

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

DTC	Detailed code	Display	Content of diagnosis	Reference target
C0072	4721	Yaw rate sensor signal	Yaw Rate Sensor Signal Malfunction	<Ref. to VDC(diag)-75, DTC C0072 YAW RATE SENSOR SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	4722	Inside yaw rate sensor	Yaw Rate Sensor Internal Problem Malfunction	<Ref. to VDC(diag)-76, DTC C0072 YAW RATE SENSOR INTERNAL PROBLEM MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	C723	Yaw rate sensor communication	Yaw Rate Sensor Communication Malfunction	<Ref. to VDC(diag)-77, DTC C0072 YAW RATE SENSOR COMMUNICATION MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	4724	Yaw rate sensor oscillation	Yaw Rate Sensor Oscillation Malfunction	<Ref. to VDC(diag)-74, DTC C0072 YAW RATE SENSOR OSCILLATION MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
C0074	4741	Pressure sensor open line	Pressure Sensor Open Circuit	<Ref. to VDC(diag)-79, DTC C0074 PRESSURE SENSOR OPEN CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	4742	Pressure sensor signal seizure	Pressure Sensor Signal Freeze	<Ref. to VDC(diag)-78, DTC C0074 PRESSURE SENSOR SIGNAL FREEZE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	4743	Pressure sensor 0 point	Pressure Sensor 0 Point	<Ref. to VDC(diag)-81, DTC C0074 PRESSURE SENSOR 0 POINT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	4744	Pressure sensor noise	Pressure Sensor Noise	<Ref. to VDC(diag)-82, DTC C0074 PRESSURE SENSOR NOISE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	4745	Pressure sensor output rise	Pressure Sensor Output Rise	<Ref. to VDC(diag)-78, DTC C0074 PRESSURE SENSOR OUTPUT RISE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

12. Diagnostic Procedure with Diagnostic Trouble Code (DTC)

A: DTC C0021 FRONT RIGHT ABS SENSOR OPEN CIRCUIT

NOTE:

For the diagnostic procedure, refer to DTC C0027 "REAR LEFT ABS SENSOR OPEN CIRCUIT". <Ref. to VDC(diag)-37, DTC C0027 REAR LEFT ABS SENSOR OPEN CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

B: DTC C0023 FRONT LEFT ABS SENSOR OPEN CIRCUIT

NOTE:

For the diagnostic procedure, refer to DTC C0027 "REAR LEFT ABS SENSOR OPEN CIRCUIT". <Ref. to VDC(diag)-37, DTC C0027 REAR LEFT ABS SENSOR OPEN CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

C: DTC C0025 REAR RIGHT ABS SENSOR OPEN CIRCUIT

NOTE:

For the diagnostic procedure, refer to DTC C0027 "REAR LEFT ABS SENSOR OPEN CIRCUIT". <Ref. to VDC(diag)-37, DTC C0027 REAR LEFT ABS SENSOR OPEN CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

D: DTC C0027 REAR LEFT ABS SENSOR OPEN CIRCUIT

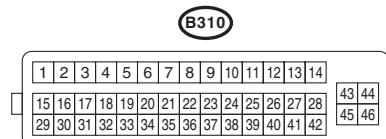
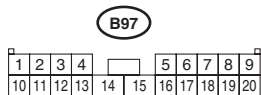
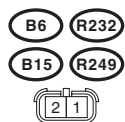
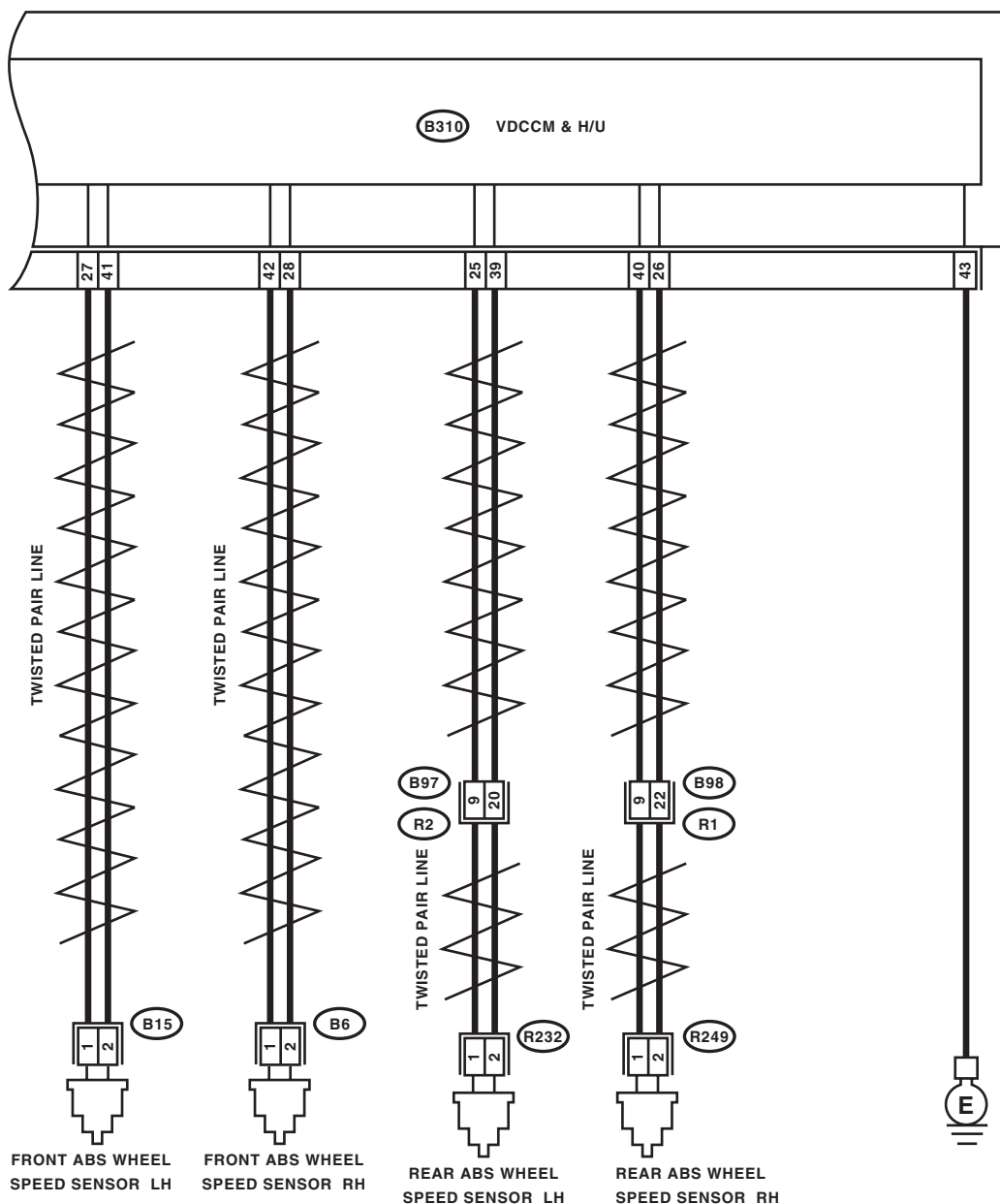
DTC DETECTING CONDITION:

- Faulty ABS wheel speed sensor (harness open line)
- Defective harness connector

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

WIRING DIAGRAM:



VDC00370

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

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.
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 C0021 (B310) No. 42 — (B6) No. 1: (B310) No. 28 — (B6) No. 2: DTC C0023 (B310) No. 27 — (B15) No. 1: (B310) No. 41 — (B15) No. 2: DTC C0025 (B310) No. 40 — (R249) No. 1: (B310) No. 26 — (R249) No. 2: DTC C0027 (B310) No. 25 — (R232) No. 1: (B310) No. 39 — (R232) No. 2:	Is the resistance less than 0.5 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 C0021 (B310) No. 28 — Chassis ground: DTC C0023 (B310) No. 41 — Chassis ground: DTC C0025 (B310) No. 26 — Chassis ground: DTC C0027 (B310) No. 39 — Chassis ground:	Is the resistance more than 1 M Ω ?	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) Turn the ignition switch to ON. 3) Measure the voltage between ABS wheel speed sensor connector and chassis ground. Connector & terminal DTC C0021 (B6) No. 1 (+) — Chassis ground (–): DTC C0023 (B15) No. 1 (+) — Chassis ground (–): DTC C0025 (R249) No. 1 (+) — Chassis ground (–): DTC C0027 (R232) No. 1 (+) — Chassis ground (–):	Is the voltage 8 — 15 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 THE 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. 43 (-):	Is the voltage 10 — 15 V?	Go to step 7.	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-23, ABS WHEEL SPEED SENSOR, 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.
7 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, PROCEDURE, 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.	It results from a temporary noise interference.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

E: DTC C0022 FRONT RIGHT ABS SENSOR NOISE

NOTE:

For the diagnostic procedure, refer to DTC C0028 "REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION". <Ref. to VDC(diag)-41, DTC C0028 REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

F: DTC C0024 FRONT LEFT ABS SENSOR NOISE

NOTE:

For the diagnostic procedure, refer to DTC C0028 "REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION". <Ref. to VDC(diag)-41, DTC C0028 REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

G: DTC C0026 REAR RIGHT ABS SENSOR NOISE

NOTE:

For the diagnostic procedure, refer to DTC C0028 "REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION". <Ref. to VDC(diag)-41, DTC C0028 REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

H: DTC C0028 REAR LEFT ABS SENSOR NOISE

NOTE:

For the diagnostic procedure, refer to DTC C0028 "REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION". <Ref. to VDC(diag)-41, DTC C0028 REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

I: DTC C0022 FRONT ABS WHEEL SPEED SENSOR RH SIGNAL MALFUNCTION

NOTE:

For the diagnostic procedure, refer to DTC C0028 "REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION". <Ref. to VDC(diag)-41, DTC C0028 REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

J: DTC C0024 FRONT ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION

NOTE:

For the diagnostic procedure, refer to DTC C0028 "REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION". <Ref. to VDC(diag)-41, DTC C0028 REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

K: DTC C0026 REAR ABS WHEEL SPEED SENSOR RH SIGNAL MALFUNCTION

NOTE:

For the diagnostic procedure, refer to DTC C0028 "REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION". <Ref. to VDC(diag)-41, DTC C0028 REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

