

12. Diagnostic Procedure with Diagnostic Trouble Code (DTC)

A: DTC C1211 FR WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT

NOTE:

For the diagnostic procedure, refer to “DTC C1241 RL WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT”. <Ref. to VDC(diag)-46, DTC C1241 RL WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

B: DTC C1221 FL WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT

NOTE:

For the diagnostic procedure, refer to “DTC C1241 RL WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT”. <Ref. to VDC(diag)-46, DTC C1241 RL WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

C: DTC C1231 RR WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT

NOTE:

For the diagnostic procedure, refer to “DTC C1241 RL WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT”. <Ref. to VDC(diag)-46, DTC C1241 RL WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

D: DTC C1241 RL WHEEL SPEED SENSOR SYSTEM WIRE BREAK/EXCESSIVE INPUT

DTC DETECTING CONDITION:

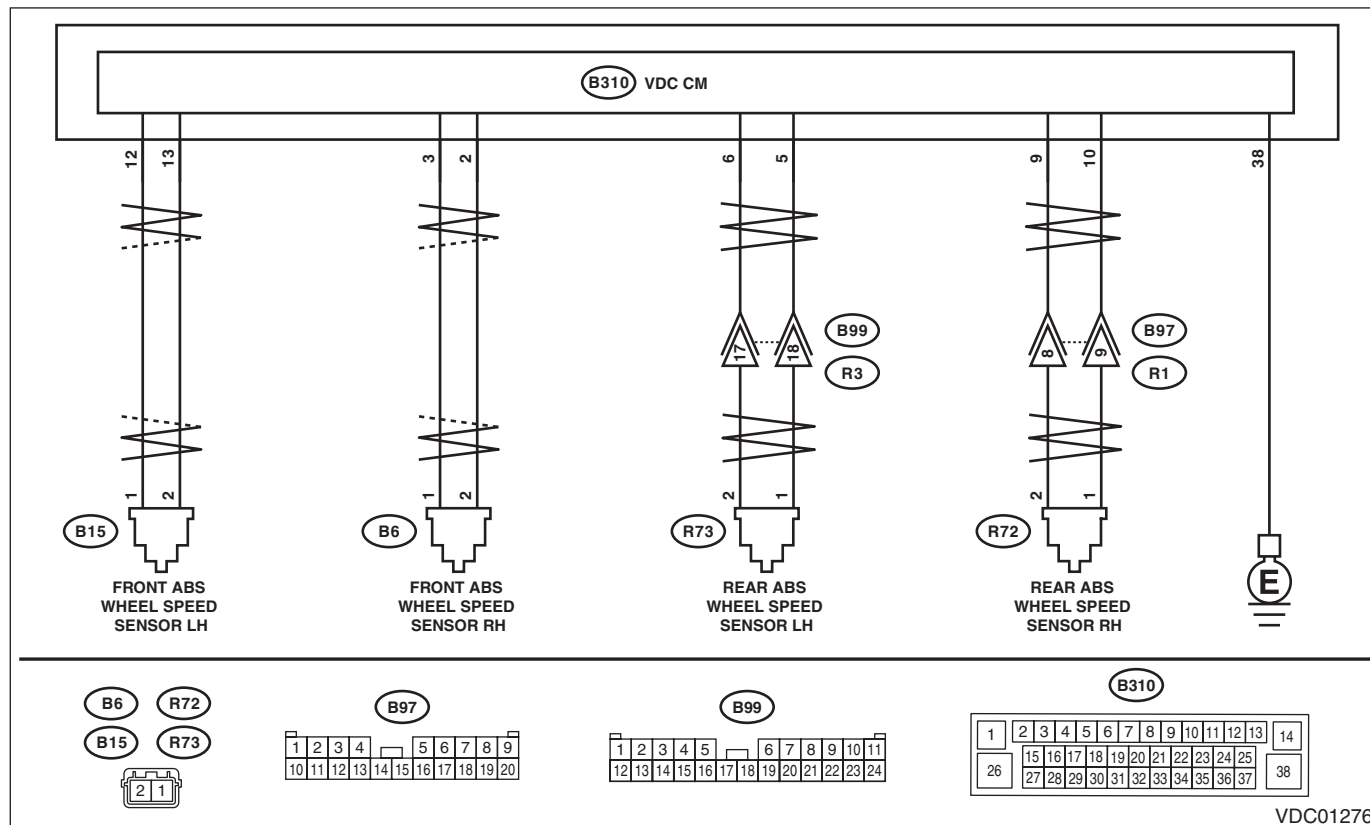
Judge as malfunction when the current value of the wheel speed sensor is out of normal range for a predetermined time or more.

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- Hill start assist does not operate.

WIRING DIAGRAM:

Vehicle dynamics control system <Ref. to WI-412, Vehicle Dynamics Control System.>



Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTOR. Check if there is poor contact between VDCCM&H/U and ABS wheel speed sensor.	Is there poor contact? Repair the connector.	Go to step 2.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
2 CHECK HARNESS CONNECTOR BETWEEN VDCCM&H/U AND ABS WHEEL SPEED SENSOR. 1) Disconnect the connector (B310) from the VDCCM&H/U. 2) Disconnect the connector from ABS wheel speed sensor. 3) Measure the resistance between VDCCM&H/U connector and ABS wheel speed sensor connector. Connector & terminal DTC C1211 (B310) No. 3 — (B6) No. 1: (B310) No. 2 — (B6) No. 2: DTC C1221 (B310) No. 12 — (B15) No. 1: (B310) No. 13 — (B15) No. 2: DTC C1231 (B310) No. 10 — (R72) No. 1: (B310) No. 9 — (R72) No. 2: DTC C1241 (B310) No. 5 — (R73) No. 1: (B310) No. 6 — (R73) No. 2:	Is the resistance less than 1 Ω ?	Go to step 3.	Repair the harness connector between VDCCM&H/U and ABS wheel speed sensor.
3 CHECK GROUND SHORT OF HARNESS. Measure the resistance between VDCCM&H/U connector and chassis ground. Connector & terminal DTC C1211 (B310) No. 2 — Chassis ground: DTC C1221 (B310) No. 13 — Chassis ground: DTC C1231 (B310) No. 9 — Chassis ground: DTC C1241 (B310) No. 6 — Chassis ground:	Is the resistance 1 M Ω or more?	Go to step 4.	Repair the harness connector between VDCCM&H/U and ABS wheel speed sensor.
4 CHECK ABS WHEEL SPEED SENSOR POWER SUPPLY CIRCUIT. 1) Connect the VDCCM&H/U connector. 2) Connect the ABS wheel speed sensor connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between ABS wheel speed sensor connector and chassis ground. Connector & terminal DTC C1211 (B6) No. 1 (+) — Chassis ground (–): DTC C1221 (B15) No. 1 (+) — Chassis ground (–): DTC C1231 (R72) No. 1 (+) — Chassis ground (–): DTC C1241 (R73) No. 1 (+) — Chassis ground (–):	Is the voltage 5 — 16 V?	Go to step 6.	Go to step 5.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
5 CHECK VDCCM&H/U POWER SUPPLY CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the VDCCM&H/U connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between VDCCM&H/U connector terminals. Connector & terminal (B310) No. 1 (+) — (B310) No. 38 (-): (B310) No. 26 (+) — (B310) No. 38 (-): (B310) No. 31 (+) — (B310) No. 38 (-):	Is the voltage 10 — 15 V?	Go to step 6.	Check the generator, battery and VDCCM&H/U power supply circuit.
6 CHECK ABS WHEEL SPEED SENSOR SIGNAL. 1) Install the ABS wheel speed sensor. 2) Prepare an oscilloscope. 3) Check the ABS wheel speed sensor. <Ref. to VDC-30, CHECK ABS WHEEL SPEED SENSOR UNIT, INSPECTION, Front ABS Wheel Speed Sensor.>	Is the pattern the same waveform as shown in the figure?	Go to step 7.	Replace the ABS wheel speed sensor. <Ref. to VDC-28, Front ABS Wheel Speed Sensor.>
7 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 8.
8 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	It results from a temporary noise interference.

E: DTC C1212 FR WHEEL SPEED SENSOR SYSTEM

NOTE:

For the diagnostic procedure, refer to “DTC C1242 RL WHEEL SPEED SENSOR SYSTEM”. <Ref. to VDC(diag)-49, DTC C1242 RL WHEEL SPEED SENSOR SYSTEM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

F: DTC C1222 FL WHEEL SPEED SENSOR SYSTEM

NOTE:

For the diagnostic procedure, refer to “DTC C1242 RL WHEEL SPEED SENSOR SYSTEM”. <Ref. to VDC(diag)-49, DTC C1242 RL WHEEL SPEED SENSOR SYSTEM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

G: DTC C1232 RR WHEEL SPEED SENSOR SYSTEM

NOTE:

For the diagnostic procedure, refer to “DTC C1242 RL WHEEL SPEED SENSOR SYSTEM”. <Ref. to VDC(diag)-49, DTC C1242 RL WHEEL SPEED SENSOR SYSTEM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

H: DTC C1242 RL WHEEL SPEED SENSOR SYSTEM

DTC DETECTING CONDITION:

- A fault is detected if the time of decompression or hold exceeds the predetermined time.
- A fault is detected if noise of the wheel speed sensor signal is detected.
- A fault is detected if the wheel speed sensor signal is lost, or the wheel speed sensor signal continuously indicates significantly low speed by calculating the difference between maximum speed and minimum speed among the four wheels.
- A fault is detected if the wheel speed sensor signal continuously indicates excessively high or low speed.
- A fault is detected if the wheel speed sensor signal changes irregularly.
- A fault is detected if the wheel speed sensor signal drops cyclically.

