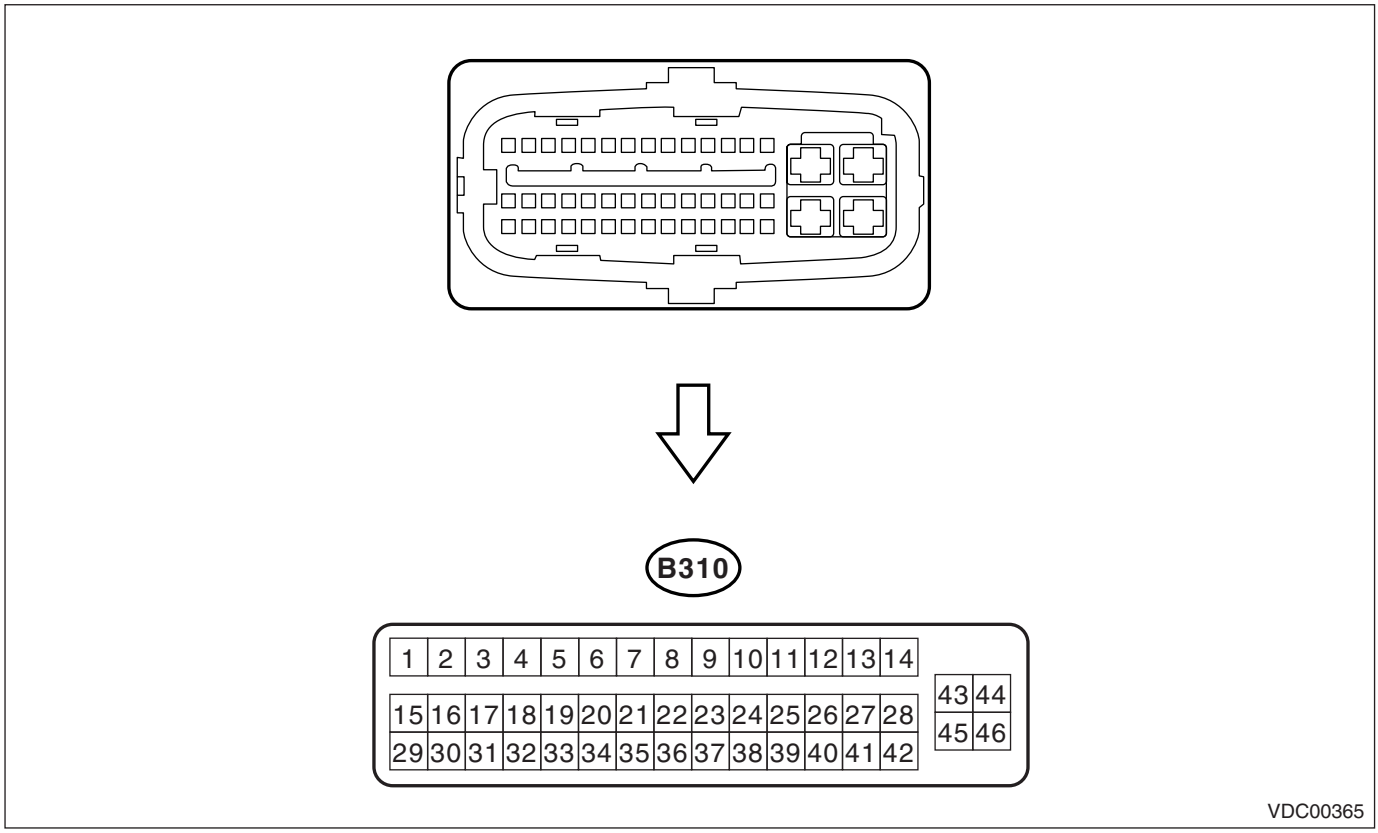
5. Control Module I/O Signal

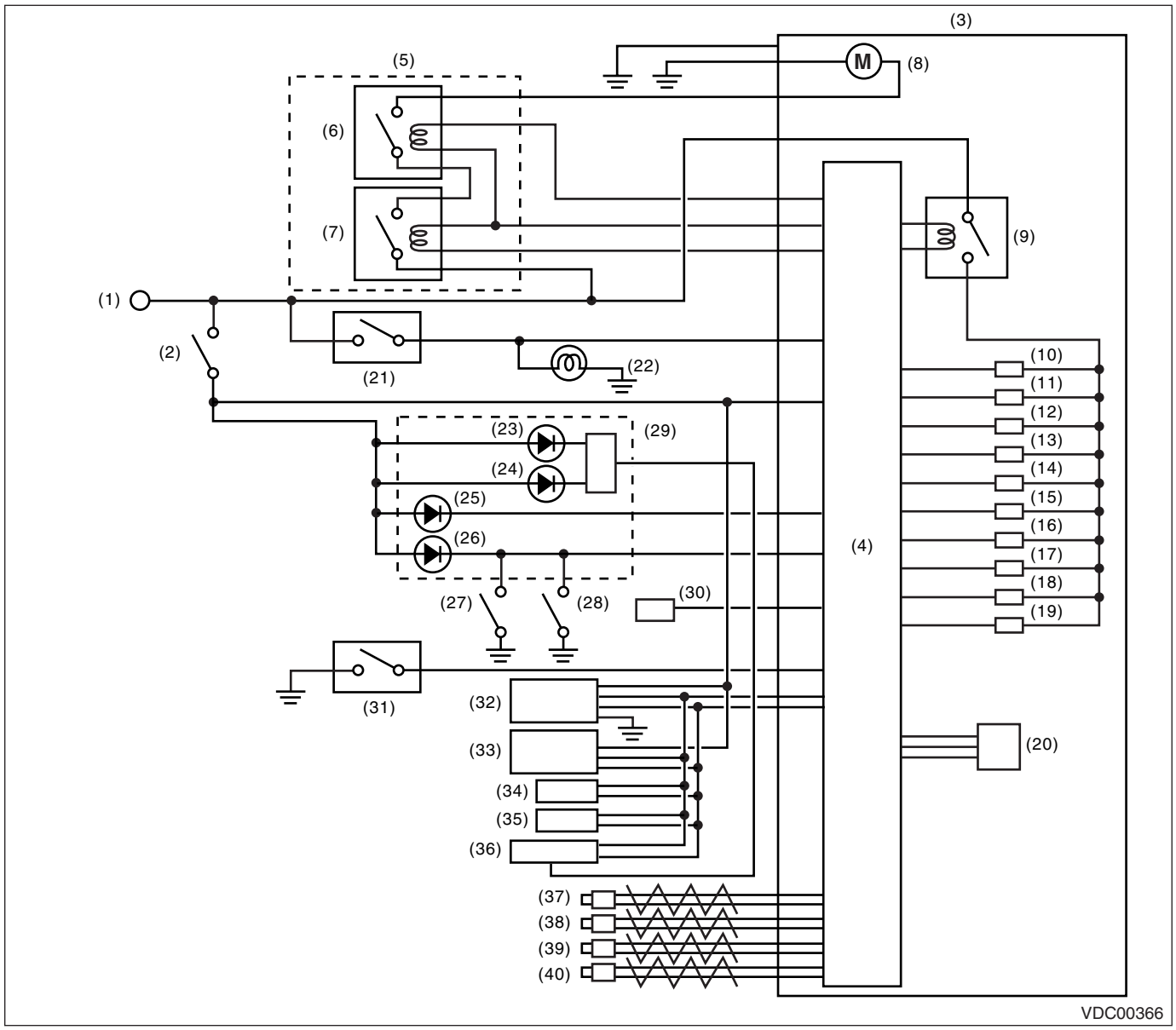
A: ELECTRICAL SPECIFICATION



NOTE:
- Terminal numbers in VDCCM&H/U connector are shown in the figure.
- When the connector is removed from VDCCM&H/U, the ABS warning light, VDC warning light and TCS OFF indicator light illuminate.

Description			Terminal No. (+) — (–)	Input/Output signal Measured value and measuring conditions
Power supply			1 — 43	10 — 15 V when the ignition switch is ON.
ABS wheel speed sensor	Front LH wheel	Power supply	27 — 43	8.5 — 13.5 V
		Signal	41	5 — 17 mA: Rectangle waveform
	Front RH wheel	Power supply	42 — 43	8.5 — 13.5 V
		Signal	28	5 — 17 mA: Rectangle waveform
	Rear LH wheel	Power supply	25 — 43	8.5 — 13.5 V
		Signal	39	5 — 17 mA: Rectangle waveform
	Rear RH wheel	Power supply	26 — 43	8.5 — 13.5 V
		Signal	40	5 — 17 mA: Rectangle waveform
Yaw rate & lateral G sensor			34 — 20	Serial communication
Steering angle sensor				
CAN communication line (+)			34	Serial communication
CAN communication line (–)			20	Serial communication
Valve relay power supply			44 — 43	10 — 15 V when the ignition switch is ON.
Motor power supply			45 — 46	10 — 15 V when the ignition switch is ON.
ABS warning light			16 — 43	After turning the ignition switch to ON, 10 — 15 V during 1.5 seconds and less than 1.5 V after 1.5 seconds passed.
Brake warning light (EBD warning light)			3 — 43	After turning the ignition switch to ON, 10 — 15 V during 1.5 seconds and less than 1.5 V after 1.5 seconds passed.