L: DTC C0028 REAR ABS WHEEL SPEED SENSOR LH SIGNAL MALFUNCTION

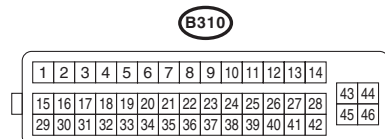
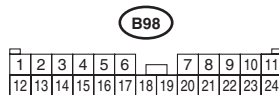
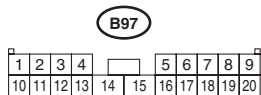
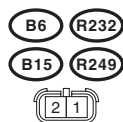
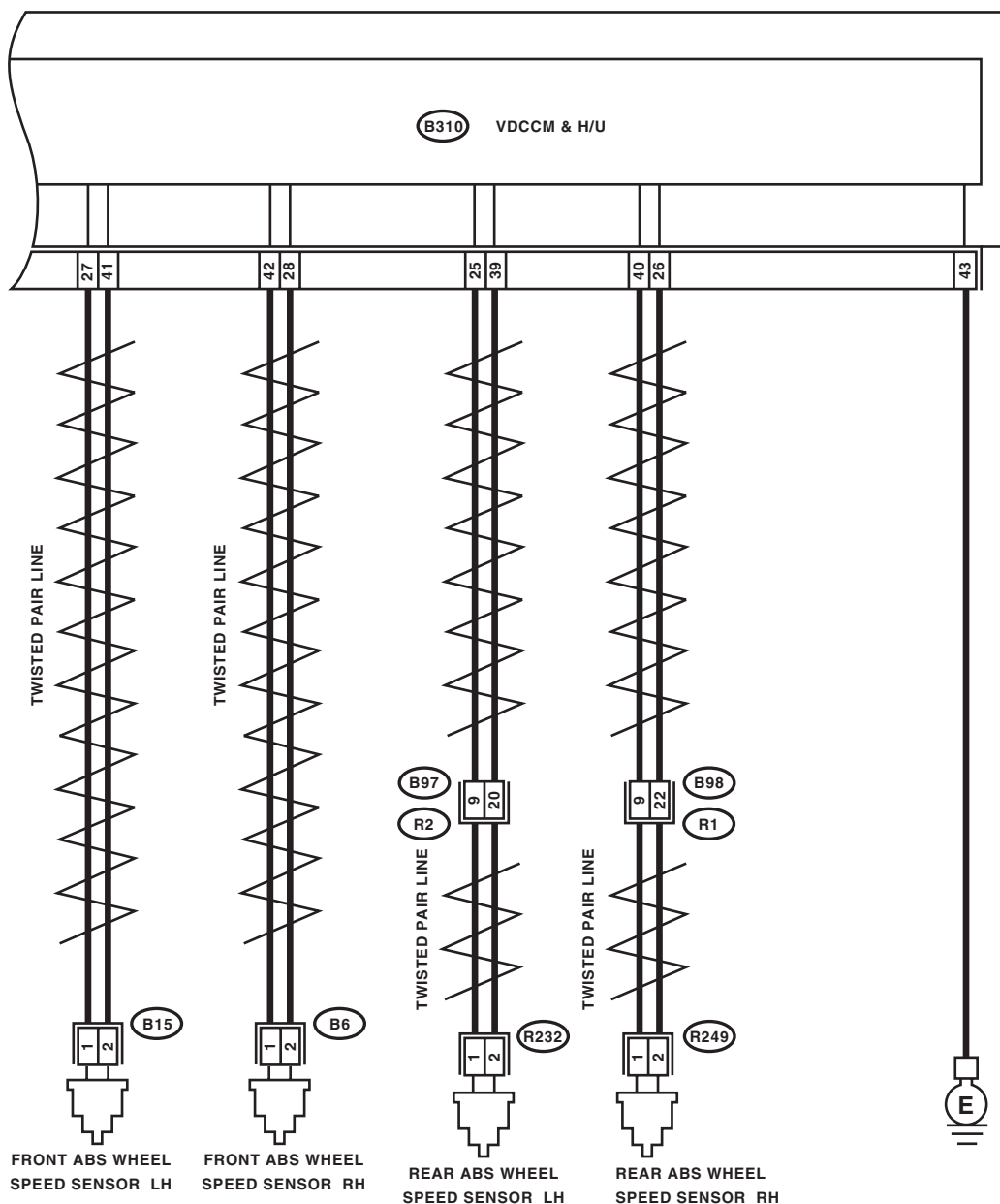
DTC DETECTING CONDITION:

- Defective ABS wheel speed sensor signal (noise, irregular signal, etc.)
- Defective harness connector

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

WIRING DIAGRAM:



VDC00370

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK THE 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. 43 (-):	Is the voltage 10 — 15 V?	Go to step 2.	Check the generator, battery and VDCCM&H/U power supply circuit.
2 CHECK OUTPUT OF ABS WHEEL SPEED SENSOR USING SUBARU SELECT MONITOR. 1) Select {Current Data Display & Save} in Subaru Select Monitor. 2) Read the ABS wheel speed sensor output corresponding to the faulty wheel in Subaru Select Monitor data display mode.	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 3.	Go to step 8.
3 CHECK POOR CONTACT OF CONNECTOR. Turn the ignition switch to OFF.	Is there poor contact in connectors between VDCCM&H/U and ABS wheel speed sensor?	Repair the connector.	Go to step 4.
4 CHECK CAUSE OF SIGNAL NOISE. Make sure the radio wave devices and electric components are installed correctly.	Are the radio wave devices and electric components installed correctly?	Go to step 5.	Install the radio wave devices and electric components properly.
5 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 6.
6 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, PROCEDURE, 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.	It results from a temporary noise interference.
8 CHECK INSTALLATION OF ABS WHEEL SPEED SENSOR.	Is the ABS wheel speed sensor installation bolt tightened 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)?	Go to step 9.	Tighten the ABS wheel speed sensor installation bolts.
9 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-23, ABS WHEEL SPEED SENSOR, 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 more one rotation?	Go to step 11.	Go to step 10.
10 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 11.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
11 CHECK CAUSE OF SIGNAL NOISE. Make sure the radio wave devices and electric components are installed correctly.	Are the radio wave devices and electric components installed correctly?	Go to step 12.	Install the radio wave devices and electric components properly.
12 CHECK CAUSE OF SIGNAL NOISE. Check if the noise sources (such as an antenna) are installed near the sensor harness.	Is the noise sources installed?	Go to step 13.	Install the noise sources apart from sensor harness.
13 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the Inspection Mode. <Ref. to VDC(diag)-22, PROCEDURE, 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 14.
14 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	It results from a temporary noise interference. NOTE: Though the ABS warning light remains on at this time, it is normal. Drive the vehicle at more than 12 km/h (7 MPH) in order to turn ABS warning light off. Be sure to drive the vehicle and check the warning light goes off.

M: DTC C0031 FRONT INLET SOLENOID VALVE RH MALFUNCTION IN VDCCM&H/U

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

N: DTC C0032 FRONT OUTLET SOLENOID VALVE RH MALFUNCTION IN VDCCM&H/U

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

O: DTC C0033 FRONT INLET SOLENOID VALVE LH MALFUNCTION IN VDCCM&H/U

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

P: DTC C0034 FRONT OUTLET SOLENOID VALVE LH MALFUNCTION IN VDCCM&H/U

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Q: DTC C0035 REAR INLET SOLENOID VALVE RH MALFUNCTION IN VDCCM&H/U

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

R: DTC C0036 REAR OUTLET SOLENOID VALVE RH MALFUNCTION IN VDCCM&H/U

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

S: DTC C0037 REAR INLET SOLENOID VALVE LH MALFUNCTION IN VDCCM&H/U

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

T: DTC C0038 REAR OUTLET SOLENOID VALVE LH MALFUNCTION IN VDCCM&H/U

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

U: DTC C0061 VDC SWITCHOVER VALVE (P)

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

V: DTC C0062 VDC SWITCHOVER VALVE (S)

NOTE:

For the diagnostic procedure, refer to DTC C0063 "VDC SWITCHOVER VALVE". <Ref. to VDC(diag)-45, DTC C0063 VDC SWITCHOVER VALVE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

W: DTC C0063 VDC SWITCHOVER VALVE

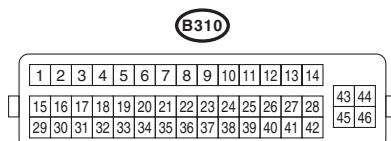
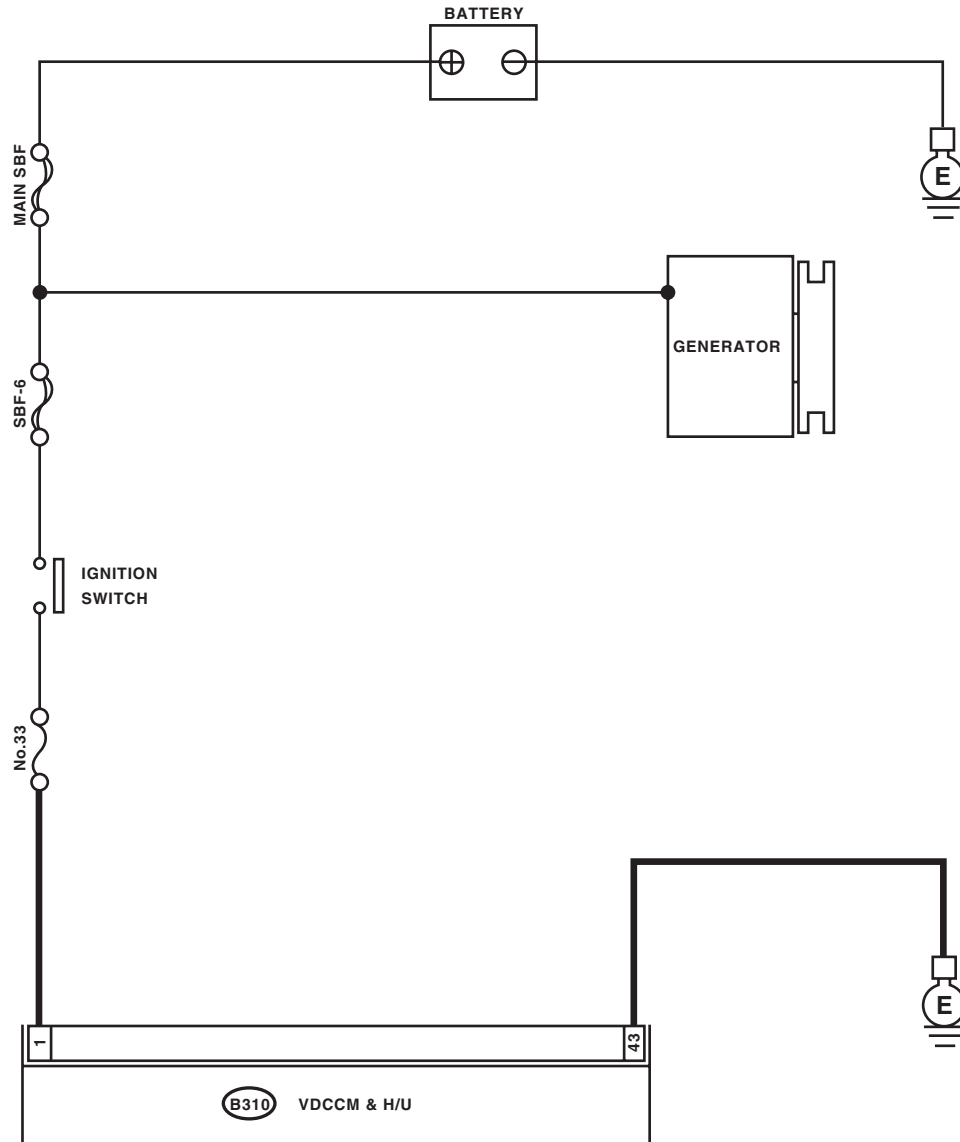
DTC DETECTING CONDITION:

- Defective harness connector
- Defective VDCH/U solenoid valve

TROUBLE SYMPTOM:

- ABS does not operate.
- EBD does not operate.
- VDC does not operate.

WIRING DIAGRAM:



VDC00371

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step		Check	Yes	No
1	CHECK THE 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 (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the power supply circuit.
2	CHECK THE 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. 43 — Chassis ground:	Is the resistance less than 0.5 Ω ?	Go to step 3.	Repair the VDCCM&H/U ground harness.
3	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in connector between generator, battery and VDCCM&H/U?	Repair the connector.	Go to step 4.
4	CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

X: DTC C0042 POWER VOLTAGE MALFUNCTION

DTC DETECTING CONDITION:

CHECK THE VDCCM&H/U power supply voltage.

TROUBLE SYMPTOM:

- ABS does not operate.
- EBD does not operate.
- VDC does not operate.