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- Hill start assist does not operate.

Step	Check	Yes	No
1 CHECK OUTPUT OF ABS WHEEL SPEED SENSOR USING SUBARU SELECT MONITOR. 1) Select "Current Data Display & Save" on the Subaru Select Monitor. 2) Read the defective ABS wheel speed sensor output.	Does the speed indicated on the display change in response to the speedometer reading during acceleration/deceleration when the steering wheel is in the straight-ahead position?	Go to step 2.	Go to step 7.
2 CHECK POOR CONTACT OF CONNECTOR. Turn the ignition switch to OFF.	Is there poor contact of connectors between VDCCM&H/U and ABS wheel speed sensor?	Repair the connector.	Go to step 3.
3 CHECK CAUSE OF SIGNAL NOISE. Make sure the radio wave devices and electronic components are installed correctly.	Are the radio wave devices and electronic components installed correctly?	Go to step 4.	Install the radio wave devices and electronic components properly.
4 CHECK CAUSE OF SIGNAL NOISE. Check if the noise sources (such as an antenna) are installed near the sensor harness.	Are noise sources installed?	Install the noise sources apart from sensor harness.	Go to step 5.
5 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 6.
6 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	It results from a temporary noise interference.
7 CHECK INSTALLATION OF ABS WHEEL SPEED SENSOR.	Is the ABS wheel speed sensor installation bolt tightened to 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)?	Go to step 8.	Tighten the ABS wheel speed sensor installation bolts.
8 CHECK ABS WHEEL SPEED SENSOR SIGNAL. 1) Install the ABS wheel speed sensor. 2) Prepare an oscilloscope. 3) Check the ABS wheel speed sensor. <Ref. to VDC-30, CHECK ABS WHEEL SPEED SENSOR UNIT, INSPECTION, Front ABS Wheel Speed Sensor.>	Does the oscilloscope indicate the waveform pattern like shown in the figure when the tire is slowly turned? Does the oscilloscope indication repeat the waveform pattern like shown in the figure when the tire is slowly turned in equal speed for one rotation or more?	Go to step 10.	Go to step 9.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
9 CHECK ABS WHEEL SPEED SENSOR OR MAGNETIC ENCODER.	Are there foreign matter, breakage or damage at the tip of ABS wheel speed sensor or magnetic encoder?	Remove dirt thoroughly. Also replace the ABS wheel speed sensor or magnetic encoder as a unit with hub unit bearing if it is broken or damaged.	Go to step 10.
10 CHECK CAUSE OF SIGNAL NOISE. Make sure the radio wave devices and electronic components are installed correctly.	Are the radio wave devices and electronic components installed correctly?	Go to step 11.	Install the radio wave devices and electronic components properly.
11 CHECK CAUSE OF SIGNAL NOISE. Check if the noise sources (such as an antenna) are installed near the sensor harness.	Are noise sources installed?	Install the noise sources apart from sensor harness.	Go to step 12.
12 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 13.
13 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	It results from a temporary noise interference. NOTE: Though the ABS warning light may remain on at this time, this is normal. Drive the vehicle at 40 km/h (25 MPH) or more in order to turn ABS warning light off. Be sure to drive the vehicle and check that the warning light goes off.

I: DTC C1311 FR INLET SOLENOID VALVE SYSTEM

NOTE:

For the diagnostic procedure, refer to "DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION". <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

J: DTC C1312 FR OUTLET SOLENOID VALVE SYSTEM

NOTE:

For the diagnostic procedure, refer to "DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION". <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

K: DTC C1321 FL INLET SOLENOID VALVE SYSTEM

NOTE:

For the diagnostic procedure, refer to “DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION”. <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

L: DTC C1322 FL OUTLET SOLENOID VALVE SYSTEM

NOTE:

For the diagnostic procedure, refer to “DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION”. <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

M: DTC C1331 RR INLET SOLENOID VALVE SYSTEM

NOTE:

For the diagnostic procedure, refer to “DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION”. <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

N: DTC C1332 RR OUTLET SOLENOID VALVE SYSTEM

NOTE:

For the diagnostic procedure, refer to “DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION”. <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

O: DTC C1341 RL INLET SOLENOID VALVE SYSTEM

NOTE:

For the diagnostic procedure, refer to “DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION”. <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

P: DTC C1342 RL OUTLET SOLENOID VALVE SYSTEM

NOTE:

For the diagnostic procedure, refer to “DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION”. <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Q: DTC C1351 NORMAL OPENING VALVE 1 MALFUNCTION

NOTE:

For the diagnostic procedure, refer to “DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION”. <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

R: DTC C1352 NORMAL OPENING VALVE 2 MALFUNCTION

NOTE:

For the diagnostic procedure, refer to “DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION”. <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

S: DTC C1361 NORMAL CLOSING VALVE 1 MALFUNCTION

NOTE:

For the diagnostic procedure, refer to “DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION”. <Ref. to VDC(diag)-52, DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

T: DTC C1362 NORMAL CLOSING VALVE 2 MALFUNCTION

DTC DETECTING CONDITION:

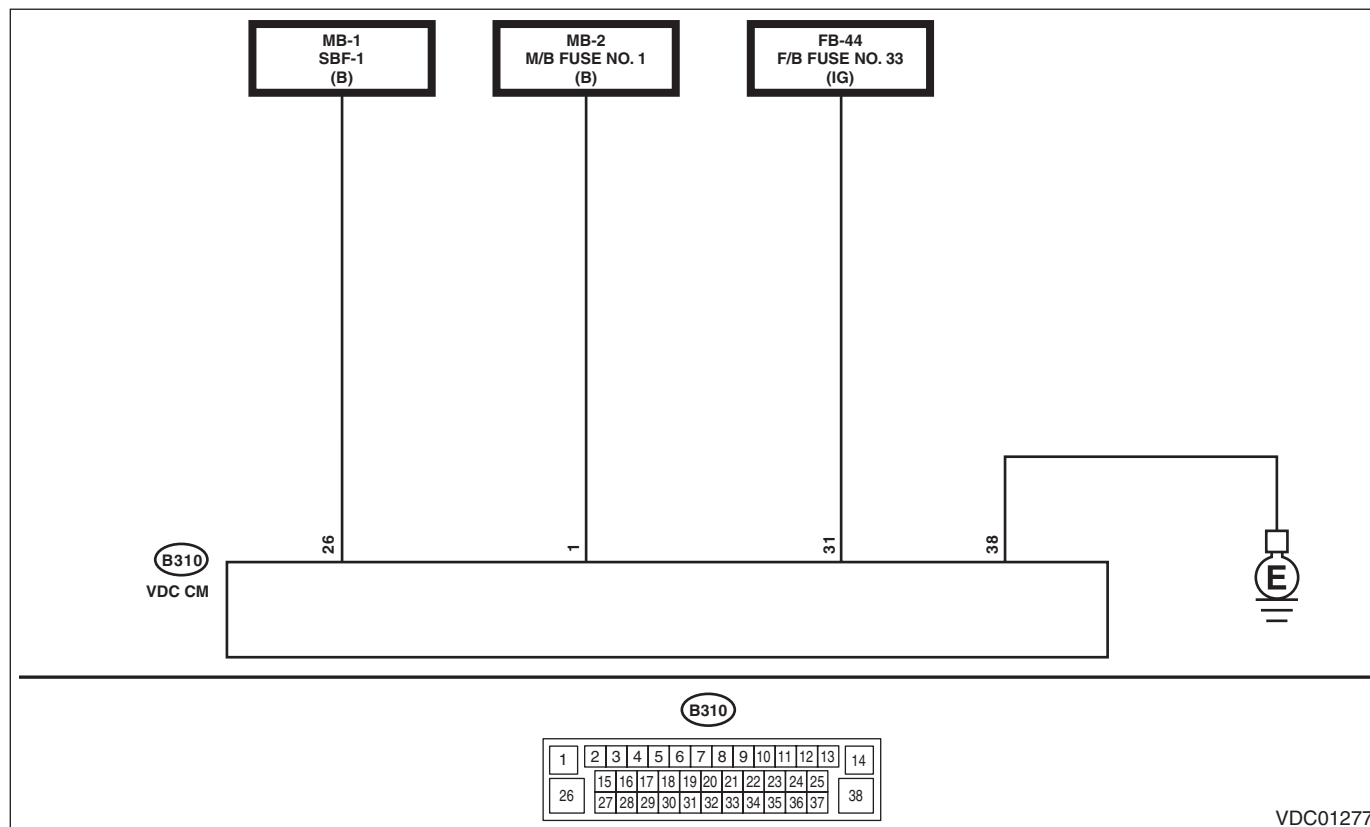
A fault is detected if electrical malfunction judgment is generated for VDCH/U solenoid valve.

TROUBLE SYMPTOM:

- ABS does not operate.
- EBD does not operate.
- VDC does not operate.
- Hill start assist does not operate.

