

# General Description

VEHICLE DYNAMICS CONTROL (VDC)

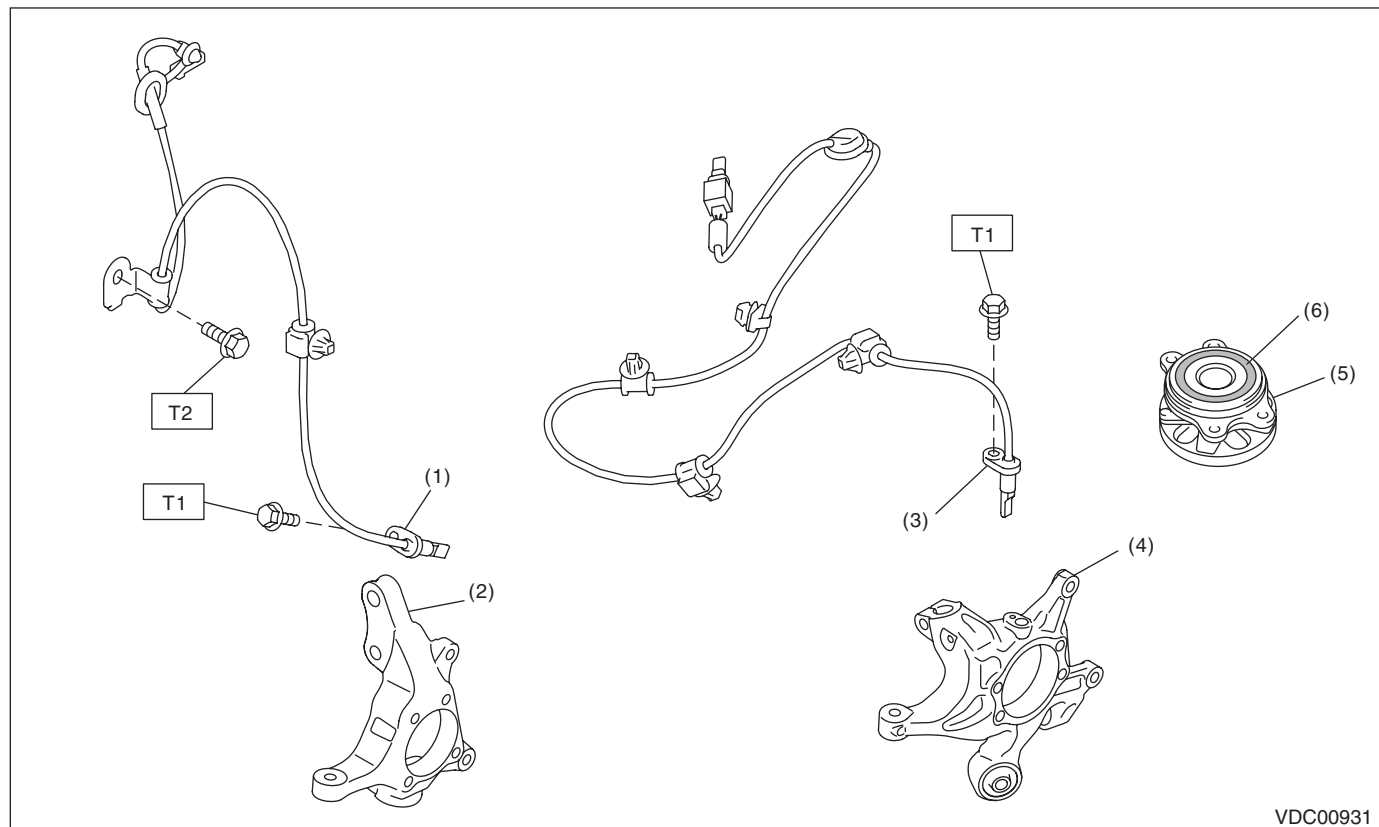
## 1. General Description

### A: SPECIFICATION

Item				Specification or identification
ABS wheel speed sensor	ABS wheel speed sensor gap (for reference)	Front		0.77 — 1.43 mm (0.030 — 0.056 in)
		Rear		0.44 — 1.76 mm (0.017 — 0.069 in)
	Identifications of harness (marks, color)	Front	RH	Z1 (orange)
			LH	Z2 (green)
		Rear	RH	Z3 (orange)
			LH	Z4 (green)
VDCCM&H/U Identification			CVT model	X7
			MT model	X6

