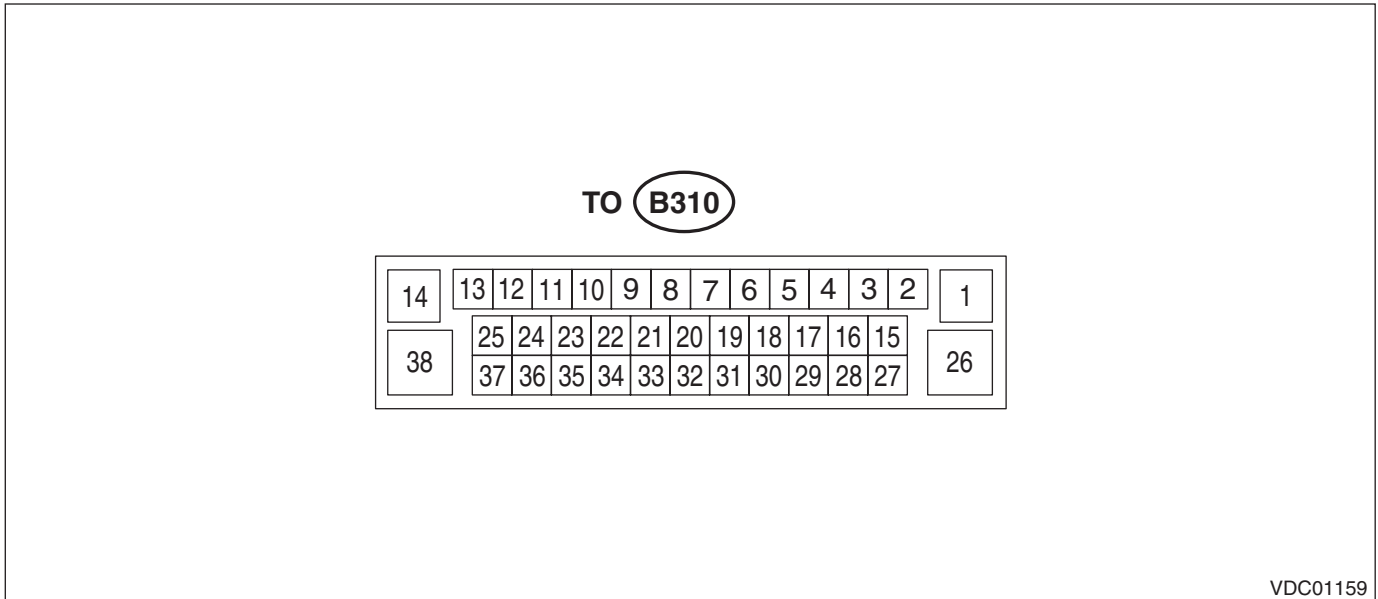


Control Module I/O Signal

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

5. Control Module I/O Signal

A: ELECTRICAL SPECIFICATION



NOTE:

- Terminal numbers in VDCCM&H/U connector (on the control module side) are shown in the figure.
- When the connector is removed from the VDCCM&H/U, the brake warning light (EBD warning light), ABS warning light, VDC warning light & VDC indicator light, VDC OFF indicator light, and the hill start assist warning light illuminate.