WIRING DIAGRAM:

Vehicle dynamics control system <Ref. to WI-412, Vehicle Dynamics Control System.>



Step	Check	Yes	No
1 CHECK VDCCM&H/U INPUT VOLTAGE. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the VDCCM&H/U. 3) Run the engine at idle. 4) Measure the voltage between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 1 (+) — (B310) No. 38 (-): (B310) No. 26 (+) — (B310) No. 38 (-): (B310) No. 31 (+) — (B310) No. 38 (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the power supply circuit.
2 CHECK VDCCM&H/U GROUND CIRCUIT. 1) Turn the ignition switch to OFF. 2) Measure the resistance between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 38 — Chassis ground:	Is the resistance less than 10 Ω?	Go to step 3.	Repair the VDCCM&H/U ground harness.
3 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact of connector between generator, battery and VDCCM&H/U?	Repair the connector.	Go to step 4.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
4 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 5.
5 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

U: DTC C1411 ECU

DTC DETECTING CONDITION:

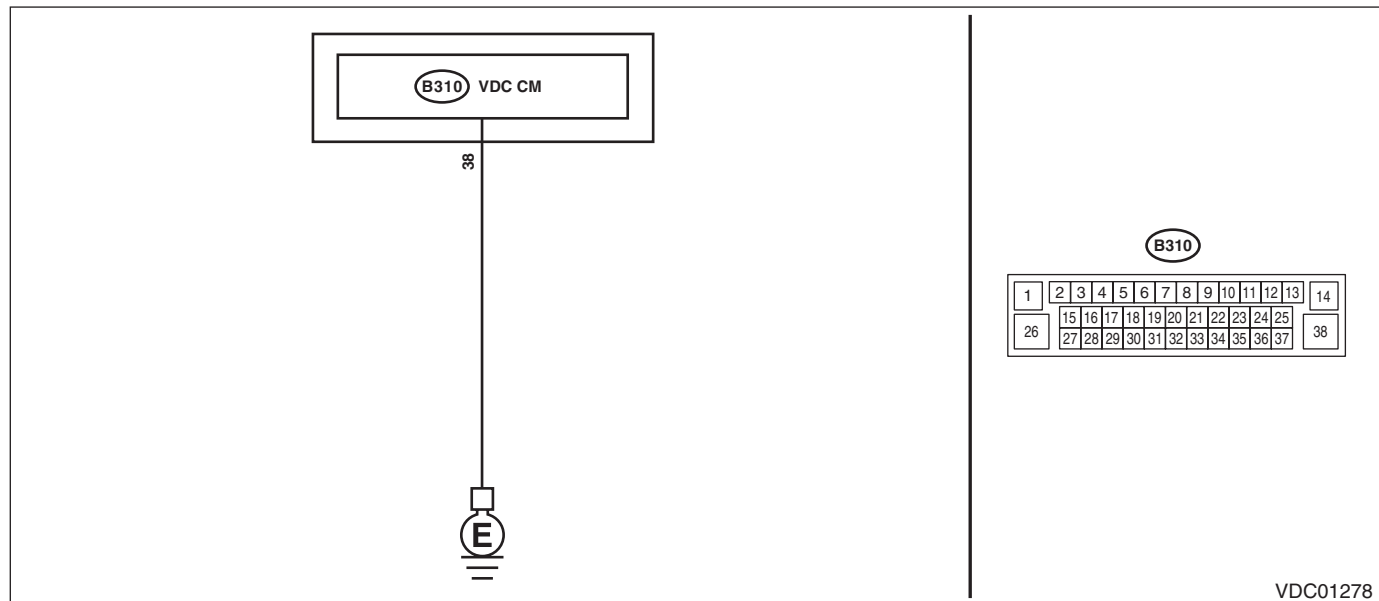
Judge as malfunction when ECM internal malfunction is detected.

TROUBLE SYMPTOM:

- ABS does not operate sometimes.
- EBD does not operate sometimes.
- VDC does not operate.
- Hill start assist does not operate.

WIRING DIAGRAM:

Vehicle dynamics control system <Ref. to WI-412, Vehicle Dynamics Control System.>



Step	Check	Yes	No
1 CHECK VDCCM&H/U GROUND CIRCUIT. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the VDCCM&H/U. 3) Measure the resistance between VDCCM&H/U and chassis ground. Connector & terminal (B310) No. 38 — Chassis ground:	Is the resistance less than 10 Ω?	Go to step 2.	Repair the VDCCM&H/U ground harness.
2 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact of the connector between the battery, ignition switch and VDCCM&H/U?	Repair the connector.	Go to step 3.
3 CHECK CAUSE OF SIGNAL NOISE.	Are the radio wave devices and electronic components installed correctly?	Go to step 4.	Install the radio wave devices and electronic components properly.
4 CHECK CAUSE OF SIGNAL NOISE.	Is there a noise source (such as an antenna) installed near the sensor harness and VDCCM?	Install the noise sources apart from sensor harness and VDCCM.	Go to step 5.
5 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 6.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step		Check	Yes	No
6	CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

V: DTC C1412 PARAMETER SELECTION ERROR

DTC DETECTING CONDITION:

- A fault is detected if abnormal set value is found on the vehicle model that were given some parameters.
- A fault is detected if 0 point setting compensation of the sensor is not yet performed.

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- Hill start assist does not operate.

NOTE:

When the VDCCM&H/U is replaced, this DTC may be stored.

Step	Check	Yes	No
1 CHECK VDCCM&H/U IDENTIFICATION SYMBOL. Check the identification symbol attached on the H/U. <Ref. to VDC-2, SPECIFICATION, General Description.>	Is the identification symbol correct?	Go to step 2.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
2 CHECK PARAMETER SELECTED IN VDC-CM. <Ref. to VDC(diag)-18, READ PARAMETER, OPERATION, Subaru Select Monitor.>	Does the parameter registered in the VDCCM match the relevant vehicle?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Select and register the correct parameter. <Ref. to VDC(diag)-17, PARAMETER SELECTION, OPERATION, Subaru Select Monitor.>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

W: DTC C1413 POWER SUPPLY VOLTAGE FAILURE

DTC DETECTING CONDITION:

A fault is detected if the power supply voltage is out of normal range for a predetermined time or more.

TROUBLE SYMPTOM:

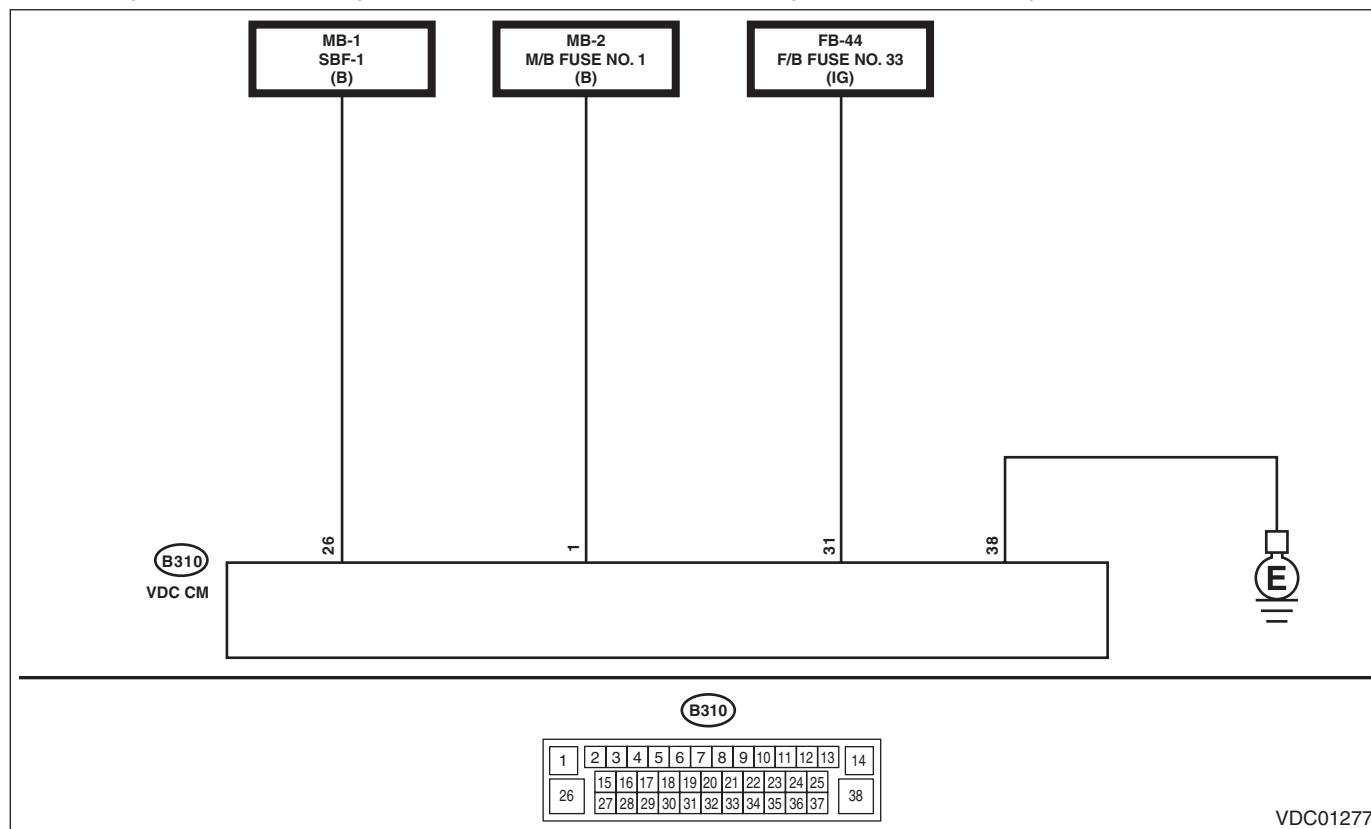
- ABS does not operate.
- EBD may not operate.
- VDC does not operate.
- Hill start assist does not operate.