### B: COMPONENT

#### 1. ABS WHEEL SPEED SENSOR



VDC00931

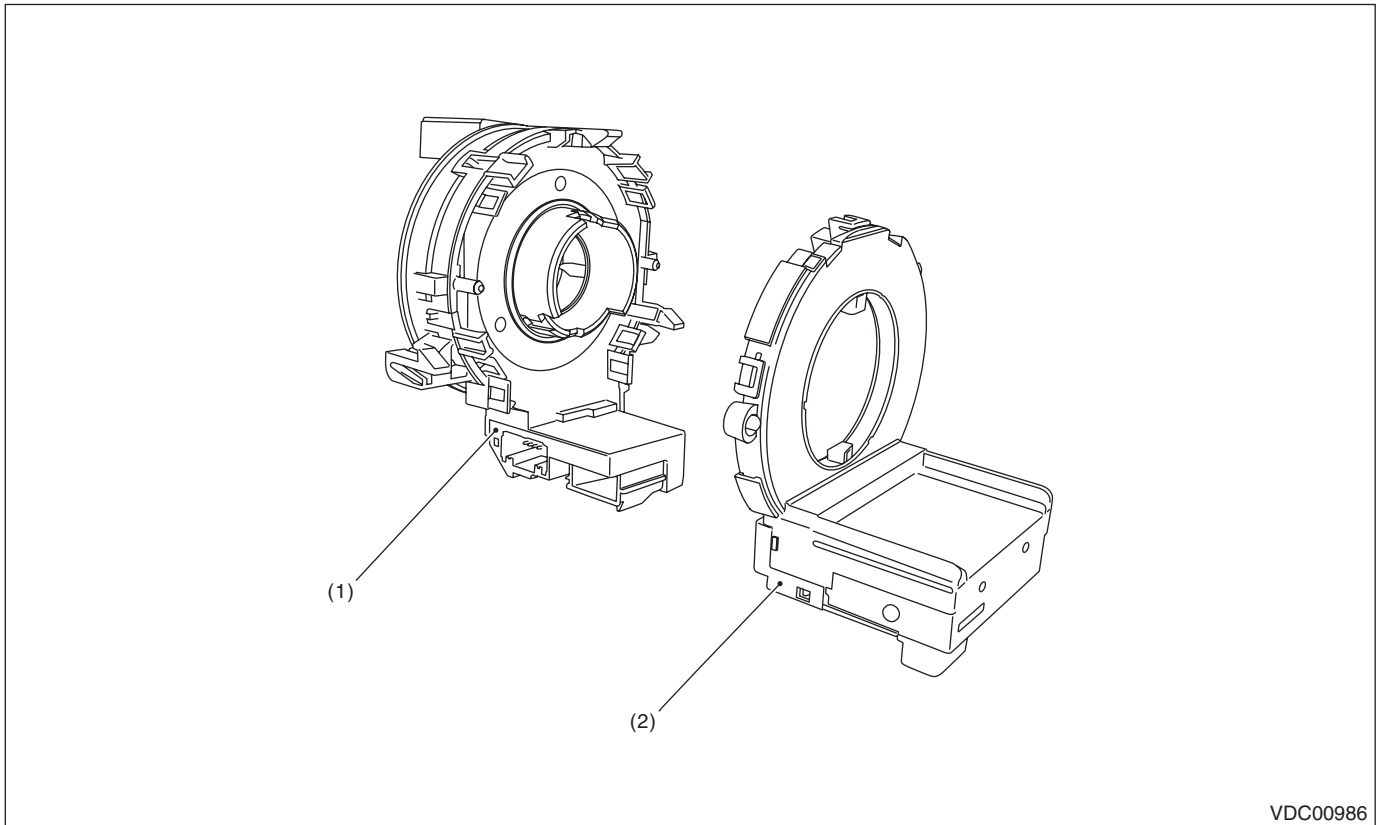
- |                                  |                              |
|----------------------------------|------------------------------|
| (1) Front ABS wheel speed sensor | (4) Housing ASSY - rear axle |
| (2) Housing ASSY - front axle    | (5) Hub unit COMPL           |
| (3) Rear ABS wheel speed sensor  | (6) Magnetic encoder         |