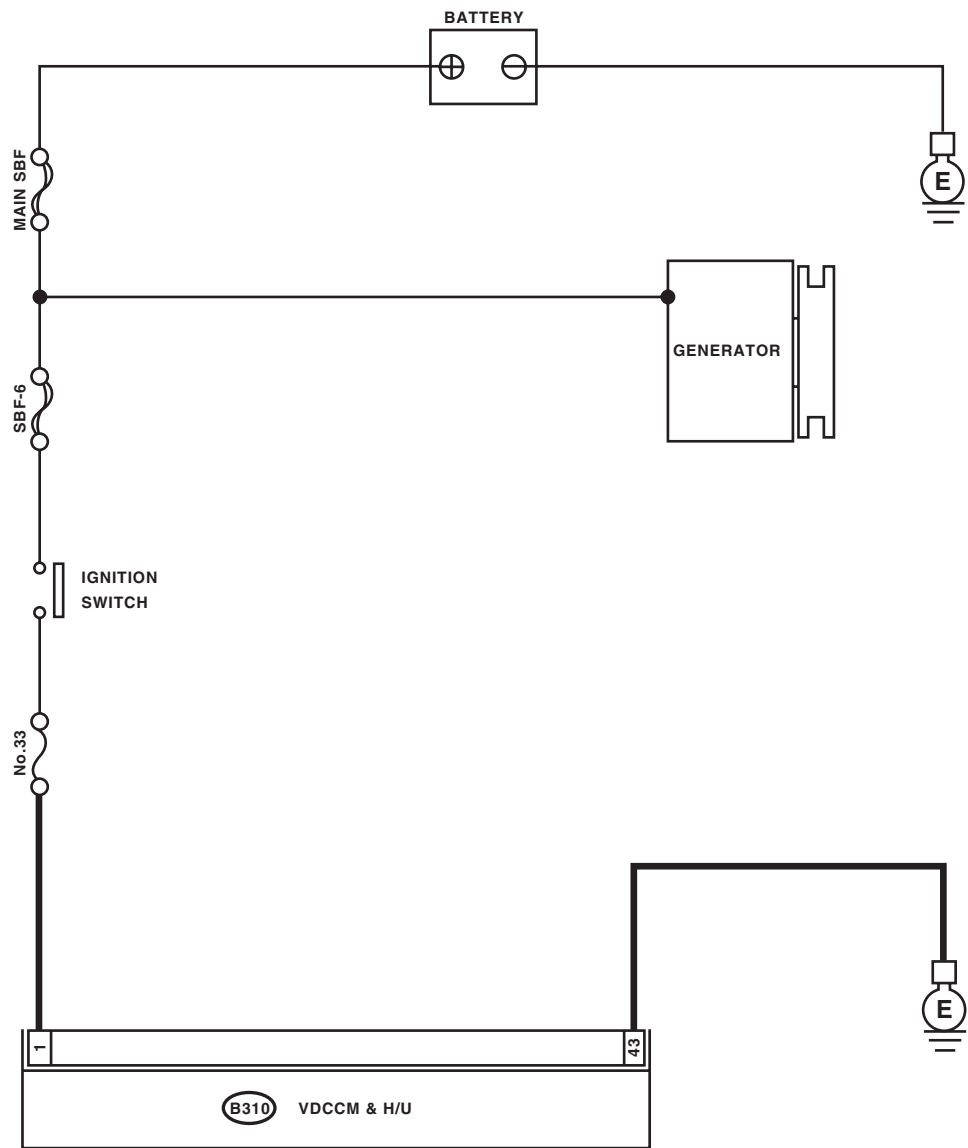
NOTE:

Warning lights go off if voltage returns.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

WIRING DIAGRAM:



B310

1	2	3	4	5	6	7	8	9	10	11	12	13	14	43	44
15	16	17	18	19	20	21	22	23	24	25	26	27	28	45	46
29	30	31	32	33	34	35	36	37	38	39	40	41	42		

VDC00371

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

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 B terminal (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the generator. <Ref. to SC(H6DO)-19, Generator.>
2 CHECK BATTERY TERMINAL. Turn the ignition switch to OFF.	Are the positive and negative battery terminals clamped tightly?	Go to step 3.	Tighten the terminal.
3 CHECK THE VDCCM&H/U INPUT VOLTAGE. 1) Disconnect the connector from the VDCCM&H/U. 2) Run the engine at idle. 3) Operate the devices such as headlights, air conditioner, defogger, etc. which produce much electrical loading. 4) Measure the voltage between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 1 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 4.	Repair the power supply circuit.
4 CHECK THE 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. 43 — Chassis ground:	Is the resistance less than 0.5 Ω ?	Go to step 5.	Repair the VDCCM&H/U ground harness.
5 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in connector between generator, battery and VDCCM&H/U?	Repair the connector.	Go to step 6.
6 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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)-33, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Y: DTC C0047 IMPROPER CAN COMMUNICATION

DTC DETECTING CONDITION:

CAN communication line circuit is open or shorted.

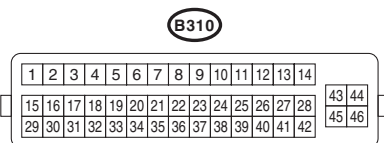
TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

Step	Check	Yes	No
1 CHECK LAN SYSTEM. Perform the diagnosis for LAN system. <Ref. to LAN(diag)-24, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is there any fault in LAN system?	Perform the diagnosis according to DTC for LAN system.	Go to step 2.
2 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in VDCCM&H/U connector?	Repair the connector.	Go to step 3.
3 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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).>	Temporary poor contact occurs.

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

WIRING DIAGRAM:



VDC(diag)-51

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step		Check	Yes	No
1	CHECK THE 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. 44 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the harness connector between battery and VDCCM&H/U.
2	CHECK THE 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. 43 — Chassis ground:	Is the resistance less than 0.5 Ω ?	Go to step 3.	Repair the VDCCM&H/U ground harness.
3	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in connector between generator, battery and VDCCM&H/U?	Repair the connector.	Go to step 4.
4	CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AA:DTC C0051 VALVE RELAY SHORT CIRCUIT

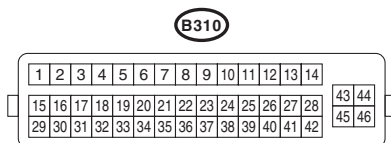
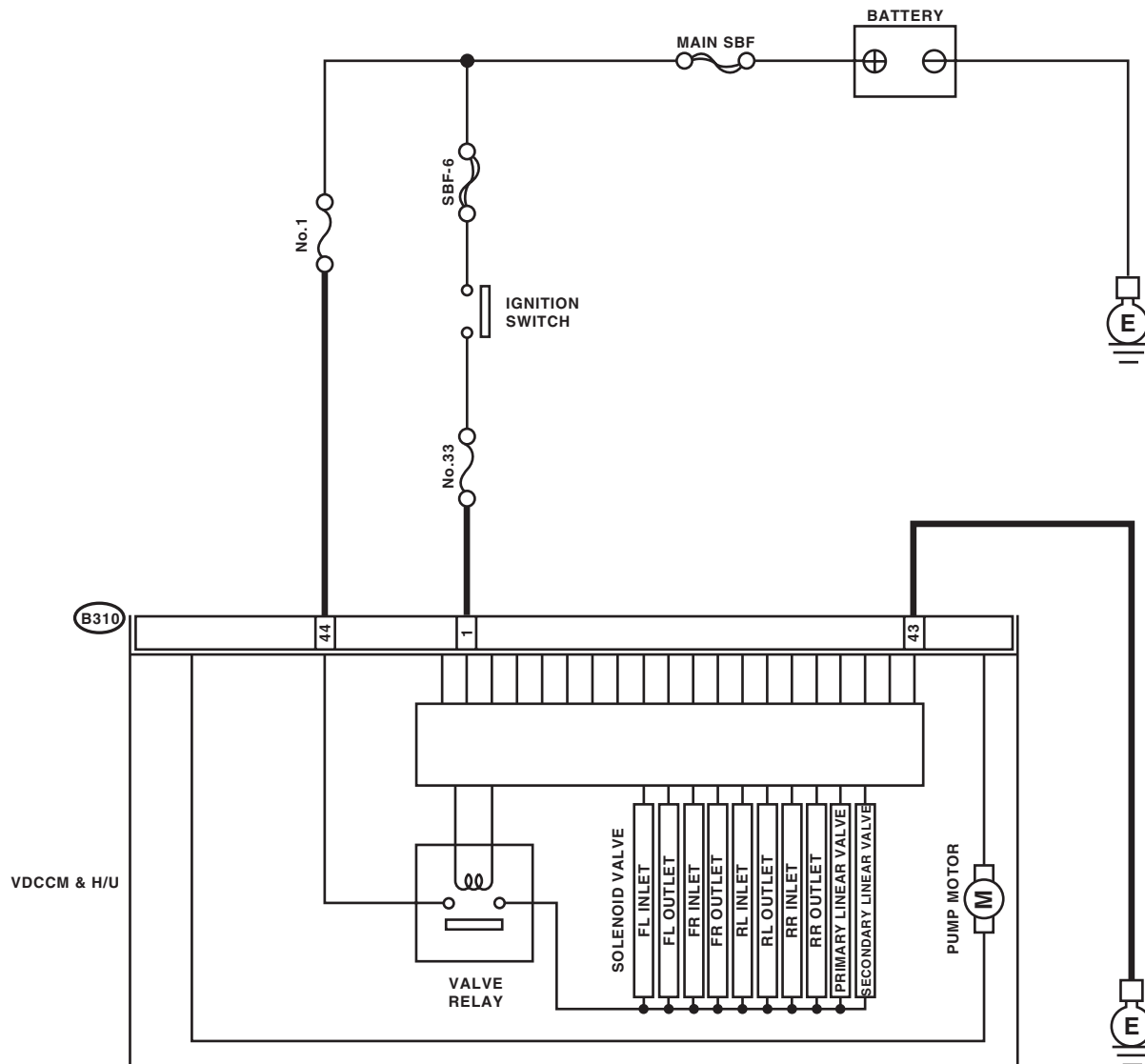
DTC DETECTING CONDITION:

Defective valve relay

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- EBD does not operate.

WIRING DIAGRAM:



VDC00372

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK THE VDCCM&H/U VALVE RELAY. 1) Disconnect the connector from the VDCCM&H/U. 2) Measure the resistance between VDCCM&H/U connector terminals. Terminals No. 44 — No. 43:	Is the resistance more than 1 MΩ?	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 POOR CONTACT OF CONNECTORS.	Is there poor contact in connector between generator, battery and VDCCM&H/U?	Repair the connector.	Go to step 3.
3 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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 4.
4 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC. <Ref. to VDC(diag)-33, List of Diagnostic Trouble Code (DTC).>	Temporary poor contact occurs.

AB:DTC C0052 MOTOR AND MOTOR RELAY OPEN CIRCUIT

NOTE:

For the diagnostic procedure, refer to DTC C0052 "MOTOR MALFUNCTION". <Ref. to VDC(diag)-55, DTC C0052 MOTOR MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AC:DTC C0052 MOTOR MALFUNCTION

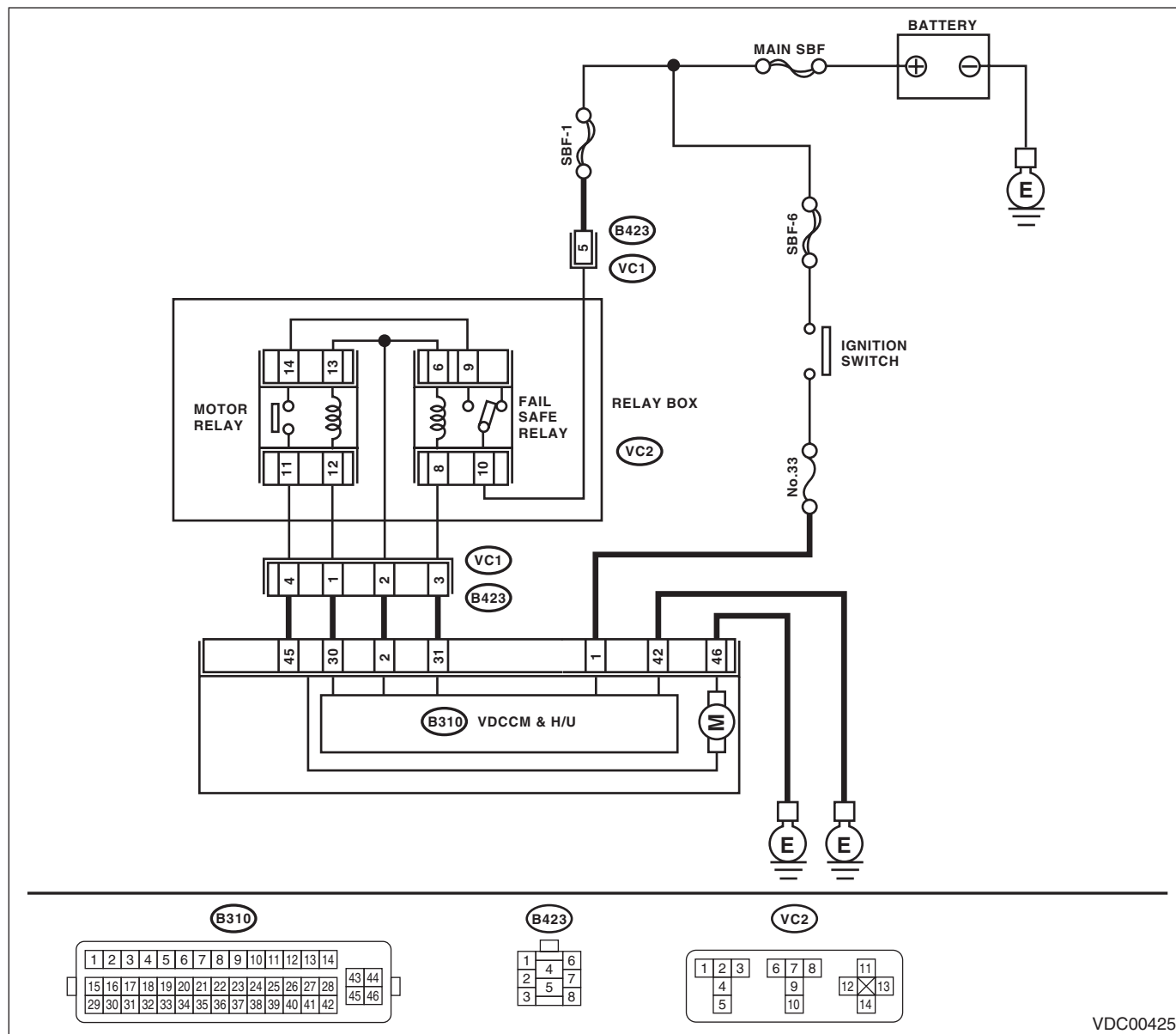
DTC DETECTING CONDITION:

- Defective motor and motor relay
- Defective harness connector

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- EBD does not operate.

