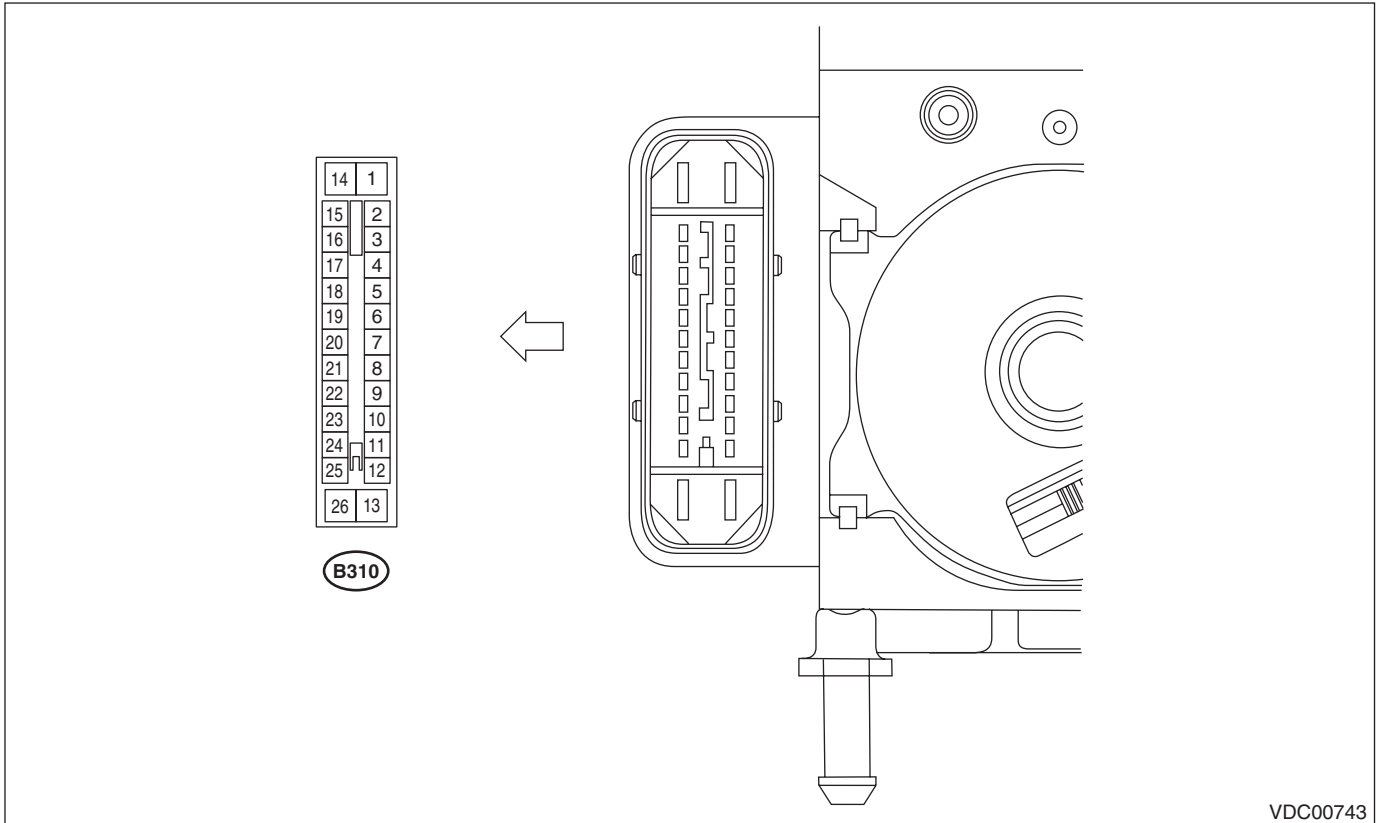


## Control Module I/O Signal

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

### 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 brake warning light (EBD warning light), ABS warning light, and VDC warning light & VDC indicator light illuminate.

