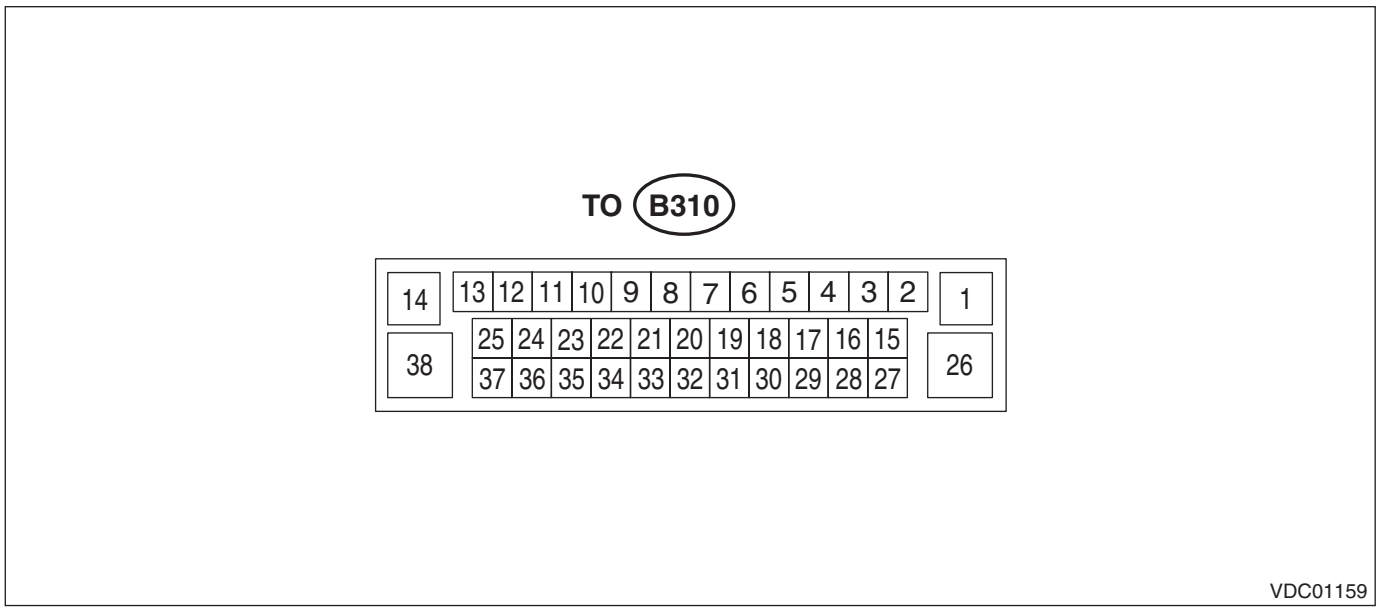
5. Control Module I/O Signal

A: ELECTRICAL SPECIFICATION

- Models without EyeSight



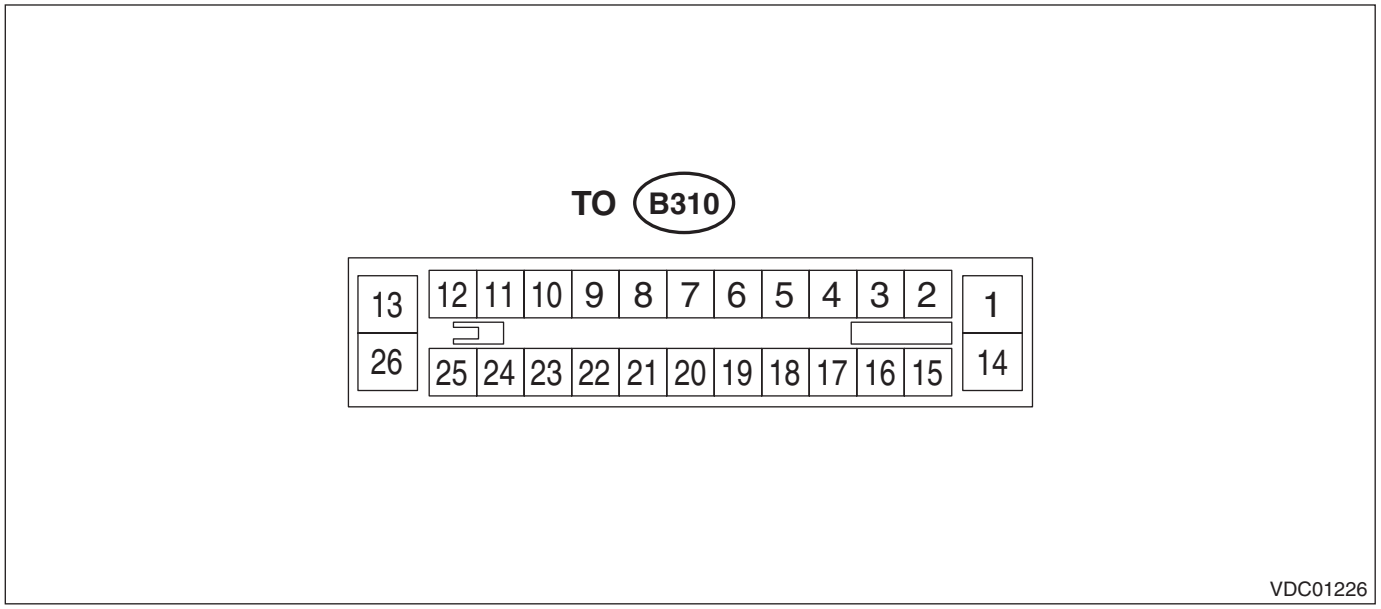
NOTE:

- 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.

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 when the ignition switch is ON.
		Signal	33 (*1)	7 — 14 mA: Rectangle waveform
		Signal	8 (*2)	7 — 14 mA: Rectangle waveform
	Front RH wheel	Power supply	17 — 14	0 — 18 V when the ignition switch is ON.
		Signal	29	7 — 14 mA: Rectangle waveform
	Rear LH wheel	Power supply	7 — 14	0 — 18 V when the ignition switch is ON.
		Signal	19	7 — 14 mA: Rectangle waveform
	Rear RH wheel	Power supply	18 — 14	0 — 18 V when the ignition switch is ON.
		Signal	5	7 — 14 mA: Rectangle waveform
CAN communication line (H)			2 — 14	2.75 — 4.5 V pulse signal when the ignition switch is ON.
CAN communication line (L)			15 — 14	0.5 — 2.25 V pulse signal when the ignition switch is ON.
Valve relay power supply			1 — 14	10 — 15 V
Motor relay power supply			26 — 38	10 — 15 V
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 — 14	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	—

*1: Gasoline engine model
*2: HEV model

- Models with EyeSight



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.

Content			Terminal No. (+) — (–)	Input/Output signal Measured value and measuring conditions
Power supply			7 — 13	10 — 15 V when the ignition switch is ON.
ABS wheel speed sensor	Front LH wheel	Power supply	22 — 13	0 — 18 V when the ignition switch is ON.
		Signal	21	7 — 14 mA: Rectangle waveform
	Front RH wheel	Power supply	18 — 13	0 — 18 V when the ignition switch is ON.
		Signal	19	7 — 14 mA: Rectangle waveform
	Rear LH wheel	Power supply	16 — 13	0 — 18 V when the ignition switch is ON.
		Signal	15	7 — 14 mA: Rectangle waveform
	Rear RH wheel	Power supply	24 — 13	0 — 18 V when the ignition switch is ON.
		Signal	25	7 — 14 mA: Rectangle waveform
CAN communication line (L)			8 — 13	0.5 — 2.25 V pulse signal when the ignition switch is ON.
CAN communication line (H)			10 — 13	2.75 — 4.5 V pulse signal when the ignition switch is ON.
Valve relay power supply			14 — 13	10 — 15 V
Motor relay power supply			1 — 13	10 — 15 V
Stop light switch			3 — 13	1.5 V or less when the stop light is OFF; otherwise, 10 — 15 V when the stop light is ON.
Subaru Select Monitor			5 — 13	0 ←→ 12 V pulse (during the communication)
Vehicle speed output signal			11 — 13	0 ←→ 12 V pulse
VDC OFF switch			9 — 13	0.5 Ω or less when the OFF switch is ON; 1 MΩ or more when the switch is OFF.
Ground			13	—

B: WIRING DIAGRAM

Refer to “Vehicle Dynamics Control System” in the wiring diagram. <Ref. to WI(w/o HEV)-222, Vehicle Dynamics Control System.> <Ref. to WI(HEV)-218, Vehicle Dynamics Control System.>