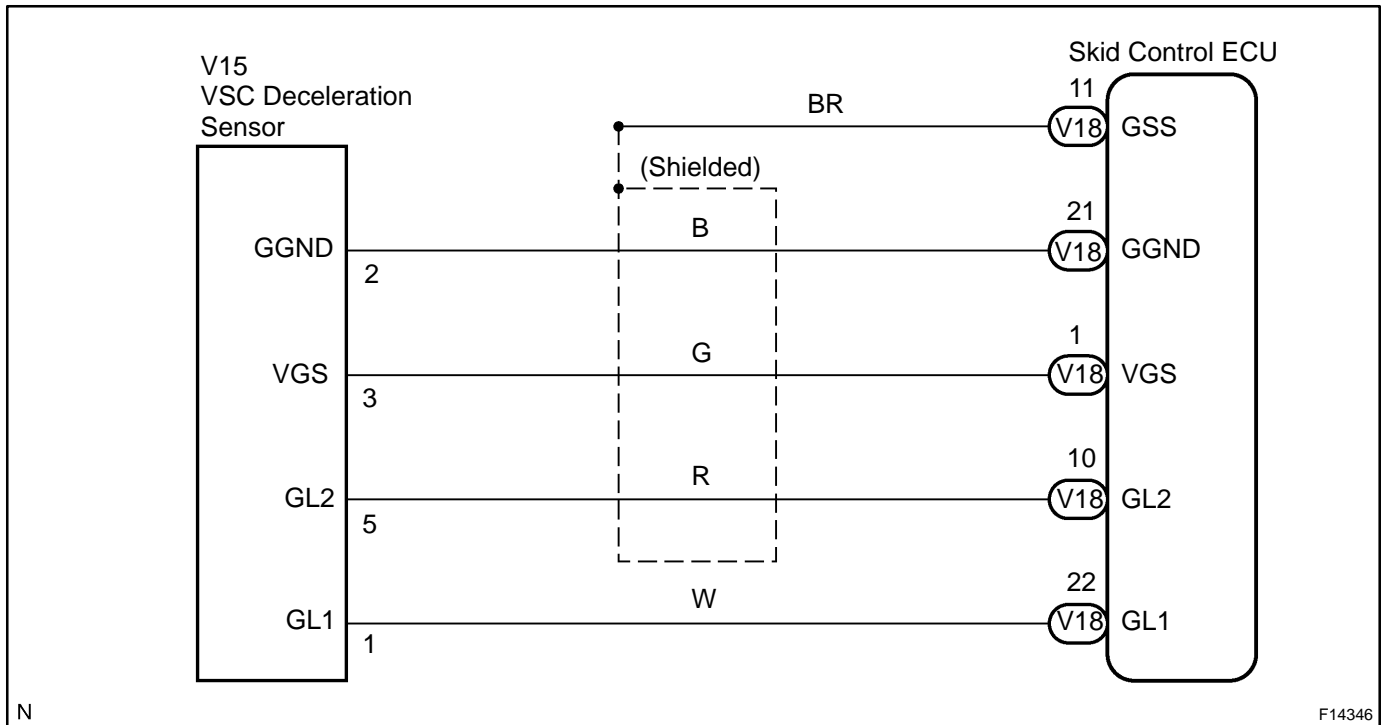


DTC	C1243 / 43, C1245 / 45	Malfunction in Deceleration Sensor
------------	-------------------------------	---

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), the condition that GL1 and GL2 signals of ECU terminals do not change 40 mV or less continues 16 times in sequence.	<ul style="list-style-type: none"> • Deceleration sensor • Wire harness for deceleration sensor system
C1245 / 45	At the vehicle speed of 30 km/h (18 mph) or more, 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.	

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Start the inspection from step 1 in case of using the hand-held tester, and go to step 3 in case of not using the hand-held tester.

1	Check output value of deceleration sensor.
---	--

PREPARATION:

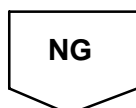
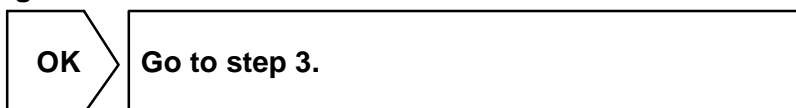
- (a) Connect the hand-held tester to DLC3.
- (b) Turn the ignition switch ON and turn the hand-held tester main switch ON.
- (c) Select the DATALIST mode on the hand-held tester.

CHECK:

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

OK:

Deceleration value must be changing.

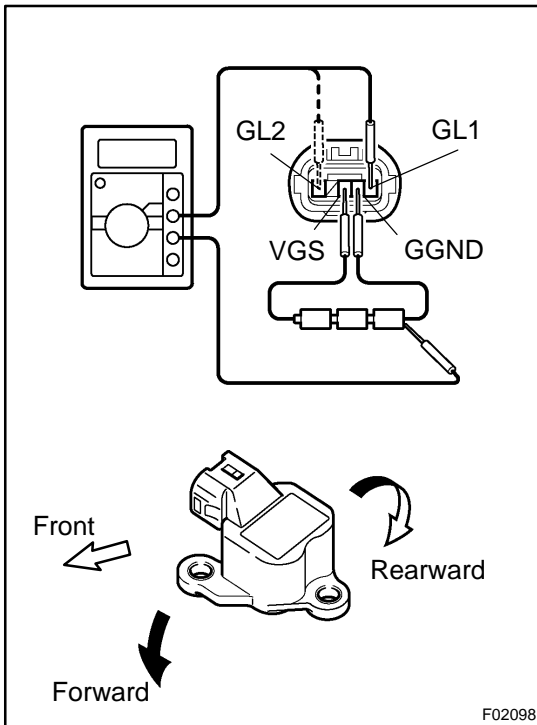


2	Check for open and short circuit in harness and connector between deceleration sensor and skid control ECU (See page IN-28).
---	---



Replace deceleration sensor.

3 Check deceleration sensor.



PREPARATION:

- Remove the consol box.
- Connect 3 dry batteries of 1.5 V in series.
- Connect VGS terminal to the batteries' positive (+) terminal, and GGND terminal to the batteries' negative (-) terminal, apply about 4.5 V between VGS and GGND 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

4 Check for open and short circuit in harness and connector between deceleration sensor and skid control ECU (See page [IN-28](#)).

NG

Repair or replace harness or connector.

OK

Check and replace skid control ECU.

2002 4RUNNER (RM887U)