NOTE:

Warning lights go off if voltage returns.

WIRING DIAGRAM:

Vehicle dynamics control system <Ref. to WI-412, Vehicle Dynamics Control System.>



Step	Check	Yes	No
1 CHECK GENERATOR. 1) Start the engine. 2) Run the engine at idle after warming up. 3) Measure the voltage between generator terminal B and chassis ground. Terminals Generator terminal B (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the generator.
2 CHECK BATTERY TERMINAL. Turn the ignition switch to OFF.	Are the positive and negative battery terminals installed tightly?	Go to step 3.	Install the battery terminal correctly.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
3 CHECK VDCCM&H/U INPUT VOLTAGE. 1) Disconnect the connector from the VDCCM&H/U. 2) Run the engine at idle. 3) Operate devices such as headlights, air conditioner, rear defogger, etc. which produce an electrical load. 4) Measure the voltage between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 1 (+) — (B310) No. 38 (-): (B310) No. 26 (+) — (B310) No. 38 (-): (B310) No. 31 (+) — (B310) No. 38 (-):	Is the voltage 10 — 15 V?	Go to step 4.	Repair the power supply circuit.
4 CHECK VDCCM&H/U GROUND CIRCUIT. 1) Turn the ignition switch to OFF. 2) Measure the resistance between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 38 — Chassis ground:	Is the resistance less than 10 Ω ?	Go to step 5.	Repair the VDCCM&H/U ground harness circuit.
5 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact of connector between generator, battery and VDCCM&H/U?	Repair the connector.	Go to step 6.
6 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 7.
7 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

X: DTC C1422 VDC INTERRUPTION FOR ENGINE CONVENIENCE

DTC DETECTING CONDITION:

A fault is detected if engine control prohibition flag from ECM is received.

TROUBLE SYMPTOM:

- VDC does not operate.
- Hill start assist does not operate.

NOTE:

Warning lights go off if the cooperation control of ECM returns.

Step	Check	Yes	No
1 CHECK COOPERATION CONTROL FEASIBILITY OF ECM USING SUBARU SELECT MONITOR. 1) Start the engine, and run the engine at idle approximately 5 minutes. 2) Connect Subaru Select Monitor, and select "Current Data Display & Save". 3) Check «E/G Control Stop Flag» and «E/G torques up Control Stop Flag» on the display.	Does the «E/G Control Stop Flag» indicate "1"?	Go to step 4.	Go to step 2.
2 CHECK WARNING LIGHT. Check whether the VDC warning light illuminates after driving for 1 minute or more at a speed of 10 km/h (6 MPH) or more.	Does the VDC warning light illuminate?	Go to step 3.	VDC is normal. Perform the Clear Memory Mode. NOTE: DTC may be recorded if cranking is performed during driving.
3 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact of ECM connector?	Repair the connector.	Go to step 4.
4 CHECK ECM. Refer to the basic diagnostic procedure of ENGINE (DIAGNOSTICS).	Is ECM normal?	Go to step 5.	Replace the ECM. <Ref. to FU(w/o STI)-132, Engine Control Module (ECM).> <Ref. to FU(STI)-56, Engine Control Module (ECM).>
5 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 6.
6 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	It results from a temporary noise interference.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Y: DTC C1423 DIFFERENT ECU SPECIFICATIONS

DTC DETECTING CONDITION:

A fault is detected if the vehicle type information obtained from ECM via communication is different from the parameter setting information.

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- Hill start assist does not operate.

NOTE:

When parameter selection for VDCCM is improper, this DTC may be memorized.

Step	Check	Yes	No
1 CHECK VDCCM&H/U IDENTIFICATION SYMBOL. Check the identification symbol attached on the H/U. <Ref. to VDC-2, SPECIFICATION, General Description.>	Is the identification symbol correct?	Go to step 2.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
2 CHECK PARAMETER SELECTED IN VDCCM. <Ref. to VDC(diag)-18, READ PARAMETER, OPERATION, Subaru Select Monitor.>	Does the parameter registered in the VDCCM match the relevant vehicle?	CVT model: Go to step 3. MT model: Go to step 5.	Select and register the correct parameter. <Ref. to VDC(diag)-17, PARAMETER SELECTION, OPERATION, Subaru Select Monitor.>
3 CHECK TCM SPECIFICATION. Check the TCM specification.	Is the specification of TCM same as vehicle specification?	Go to step 4.	Replace the TCM. <Ref. to CVT(TR690)-126, Transmission Control Module (TCM).>
4 CHECK CVT SYSTEM. 1) Start the engine. 2) Check the DTC in CVT system.	Is DTC of CVT system displayed?	Perform the diagnosis according to DTC. <Ref. to CVT(diag)-32, List of Diagnostic Trouble Code (DTC).>	Go to step 5.
5 CHECK ECM SPECIFICATION. Check the ECM specification.	Is the specification of ECM same as vehicle specification?	Go to step 6.	Replace the ECM. <Ref. to FU(w/o STI)-132, Engine Control Module (ECM).> <Ref. to FU(STI)-56, Engine Control Module (ECM).>
6 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 7.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
7 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	It results from a temporary noise interference.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Z: DTC C1424 ECM FAILURE

DTC DETECTING CONDITION:

A fault is detected if malfunction judgment flag for the engine system is received from ECM for a predetermined time or more.

TROUBLE SYMPTOM:

Hill start assist does not operate.

Step	Check	Yes	No
1 CHECK ECM. 1) Start the engine. 2) Check DTC of ECM.	Is DTC displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 3.
3 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	It results from a temporary noise interference.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AA:DTC C1431 AT ABNORMAL

DTC DETECTING CONDITION:

A fault is detected if malfunction flag is received from TCM.

TROUBLE SYMPTOM:

- VDC does not operate.
- Hill start assist does not operate.

Step	Check	Yes	No
1 CHECK TCM. 1) Start the engine. 2) Check DTC of TCM.	Is DTC displayed?	Perform the diagnosis according to DTC. <Ref. to CVT(diag)-32, List of Diagnostic Trouble Code (DTC).>	Go to step 2.
2 CHECK VDCCM&H/U. 1) Turn the ignition switch to OFF. 2) After turning the ignition switch to ON for approx. 10 seconds, turn it to OFF. 3) Turn the ignition switch to ON again. 4) Connect all connectors. 5) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 6) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 7) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 3.
3 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	It results from a temporary noise interference.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AB:DTC C1511 VALVE RELAY

DTC DETECTING CONDITION:

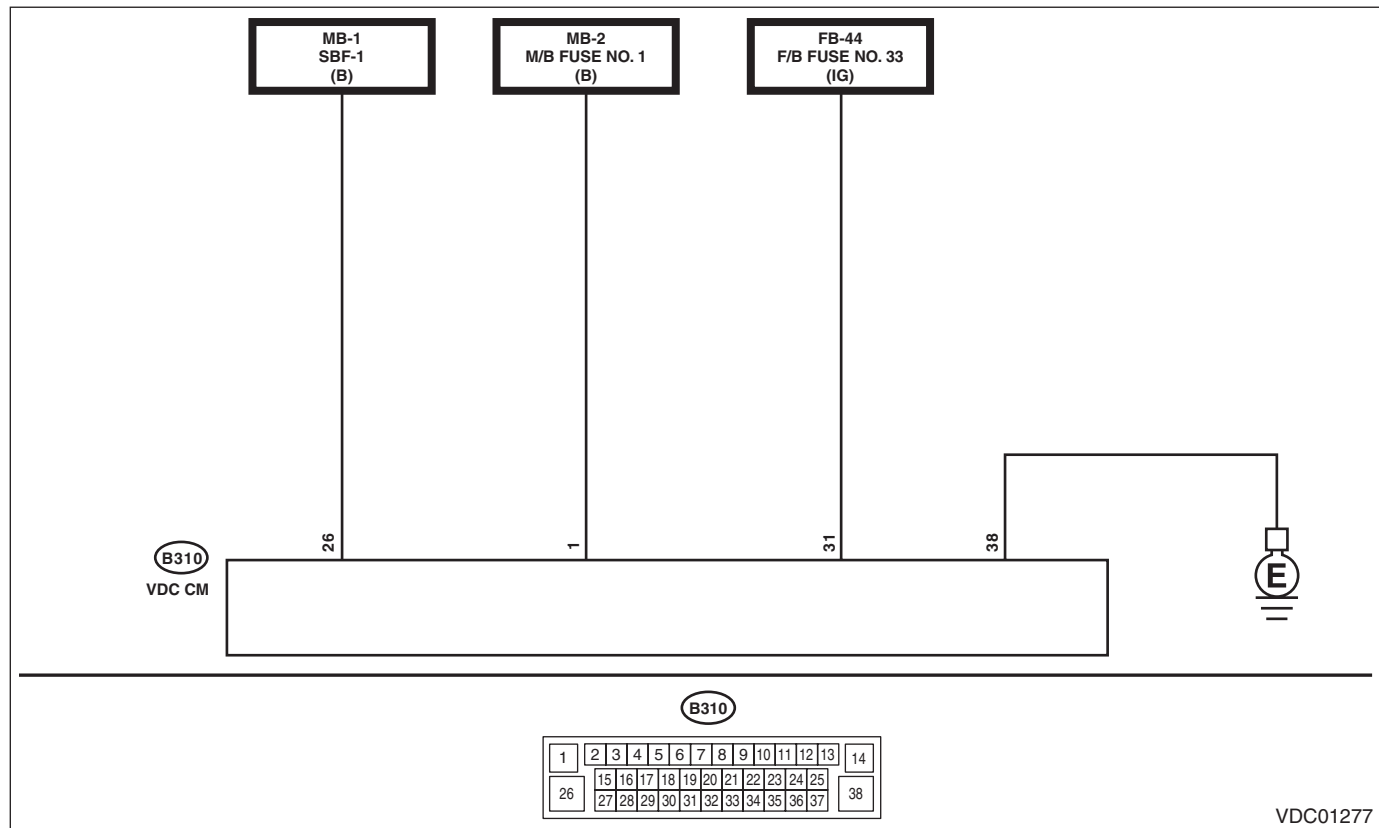
A fault is detected if valve relay drive voltage failure is detected.