Stop light switch			18 — 43	Less than 1.5 V when the stop light is OFF; otherwise, 10 — 15 V when the stop light is ON.
Subaru Select Monitor			32 — 43	0 ←→ 12 V pulse (in communication)
Vehicle speed output signal			33	0 ←→ 5 V pulse
Ground			43	—
Relay box	Relay power supply		2 — 43	10 — 15 V when the ignition switch is ON.
	Motor relay drive		30 — 43	After turning the ignition switch to ON, 1.5 V after 10 — 15, motor startup.
	Fail safe relay drive		31 — 43	When the ignition switch is ON, less than 1.5 V.

B: WIRING DIAGRAM



(1) Battery
(2) Ignition switch
(3) VDC control module & hydraulic control unit (VDCCM&H/U)
(4) VDC control module
(5) Relay box
(6) Motor relay
(7) Fail safe relay
(8) Motor
(9) Valve relay
(10) Front inlet solenoid valve LH
(11) Front outlet solenoid valve LH
(12) Front inlet solenoid valve RH
(13) Front outlet solenoid valve RH
(14) Rear inlet solenoid valve LH
(15) Rear outlet solenoid valve LH
(16) Rear inlet solenoid valve RH
(17) Rear outlet solenoid valve RH
(18) Linear valve 1
(19) Linear valve 2
(20) Pressure sensor
(21) Stop light switch
(22) Stop light
(23) VDC indicator light
(24) VDC warning light and TCS OFF indicator light
(25) ABS warning light
(26) Brake warning light
(27) Parking brake switch
(28) Brake fluid level switch
(29) Combination meter
(30) Data link connector
(31) TCS OFF switch
(32) Steering angle sensor
(33) Yaw rate & lateral G sensor
(34) Transmission control module (TCM)
(35) Engine control module (ECM)
(36) Body integrated unit
(37) Front ABS wheel speed sensor LH
(38) Front ABS wheel speed sensor RH
(39) Rear ABS wheel speed sensor LH
(40) Rear ABS wheel speed sensor RH