

DTC	C1533 / 33	VGRS ECU Malfunction
------------	-------------------	-----------------------------

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1533/33	The system detects a temperature malfunction inside of the ECU.	• VGRS ECU

INSPECTION PROCEDURE

HINT:

- Check the VGRS thermistor temperature using hand-held tester.
- When not using hand-held tester, go to step 3.

1	Read value of the hand-held tester.
----------	--

PREPARATION:

- Connect the hand-held tester to DLC3.
- Start the engine.
- Display the VGRS data list.

CHECK:

Is the thermistor temperature below -40°C or above 130°C .

YES

Replace VGRS ECU.

NO

2	With the vehicle stopped, perform the steering operation of lock to lock 10 times.
----------	---

Did the thermistor temperature change by less than 3°C ?

NO

Replace VGRS ECU.

YES

This is not a malfunction, because C1533/33 may be set by the sudden change in the thermistor temperature due to extreme VGRS operation.

3 Thermistor temperature sensor check.**PREPARATION:**

- (a) Record and clear the VGRS DTCs.
- (b) Start the engine.
- (c) With the vehicle stopped, perform steering operation of lock to lock about 15 times.
- (d) After steering operation, leave the vehicle for about 10 minutes with the engine ON.
- (e) After leaving the vehicle for 10 minutes, perform steering operation 10 times again.
- (f) Leave the vehicle for 1 minute with the engine ON.

CHECK:

Check that DTC C1533/33 reappears.

YES**Replace VGRS ECU.****NO**

This is not a malfunction, because C1533/33 may be set by the sudden change in the thermistor temperature due to extreme VGRS operation.