12.List of Diagnostic Trouble Code (DTC)

A: LIST

DTC	Display	Content of diagnosis	Reference target
—	Communication for initialization is not possible	Subaru Select Monitor communication failure	<Ref. to VDC(diag)-32, COMMUNICATION FOR INITIALIZING IMPOSSIBLE (SUBARU SELECT MONITOR COMMUNICATION MALFUNCTION), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
—	No DTC	Even when the DTC is not displayed on the Subaru Select Monitor display, the ABS warning light, VDC warning light/VDC OFF indicator light and VDC operation indicator light do not come on.	<Ref. to VDC(diag)-35, ABS WARNING LIGHT, VDC WARNING LIGHT/VDC OFF INDICATOR LIGHT, BRAKE WARNING LIGHT (EBD WARNING LIGHT) OR VDC OPERATION INDICATOR LIGHT DO NOT COME ON, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
—	No DTC	Even when the DTC is not displayed on the Subaru Select Monitor display, the ABS warning light, VDC warning light/VDC OFF indicator light and brake warning light (EBD warning light) do not come on.	<Ref. to VDC(diag)-37, ABS WARNING LIGHT, VDC WARNING LIGHT/VDC OFF INDICATOR LIGHT, BRAKE WARNING LIGHT (EBD WARNING LIGHT) DOES NOT GO OFF., Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
—	No DTC	Even when the DTC is not displayed on the Subaru Select Monitor display, the VDC operation indicator light does not extinguish.	<Ref. to VDC(diag)-40, VDC INDICATOR LIGHT DOES NOT GO OFF, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
21	Front Right ABS Sensor Circuit Open or Shorted Battery	Open or Short Circuit in Front ABS Wheel Speed Sensor RH Circuit	<Ref. to VDC(diag)-41, DTC 21 FRONT RIGHT ABS SENSOR CIRCUIT OPEN OR SHORTED BATTERY, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
22	Front Right ABS Wheel Sensor Signal Malfunction	Front ABS wheel speed sensor RH signal error	<Ref. to VDC(diag)-45, DTC 22 FR WHEEL SPEED SENSOR SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
23	FL Wheel Speed Sensor Circuit Open / High Input	Open or Short Circuit in Front ABS Wheel Speed Sensor LH Circuit	<Ref. to VDC(diag)-41, DTC 23 FRONT LEFT ABS SENSOR CIRCUIT OPEN OR SHORTED BATTERY, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
24	Front Left ABS Wheel Speed Sensor Signal Malfunction	Front ABS wheel speed sensor LH signal error	<Ref. to VDC(diag)-45, DTC 24 FL WHEEL SPEED SENSOR SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
25	Rear Right ABS Sensor Circuit Open or Shorted Battery	Open or Short Circuit in Rear ABS Wheel Speed Sensor RH Circuit	<Ref. to VDC(diag)-41, DTC 25 REAR RIGHT ABS SENSOR CIRCUIT OPEN OR SHORTED BATTERY, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
26	Rear Right ABS Wheel Speed Sensor Signal Malfunction	Rear ABS wheel speed sensor RH signal error	<Ref. to VDC(diag)-45, DTC 26 RR WHEEL SPEED SENSOR SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
27	RL Wheel Speed Sensor Circuit Open / High Input	Open or Short Circuit in Rear ABS Wheel Speed Sensor LH Circuit	<Ref. to VDC(diag)-42, DTC 27 REAR LEFT ABS SENSOR CIRCUIT OPEN OR SHORTED BATTERY, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
28	Rear Left ABS Wheel Speed Sensor Signal Malfunction	Rear ABS wheel speed sensor LH signal error	<Ref. to VDC(diag)-46, DTC 28 RL WHEEL SPEED SENSOR SIGNAL MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
29	Any One of Four ABS Sensors Signal	One sensor signal error of any of the four ABS wheel speed sensors	<Ref. to VDC(diag)-51, DTC 29 ANY ONE OF FOUR ABS SENSORS SIGNAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
31	FR Maintain Valve	Front inlet solenoid valve RH malfunction	<Ref. to VDC(diag)-54, DTC 31 FRONT RIGHT INLET VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