WIRING DIAGRAM:



VDC00425

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK MOTOR RELAY RESISTANCE. 1) Turn the ignition switch to OFF. 2) Remove the motor relay from the relay box. 3) Measure the resistance between motor relay terminals. Terminals No. 12 — No. 13:	Is the resistance between 70 — 100 Ω ?	Go to step 2.	Replace the motor relay.
2	CHECK MOTOR RELAY CONTACT POINT. 1) Connect the battery to motor relay terminals No. 13 (+) and No. 12(–). 2) Measure the resistance between motor relay terminals. Terminals No. 11 — No. 14:	Is the resistance less than 0.5 Ω ?	Go to step 3.	Replace the motor relay.
3	CHECK MOTOR RELAY SHORT. Measure the resistance between motor relay terminals. Terminals No. 12 — No. 11: No. 12 — No. 14:	Is the resistance more than 1 M Ω ?	Go to step 4.	Replace the motor relay.
4	CHECK FAIL SAFE RELAY RESISTANCE. 1) Turn the ignition switch to OFF. 2) Remove the fail safe relay from the relay box. 3) Measure the resistance between fail safe relay terminals. Terminals No. 6 — No. 8:	Is the resistance between 80 — 130 Ω ?	Go to step 5.	Replace the fail safe relay.
5	CHECK THE FAIL SAFE RELAY CONTACT POINT. 1) Connect the battery to motor relay terminals No. 6 (+) and No. 8(–). 2) Measure the resistance between motor relay terminals. Terminals No. 9 — No. 10:	Is the resistance less than 0.5 Ω ?	Go to step 6.	Replace the fail safe relay.
6	CHECK FAIL SAFE RELAY SHORT. Measure the resistance between motor relay terminals. Terminals No. 6 — No. 9: No. 6 — No. 10:	Is the resistance more than 1 M Ω ?	Go to step 7.	Replace the fail safe relay.
7	CHECK MOTOR RELAY POWER SUPPLY VOLTAGE. 1) Disconnect the connectors (B423) and (VC1). 2) Turn the ignition switch to ON. 3) Measure the voltage between connector (B423) and chassis ground. Connector & terminal (B423) No. 5 (+) — Chassis ground (–):	Is the voltage 10 — 15 V?	Go to step 8.	Repair the power supply circuit.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
8 CHECK RELAY BOX. Measure the resistance between each terminal. Terminals (VC1) No. 5 — (VC2) No. 10: (VC1) No. 2 — (VC2) No. 6: (VC1) No. 2 — (VC2) No. 13: (VC1) No. 3 — (VC2) No. 8: (VC1) No. 1 — (VC2) No. 12: (VC1) No. 4 — (VC2) No. 11: (VC2) No. 9 — (VC2) No. 14:	Is the resistance less than 0.5 Ω ?	Go to step 9.	Replace the relay box.
9 CHECK HARNESS. 1) Disconnect the connector from the VDCCM&H/U. 2) Measure the resistance between VDCCM&H/U and relay box. Connector & terminal (B423) No. 3 — (B310) No. 31: (B423) No. 2 — (B310) No. 2: (B423) No. 1 — (B310) No. 30: (B423) No. 4 — (B310) No. 45:	Is the resistance less than 0.5 Ω ?	Go to step 10.	Repair the harness.
10 CHECK GROUND SHORT CIRCUIT OF HARNESS. Measure the resistance between harness and chassis ground. Connector & terminal (B423) No. 3 — Chassis ground: (B423) No. 2 — Chassis ground: (B423) No. 1 — Chassis ground: (B423) No. 4 — Chassis ground:	Is the resistance more than 1 M Ω ?	Go to step 11.	Repair the harness.
11 CHECK GROUND CIRCUIT FOR MOTOR. Measure the resistance between VDCCM&H/U and chassis ground. Connector & terminal (B310) No. 46 — Chassis ground:	Is the resistance less than 0.5 Ω ?	Go to step 12.	Repair the harness.
12 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in connector?	Repair the connector.	Go to step 13.
13 CHECK THE VDCCM&H/U. 1) Connect all the connectors and relays. 2) Erase the memory. 3) Perform the 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 14.
14 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

AD:DTC C0052 MOTOR AND MOTOR RELAY SHORT CIRCUIT

NOTE:

For the diagnostic procedure, refer to DTC C0052 "MOTOR FAIL SAFE RELAY SHORT CIRCUIT". <Ref. to VDC(diag)-58, DTC C0052 MOTOR FAIL SAFE RELAY SHORT CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AE:DTC C0052 MOTOR FAIL SAFE RELAY SHORT CIRCUIT

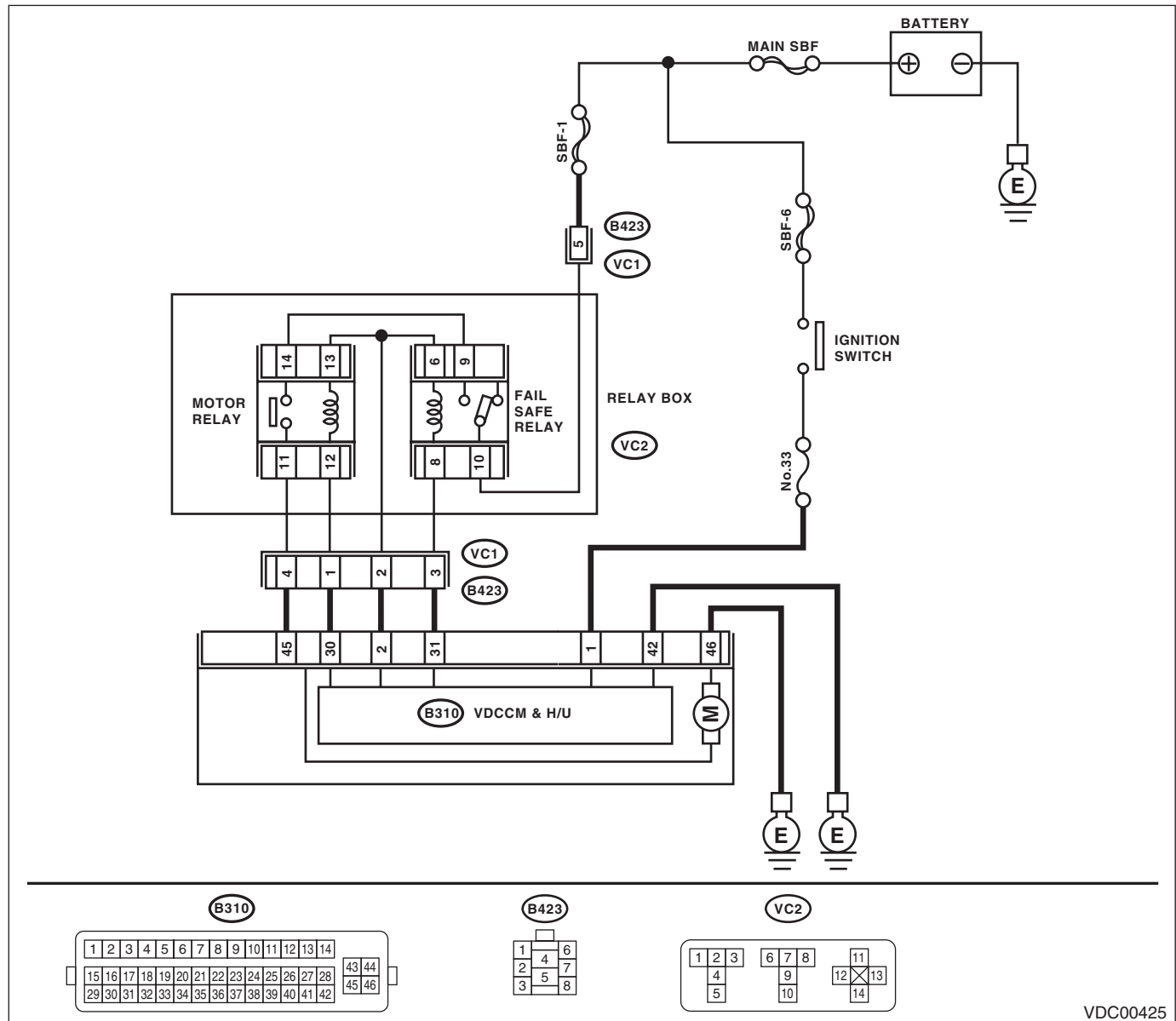
DTC DETECTING CONDITION:

- Defective motor relay
- Fail safe relay malfunction
- Defective harness connector

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- EBD does not operate.

WIRING DIAGRAM:



VDC00425

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK MOTOR RELAY RESISTANCE. 1) Turn the ignition switch to OFF. 2) Remove the motor relay from the relay box. 3) Measure the resistance between motor relay terminals. Terminals No. 12 — No. 13:	Is the resistance between 70 — 100 Ω ?	Go to step 2.	Replace the motor relay.
2 CHECK MOTOR RELAY CONTACT POINT. 1) Connect the battery to motor relay terminals No. 13 (+) and No. 12(–). 2) Measure the resistance between motor relay terminals. Terminals No. 11 — No. 14:	Is the resistance less than 0.5 Ω ?	Go to step 3.	Replace the motor relay.
3 CHECK MOTOR RELAY SHORT. Measure the resistance between motor relay terminals. Terminals No. 12 — No. 11: No. 12 — No. 14:	Is the resistance more than 1 M Ω ?	Go to step 4.	Replace the motor relay.
4 CHECK FAIL SAFE RELAY RESISTANCE. 1) Turn the ignition switch to OFF. 2) Remove the fail safe relay from the relay box. 3) Measure the resistance between fail safe relay terminals. Terminals No. 6 — No. 8:	Is the resistance between 80 — 130 Ω ?	Go to step 5.	Replace the fail safe relay.
5 CHECK THE FAIL SAFE RELAY CONTACT POINT. 1) Connect the battery to motor relay terminals No. 6 (+) and No. 8(–). 2) Measure the resistance between motor relay terminals. Terminals No. 9 — No. 10:	Is the resistance less than 0.5 Ω ?	Go to step 6.	Replace the fail safe relay.
6 CHECK FAIL SAFE RELAY SHORT. Measure the resistance between motor relay terminals. Terminals No. 6 — No. 9: No. 6 — No. 10: No. 9 — No. 10:	Is the resistance more than 1 M Ω ?	Go to step 7.	Replace the fail safe relay.
7 CHECK RELAY BOX. 1) Disconnect the connectors (B423) and (VC1). 2) Turn the ignition switch to ON. 3) Measure the voltage between connector (VC2) and chassis ground. Connector & terminal (VC2) No. 11 (+) — Chassis ground (–): (VC2) No. 12 (+) — Chassis ground (–):	Is the voltage 10 — 15 V?	Replace the relay box.	Go to step 8.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
8 CHECK HARNESS. 1) Disconnect the connector from the VDCCM&H/U. 2) Measure the voltage between connector (B423) and chassis ground. Connector & terminal (B423) No. 4 (+) — Chassis ground (-): (B423) No. 1 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Repair the harness.	Go to step 9.
9 CHECK THE MOTOR. 1) Connect all the connectors and relays. 2) Turn the ignition switch to ON.	Is the motor continuing to rotate?	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>	Go to step 10.
10 CHECK THE VDCCM&H/U. 1) Connect all the connectors and relays. 2) Erase the memory. 3) Perform the 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 11.
11 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AF:DTC C0052 MOTOR DO NOT WORK

