

Control Module I/O Signal

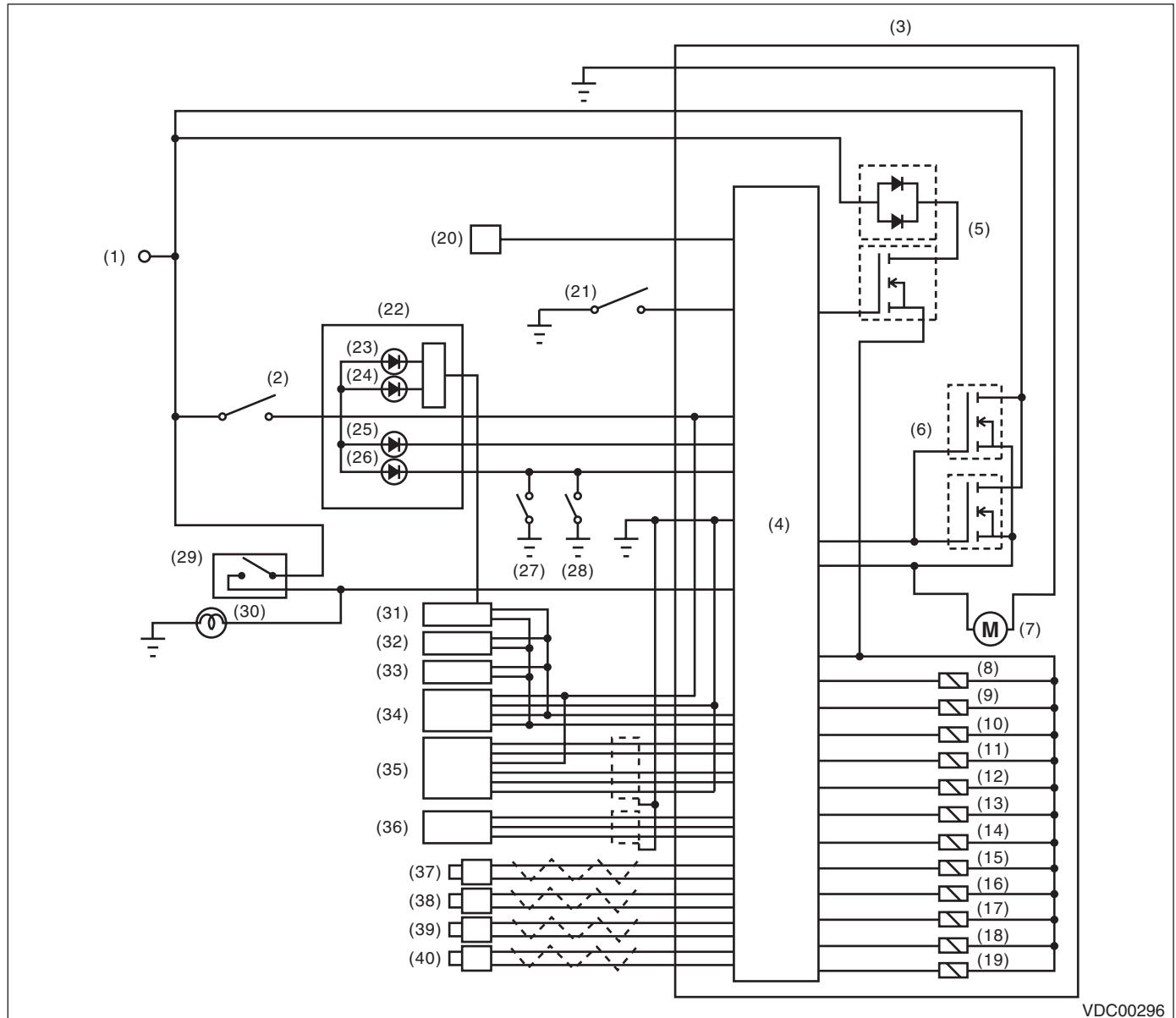
VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

Content			Terminal No. (+) — (-)	Input/Output signal
				Measured value and measuring conditions
Power supply			14 — 6	10 — 15 V when the ignition switch is ON.
ABS wheel speed sensor	Front LH wheel	Power supply	41 — 6	4.5 — 16.5 V
		Signal	25	5.9 — 16.8 mA: Rectangle waveform
	Front RH wheel	Power supply	22 — 6	4.5 — 16.5 V
		Signal	21	5.9 — 16.8 mA: Rectangle waveform
	Rear LH wheel	Power supply	24 — 6	4.5 — 16.5 V
		Signal	40	5.9 — 16.8 mA: Rectangle waveform
Rear RH wheel	Power supply	23 — 6	4.5 — 16.5 V	
	Signal	38	5.9 — 16.8 mA: Rectangle waveform	
Yaw rate & lateral G sensor	Output (Lateral G sensor)		3 — 16	When the vehicle is on level surface, 2.35 — 2.65 V,
	Power supply		30 — 16	8 — 16 V when the ignition switch is ON.
	Output (Yaw rate sensor)		28 — 16	Waveform <Ref. to VDC(diag)-16, WAVEFORM, MEASUREMENT, Control Module I/O Signal.>
	Standard (Yaw rate sensor)		1 — 16	2.1 — 2.9 V
	Test		2 — 16	5 — 1 V cycle for 40 ms pulse signal. <Ref. to VDC(diag)-16, WAVEFORM, MEASUREMENT, Control Module I/O Signal.>
	Ground		16	—
CAN communication line (+)			13	2.5 — 1.5 V pulse signal
CAN communication line (-)			29	3.5 — 2.5 V pulse signal
Valve relay power supply			5 — 6	10 — 15 V when the ignition switch is ON.
Motor relay power supply			9 — 10	10 — 15 V when the ignition switch is ON.
Pressure sensor	Power supply		27 — 12	4.75 — 5.25 V when the ignition switch is ON.
	Output voltage		11 — 12	0.48 — 0.72 V (when releasing the brake pedal)
	Ground		12	—
ABS warning light			35 — 6	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)			20 — 6	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			37 — 6	Less than 1.5 V when the stop light is OFF; otherwise, 10 — 15 V when the stop light is ON.
Subaru Select Monitor			26 — 6	0 ↔ 12 V pulse (in communication)
Vehicle speed output signal			36	0 ↔ 5 V pulse
Ground			6	—