TROUBLE SYMPTOM:

- ABS does not operate.
- EBD does not operate.
- VDC does not operate.
- Hill start assist does not operate.

WIRING DIAGRAM:

Vehicle dynamics control system <Ref. to WI-412, Vehicle Dynamics Control System.>



Step	Check	Yes	No
1 CHECK VDCCM&H/U INPUT VOLTAGE. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the VDCCM&H/U. 3) Run the engine at idle. 4) Measure the voltage between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 1 (+) — Chassis ground (-): (B310) No. 31 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the power supply circuit.
2 CHECK VDCCM&H/U INPUT VOLTAGE. Calculate the voltage difference measured in step 1. A: (B310) No. 1 (+) — Chassis ground (-): B: (B310) No. 31 (+) — Chassis ground (-):	Is the voltage difference between A and B 2 V or more?	Repair the power supply circuit.	Go to step 3.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
3 CHECK VDCCM&H/U GROUND CIRCUIT. 1) Turn the ignition switch to OFF. 2) Measure the resistance between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 38 — Chassis ground:	Is the resistance less than 10 Ω ?	Go to step 4.	Repair the VDCCM&H/U ground harness.
4 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact of connector between generator, battery and VDCCM&H/U?	Repair the connector.	Go to step 5.
5 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 6.
6 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AC:DTC C1521 MOTOR RELAY

DTC DETECTING CONDITION:

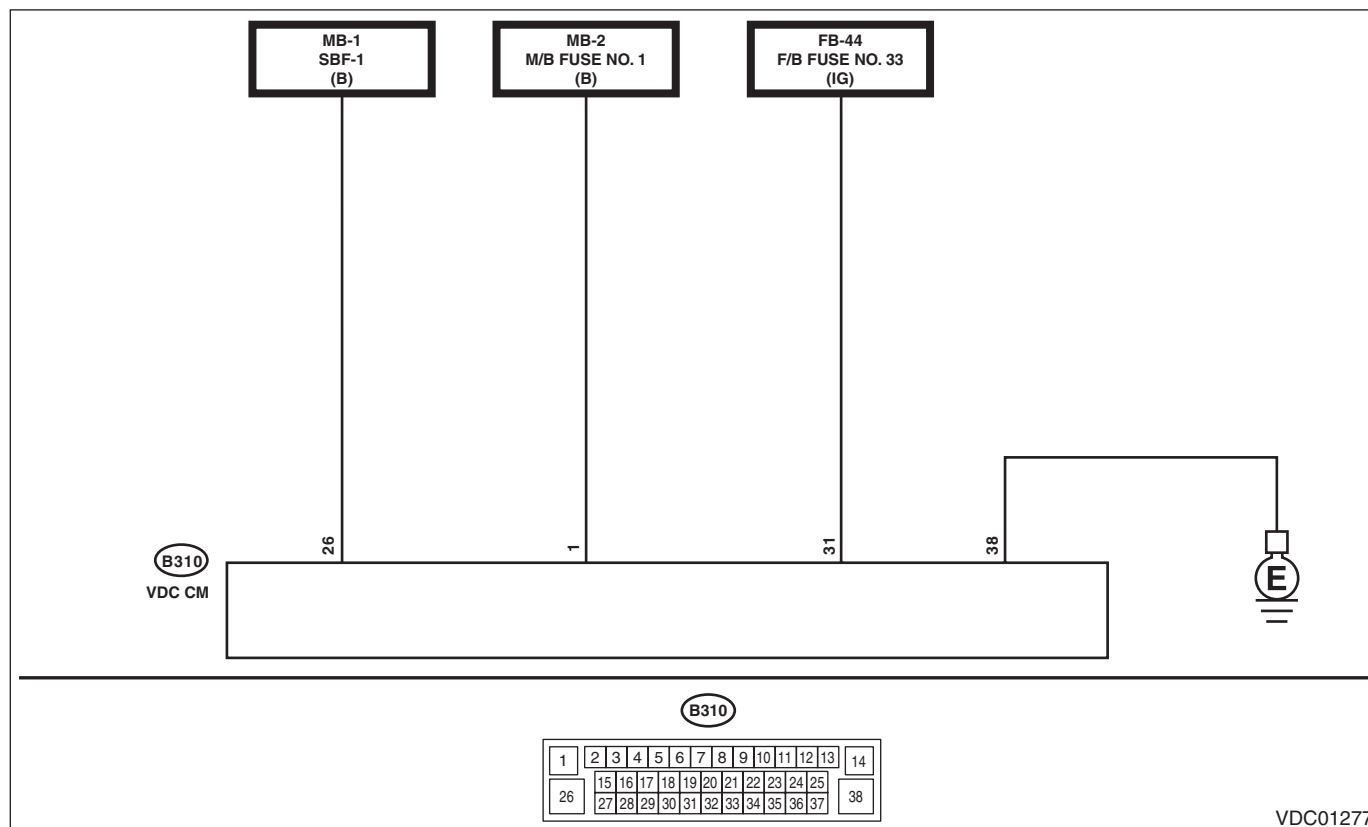
A fault is detected if the pump motor supply voltage becomes significantly low when the pump motor is not driven.

TROUBLE SYMPTOM:

- ABS does not operate sometimes.
- VDC does not operate.
- Hill start assist does not operate.

WIRING DIAGRAM:

Vehicle dynamics control system <Ref. to WI-412, Vehicle Dynamics Control System.>



Step	Check	Yes	No
1 CHECK VDCCM&H/U INPUT VOLTAGE. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the VDCCM&H/U. 3) Turn the ignition switch to ON. 4) Measure the voltage between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 26 (+) — Chassis ground (-): (B310) No. 31 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the VDCCM&H/U power supply circuit.
2 CHECK VDCCM&H/U INPUT VOLTAGE. Calculate the voltage difference measured in step 1. A: (B310) No. 26 (+) — Chassis ground (-): B: (B310) No. 31 (+) — Chassis ground (-):	Is the voltage difference between A and B 2 V or more?	Repair the power supply circuit.	Go to step 3.
3 CHECK INSTALLATION OF VDCCM&H/U GROUND.	Is the VDCCM&H/U ground terminal installation bolt installed correctly?	Go to step 4.	Install the VDCCM&H/U ground terminal installation bolt correctly.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
4 CHECK VDCCM&H/U GROUND CIRCUIT. 1) Turn the ignition switch to OFF. 2) Measure the resistance between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 38 — Chassis ground:	Is the resistance less than 10 Ω ?	Go to step 5.	Repair the VDCCM&H/U ground harness.
5 CHECK VDCCM&H/U MOTOR RELAY. Measure the resistance between VDCCM&H/U terminals. Terminals No. 26 — No. 38:	Is the resistance 1 M Ω or more?	Go to step 6.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
6 CHECK POOR CONTACT OF CONNECTORS. Turn the ignition switch to OFF.	Is there poor contact of connector between generator, battery and VDCCM&H/U?	Repair the connector.	Go to step 7.
7 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 8.
8 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs. NOTE: Though the ABS warning light, and the VDC warning light & VDC indicator light may remain lit at this point, this is normal. Drive the vehicle at 40 km/h (25 MPH) or more in order to turn off the ABS warning light, and the VDC warning light & VDC indicator light. Be sure to drive the vehicle and check that the warning light goes off.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AD:DTC C1531 BLS OFF FAULT

DTC DETECTING CONDITION:

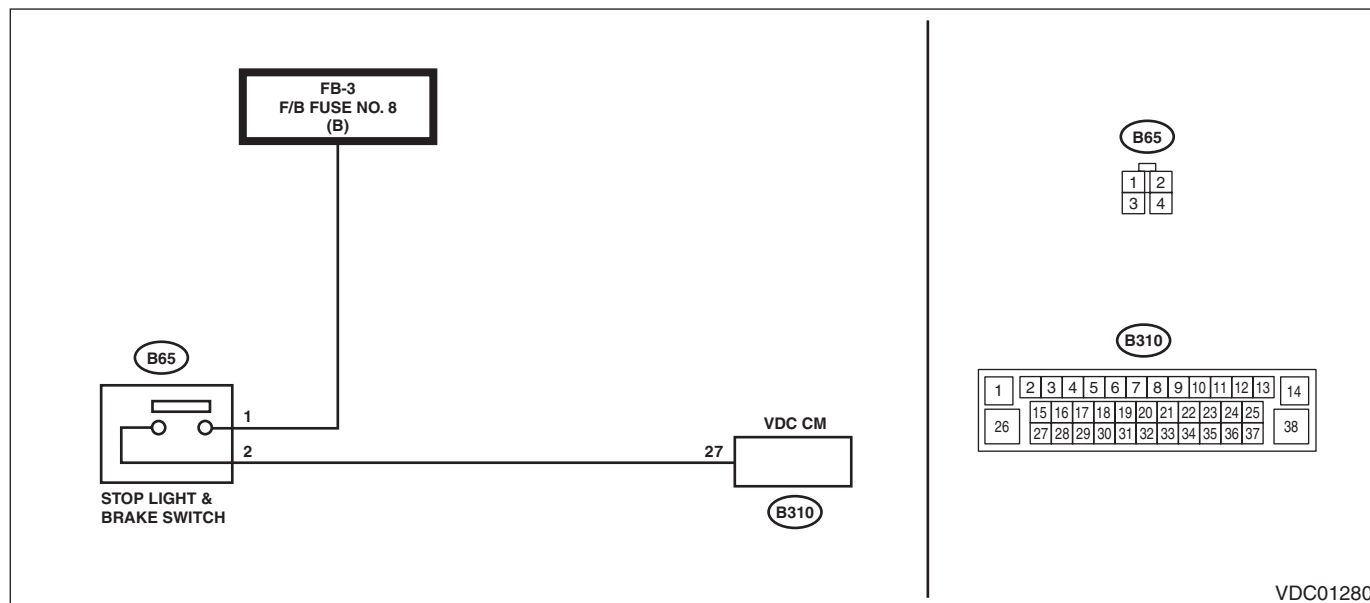
A fault is detected if stop light switch signal is OFF for a predetermined time or more with the pressure signal of the pressure sensor high.

TROUBLE SYMPTOM:

- VDC does not operate.
- Hill start assist does not operate.

WIRING DIAGRAM:

Stop light system <Ref. to WI-397, ENGINE TYPE FA, WIRING DIAGRAM, Stop Light System.>



Step	Check	Yes	No
1 CHECK STOP LIGHT SWITCH. 1) Check the stop light switch. <Ref. to BR-77, INSTALLATION, Stop Light Switch.>	Is the installation position of the stop light switch correct?	Go to step 2.	Adjust the installation position of the stop light switch. <Ref. to BR-77, INSTALLATION, Stop Light Switch.>
2 CHECK STOP LIGHT SWITCH. 1) Turn the ignition switch to OFF. 2) Disconnect the stop light switch connector. 3) Measure the resistance of stop light switch terminals. Connector & terminal (B65) No. 1 — No. 2:	Is the resistance 1 Ω or less when the stop light switch is ON (when pedal is depressed)?	Go to step 3.	Replace the stop light switch. <Ref. to BR-77, Stop Light Switch.>
3 CHECK STOP LIGHT POWER SUPPLY. Measure the voltage between stop light switch terminal and chassis ground. Connector & terminal (B65) No. 1 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 4.	Repair the stop light power supply circuit.
4 CHECK STOP LIGHT SWITCH HARNESS. 1) Disconnect the connector from the VDCCM&H/U. 2) Measure the resistance between VDCCM&H/U and stop light switch. Connector & terminal (B65) No. 2 — (B310) No. 27:	Is the resistance less than 1 Ω?	Go to step 5.	Repair the stop light switch circuit.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
5 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact of connector between stop light switch and VDCCM&H/U?	Repair the connector.	Go to step 6.
6 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 7.
7 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AE:DTC C1532 BLS ON FAULT

DTC DETECTING CONDITION:

- A fault is detected if a change of the vehicle speed from high to low occurs for a predetermined number of times or more, while a change of the stop light switch from OFF to ON is not detected.
- A fault is detected if stop light switch ON status continues for long time while the vehicle speed is at the predetermined speed or higher.

TROUBLE SYMPTOM:

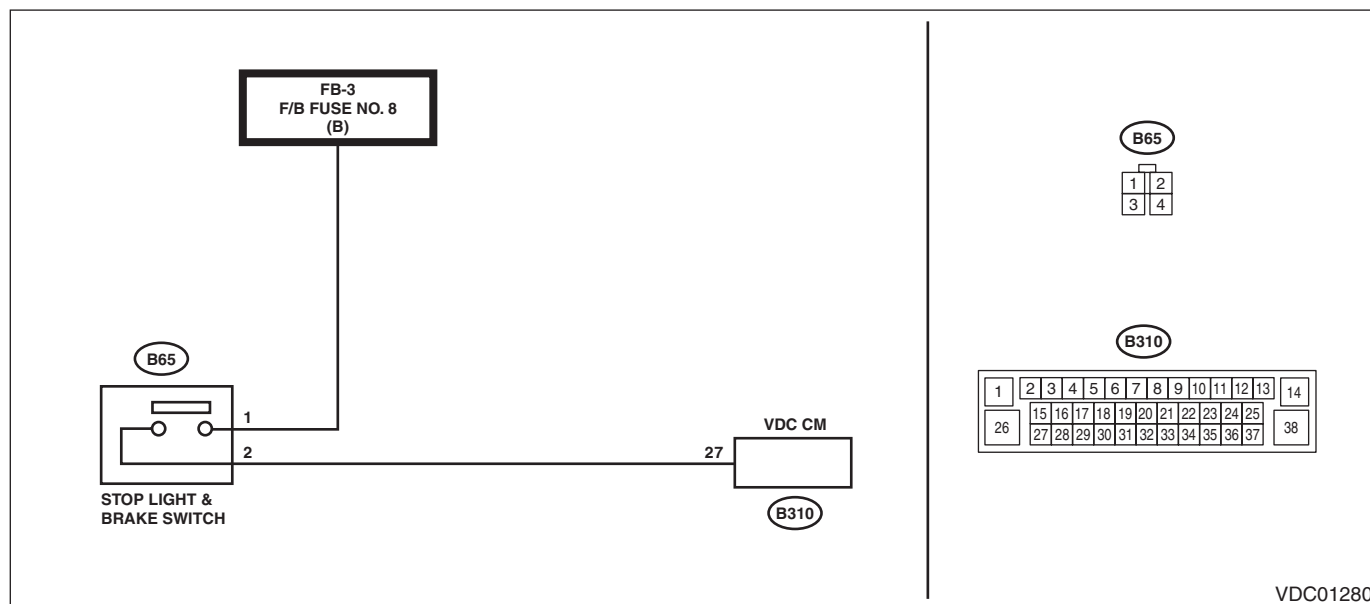
- VDC does not operate.
- Hill start assist does not operate.

NOTE:

If the pressure sensor is defective, this DTC may probably be recorded in addition to pressure sensor malfunction.

WIRING DIAGRAM:

Stop light system <Ref. to WI-397, ENGINE TYPE FA, WIRING DIAGRAM, Stop Light System.>



VDC01280

Step	Check	Yes	No
1 CHECK STOP LIGHT SWITCH. 1) Turn the ignition switch to OFF. 2) Disconnect the stop light switch connector. 3) Measure the resistance of stop light switch terminals. Connector & terminal (B65) No. 1 — No. 2:	Is the resistance 1 MΩ or more when stop light switch is OFF (when pedal is not depressed)?	Go to step 2.	Replace the stop light switch. <Ref. to BR-77, Stop Light Switch.>
2 CHECK STOP LIGHT SWITCH HARNESS. 1) Disconnect the connector from the VDCCM&H/U. 2) Measure the resistance between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 27 — Chassis ground:	Is the resistance less than 1 MΩ?	Go to step 3.	Repair the stop light switch circuit.
3 INTERVIEW CUSTOMERS. Make sure that the operation was performed in which accelerator pedal and brake pedal were depressed simultaneously (with depressing brake pedal with left foot).	Were the acceleration pedal and brake pedal depressed simultaneously?	System is normal. (DTC may be recorded if the brake pedal is always depressed while driving.)	Go to step 4.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
4 CHECK VDCCM&H/U. 1) Connect all connectors. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 5.
5 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs.