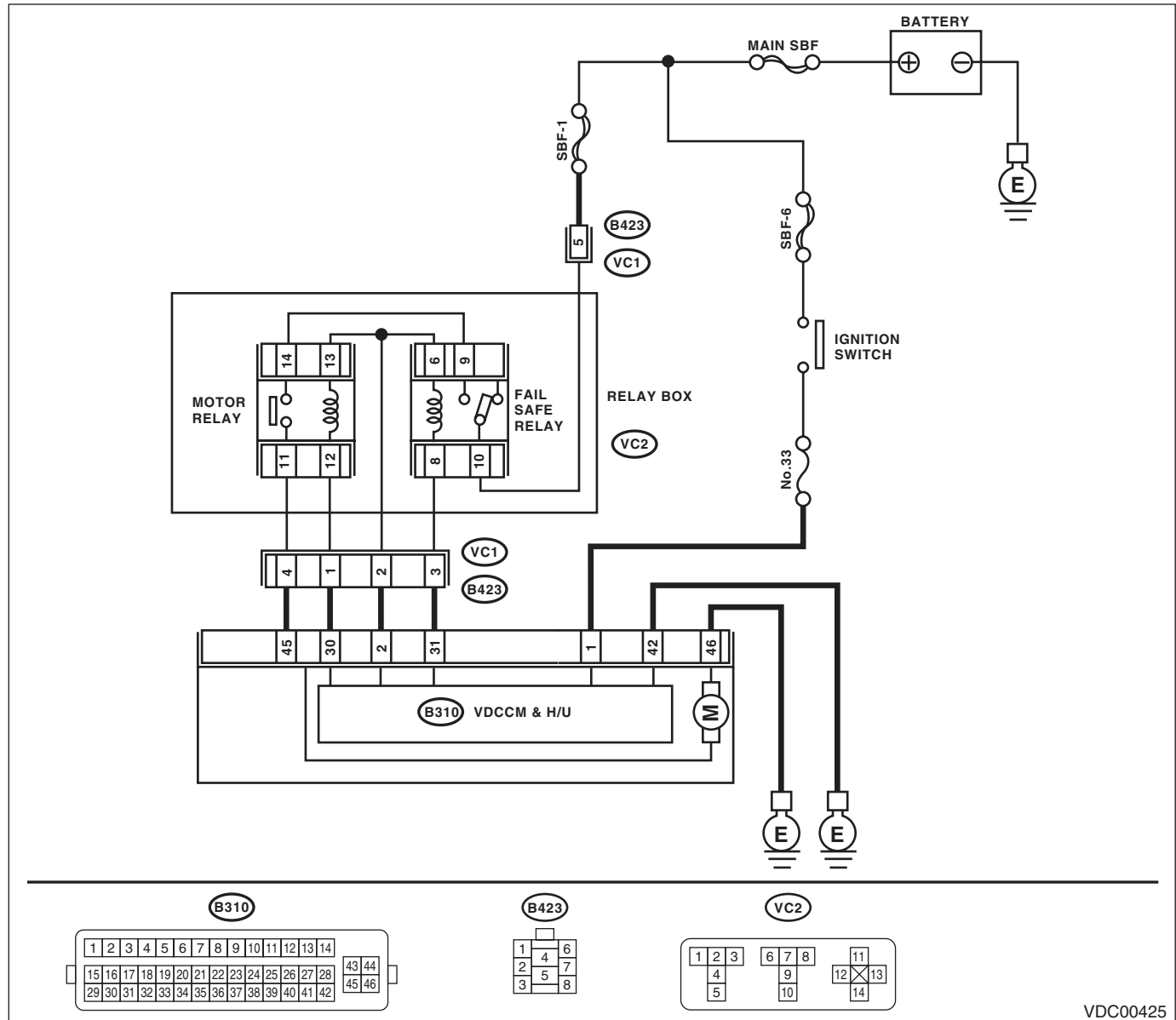
DTC DETECTING CONDITION:

- Defective motor
- Defective harness connector

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.
- EBD does not operate.

WIRING DIAGRAM:



VDC00425

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step		Check	Yes	No
1	CHECK THE 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. 1 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the VDCCM&H/U power supply circuit.
2	CHECK INSTALLATION OF MOTOR GROUND.	Is the motor ground terminal installation bolt tightened 33 N·m (3.3 kgf-m, 24.3 ft-lb)?	Go to step 3.	Tighten the motor ground terminal installation bolt.
3	CHECK THE 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. 46 (+) — Chassis ground (-):	Is the resistance less than 0.5 Ω ?	Go to step 4.	Repair the VDCCM&H/U ground harness.
4	CHECK THE VDCCM&H/U. 1) Connect all the connectors and relays. 2) Erase the memory. 3) Perform the 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.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AG:DTC C0054 BRAKE LAMP SWITCH OPEN CIRCUIT

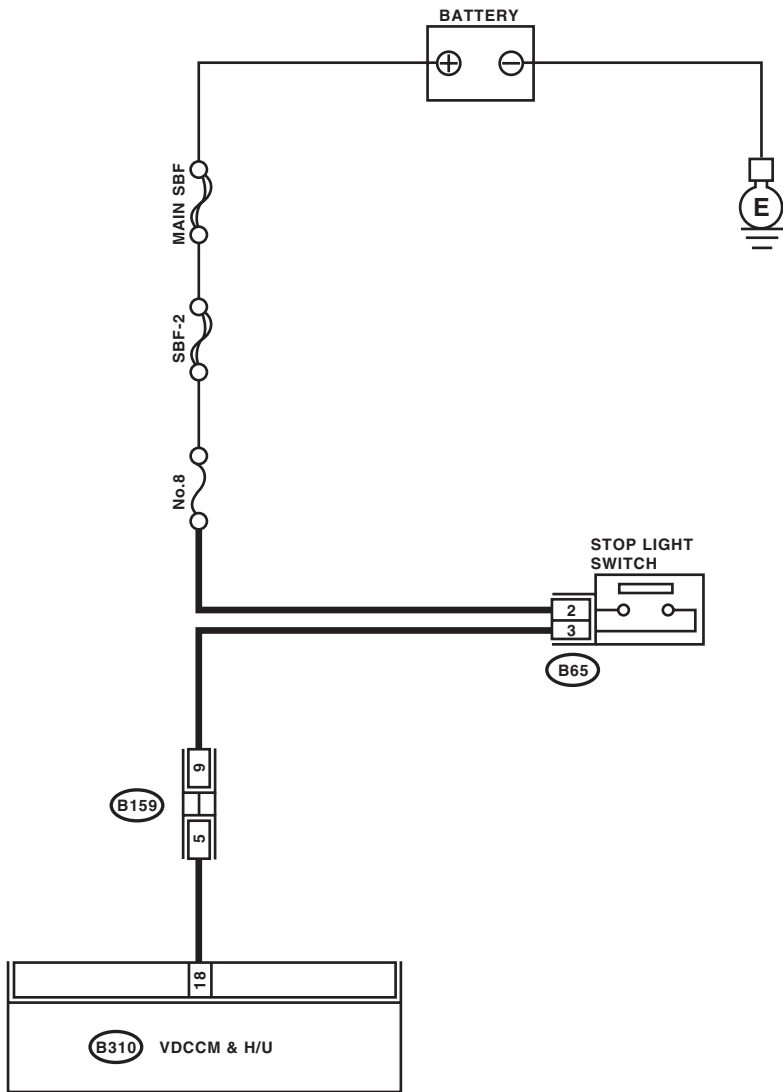
DTC DETECTING CONDITION:

Defective stop light switch

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

WIRING DIAGRAM:



B65

1	2
3	4

B159

1	2	3	4
5	6	7	8

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
43	44	45	46										

VDC00374

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK OUTPUT OF STOP LIGHT SWITCH WITH SUBARU SELECT MONITOR. 1) Select {Current Data Display & Save} in Subaru Select Monitor. 2) Release the brake pedal. 3) Read the stop light switch output in Subaru Select Monitor.	Is OFF displayed on the display screen?	Go to step 2.	Go to step 3.
2 CHECK OUTPUT OF STOP LIGHT SWITCH WITH SUBARU SELECT MONITOR. 1) Depress the brake pedal. 2) Read the stop light switch output in Subaru Select Monitor.	Is ON displayed on the display screen?	Go to step 5.	Go to step 3.
3 CHECK IF STOP LIGHTS COME ON. Depress the brake pedal.	Does the stop light illuminate?	Go to step 4.	Repair the stop light circuit.
4 CHECK OPEN CIRCUIT OF HARNESS. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the VDCCM&H/U. 3) Depress the brake pedal. 4) Measure the voltage between VDCCM&H/U connector and chassis ground. Connector & terminal (B310) No. 18 (+) — Chassis ground (–):	Is the voltage 10 — 15 V?	Go to step 5.	Repair the harness between stop light switch and VDCCM&H/U connector.
5 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in connector between stop light switch and VDCCM&H/U?	Go to step 6.	Repair the connector.
6 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AH:DTC C0056 G SENSOR OUTPUT FREEZE

DTC DETECTING CONDITION:

Defective G sensor

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

Step	Check	Yes	No
1 CHECK G SENSOR OUTPUT. 1) Connect the Subaru Select Monitor to the vehicle. 2) Select {Current Data Display & Save} in Subaru Select Monitor. 3) Read the G sensor output when braking.	Do the values on the monitor display change?	Go to step 2.	Replace the yaw rate & lateral G sensor.
2 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the Inspection Mode. 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U.	Go to step 3.
3 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

AI: DTC C0056 G SENSOR SIGNAL MALFUNCTION

DTC DETECTING CONDITION:

Defective G sensor

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

Step	Check	Yes	No
1 CHECK YAW RATE & LATERAL G SENSOR INSTALLATION. Check the yaw rate & lateral G sensor installation.	Are the yaw rate & lateral G sensor and bracket tightened to a torque of 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)?	Go to step 2.	Tighten the yaw rate & lateral G sensor.
2 CHECK G SENSOR OUTPUT. 1) Connect the Subaru Select Monitor to the vehicle. 2) Select {Current Data Display & Save} in Subaru Select Monitor. 3) Read the G sensor output displayed on screen.	Is the value on the monitor display $-1.5 \sim 1.5 \text{ m/s}^2$?	Go to step 3.	Replace the yaw rate & lateral G sensor.
3 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the Inspection Mode. 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U.	Go to step 4.
4 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AJ:DTC C0056 YAW RATE G SENSOR POWER SUPPLY VOLTAGE MALFUNCTION

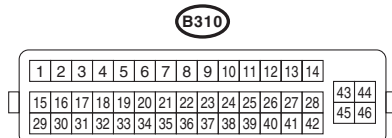
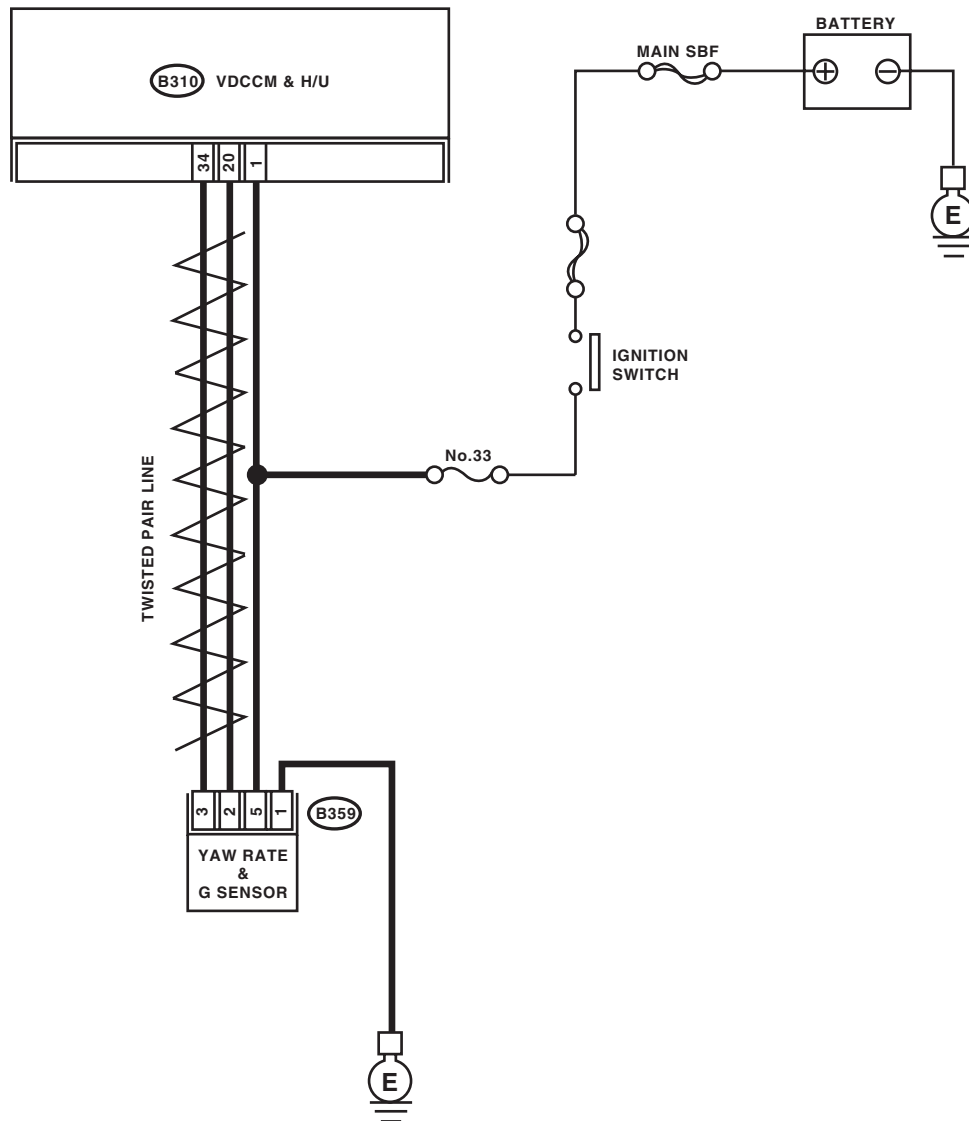
DTC DETECTING CONDITION:

Defective G sensor

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

WIRING DIAGRAM:



VDC00375

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK THE YAW RATE & LATERAL G SENSOR POWER SUPPLY. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the yaw rate & lateral G sensor. 3) Turn the ignition switch to ON. 4) Measure the voltage between yaw rate & lateral G sensor and chassis ground. Connector & terminal (B359) No. 5 (+) — Chassis ground (–):	Is the voltage 10 — 15 V?	Go to step 2.	Replace the yaw rate & lateral G sensor power supply circuit.
2 CHECK GROUND CIRCUIT OF YAW RATE & LATERAL G SENSOR. 1) Turn the ignition switch to OFF. 2) Measure the resistance between the yaw rate & lateral G sensor connector and chassis ground. Connector & terminal (B359) No. 1 (+) — Chassis ground (–):	Is the resistance less than 0.5 Ω ?	Go to step 3.	Replace the yaw rate & lateral G sensor power supply circuit.
3 CHECK YAW RATE & LATERAL G SENSOR. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the Inspection Mode. 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U.	Go to step 4.
4 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

AK:DTC C0056 G SENSOR OUTPUT MALFUNCTION

DTC DETECTING CONDITION:

Defective G sensor

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

Step	Check	Yes	No
1 CHECK YAW RATE & LATERAL G SENSOR INSTALLATION. Check the yaw rate & lateral G sensor installation.	Are the yaw rate & lateral G sensor and bracket tightened to a torque of 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)?	Go to step 2.	Tighten the yaw rate & lateral G sensor.
2 CHECK G SENSOR OUTPUT. 1) Connect the Subaru Select Monitor to the vehicle. 2) Select {Current Data Display & Save} in Subaru Select Monitor. 3) Drive at a constant speed of approximately 40 km/h (25 MPH) and read the G sensor output at that time.	Is the indicated reading on the monitor display $-1.5 — 1.5 \text{ m/s}^2$?	Go to step 3.	Replace the yaw rate & lateral G sensor.
3 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the Inspection Mode. 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U.	Go to step 4.
4 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AL:DTC C0057 ECM COMMUNICATION

DTC DETECTING CONDITION:

No CAN signal from ECM.

TROUBLE SYMPTOM:

VDC does not operate.

Step	Check	Yes	No	
1	CHECK LAN SYSTEM. Perform the diagnosis for LAN system. <Ref. to LAN(diag)-24, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is there any fault in LAN system?	Perform the diagnosis according to DTC for LAN system.	Go to step 2.
2	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in ECM connector?	Repair the connector.	Go to step 3.
3	CHECK ECM.	Is ECM normal?	Go to step 4.	Replace the ECM.
4	CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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.	Temporary poor contact occurs.

AM:DTC C0057 AT COMMUNICATION

DTC DETECTING CONDITION:

No CAN signal from TCM.

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

Step	Check	Yes	No	
1	CHECK LAN SYSTEM. Perform the diagnosis for LAN system. <Ref. to LAN(diag)-24, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is there any fault in LAN system?	Perform the diagnosis according to DTC for LAN system.	Go to step 2.
2	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in TCM connector?	Repair the connector.	Go to step 3.
3	CHECK TCM.	Is the TCM normal?	Go to step 4.	Replace the TCM. <Ref. to 5AT-58, Transmission Control Module (TCM).>
4	CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the Inspection Mode. 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U.	Go to step 5.
5	CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AN:DTC C0057 TRANSMISSION SYSTEM FAILURE

DTC DETECTING CONDITION:

Transmission System Defect

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

Step	Check	Yes	No
1 CHECK AT SYSTEM. 1) Start the engine. 2) Check the DTC in AT system.	Is DTC of AT system displayed?	Repair the AT system.	Go to step 2.
2 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the Inspection Mode. 4) Read the DTC.	Is the same DTC displayed?	Replace the VDCCM&H/U.	Go to step 3.
3 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AO:DTC C0071 STEERING ANGLE SENSOR INTERNAL PROBLEM MALFUNCTION

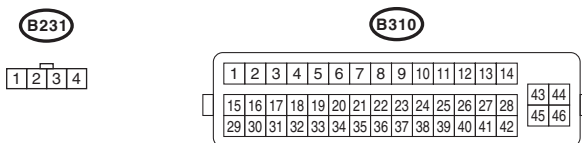
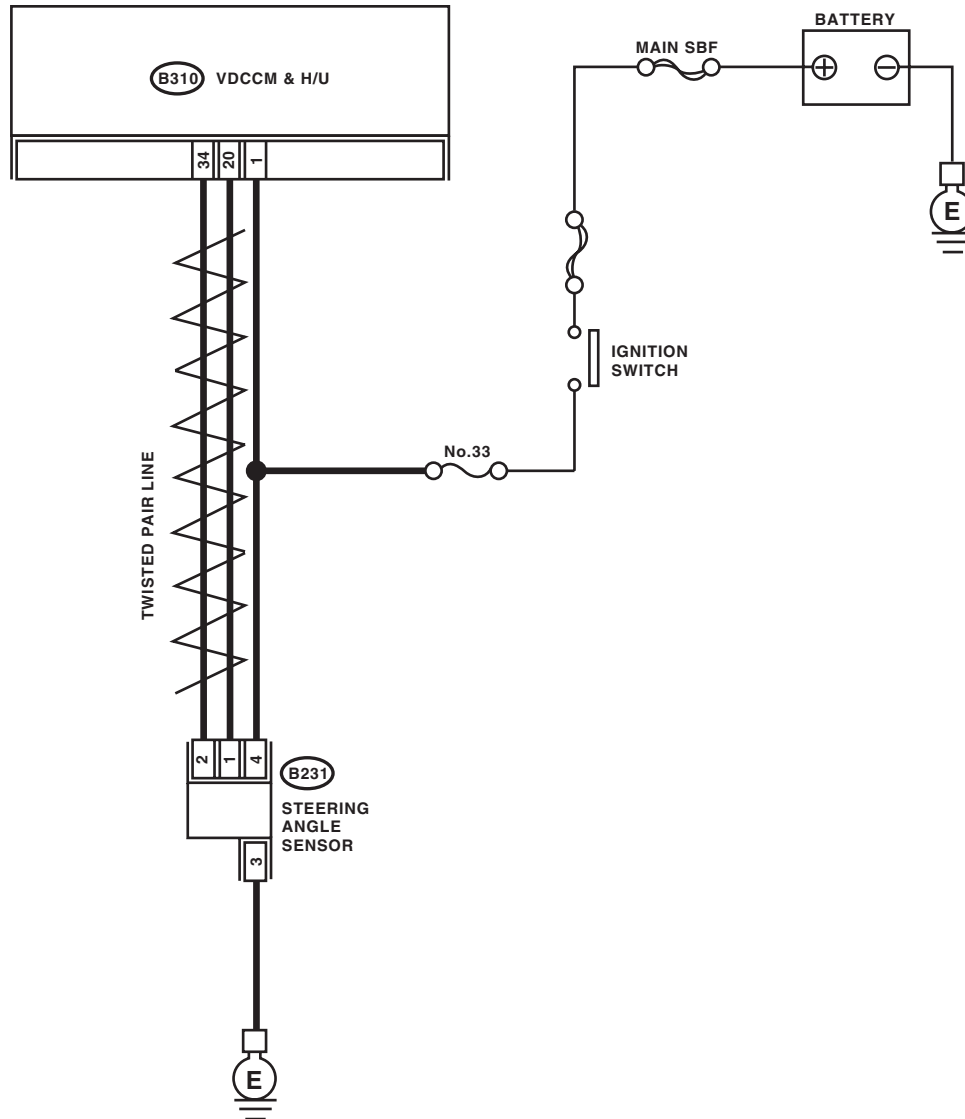
DTC DETECTING CONDITION:

Defective steering angle sensor

TROUBLE SYMPTOM:

VDC does not operate.

WIRING DIAGRAM:



VDC00376

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK THE POWER SUPPLY OF THE 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 power supply circuit in the steering angle sensor.
2 CHECK GROUND CIRCUIT OF STEERING ANGLE SENSOR. Measure the voltage between steering angle sensor and chassis ground. Connector & terminal (B231) No. 3 (+) — Chassis ground (–):	Is the resistance less than 0.5 Ω ?	Go to step 3.	Repair ground circuit in the steering angle sensor.
3 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in connector?	Correct or replace the connector.	Go to step 4.
4 CHECK STEERING ANGLE SENSOR. 1) Turn the ignition switch to OFF. 2) Connect all the connectors. 3) Erase the memory. 4) Perform the Inspection Mode. 5) Read the DTC.	Is the same DTC displayed?	Replace the steering angle sensor.	Go to step 5.
5 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AP:DTC C0071 STEERING ANGLE SENSOR COMMUNICATION MALFUNCTION

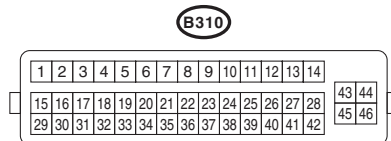
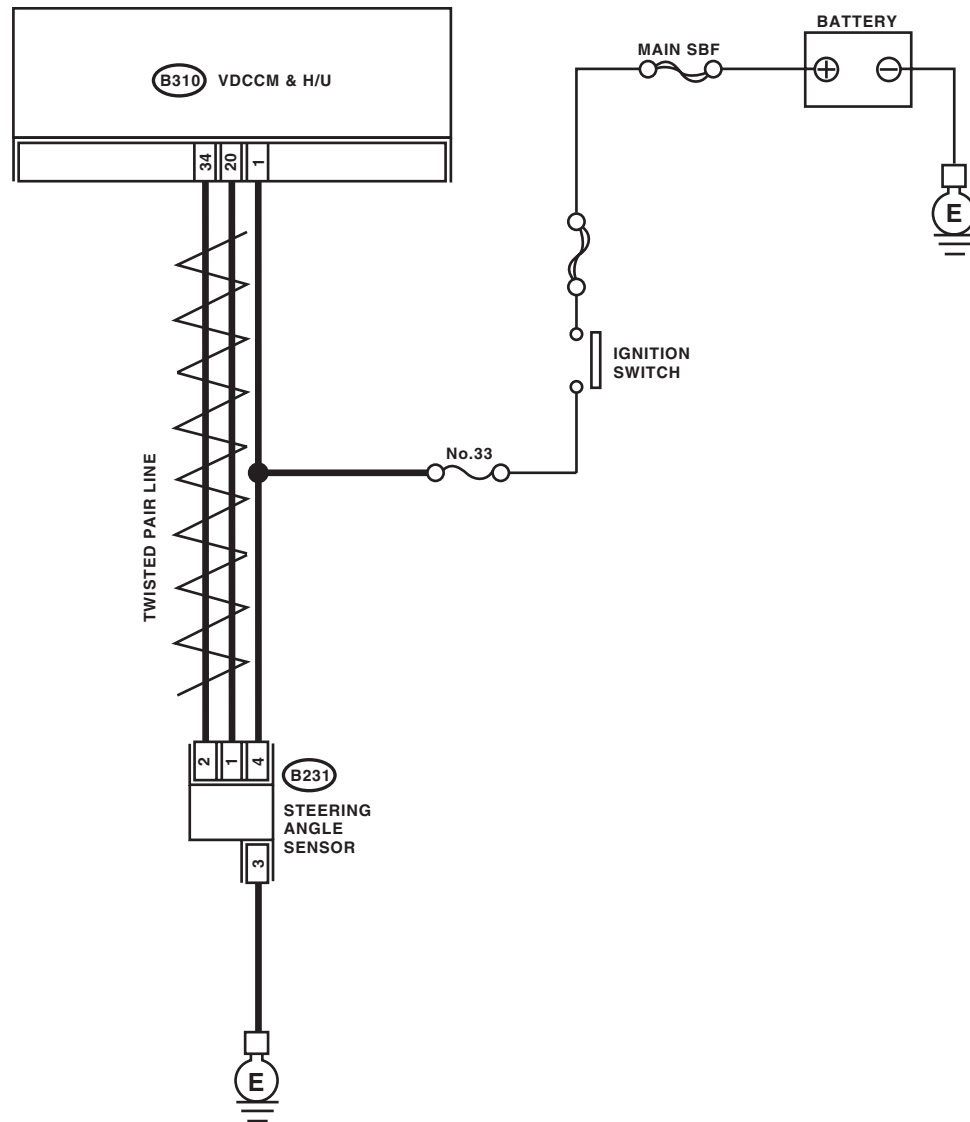
DTC DETECTING CONDITION:

Signal does not come from steering angle sensor.

