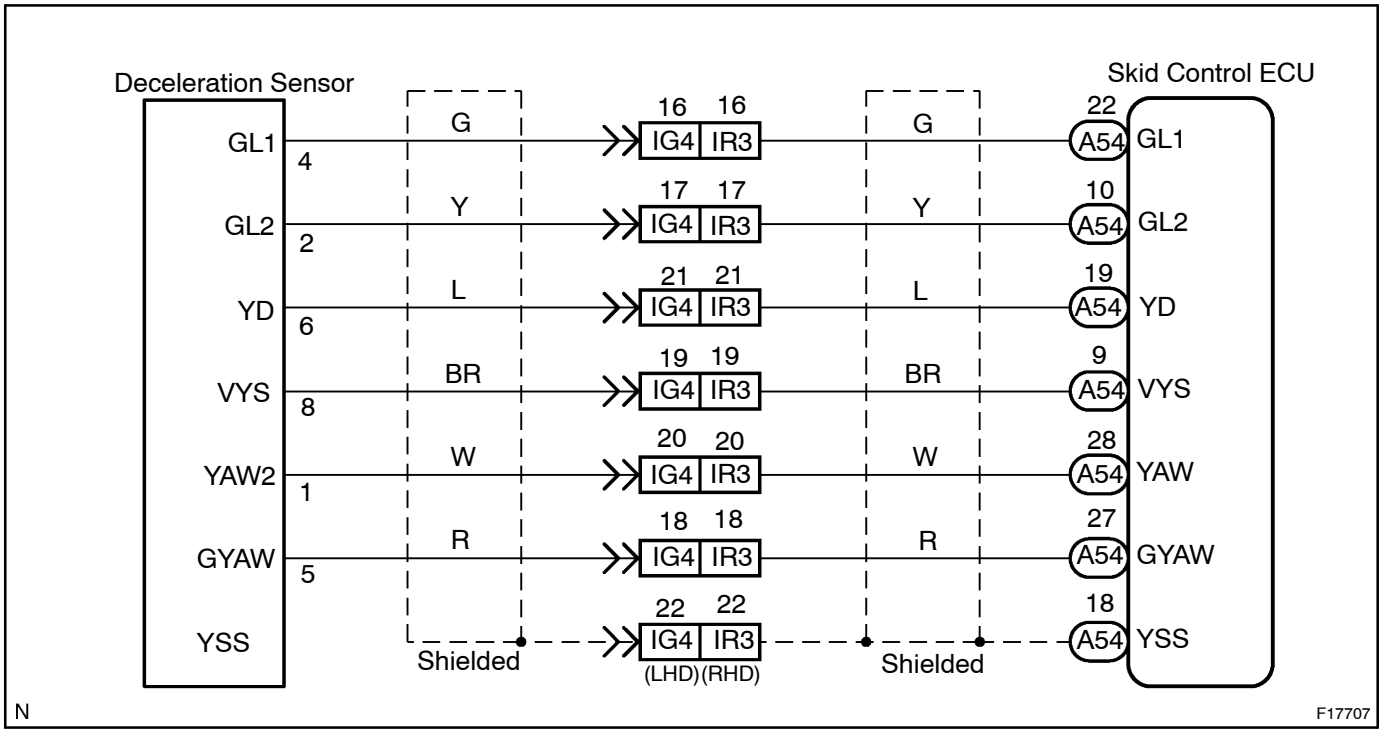
| DTC | C1244 / 44 | Deceleration Sensor Circuit |
|---|---|---|

## 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 |
|---|---|---|
| C1244 / 44 | Either of the following 1., 2., 3. or 4. is detected:<br>1. The condition that ECU terminals GL1 and GL2 values are −1.5 G or less or 1.5 G or more continues for 1.2 sec. or more.<br>2. The condition that the deceleration sensor terminal VGS voltage is 4.4 V or less or 5.6 V or more continues for 1.2 sec. or more.<br>3. At the vehicle speed of 0 km/h (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.<br>4. Deceleration sensor signal momentary open occurs for 7 times or more. | • Deceleration sensor<br>• Deceleration sensor circuit |

## WIRING DIAGRAM



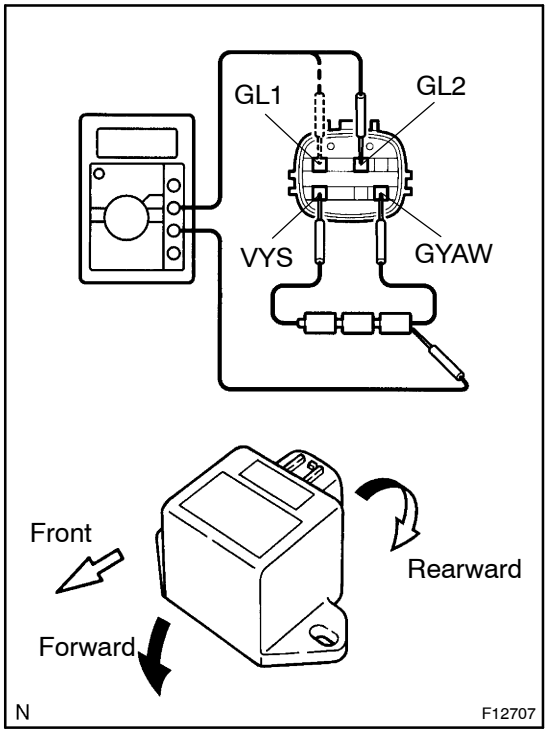
## INSPECTION PROCEDURE

| | |
|---|---|
| 1 | **Check for open and short circuit in harness and connector between deceleration sensor and skid control ECU (See page IN–38).** |

**NG** → **Repair or replace harness or connector.**

**OK**

| | |
|---|---|
| 2 | **Check 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 deceleration sensor.**

**OK**

**Check and replace skid control ECU.**