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

DTC DETECTING CONDITION:

- TROUBLE SYMPTOM:**

- ### WIRING DIAGRAM:

FB-44
F/B FUSE NO. 33
(IG)

B310 VDC CM

BODY INTEGRATED UNIT

B: (B281)
C: (i84)

B20
B28
C35
C27

I/F

J/C

(i232)

*1

(i233)

(i229)

(B551)

STEERING ANGLE SENSOR

(B231)

4

3

2

1

E

Terminal Block (B231):

1	2	3	4
---	---	---	---

Terminal Block (E):

1	2	3	4
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Terminal Block (B281):

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

Terminal Block (i84):

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Terminal Block (B310):

1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31	32	33	34	35	36	37	38	39	40	41	42

Terminal Block (I229):

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Terminal Block (I232):

1	2	3	4
5	6	7	8

Terminal Block (I233):

1	2	3	4
5	6	7	8

Terminal Block (B551):

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Terminal Block (B20):

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Terminal Block (B28):

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Terminal Block (C35):

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Terminal Block (C27):

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Terminal Block (I232):

1	2	3	4
5	6	7	8

Terminal Block (I233):

1	2	3	4
5	6	7	8

Terminal Block (B551):

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Terminal Block (B20):

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Terminal Block (B28):

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Terminal Block (C35):

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Terminal Block (C27):

1	2	3	4	5
6	7	8	9	10
11	12	13		

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK POWER SUPPLY FOR STEERING ANGLE SENSOR. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from steering angle sensor. 3) Turn the ignition switch to ON. 4) Measure the voltage between steering angle sensor and chassis ground. Connector & terminal (B231) No. 4 (+) — Chassis ground (–):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the steering angle sensor power supply circuit.
2 CHECK GROUND CIRCUIT OF STEERING ANGLE SENSOR. Measure the resistance between steering angle sensor and chassis ground. Connector & terminal (B231) No. 1 — Chassis ground:	Is the resistance less than 10 Ω ?	Go to step 3.	Repair ground circuit in the steering angle sensor.
3 CHECK STEERING ANGLE SENSOR HARNESS. 1) Disconnect the connector from the VDCCM&H/U. 2) Measure the resistance between VDCCM&H/U and steering angle sensor. Connector & terminal (B231) No. 2 — (B310) No. 35: (B231) No. 3 — (B310) No. 36:	Is the resistance less than 1 Ω ?	Go to step 4.	Repair the harness between the steering angle sensor and VDCCM&H/U.
4 CHECK GROUND SHORT CIRCUIT OF STEERING ANGLE SENSOR HARNESS. Measure the resistance between steering angle sensor and chassis ground. Connector & terminal (B231) No. 2 — Chassis ground: (B231) No. 3 — Chassis ground:	Is the resistance 10 Ω or more?	Go to step 5.	Repair the harness between the steering angle sensor and VDCCM&H/U.
5 CHECK STEERING WHEEL. 1) Drive the vehicle on a flat road. 2) Park the vehicle straight. 3) Check the steering wheel for deviation from center.	Is the deviation from the center of steering wheel less than 5°?	Go to step 6.	Perform the centering adjustment of steering wheel, and perform the VDC sensor midpoint setting mode. <Ref. to VDC-16, VDC SENSOR MIDPOINT SETTING MODE, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
6 CHECK OUTPUT OF STEERING ANGLE SENSOR USING SUBARU SELECT MONITOR. 1) Adjust steering wheel to the center position. 2) Connect Subaru Select Monitor, and select "Current Data Display & Save". 3) Read the "Steering Angle Sensor" displayed on display.	Is the indicated reading of the «Steering Angle Sensor» on the monitor display –10° — 10°?	Perform the VDC sensor midpoint setting mode. Go to step 7. <Ref. to VDC-16, VDC SENSOR MIDPOINT SETTING MODE, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Check the installation of the steering wheel and steering angle sensor.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
7 CHECK STEERING ANGLE SENSOR USING SUBARU SELECT MONITOR. 1) Turn the ignition switch to OFF. 2) Connect all connectors. 3) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 4) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 5) Read the DTC.	Is the same DTC displayed?	Go to step 8.	Go to step 9.
8 CHECK VDCCM&H/U. 1) Turn the ignition switch to OFF. 2) Replace the steering angle sensor. <Ref. to VDC-24, Steering Angle Sensor.> 3) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 4) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 5) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 10.
9 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs.
10 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	Original steering angle sensor malfunction

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AG:DTC C1721 YAW RATE SENSOR ABNORMAL

DTC DETECTING CONDITION:

- A fault is detected if the sensor signal value is not correct.
- A fault is detected if the steering angle sensor signal / lateral G sensor signal change while the yaw rate sensor signal indicates a constant value.
- A fault is detected if the communication status of yaw rate sensor is abnormal.

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- Hill start assist does not operate.

Step	Check	Yes	No
1 INTERVIEW CUSTOMERS. Check if the vehicle ran the road with banks or sandy surface (which does not mean a dirt road).	Did the vehicle run the road with banks or sandy surface (which does not mean a dirt road)?	VDCCM&H/U may record DTC when the vehicle ran the road with banks or sandy surface (which does not mean a dirt road).	Go to step 2.
2 CHECK INSTALLATION OF VDCCM&H/U.	Is VDCCM&H/U installed properly without being tilted? Is the bracket deformation-free? Are the VDCCM&H/U installation bolts installed without missing or getting loose?	Go to step 3.	Repair the defective part. Go to step 3. • Install VDCCM&H/U properly. • Replace the bracket if faulty. • Tighten the VDCCM&H/U installation bolt. <Ref. to VDC-4, VDC CONTROL MODULE & HYDRAULIC CONTROL UNIT (VDCCM&H/U), COMPONENT, General Description.>
3 CHECK OUTPUT OF YAW RATE & G SENSOR WITH SUBARU SELECT MONITOR. 1) Drive the vehicle on a flat road. 2) Park the vehicle straight. 3) Select "Current Data Display & Save" on the Subaru Select Monitor. 4) Read the «Yaw Rate Sensor» displayed on display.	Is the reading indicated on monitor display -4 — 4 deg/s?	Go to step 4.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
4 CHECK OUTPUT OF STEERING ANGLE SENSOR WITH SUBARU SELECT MONITOR. 1) Drive the vehicle on a flat road. 2) Park the vehicle straight. 3) Select "Current Data Display & Save" on the Subaru Select Monitor. 4) Read the «Steering Angle Sensor» displayed on display.	Is the reading indicated on monitor display -10 — 10°?	Go to step 5.	Perform the centering adjustment of steering wheel.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step		Check	Yes	No
5	CHECK VDCCM&H/U. 1) Turn the ignition switch to OFF. 2) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 6.
	CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	It results from a temporary noise interference.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AH:DTC C1732 LATERAL G SENSOR ABNORMAL

DTC DETECTING CONDITION:

- A fault is detected if the sensor signal value is not correct.
- A fault is detected if the steering angle sensor signal / yaw rate sensor signal change while the lateral G sensor signal indicates a constant value.
- A fault is detected if the communication status of lateral G sensor is abnormal.

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- Hill start assist does not operate.

Step	Check	Yes	No
1 CHECK INSTALLATION OF VDCCM&H/U.	Is VDCCM&H/U installed properly without being tilted? Is the bracket deformation-free? Are the VDCCM&H/U installation bolts installed without missing or getting loose?	Go to step 2.	Repair the defective part. Go to step 2. • Install VDCCM&H/U properly. • Replace the bracket if faulty. • Tighten the VDCCM&H/U installation bolt. <Ref. to VDC-4, VDC CONTROL MODULE & HYDRAULIC CONTROL UNIT (VDCCM&H/U), COMPONENT, General Description.>
2 CHECK OUTPUT OF STEERING ANGLE SENSOR USING SUBARU SELECT MONITOR. 1) Park the vehicle straight on a level surface. 2) Connect Subaru Select Monitor, and select "Current Data Display & Save". 3) Read the «Steering Angle Sensor» displayed on display.	Is the indicated reading of the steering angle sensor on the monitor display -10° — 10° ?	Go to step 3.	Check the installation of steering angle sensor.
3 CHECK OUTPUT OF LATERAL G SENSOR AND LONGITUDINAL G SENSOR WITH SUBARU SELECT MONITOR. 1) Park the vehicle straight on a level surface. 2) Connect Subaru Select Monitor, and select "Current Data Display & Save". 3) Read the «Lateral G Sensor»«Longitudinal G Sensor» displayed on display.	Is the indicated reading of the lateral G sensor and longitudinal G sensor on the monitor display -2 — 2 m/s ² ?	Go to step 4.	Recheck from step 1, and if the problem is not solved, go to next. Go to step 7.
4 SET 0 POINT OF LATERAL G SENSOR AND LONGITUDINAL G SENSOR WITH SUBARU SELECT MONITOR. 1) Select "Work Support" on Subaru Select Monitor. 2) Perform the VDC sensor midpoint setting mode. <Ref. to VDC-16, VDC SENSOR MIDPOINT SETTING MODE, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Is 0 point setting successful?	Go to step 5.	Recheck from step 1, and when the 0 point setting is not possible, replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
5 PERFORM DRIVING TEST. <Ref. to VDC(diag)-22, Inspection Mode.>	Does the ABS warning light or VDC warning light illuminate during driving? Does ABS or VDC operate abnormally?	Recheck from step 1, and when the warning lights illuminate or improperly operate, replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 6.
6 CHECK OUTPUT OF LATERAL G SENSOR AND LONGITUDINAL G SENSOR WITH SUBARU SELECT MONITOR. 1) Park the vehicle on a level surface. 2) Connect Subaru Select Monitor, and select "Current Data Display & Save". 3) Read the «Lateral G Sensor»«Longitudinal G Sensor» displayed on display.	Is the indicated reading of the lateral G sensor and longitudinal G sensor on the monitor display $-1.5 \sim 1.5 \text{ m/s}^2$?	It results from a temporary noise interference.	Recheck from step 1, and if the problem is not solved, replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
7 CHECK OUTPUT OF LATERAL G SENSOR AND LONGITUDINAL G SENSOR WITH SUBARU SELECT MONITOR. 1) Remove the VDCCM&H/U installation bolt and bracket. 2) Keep VDCCM&H/U in a horizontal position. 3) Connect Subaru Select Monitor, and select "Current Data Display & Save". 4) Read the «Lateral G Sensor»«Longitudinal G Sensor» displayed on display.	When the VDCCM&H/U is in a horizontal position, is the indicated reading of the lateral G sensor and longitudinal G sensor on the monitor display $-1.5 \sim 1.5 \text{ m/s}^2$?	Check the bracket and brake pipe, and install VDCCM&H/U in a horizontal position to the vehicle.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

AI: DTC C1733 LONGITUDINAL G SENSOR ABNORMAL

DTC DETECTING CONDITION:

- A fault is detected if the communication status of longitudinal G sensor is abnormal.
- A fault is detected if malfunction judgment is generated by self-diagnosis test of the longitudinal G sensor.
- A fault is detected if the longitudinal G sensor signal is out of normal range.
- A fault is detected if the longitudinal G sensor compensation value is out of normal range.

