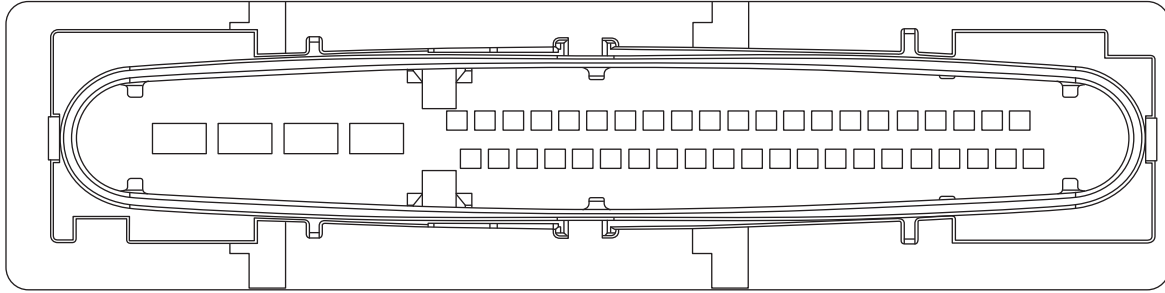


## Control Module I/O Signal

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

### 5. Control Module I/O Signal

#### A: ELECTRICAL SPECIFICATION



**B310**

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 22 | 23 | 24 | 25 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|    |    |    |    | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |

VDC00457

#### NOTE:

- Terminal numbers in VDCCM&H/U connector are shown in the figure.
- When the connector is removed from the VDCCM&H/U, the ABS warning light, VDC warning light, VDC OFF indicator light, and the hill start assist warning light illuminate.

# Control Module I/O Signal

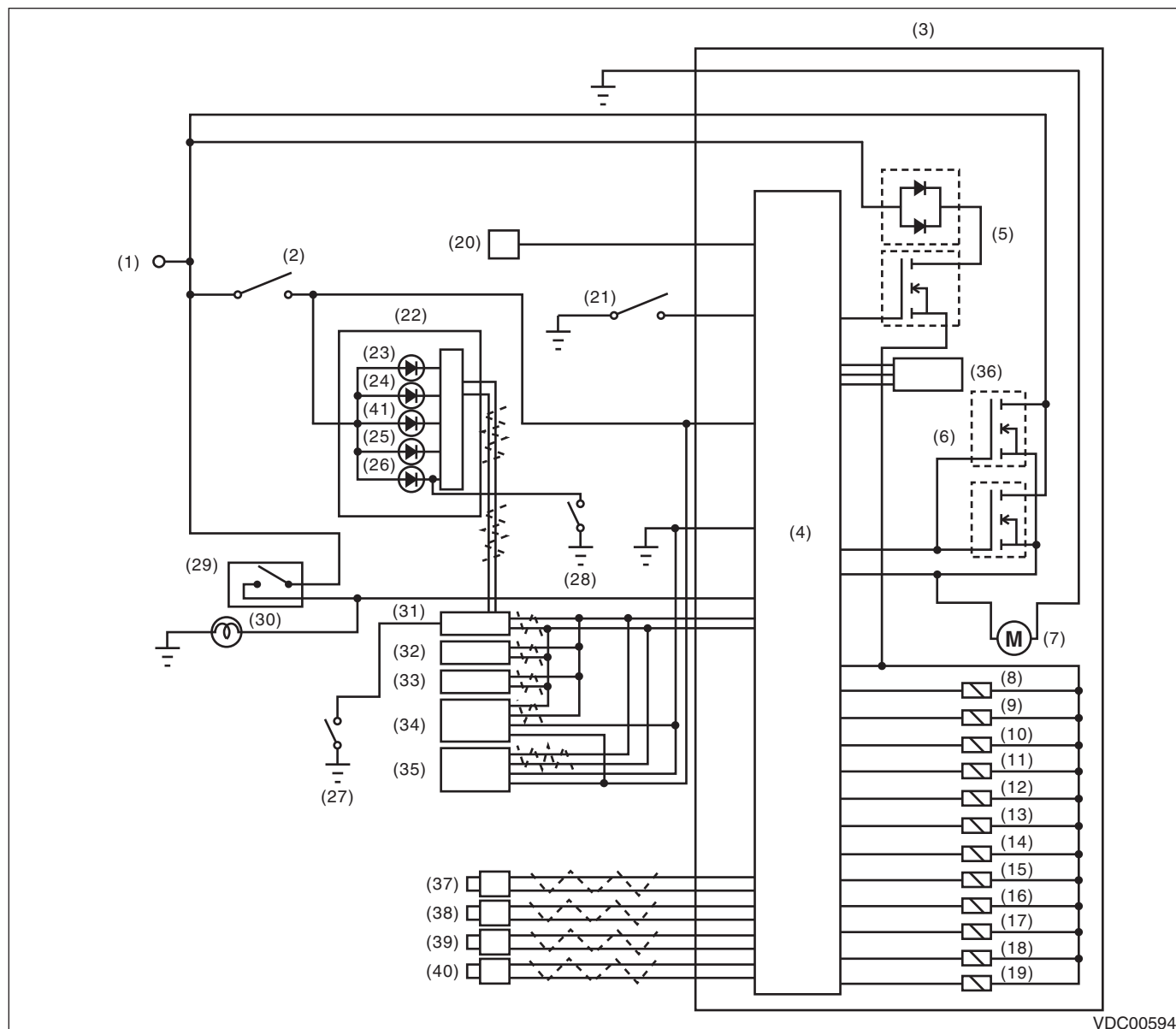
VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