Control Module I/O Signal

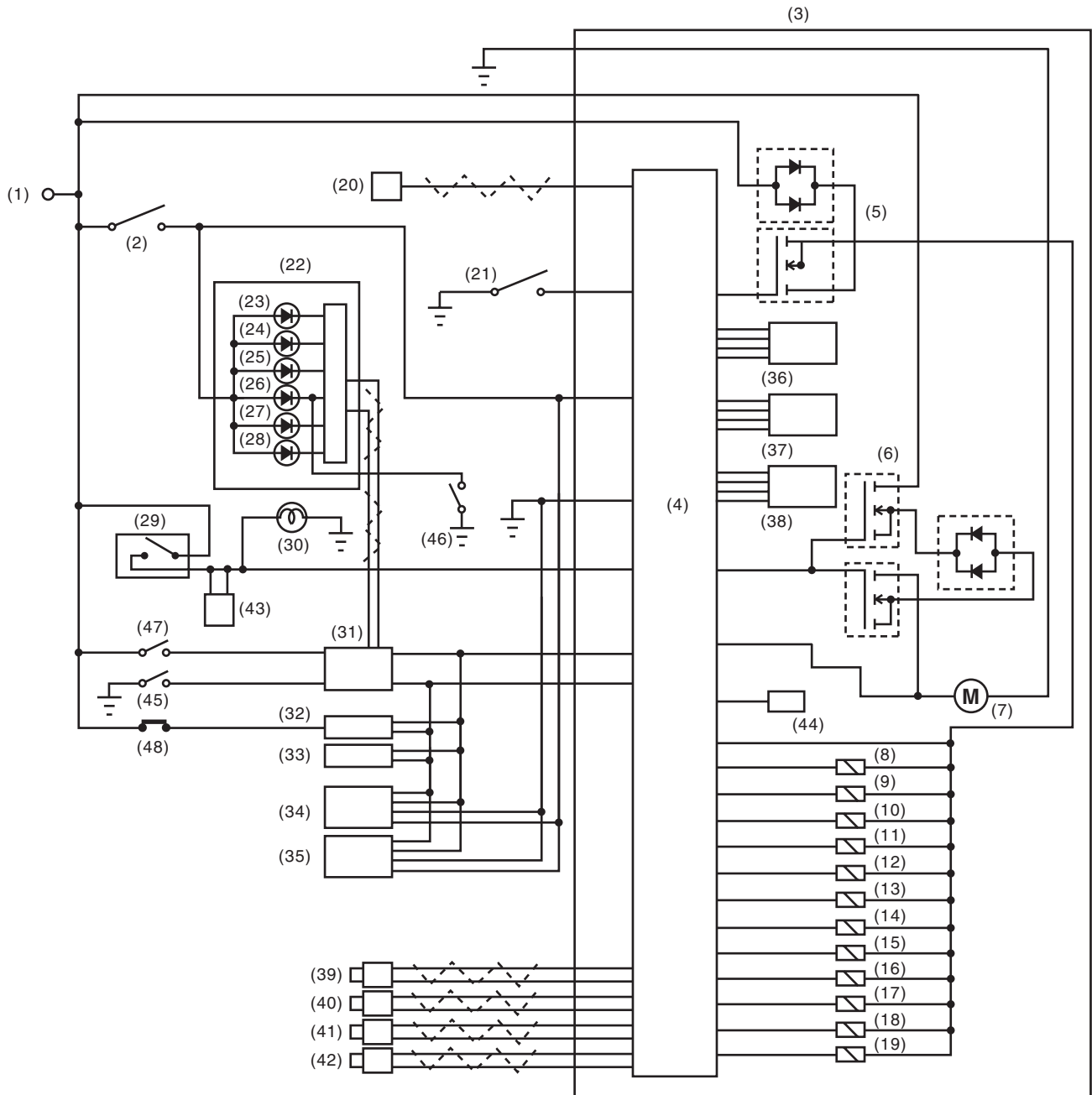
VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Content			Terminal No. (+) — (–)	Input/Output signal
				Measured value and measuring conditions
Power supply			4 — 14	10 — 15 V when the ignition switch is ON.
ABS wheel speed sensor	Front LH wheel	Power supply	20 — 14	0 — 18 V
		Signal	8	7 — 14 mA: Rectangle waveform
	Front RH wheel	Power supply	17 — 14	0 — 18 V
		Signal	29	7 — 14 mA: Rectangle waveform
	Rear LH wheel	Power supply	7 — 14	0 — 18 V
		Signal	19	7 — 14 mA: Rectangle waveform
	Rear RH wheel	Power supply	18 — 14	0 — 18 V
		Signal	5	7 — 14 mA: Rectangle waveform
CAN communication line (H)			2	2.75 — 4.5 V pulse signal
CAN communication line (L)			15	0.5 — 2.25 V pulse signal
Valve relay power supply			1 — 14	10 — 15 V when the ignition switch is ON.
Motor relay power supply			26 — 38	10 — 15 V when the ignition switch is ON.
Brake light relay power supply (model with X mode and model with EyeSight)			28 — 14	10 — 15 V when the ignition switch is ON.
Stop light switch			6 — 14	1.5 V or less when the stop light is OFF; otherwise, 10 — 15 V when the stop light is ON.
Vehicle speed output signal			27	0 ↔ 12 V pulse
VDC OFF switch			37 — 14	1 Ω or less when the OFF switch is “ON”; 1 MΩ or more when the switch is “OFF”.
Ground			14	—
Ground			38	—

Control Module I/O Signal

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

B: WIRING DIAGRAM



VDC01160

Control Module I/O Signal

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

(1) Battery	(17) Primary suction solenoid valve	(33) Transmission control module (TCM) (AT model)
(2) Ignition switch	(18) Secondary cut solenoid valve	(34) Steering angle sensor
(3) VDC control module and hydraulic control unit (VDCCM&H/U)	(19) Secondary suction solenoid valve	(35) Yaw rate & G sensor (model with EyeSight)
(4) VDC control module	(20) Data link connector	(36) Pressure sensor
(5) Valve relay	(21) VDC OFF switch	(37) Pressure sensor (model with EyeSight)
(6) Motor relay	(22) Combination meter	(38) Pressure sensor (model with EyeSight)
(7) Motor	(23) VDC OFF indicator light	(39) Front ABS wheel speed sensor LH
(8) Front inlet solenoid valve LH	(24) VDC warning light & VDC indicator light	(40) Front ABS wheel speed sensor RH
(9) Front outlet solenoid valve LH	(25) ABS warning light	(41) Rear ABS wheel speed sensor LH
(10) Front inlet solenoid valve RH	(26) Brake warning light (EBD warning light)	(42) Rear ABS wheel speed sensor RH
(11) Front outlet solenoid valve RH	(27) Hill start assist warning light	(43) Brake light relay (model with X MODE and model with EyeSight)
(12) Rear inlet solenoid valve LH	(28) Hill descent control indicator light (model with X MODE)	(44) Yaw rate & G sensor (models without EyeSight)
(13) Rear outlet solenoid valve LH	(29) Stop light switch	(45) Parking brake switch
(14) Rear inlet solenoid valve RH	(30) Stop light	(46) Brake fluid level switch
(15) Rear outlet solenoid valve RH	(31) Body integrated unit	(47) Back-up light switch (MT model)
(16) Primary cut solenoid valve	(32) Engine control module (ECM)	(48) Clutch switch (MT model)