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- Hill start assist does not operate.

NOTE:

For the diagnostic procedure, refer to "DTC C1732 LATERAL G SENSOR ABNORMAL". <Ref. to VDC(diag)-77, DTC C1732 LATERAL G SENSOR ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AJ:DTC C1741 PRESSURE SENSOR

DTC DETECTING CONDITION:

A fault is detected if two fluid pressure signals in master cylinder are out of normal range.

TROUBLE SYMPTOM:

- VDC does not operate sometimes.
- Hill start assist does not operate sometimes.

Step	Check	Yes	No
1 CHECK STOP LIGHT SWITCH CIRCUIT. Check stop light switch open circuit.	Is the stop light switch circuit OK?	Go to step 2.	Repair the stop light switch circuit. NOTE: If there is malfunction in the stop light circuit, DTC may be recorded in the memory.
2 CHECK OUTPUT OF PRESSURE SENSOR WITH SUBARU SELECT MONITOR. 1) Select "Current Data Display & Save" in Subaru Select Monitor. <Ref. to VDC(diag)-15, READ CURRENT DATA, OPERATION, Subaru Select Monitor.> 2) Read the «Master Cylinder Pressure Sensor» displayed on display.	With the brake pedal released, is the displayed value 0 — 11 bar?	Go to step 3.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
3 CHECK OUTPUT OF PRESSURE SENSOR WITH SUBARU SELECT MONITOR. 1) Select "Current Data Display & Save" in Subaru Select Monitor. <Ref. to VDC(diag)-15, READ CURRENT DATA, OPERATION, Subaru Select Monitor.> 2) Read the «Master Cylinder Pressure Sensor» displayed on display.	When the brake pedal is operated, does the master cylinder pressure sensor output value on the display changes in accordance with the brake pedal operation?	Go to step 4.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
4 CHECK PRESSURE SENSOR. 1) Perform the Clear Memory Mode. <Ref. to VDC(diag)-23, Clear Memory Mode.> 2) Perform the Inspection Mode. <Ref. to VDC(diag)-22, Inspection Mode.> 3) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 5.
5 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-42, List of Diagnostic Trouble Code (DTC).>	It results from a temporary noise interference.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AK:DTC C1811 SYSTEM FAILURE

DTC DETECTING CONDITION:

A fault is detected if VDC control status continues for 15 seconds or more.

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- Hill start assist does not operate.

Step	Check	Yes	No
1 CHECK INSTALLATION OF VDCCM&H/U.	Is VDCCM&H/U installed properly without being tilted? Is the bracket deformation-free? Are the VDCCM&H/U installation bolts installed without missing or getting loose?	Go to step 2.	Repair the defective part. Go to step 2. • Install VDCCM&H/U properly. • Replace the bracket if faulty. • Tighten the VDCCM&H/U installation bolt. <Ref. to VDC-4, VDC CONTROL MODULE & HYDRAULIC CONTROL UNIT (VDCCM&H/U), COMPONENT, General Description.>
2 CHECK STEERING WHEEL. 1) Drive the vehicle on a flat road. 2) Park the vehicle straight. 3) Check the steering wheel for deviation from center.	Is the deviation from the center of steering wheel less than 5°?	Go to step 3.	Perform the centering adjustment of steering wheel, and perform the VDC sensor mid-point setting mode. Go to step 3. <Ref. to VDC-16, VDC SENSOR MID-POINT SETTING MODE, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
3 CHECK OUTPUT OF STEERING ANGLE SENSOR USING SUBARU SELECT MONITOR. 1) Adjust steering wheel to the center position. 2) Connect Subaru Select Monitor, and select "Current Data Display & Save". 3) Read the «Steering Angle Sensor» displayed on display.	Is the indicated reading of the steering angle sensor -10° — 10°?	Go to step 4.	Check the installation of the steering wheel and steering angle sensor, and replace the parts if necessary.
4 CHECK OUTPUT OF SENSORS USING SUBARU SELECT MONITOR. 1) Drive the vehicle on a flat road. 2) Park the vehicle straight. 3) Connect Subaru Select Monitor, and select "Current Data Display & Save". 4) Read output of sensors displayed on display.	Are the indicated reading of sensor outputs following values? Lateral G sensor: -2 — 2 m/s ² Longitudinal G sensor: -2 — 2 m/s ² Yaw rate sensor: -4 — 4 deg/s	Go to step 5.	Recheck from step 1, and if the problem is not solved, go to next. Go to step 8.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
5 SET 0 POINT SETTING OF LONGITUDINAL G SENSOR USING SUBARU SELECT MONITOR. 1) Select "Work Support" on Subaru Select Monitor. 2) Perform the VDC sensor midpoint setting mode. <Ref. to VDC-16, VDC SENSOR MID-POINT SETTING MODE, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Is 0 point setting successful?	Go to step 6.	Recheck from step 1, and when the 0 point setting is not possible, replace the VDCCM&H/U and steering angle sensor. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).> <Ref. to VDC-24, Steering Angle Sensor.>
6 PERFORM DRIVING TEST. <Ref. to VDC(diag)-22, Inspection Mode.>	Does the ABS warning light or VDC warning light illuminate during driving? Does ABS or VDC operate abnormally?	Recheck from step 1, and when the warning lights illuminate or improperly operate, replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 7.
7 CHECK OUTPUT OF SENSORS USING SUBARU SELECT MONITOR. 1) Park the vehicle on a level surface. 2) Connect Subaru Select Monitor, and select "Current Data Display & Save". 3) Read output of sensors displayed on display.	Are the indicated reading of sensor outputs following values? Lateral G sensor: $-2 \sim 2 \text{ m/s}^2$ Longitudinal G sensor: $-2 \sim 2 \text{ m/s}^2$ Yaw rate sensor: $-4 \sim 4 \text{ deg/s}$	It results from a temporary noise interference.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
8 CHECK OUTPUT OF SENSORS USING SUBARU SELECT MONITOR. 1) Remove the VDCCM&H/U installation bolt and bracket. 2) Keep VDCCM&H/U in a horizontal position. 3) Connect Subaru Select Monitor, and select "Current Data Display & Save". 4) Read output of sensors displayed on display.	When VDCCM&H/U is in a horizontal position, are the indicated reading of sensor outputs following values? Lateral G sensor: $-1.5 \sim 1.5 \text{ m/s}^2$ Longitudinal G sensor: $-1.5 \sim 1.5 \text{ m/s}^2$ Yaw rate sensor: $-4 \sim 4 \text{ deg/s}$	Check the bracket and brake pipe, and install VDCCM&H/U in a horizontal position to the vehicle.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AL:DTC U0073 CONTROL MODULE COMMUNICATION BUS OFF

NOTE:

Refer to “LAN SYSTEM (DIAGNOSTICS)” for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

AM:DTC U0100 LOST COMMUNICATION WITH ECM/PCM “A”

NOTE:

Refer to “LAN SYSTEM (DIAGNOSTICS)” for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

AN:DTC U0101 LOST COMMUNICATION WITH TCM

NOTE:

Refer to “LAN SYSTEM (DIAGNOSTICS)” for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

AO:DTC U0126 LOST COMMUNICATION WITH STEERING ANGLE SENSOR MODULE

NOTE:

Refer to “LAN SYSTEM (DIAGNOSTICS)” for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

AP:DTC U0140 LOST COMMUNICATION WITH BODY CONTROL MODULE

NOTE:

Refer to “LAN SYSTEM (DIAGNOSTICS)” for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

AQ:DTC U0401 INVALID DATA RECEIVED FROM ECM/PCM “A”

NOTE:

Refer to “LAN SYSTEM (DIAGNOSTICS)” for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

AR:DTC U0402 INVALID DATA RECEIVED FROM TCM

NOTE:

Refer to “LAN SYSTEM (DIAGNOSTICS)” for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

AS:DTC U0422 INVALID DATA RECEIVED FROM BODY CONTROL MODULE

NOTE:

Refer to “LAN SYSTEM (DIAGNOSTICS)” for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>

AT:DTC U0428 INVALID DATA RECEIVED FROM STEERING ANGLE SENSOR MODULE

NOTE:

Refer to “LAN SYSTEM (DIAGNOSTICS)” for diagnostic procedure. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>