TROUBLE SYMPTOM:

VDC does not operate.

WIRING DIAGRAM:



VDC00376

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK LAN SYSTEM. Perform the diagnosis for LAN system. <Ref. to LAN(diag)-24, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is there any fault in LAN system?	Perform the diagnosis according to DTC for LAN system.	Go to step 2.
2 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 3.	Repair the power supply circuit.
3 CHECK GROUND CIRCUIT OF STEERING ANGLE SENSOR. Measure the resistance between steering angle sensor and chassis ground. Connector & terminal (B231) No. 3 — Chassis ground:	Is the resistance less than 0.5 Ω ?	Go to step 4.	Repair ground circuit in the steering angle sensor.
4 CHECK STEERING ANGLE SENSOR HARNESS. 1) Disconnect the connector from the VDCCM&H/U. 2) Measure the resistance between VDCCM&H/U and steering angel sensor. Connector & terminal (B231) No. 1 — (B310) No. 20: (B231) No. 2 — (B310) No. 34:	Is the resistance less than 0.5 Ω ?	Go to step 5.	Repair the harness between the steering angle sensor and VDCCM&H/U.
5 CHECK GROUND SHORT CIRCUIT OF STEERING ANGLE SENSOR HARNESS. Measure the resistance between steering angle sensor and chassis ground. Connector & terminal (B231) No. 1 — Chassis ground: (B231) No. 2 — Chassis ground:	Is the resistance more than 1 M Ω ?	Go to step 6.	Repair the harness between the steering angle sensor and VDCCM&H/U.
6 CHECK STEERING ANGLE SENSOR. 1) Turn the ignition switch to OFF. 2) Connect all the connectors. 3) Erase the memory. 4) Perform the Inspection Mode. 5) Read the DTC.	Is the same DTC displayed?	Go to step 7.	Go to step 8.
7 CHECK THE VDCCM&H/U. 1) Turn the ignition switch to OFF. 2) Replace the steering angle sensor. 3) Erase the memory. 4) Perform the 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 9.
8 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.
9 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Original steering angle sensor malfunction

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AQ:DTC C0071 STEERING ANGLE SENSOR SIGNAL FREEZE

DTC DETECTING CONDITION:

Defective steering angle sensor

TROUBLE SYMPTOM:

VDC does not operate.

Step	Check	Yes	No
1 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 2.	Perform the centering adjustment of steering wheel.
2 CHECK DRIVING PLACE. 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 3.
3 CHECK OUTPUT OF STEERING ANGLE SENSOR WITH SUBARU SELECT MONITOR. 1) Select {Current Data Display & Save} in Subaru Select Monitor. 2) Read the steering angle sensor output displayed on display.	Does the steering angle sensor output value on the display vary in accordance with steering operation when turning the steering wheel to the right or left?	Go to step 4.	Replace the steering angle sensor.
4 CHECK THE VDCCM&H/U. 1) Turn the ignition switch to OFF. 2) Connect all the connectors. 3) Erase the memory. 4) Perform the 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 5.
5 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

AR:DTC C0071 STEERING ANGLE SENSOR CALIBRATION NON COMPLETION

DTC DETECTING CONDITION:

Steering angle sensor calibration is incomplete.

TROUBLE SYMPTOM:

VDC does not operate.

Calibrate the steering angle sensor. <Ref. to VDC-12, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

AS:DTC C0072 YAW RATE SENSOR OSCILLATION MALFUNCTION

NOTE:

For the diagnostic procedure, refer to DTC C0072 "YAW RATE SENSOR SIGNAL MALFUNCTION". <Ref. to VDC(diag)-75, DTC C0072 YAW RATE SENSOR SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AT:DTC C0072 YAW RATE SENSOR SIGNAL MALFUNCTION

DTC DETECTING CONDITION:

Defective yaw rate sensor

TROUBLE SYMPTOM:

VDC does not operate.

Step	Check	Yes	No
1 CHECK DRIVING PLACE. 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 YAW RATE & LATERAL G SENSOR INSTALLATION.	Is the yaw rate & lateral G sensor installation bolt tightened to 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)?	Go to step 3.	Tighten the yaw rate & lateral G sensor installation bolt.
3 CHECK OUTPUT OF YAW RATE & LATERAL 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} in Subaru Select Monitor. 4) Read the yaw rate output displayed on display.	Is the reading indicated on monitor display -4 — 4 deg/s?	Go to step 4.	Replace the yaw rate & lateral G sensor.
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} in Subaru Select Monitor. 4) Read the steering angle sensor output displayed on display.	Is the reading indicated on monitor display -5 — 5°?	Go to step 5.	Calibrate the steering angle sensor.
5 CHECK YAW RATE & LATERAL G SENSOR. 1) Turn the ignition switch to OFF. 2) Connect all the connectors. 3) Erase the memory. 4) Perform the Inspection Mode. 5) Read the DTC.	Is the same DTC displayed?	Go to step 6.	Go to step 7.
6 CHECK THE VDCCM&H/U. 1) Turn the ignition switch to OFF. 2) Replace the yaw rate & lateral G sensor. 3) Erase the memory. 4) Perform the 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 8.
7 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.
8 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Malfunction is found in original yaw rate & lateral G sensor.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AU:DTC C0056 G SENSOR INTERNAL PROBLEM MALFUNCTION

NOTE:

For the diagnostic procedure, refer to DTC C0072 “YAW RATE SENSOR INTERNAL PROBLEM MALFUNCTION”. <Ref. to VDC(diag)-76, DTC C0072 YAW RATE SENSOR INTERNAL PROBLEM MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

AV:DTC C0072 YAW RATE SENSOR INTERNAL PROBLEM MALFUNCTION

DTC DETECTING CONDITION:

Yaw rate & lateral G sensor malfunction

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

	Step	Check	Yes	No
1	CHECK YAW RATE & LATERAL G SENSOR. 1) Erase the memory. 2) Perform the Inspection Mode. 3) Read the DTC.	Is the same DTC displayed?	Replace the yaw rate & lateral G sensor.	Go to step 2.
2	CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

AW:DTC C0056 G SENSOR COMMUNICATION MALFUNCTION

NOTE:

For the diagnostic procedure, refer to DTC C0072 “YAW RATE SENSOR COMMUNICATION MALFUNCTION”. <Ref. to VDC(diag)-77, DTC C0072 YAW RATE SENSOR COMMUNICATION MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

AX:DTC C0072 YAW RATE SENSOR COMMUNICATION MALFUNCTION

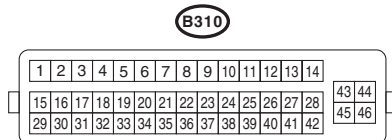
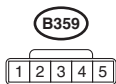
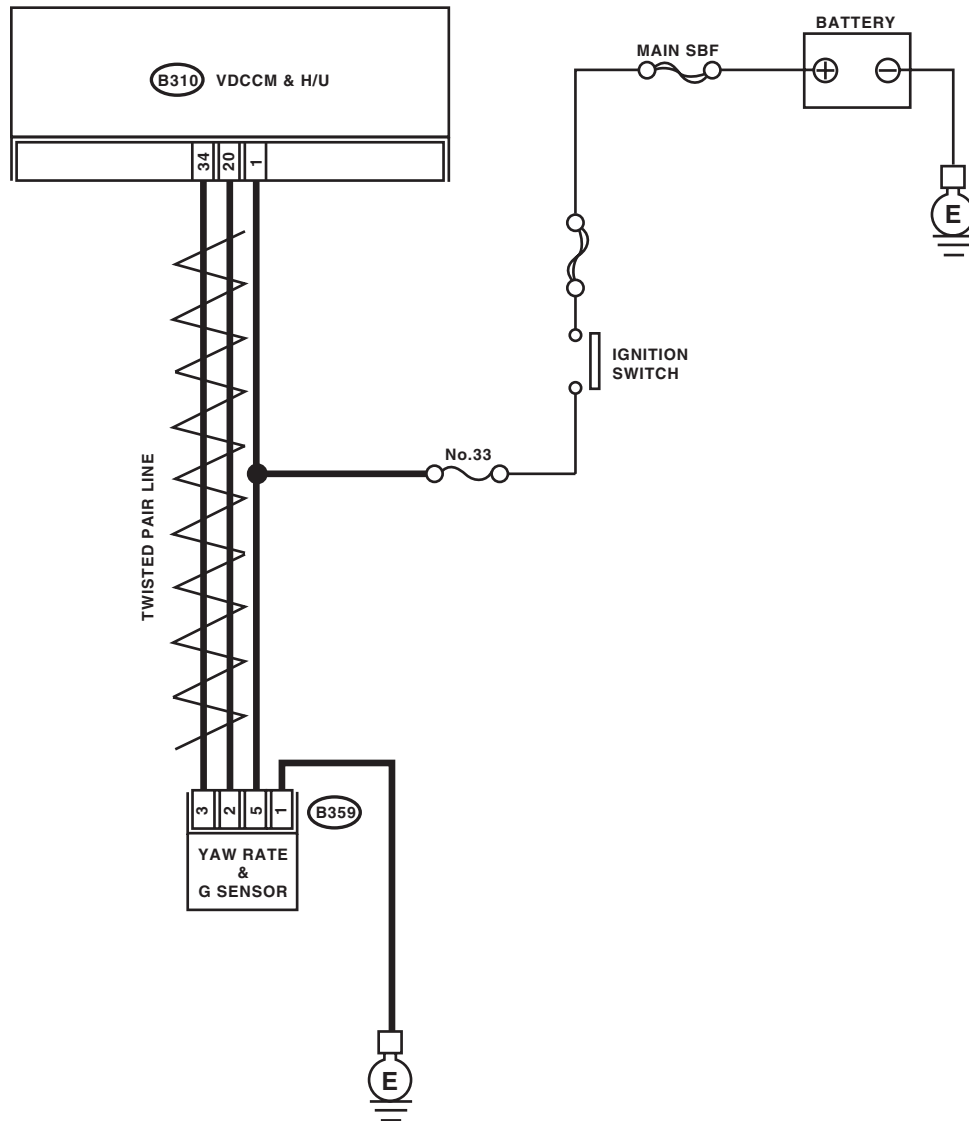
DTC DETECTING CONDITION:

Yaw rate & lateral G sensor malfunction

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

WIRING DIAGRAM:



VDC00375

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK LAN SYSTEM. 1) Perform the diagnosis for LAN system. <Ref. to LAN(diag)-24, OPERATION, Read Diagnostic Trouble Code (DTC).>	Is there any fault in LAN system?	Perform the diagnosis according to DTC for LAN system.	Go to step 2.
2 CHECK THE YAW RATE & LATERAL G SENSOR POWER SUPPLY. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the yaw rate & lateral G sensor. 3) Turn the ignition switch to ON. 4) Measure the voltage between yaw rate & lateral G sensor and chassis ground. Connector & terminal (B359) No. 5 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 3.	Replace the yaw rate & lateral G sensor power supply circuit.
3 CHECK GROUND CIRCUIT OF YAW RATE & LATERAL G SENSOR. 1) Turn the ignition switch to OFF. 2) Measure the resistance between the yaw rate & lateral G sensor and chassis ground. Connector & terminal (B359) No. 1 — Chassis ground:	Is the resistance less than 0.5 Ω ?	Go to step 4.	Repair the yaw rate & lateral G sensor ground circuit.
4 CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact in connector?	Correct or replace the connector.	Go to step 5.
5 CHECK YAW RATE & LATERAL G SENSOR. 1) Turn the ignition switch to OFF. 2) Connect all the connectors. 3) Erase the memory. 4) Perform the Inspection Mode. 5) Read the DTC.	Is the same DTC displayed?	Replace the yaw rate & lateral G sensor.	Go to step 6.
6 CHECK OTHER DTC DETECTION.	Is any other DTC displayed?	Perform the diagnosis according to DTC.	Temporary poor contact occurs.

