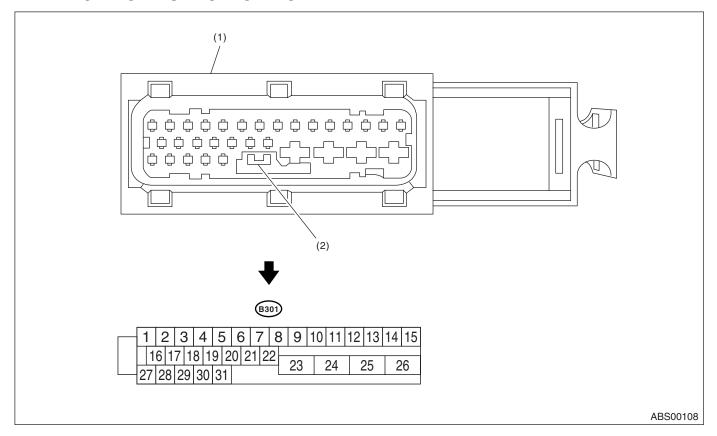
5. Control Module I/O Signal

A: ELECTRICAL SPECIFICATION



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

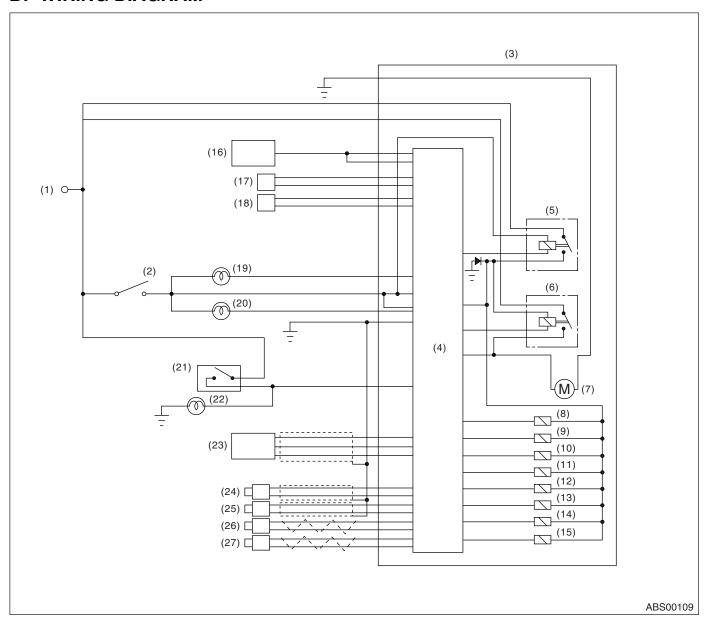
NOTE:

- The terminal numbers in ABS control module and hydraulic control unit (ABSCM&H/U) connector are as shown in the figure.
- When the connector is removed from ABSCM&H/U, the connector switch closes the circuit between terminal No. 22 and No. 23. The ABS warning light illuminates.

Contents		Terminal No.	Input/Output signal
		(+)—(-)	Measured value and measuring conditions
ABS wheel speed sen- sor*2 (Wheel speed sensor)	Front left wheel	9—10	
	Front right wheel	11—12	0.12 — 1 V
	Rear left wheel	7—8	(When it is 20 Hz)
	Rear right wheel	14—15	
Valve relay power supply*1		24—23	10 — 15 V
Motor relay power supply*1		25—23	10 — 15 V
G sensor*2	Power supply	30—28	4.75 — 5.25 V
	Ground	28	_
	Output	6—28	2.1 — 2.5 V when vehicle is in horizontal position.
Stop light switch*1		2—23	Less than 1.5 V when the stop light is OFF and, 10 — 15 V when the stop light is ON.
ABS warning light*2		22—23	Less than 1.5 V within 1.5 seconds immediately after ignition switch has been turned to ON, and 10 — 15 V after 1.5 seconds has elapsed.
Brake warning light*2 (EBD warning light)		21—23	Less than 1.5 V within 1.5 seconds immediately after ignition switch has been turned to ON, and 10 — 15 V after 1.5 seconds has elapsed.
AT ABS signal (AT models only)		31—23	Less than 1.5 V when the ABS control still operates and more than 5.5 V when ABS does not operate.
ABS operation signal monitor		3—23	Less than 1.5 V when the ABS control still operates and more than 5.5 V when ABS does not operate.
select monitor*2	Data is received.	20—23	Less than 1.5 V when no data is received.
	Data is sent.	5—23	4.75 — 5.25 V when no data is sent.
ABS diagnosis connec-	Terminal No. 3	29—23	10 — 15 V when ignition switch is ON.
tor	Terminal No. 6	4—23	10 — 15 V when ignition switch is ON.
Power supply*1		1—23	10 — 15 V when ignition switch is ON.
Grounding line		23	_
Grounding line		26	_

^{*1:} Measure the I/O signal voltage after removing the connector from the ABSCM&H/U terminal. *2: Measure the I/O signal voltage at connector (B99), (B36) or (F62).

B: WIRING DIAGRAM

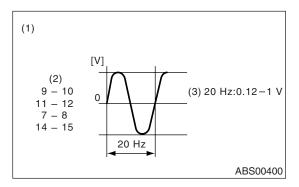


- (1) Battery
- (2) IGN
- (3) ABS control module and hydraulic control unit (ABSCM&H/U)
- (4) ABS control module area
- (5) Valve relay
- (6) Motor relay
- (7) Motor
- (8) Front inlet solenoid valve LH
- (9) Front outlet solenoid valve LH
- (10) Front inlet solenoid valve RH

- (11) Front outlet solenoid valve RH
- (12) Rear inlet solenoid valve LH
- (13) Rear outlet solenoid valve LH
- (14) Rear inlet solenoid valve RH
- (15) Rear outlet solenoid valve RH
- (16) Transmission control module (TCM) (AT model)
- (17) Diagnosis connector
- (18) Data link connector
- (19) Brake warning light
- (20) ABS warning light

- (21) Stop light switch
- (22) Stop light
- (23) G sensor
- (24) Front ABS wheel speed sensor LH
- (25) Front ABS wheel speed sensor RH
- (26) Rear ABS wheel speed sensor LH
- (27) Rear ABS wheel speed sensor RH

C: WAVEFORM



- (1) ABS wheel speed sensor
- (2) Terminal No.
- (3) Standard output voltage