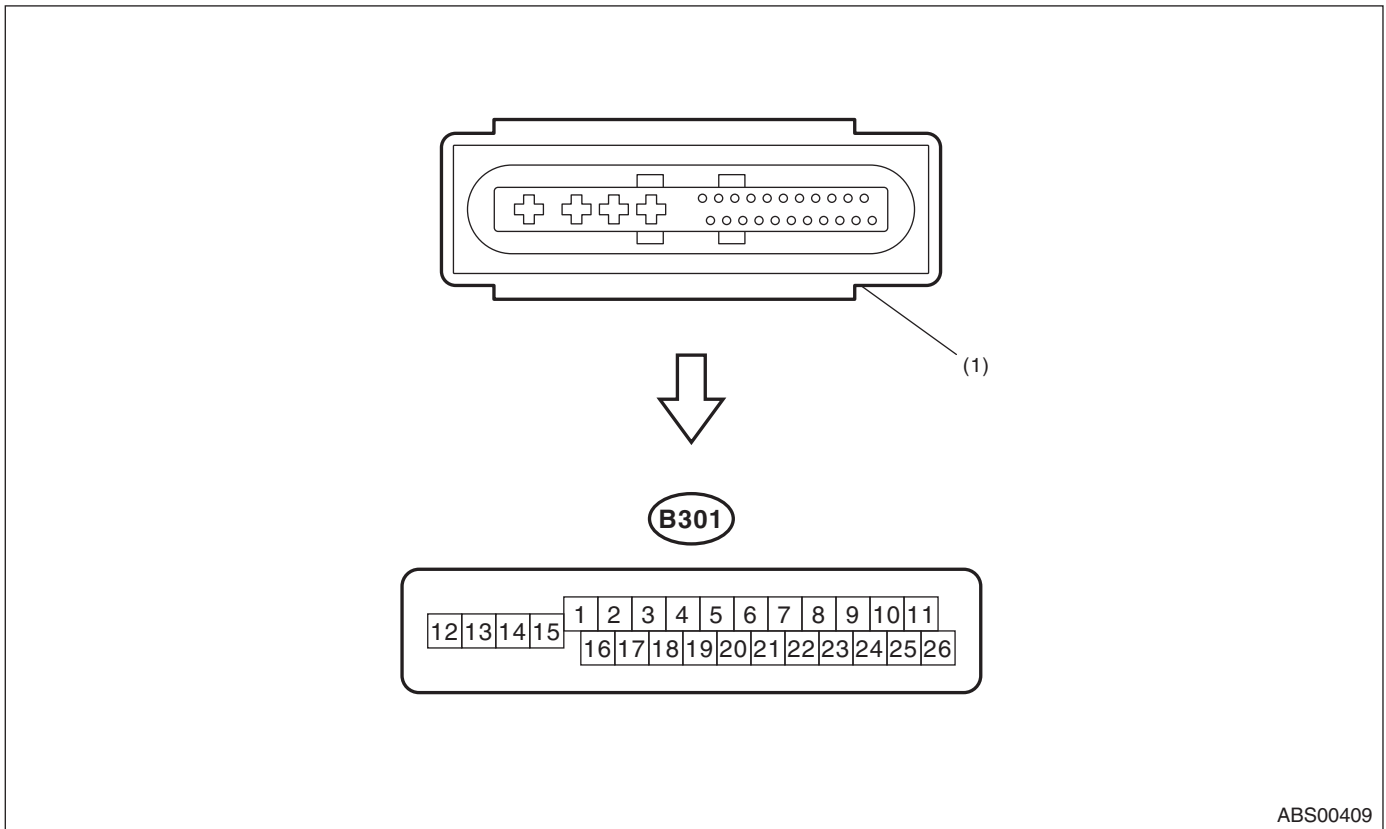


Control Module I/O Signal

ABS (DIAGNOSTICS)

5. Control Module I/O Signal

A: ELECTRICAL SPECIFICATION



(1) ABS control module and hydraulic control unit (ABSCM&H/U) connector

NOTE:

- Terminal numbers in ABSCM&H/U connector are shown in the figure.
- ABS warning light illuminates when the connector is removed from ABSCM&H/U.

Control Module I/O Signal

ABS (DIAGNOSTICS)