AY:DTC C0074 PRESSURE SENSOR SIGNAL FREEZE

NOTE:

For the diagnostic procedure, refer to DTC C0074 "PRESSURE SENSOR OPEN CIRCUIT". <Ref. to VDC(diag)-79, DTC C0074 PRESSURE SENSOR OPEN CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

AZ:DTC C0074 PRESSURE SENSOR OUTPUT RISE

NOTE:

For the diagnostic procedure, refer to DTC C0074 "PRESSURE SENSOR OPEN CIRCUIT". <Ref. to VDC(diag)-79, DTC C0074 PRESSURE SENSOR OPEN CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

BA:DTC C0074 PRESSURE SENSOR OPEN CIRCUIT

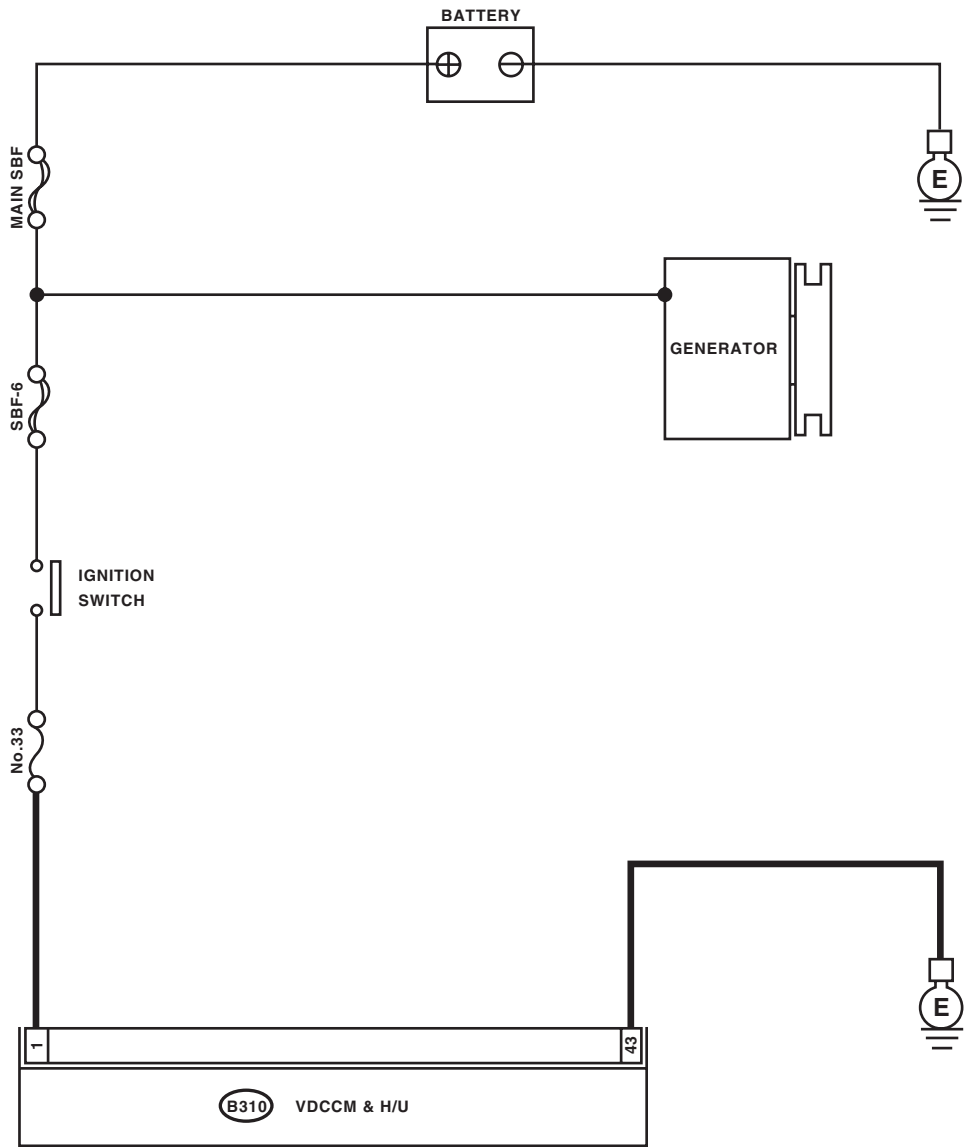
DTC DETECTING CONDITION:

Defective pressure sensor

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

WIRING DIAGRAM:



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
												43	44
												45	46

VDC00371

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK THE VDCCM&H/U POWER 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. 1 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the power supply circuit.
2	CHECK THE 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. 43 — Chassis ground:	Is the resistance less than 0.5 Ω ?	Go to step 3.	Repair the VDCCM&H/U ground harness.
3	CHECK PRESSURE SENSOR. 1) Connect the Subaru Select Monitor to the vehicle. 2) Select {Current Data Display & Save} in Subaru Select Monitor. 3) Depress the brake pedal. 4) Read the pressure switch output in Subaru Select Monitor.	Do the values on the monitor display change when the pedal is depressed?	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 THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

BB:DTC C0074 PRESSURE SENSOR 0 POINT

DTC DETECTING CONDITION:

Defective pressure sensor

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

Step	Check	Yes	No
1 CHECK OUTPUT OF STOP LIGHT SWITCH WITH SUBARU SELECT MONITOR. 1) Select {Current Data Display & Save} in Subaru Select Monitor. 2) Release the brake pedal. 3) Read the stop light switch output in Subaru Select Monitor.	Is OFF displayed on the display screen?	Go to step 2.	Go to step 3.
2 CHECK OUTPUT OF STOP LIGHT SWITCH WITH SUBARU SELECT MONITOR. 1) Depress the brake pedal. 2) Read the stop light switch output in Subaru Select Monitor.	Is ON displayed on the display screen?	Go to step 4.	Go to step 3.
3 CHECK IF STOP LIGHTS COME ON. 1) Depress the brake pedal.	Does the stop light illuminate?	Go to step 4.	Repair the stop light circuit.
4 CHECK PRESSURE SENSOR. 1) Depress the brake pedal. 2) Read the pressure sensor output using the Subaru Select Monitor.	Do the output values on the monitor display change when the pedal is depressed?	Go to step 5.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
5 CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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.	Temporary poor contact occurs.

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

BC:DTC C0074 PRESSURE SENSOR NOISE

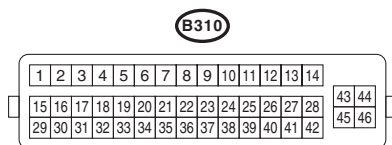
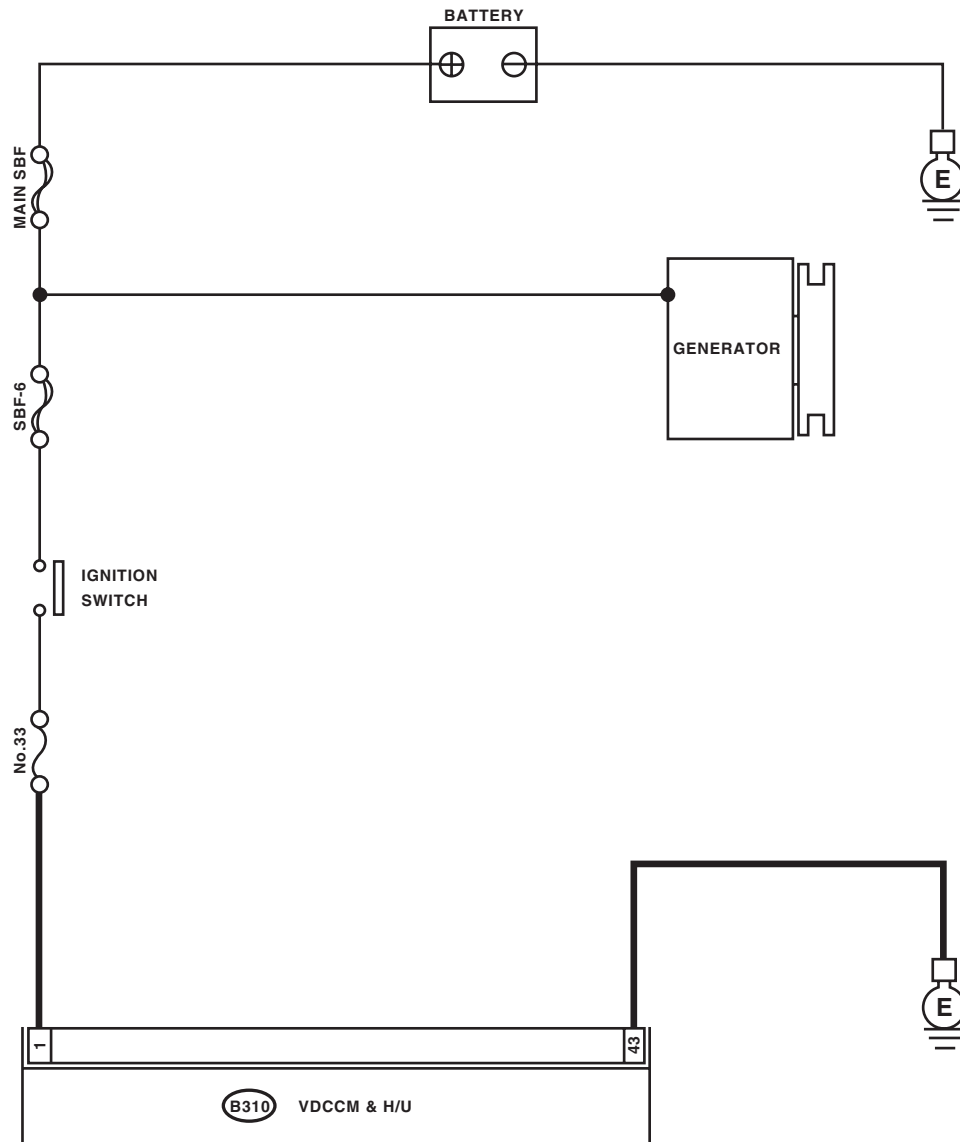
DTC DETECTING CONDITION:

Defective pressure sensor

TROUBLE SYMPTOM:

- ABS does not operate.
- VDC does not operate.

WIRING DIAGRAM:



VDC00371

Diagnostic Procedure with Diagnostic Trouble Code (DTC)

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK THE VDCCM&H/U POWER 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. 1 (+) — Chassis ground (-):	Is the voltage 10 — 15 V?	Go to step 2.	Repair the power supply circuit.
2	CHECK THE 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. 43 — Chassis ground:	Is the resistance less than 0.5 Ω ?	Go to step 3.	Repair the VDCCM&H/U ground harness.
3	CHECK CAUSE OF SIGNAL NOISE. Check if the noise sources (such as an antenna) are installed near the VDCCM&H/U.	Are noise sources installed?	Install the noise sources apart from the VDCCM&H/U.	Go to step 4.
4	CHECK PRESSURE SENSOR. 1) Depress the brake pedal. 2) Read the pressure switch output in Subaru Select Monitor.	Do the output values on the monitor display change when the pedal is depressed?	Go to step 5.	Replace the VDCCM&H/U. <Ref. to VDC-8, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>
5	CHECK THE VDCCM&H/U. 1) Connect all the connectors. 2) Erase the memory. 3) Perform the 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.	Temporary poor contact occurs.