DTC	Display	Content of diagnosis	Reference target
32	FR Decompression Valve	Front outlet solenoid valve RH malfunction	<Ref. to VDC(diag)-59, DTC 32 FRONT RIGHT OUTLET VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
33	FL Maintain Valve	Front inlet solenoid valve LH malfunction	<Ref. to VDC(diag)-54, DTC 33 FRONT LEFT INLET VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
34	FL Decompression Valve	Front outlet solenoid valve LH malfunction	<Ref. to VDC(diag)-59, DTC 34 FRONT LEFT OUTLET VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
35	RR Maintain Valve	Rear inlet solenoid valve RH malfunction	<Ref. to VDC(diag)-54, DTC 35 REAR RIGHT INLET VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
36	RR Decompression Valve	Rear outlet solenoid valve RH malfunction	<Ref. to VDC(diag)-59, DTC 36 REAR RIGHT OUTLET VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
37	RL Maintain Valve	Rear inlet solenoid valve LH malfunction	<Ref. to VDC(diag)-54, DTC 37 REAR LEFT INLET VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
38	RL Decompression Valve	Rear outlet solenoid valve LH malfunction	<Ref. to VDC(diag)-59, DTC 38 REAR LEFT OUTLET VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
41	ECM	VDCCM malfunction	<Ref. to VDC(diag)-64, DTC 41 ECM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
42	Low power supply voltage	Power supply voltage malfunction	<Ref. to VDC(diag)-66, DTC 42 POWER VOLTAGE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
44	TCM communication circuit	TCM communication line malfunction	<Ref. to VDC(diag)-68, DTC 44 AT COMMUNICATION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
45	Incorrect VDC Control Module specifications	Incorrect VDCCM	<Ref. to VDC(diag)-70, DTC 45 INCORRECT VDC CONTROL MODULE SPECIFICATIONS, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
45	TCM malfunction	TCM error specifications	<Ref. to VDC(diag)-70, DTC 45 AT ECM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
46	5 V power supply voltage	5 V power supply voltage error	<Ref. to VDC(diag)-71, DTC 46 5 V POWER SUPPLY, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
47	CAN communication link	Defective CAN communication line	<Ref. to VDC(diag)-73, DTC 47 CAN COMMUNICATION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
51	Valve relay OFF malfunction	Defective valve relay	<Ref. to VDC(diag)-76, DTC 51 VALVE RELAY OFF MALFUNCTION/VALVE RELAY TEST MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Valve relay ON failure		<Ref. to VDC(diag)-81, DTC 51 VALVE RELAY ON MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Valve relay test failure		<Ref. to VDC(diag)-76, DTC 51 VALVE RELAY OFF MALFUNCTION/VALVE RELAY TEST MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

DTC	Display	Content of diagnosis	Reference target
52	Motor and motor relay OFF failure	Defective motor and motor relay OFF	<Ref. to VDC(diag)-85, DTC 52 MOTOR/MOTOR RELAY OFF MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Motor and motor relay ON failure	Defective motor and motor relay ON	<Ref. to VDC(diag)-88, DTC 52 MOTOR/MOTOR RELAY ON MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Motor malfunction	Defective motor	<Ref. to VDC(diag)-92, DTC 52 MOTOR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
57	EGI ECM signal	ECM communication malfunction	<Ref. to VDC(diag)-95, DTC 57 EGI COMMUNICATION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
61	VDC switching valve 1 (S)	Secondary cut valve malfunction	<Ref. to VDC(diag)-54, DTC 61 SECONDARY CUT SOLENOID VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
62	VDC switching valve 1 (P)	Primary cut valve malfunction	<Ref. to VDC(diag)-55, DTC 62 PRIMARY CUT SOLENOID VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
63	VDC switching valve 2 (S)	Secondary suction valve malfunction	<Ref. to VDC(diag)-59, DTC 63 SECONDARY SUCTION SOLENOID VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
64	VDC switching valve 2 (P)	Primary suction valve malfunction	<Ref. to VDC(diag)-60, DTC 64 PRIMARY SUCTION SOLENOID VALVE MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
71	Steering angle sensor offset is too big	The steering angle sensor offset is too large.	<Ref. to VDC(diag)-97, DTC 71 STEERING ANGLE SENSOR OFFSET IS TOO BIG, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Change range of steering angle sensor is too big	The steering angle sensor change range is too large.	<Ref. to VDC(diag)-99, DTC 71 CHANGE RANGE OF STEERING ANGLE SENSOR IS TOO BIG, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Steering angle sensor malfunction	Defective steering angle sensor	<Ref. to VDC(diag)-100, DTC 71 STEERING ANGLE SENSOR MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	No signal from steering angle sensor	Signals from the steering angle sensor are not sent.	<Ref. to VDC(diag)-102, DTC 71 NO SIGNAL FROM STEERING ANGLE SENSOR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
72	Yaw rate sensor output	Yaw rate sensor output error	<Ref. to VDC(diag)-104, DTC 72 YAW RATE SENSOR OUTPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Voltage inputted to yaw rate sensor exceeds specification	Voltage input to the yaw rate sensor exceeds specifications.	<Ref. to VDC(diag)-106, DTC 72 YAW RATE SENSOR POWER/OUTPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Abnormal yaw rate sensor reference voltage	Yaw rate sensor reference voltage malfunction	<Ref. to VDC(diag)-108, DTC 72 YAW RATE SENSOR REFERENCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Change range of yaw rate sensor signal is too big	The yaw rate sensor signal change range is too large.	<Ref. to VDC(diag)-110, DTC 72 EXCESSIVE VARIATION AMOUNT OF YAW RATE SENSOR OUTPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

