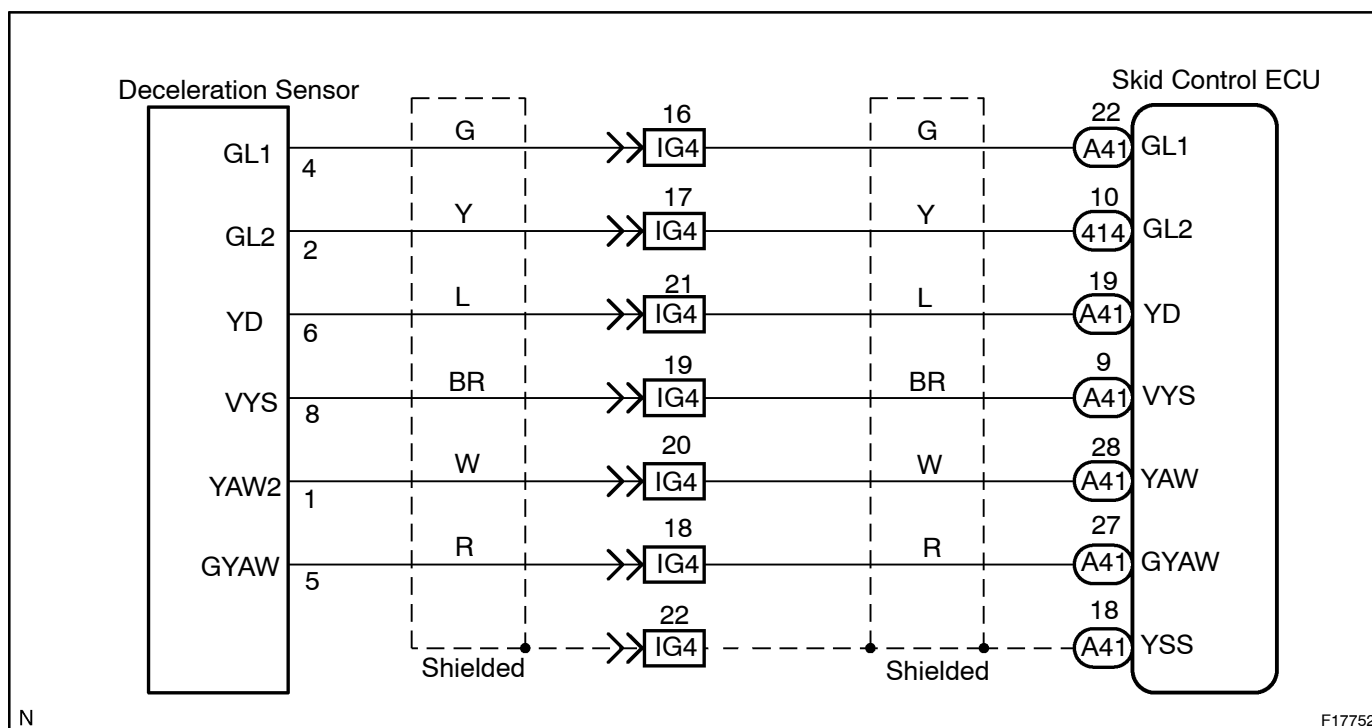


|            |                               |                                           |
|------------|-------------------------------|-------------------------------------------|
| <b>DTC</b> | <b>C1243 / 43, C1245 / 45</b> | <b>Malfunction in Deceleration Sensor</b> |
|------------|-------------------------------|-------------------------------------------|

## CIRCUIT DESCRIPTION

| DTC No.    | DTC Detecting Condition                                                                                                                                                                                                                                | Trouble Area                                                                                                                   |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| C1243 / 43 | 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.                                                           |                                                                                                                                |
| 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. | <ul style="list-style-type: none"> <li>• Deceleration sensor</li> <li>• Wire harness for deceleration sensor system</li> </ul> |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

### HINT:

Start the inspection from step1 in case of using the hand-held tester and start from step 2 in case of not using the hand-held tester.

|   |                                                                  |
|---|------------------------------------------------------------------|
| 1 | <b>Check output value of the yaw rate (deceleration) sensor.</b> |
|---|------------------------------------------------------------------|

### 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.

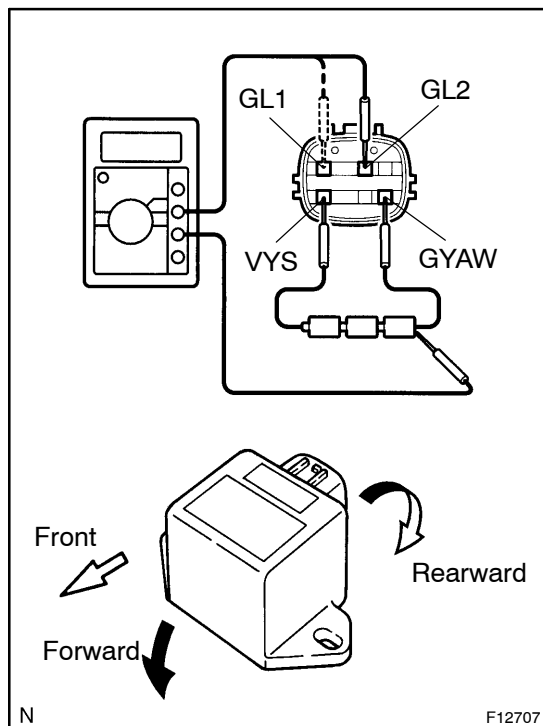
### OK:

**Deceleration value must be changing.**

OK

**Check and replace skid control ECU.**

NG

**2 Check yaw rate (deceleration) sensor.****PREPARATION:**

- Connect 3 dry batteries of 1.5 V in series.
- 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-36).****NG****Repair or replace harness or connector.****OK****Check and replace skid control ECU.**