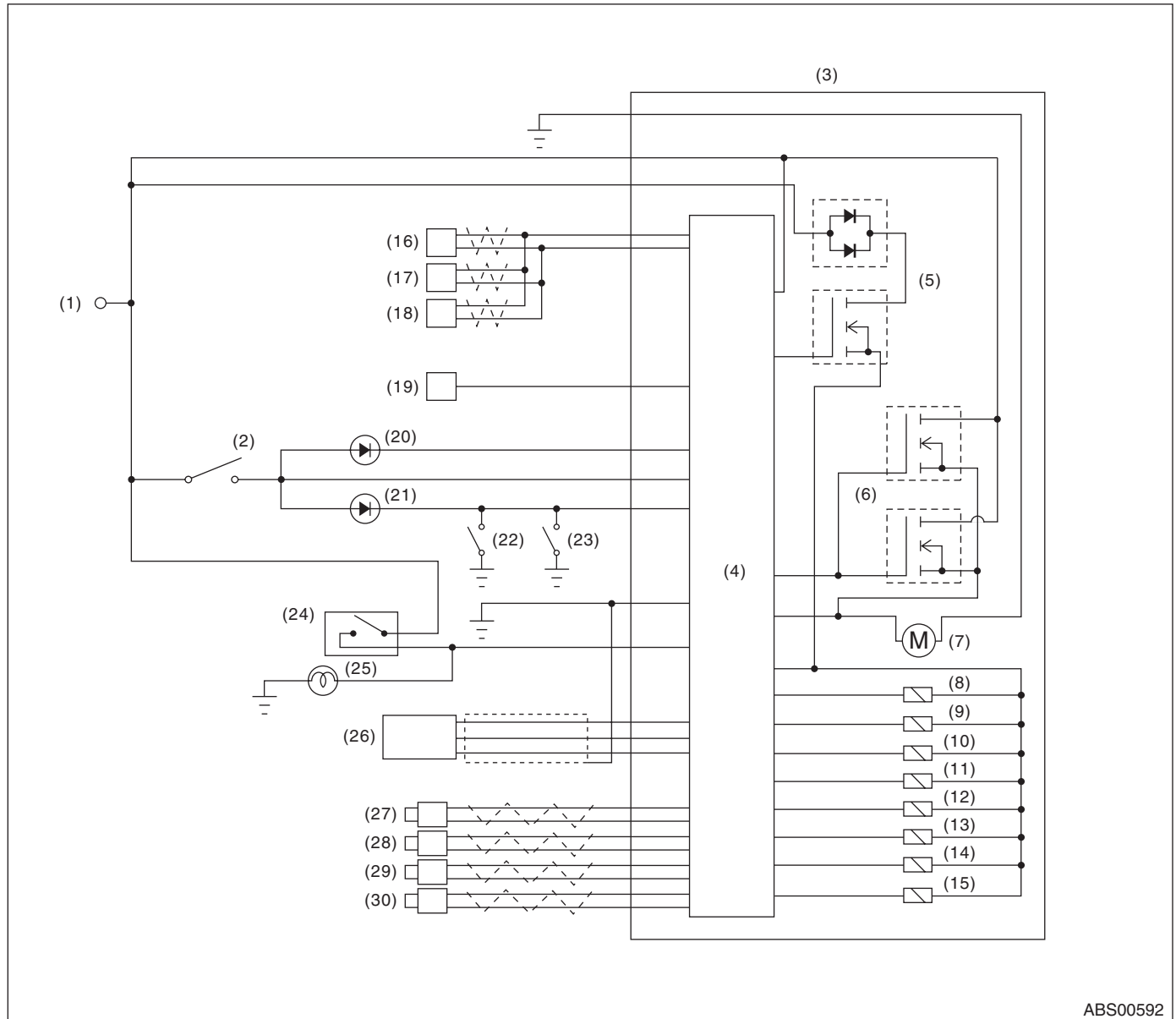
Description			Terminal No. (+) — (-)	Input/Output signal
				Measured value and measuring conditions
ABS wheel speed sensor (Wheel speed sensor)	Front LH wheel	Power supply	16 — 15	4.5 — 16.5 V
		Signal	1	5.9 — 16.8 mA: Rectangle waveform
	Front RH wheel	Power supply	5 — 15	4.5 — 16.5 V
		Signal	6	5.9 — 16.8 mA: Rectangle waveform
	Rear LH wheel	Power supply	2 — 15	4.5 — 16.5 V
		Signal	17	5.9 — 16.8 mA: Rectangle waveform
Rear RH wheel	Power supply	3 — 15	4.5 — 16.5 V	
	Signal	4	5.9 — 16.8 mA: Rectangle waveform	
CAN communication line (+)			26	2.5 — 1.5 V pulse signal
CAN communication line (-)			11	3.5 — 2.5 V pulse signal
Valve relay power supply *1			14 — 15	10 — 15 V
Motor relay power supply *1			13 — 15	10 — 15 V
G sensor	Power supply		24 — 10	4.75 — 5.25 V
	Ground		10	—
	Output		21 — 10	2.1 — 2.5 V when the vehicle is on level surface
Stop light switch *1			20 — 15	Less than 1.5 V when the stop light is OFF; otherwise, 10 — 15 V when the stop light is ON.
ABS warning light			22 — 15	After turning the ignition switch 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)			8 — 15	After turning the ignition switch ON, 10 — 15 V during 1.5 seconds and less than 1.5 V after 1.5 seconds passed.
Subaru Select Monitor			7 — 15	Less than 1.5 V when no data is received. 0 ↔ 12 V pulse (in communication)
Power supply *1			18 — 15	10 — 15 V when the ignition switch is ON.
Grounding line			15	—
Vehicle speed output signal			23 — 15	0 ↔ 5 V pulse

*1: Measure the I/O signal voltage after removing the connector from the ABSCM&H/U terminal.

Control Module I/O Signal

ABS (DIAGNOSTICS)

B: WIRING DIAGRAM



- | | | |
|---|--|--------------------------------------|
| (1) Battery | (12) Rear inlet solenoid valve LH | (22) Parking brake switch |
| (2) Ignition switch | (13) Rear outlet solenoid valve LH | (23) Brake fluid level switch |
| (3) ABS control module and hydraulic control unit (ABSCM&H/U) | (14) Rear inlet solenoid valve RH | (24) Stop light switch |
| (4) ABS control module | (15) Rear outlet solenoid valve RH | (25) Stop light |
| (5) Valve relay | (16) Body integrated unit | (26) G sensor |
| (6) Motor relay | (17) Engine control module (ECM) | (27) Front ABS wheel speed sensor LH |
| (7) Motor | (18) Transmission control module (TCM) | (28) Front ABS wheel speed sensor RH |
| (8) Front inlet solenoid valve LH | (19) Data link connector | (29) Rear ABS wheel speed sensor LH |
| (9) Front outlet solenoid valve LH | (20) ABS warning light | (30) Rear ABS wheel speed sensor RH |
| (10) Front inlet solenoid valve RH | (21) Brake warning light | |
| (11) Front outlet solenoid valve RH | | |