DTC	Display	Content of diagnosis	Reference target
73	Lateral G sensor offset is too big	The lateral G sensor offset is too large.	<Ref. to VDC(diag)-112, DTC 73 LATERAL G SENSOR OFFSET IS TOO BIG, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Abnormal lateral G sensor output	Lateral G sensor output malfunction	<Ref. to VDC(diag)-112, DTC 73 LATERAL G SENSOR OUTPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Change range of lateral G sensor is too big	The lateral G sensor change range is too large.	<Ref. to VDC(diag)-112, DTC 73 EXCESSIVE VARIATION AMOUNT OF LATERAL G SENSOR OUTPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Excessive lateral G sensor output	Excessive Lateral G Sensor Signal	<Ref. to VDC(diag)-113, DTC 73 EXCESSIVE LATERAL G SENSOR SIGNAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Lateral G sensor power/output	Voltage input to the lateral G sensor exceeds specifications.	<Ref. to VDC(diag)-115, DTC 73 VOLTAGE INPUT TO LATERAL G SENSOR EXCEEDS SPECIFICATION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
74	Primary pressure sensor power/output	Voltage input to the primary pressure sensor exceeds specifications.	<Ref. to VDC(diag)-118, DTC 74 PRIMARY PRESSURE SENSOR POWER/OUTPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Secondary pressure sensor power/output	Voltage input to the secondary pressure sensor exceeds specifications.	<Ref. to VDC(diag)-121, DTC 74 SECONDARY PRESSURE SENSOR POWER/OUTPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Primary pressure sensor offset is too big	The primary pressure sensor offset is too large.	<Ref. to VDC(diag)-124, DTC 74 PRIMARY PRESSURE SENSOR OFFSET IS TOO BIG, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Secondary pressure sensor offset is too big	The secondary pressure sensor offset is too large.	<Ref. to VDC(diag)-124, DTC 74 SECONDARY PRESSURE SENSOR OFFSET IS TOO BIG, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
	Pressure sensor differential pressure too large	The differential pressure of the pressure sensor is too large.	<Ref. to VDC(diag)-126, DTC 74 PRESSURE SENSOR DIFFERENTIAL PRESSURE TOO LARGE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

If either of the following multiple of DTC are in the memory, check the part that corresponds to the first DTC. If a problem is not detected, check the portions that correspond to the other DTC in the order that the codes appear.

Combination of DTC	Problem portions	Reference target
46 5 V power supply voltage error 74 Voltage input to the pressure sensor exceeds specifications.	(B310) — No. 77 lead circuit is shorted to the ground or battery.	<Ref. to VDC(diag)-71, DTC 46 5 V POWER SUPPLY, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
44 TCM communication circuit 71 Signals from the steering angle sensor are not sent.	(B310) — No. 83 or 81 lead circuits are open.	<Ref. to VDC(diag)-102, DTC 71 NO SIGNAL FROM STEERING ANGLE SENSOR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
51 Valve relay 71 Signals from the steering angle sensor are not sent.	(B310) — No. 27 lead circuit is open.	<Ref. to VDC(diag)-102, DTC 71 NO SIGNAL FROM STEERING ANGLE SENSOR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
71 Signals from the steering angle sensor are not sent. 51 Valve relay 44 TCM communication circuit	(B310) — No. 27 lead circuit is open.	<Ref. to VDC(diag)-102, DTC 71 NO SIGNAL FROM STEERING ANGLE SENSOR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
73 Voltage input to the lateral G sensor exceeds specifications. 72 Voltage input to the yaw rate sensor exceeds specifications.	(B310) — No. 50 lead circuit is open.	<Ref. to VDC(diag)-113, DTC 73 EXCESSIVE LATERAL G SENSOR SIGNAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>