| Content                     |                |              | Terminal No.<br>(+) — (–) | Input/Output signal                                                                          |
|-----------------------------|----------------|--------------|---------------------------|----------------------------------------------------------------------------------------------|
|                             |                |              |                           | Measured value and measuring conditions                                                      |
| Power supply                |                |              | 28 — 25                   | 10 — 15 V when the ignition switch is ON.                                                    |
| ABS wheel speed sensor      | Front LH wheel | Power supply | 26 — 25                   | 4.5 — 16.5 V                                                                                 |
|                             |                | Signal       | 1                         | 5.9 — 16.8 mA: Rectangle waveform                                                            |
|                             | Front RH wheel | Power supply | 5 — 25                    | 4.5 — 16.5 V                                                                                 |
|                             |                | Signal       | 6                         | 5.9 — 16.8 mA: Rectangle waveform                                                            |
|                             | Rear LH wheel  | Power supply | 2 — 25                    | 4.5 — 16.5 V                                                                                 |
|                             |                | Signal       | 27                        | 5.9 — 16.8 mA: Rectangle waveform                                                            |
|                             | Rear RH wheel  | Power supply | 3 — 25                    | 4.5 — 16.5 V                                                                                 |
|                             |                | Signal       | 4                         | 5.9 — 16.8 mA: Rectangle waveform                                                            |
| CAN communication line (+)  |                |              | 35                        | 2.5 — 1.5 V pulse signal                                                                     |
| CAN communication line (–)  |                |              | 10                        | 3.5 — 2.5 V pulse signal                                                                     |
| Valve relay power supply    |                |              | 24 — 25                   | 10 — 15 V when the ignition switch is ON.                                                    |
| Motor relay power supply    |                |              | 23 — 22                   | 10 — 15 V when the ignition switch is ON.                                                    |
| Stop light switch           |                |              | 30 — 25                   | 1.5 V or less when the stop light is OFF; otherwise,<br>10 — 15 V when the stop light is ON. |
| Subaru Select Monitor       |                |              | 7 — 25                    | 0 ↔ 12 V pulse (in communication)                                                            |
| Vehicle speed output signal |                |              | 33                        | 0 ↔ 12 V pulse                                                                               |
| Ground                      |                |              | 25                        | —                                                                                            |

# Control Module I/O Signal

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

## B: WIRING DIAGRAM



VDC00594

- |                                                               |                                                    |                                                      |
|---------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------|
| (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                          | (41) Hill start assist warning light (MT model only) |
| (14) Rear inlet solenoid valve RH                             | (28) Brake fluid level switch                      |                                                      |