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B: WIRING DIAGRAM



VDC00296

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

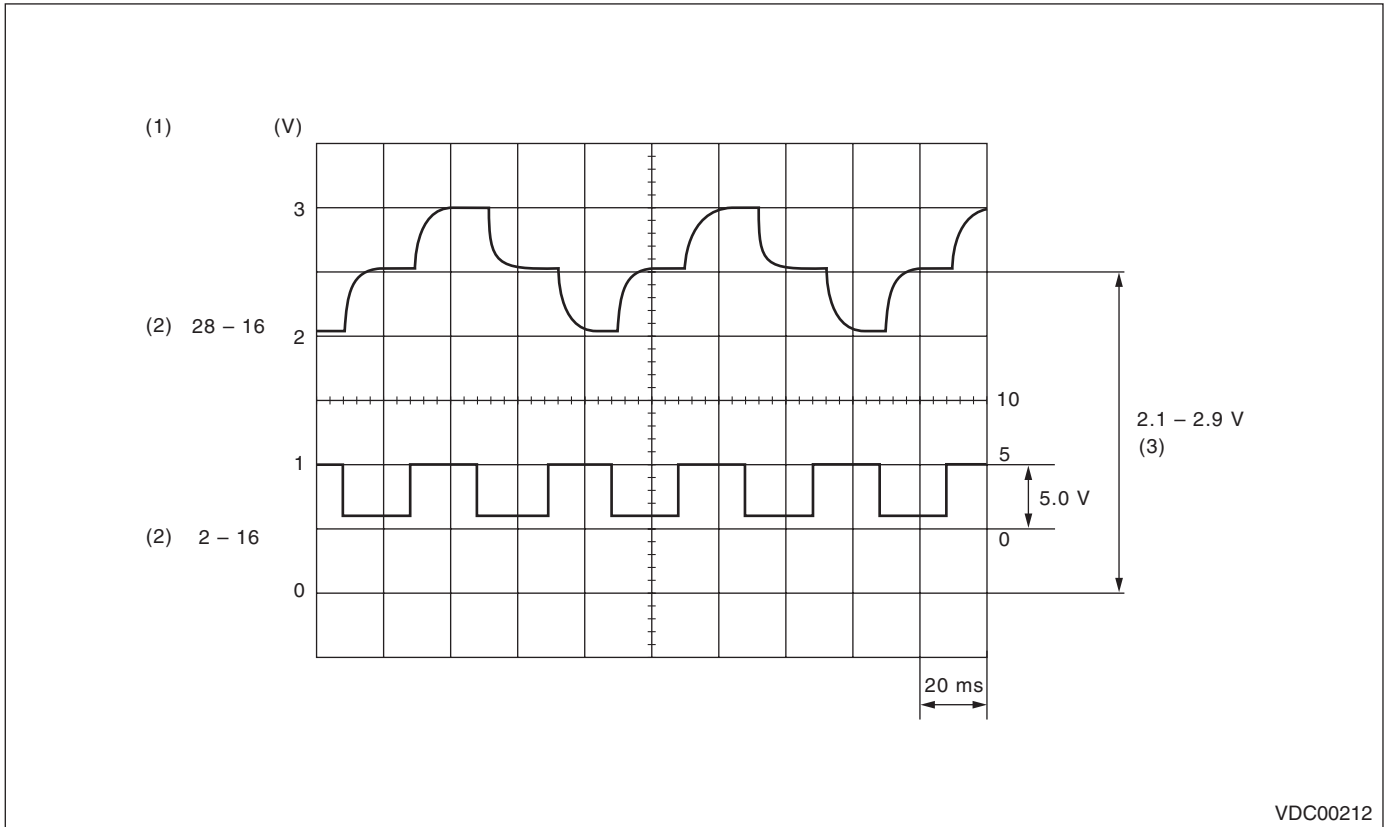
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C: MEASUREMENT

Measure input and output signal voltage.

1. WAVEFORM



VDC00212

(1) Yaw rate sensor

(2) Terminal No.

(3) Vehicle is at a standstill.