# Control Module I/O Signal

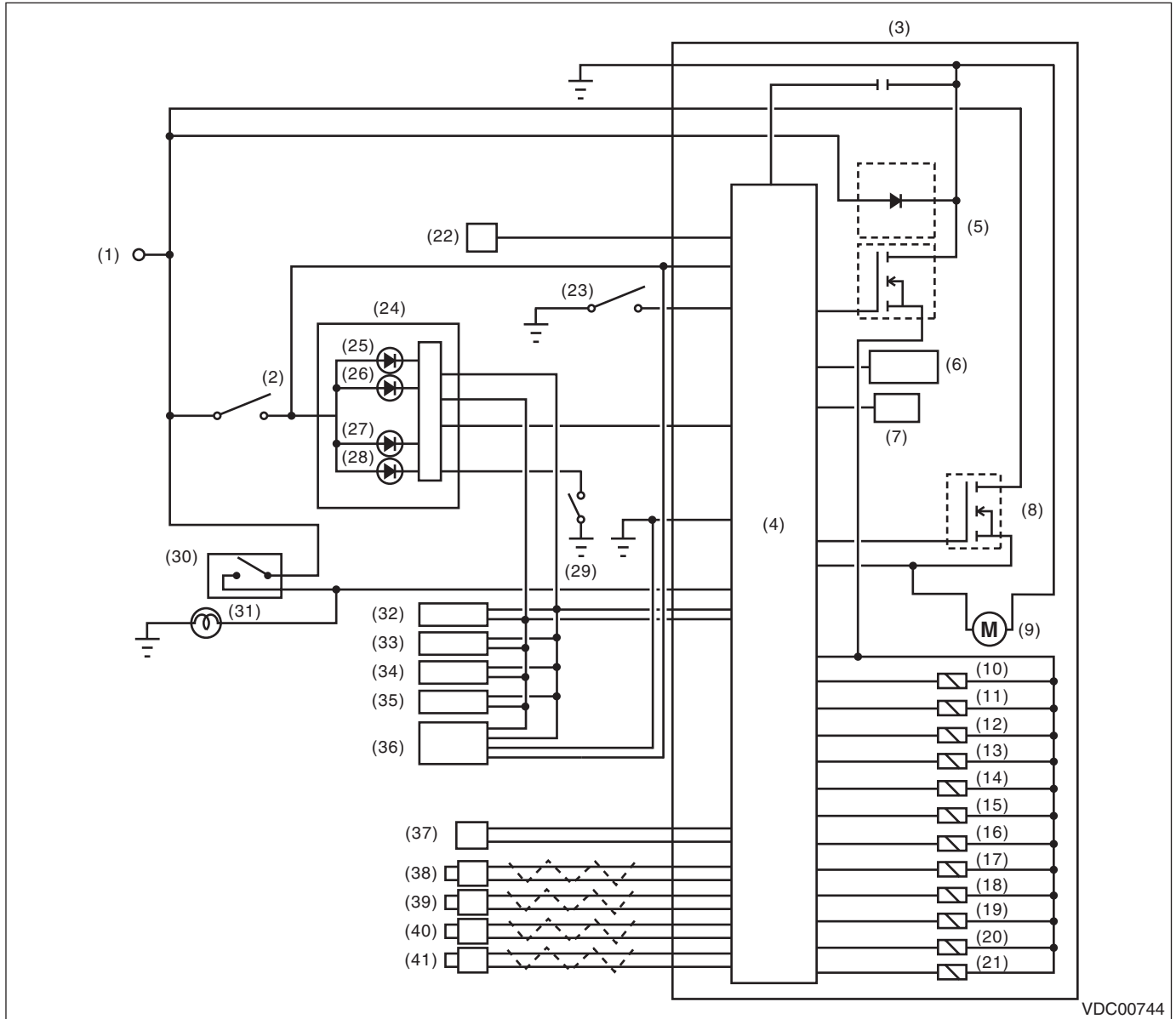
VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

| Content                           |                |              | Terminal No.<br>(+) — (–) | 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                                                                                  |
|                                   |                | Signal       | 21                        | 7 — 14 mA: Rectangle waveform                                                             |
|                                   | Front RH wheel | Power supply | 18 — 13                   | 0 — 18 V                                                                                  |
|                                   |                | Signal       | 19                        | 7 — 14 mA: Rectangle waveform                                                             |
|                                   | Rear LH wheel  | Power supply | 16 — 13                   | 0 — 18 V                                                                                  |
|                                   |                | Signal       | 15                        | 7 — 14 mA: Rectangle waveform                                                             |
|                                   | Rear RH wheel  | Power supply | 24 — 13                   | 0 — 18 V                                                                                  |
|                                   |                | Signal       | 25                        | 7 — 14 mA: Rectangle waveform                                                             |
| CAN communication line (L)        |                |              | 8                         | 0.5 — 2.25 V pulse signal                                                                 |
| CAN communication line (H)        |                |              | 10                        | 2.75 — 4.5 V pulse signal                                                                 |
| Valve relay power supply          |                |              | 14 — 13                   | 10 — 15 V when the ignition switch is ON.                                                 |
| Motor relay power supply          |                |              | 1 — 13                    | 10 — 15 V when the ignition switch is ON.                                                 |
| 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 (in communication)                                                         |
| Vehicle speed output signal       |                |              | 11                        | 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.             |
| Clutch stroke sensor power supply |                |              | 2 — 13                    | 4.8 — 5.2 V                                                                               |
| Clutch stroke sensor ground       |                |              | 23                        | —                                                                                         |
| Ground                            |                |              | 13                        | —                                                                                         |

# Control Module I/O Signal

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

## B: WIRING DIAGRAM



# Control Module I/O Signal

## VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

|                                                             |                                              |                                           |
|-------------------------------------------------------------|----------------------------------------------|-------------------------------------------|
| (1) Battery                                                 | (15) Rear outlet solenoid valve LH           | (29) Brake fluid level switch             |
| (2) Ignition switch                                         | (16) Rear inlet solenoid valve RH            | (30) Stop light switch                    |
| (3) VDC control module & hydraulic control unit (VDCCM&H/U) | (17) Rear outlet solenoid valve RH           | (31) Stop light                           |
| (4) VDC control module                                      | (18) Primary cut solenoid valve              | (32) Body integrated unit                 |
| (5) Valve relay                                             | (19) Primary suction solenoid valve          | (33) Engine control module (ECM)          |
| (6) Pressure sensor                                         | (20) Secondary cut solenoid valve            | (34) Transmission control module (TCM)    |
| (7) Yaw rate & G sensor                                     | (21) Secondary suction solenoid valve        | (35) Parking brake control module         |
| (8) Motor relay                                             | (22) Data link connector                     | (36) Steering angle sensor                |
| (9) Motor                                                   | (23) VDC OFF switch                          | (37) Clutch stroke sensor (MT model only) |
| (10) Front inlet solenoid valve LH                          | (24) Combination meter                       | (38) Front ABS wheel speed sensor LH      |
| (11) Front outlet solenoid valve LH                         | (25) VDC OFF indicator light                 | (39) Front ABS wheel speed sensor RH      |
| (12) Front inlet solenoid valve RH                          | (26) VDC warning light & VDC indicator light | (40) Rear ABS wheel speed sensor LH       |
| (13) Front outlet solenoid valve RH                         | (27) ABS warning light                       | (41) Rear ABS wheel speed sensor RH       |
| (14) Rear inlet solenoid valve LH                           | (28) Brake warning light (EBD warning light) |                                           |