**Tightening torque: N·m (kgf-m, ft-lb)**

**T1: 7.5 (0.76, 5.5)**

**T2: 33 (3.36, 24.3)**

## 2. STEERING ANGLE SENSOR



VDC00986

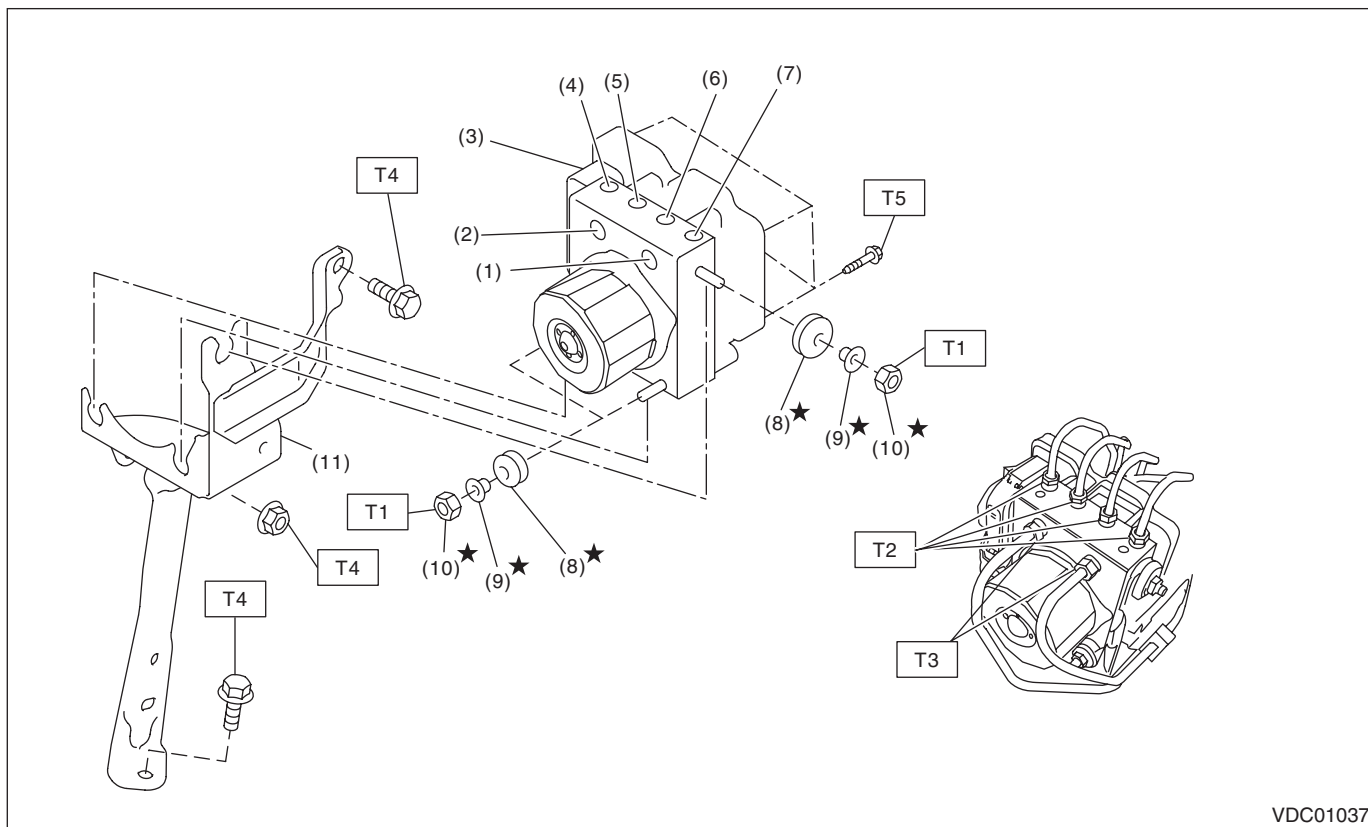
(1) Steering roll connector

(2) Steering angle sensor

## General Description

### VEHICLE DYNAMICS CONTROL (VDC)

### 3. VDC CONTROL MODULE & HYDRAULIC CONTROL UNIT (VDCCM&H/U)



- |   |                               |
|---|-------------------------------|
| (1) Primary inlet   | (7) Rear LH outlet            |
| (2) Secondary inlet   | (8) Damper - hydraulic unit   |
| (3) VDC control module and hydraulic control unit (VDCCM&H/U) | (9) Spacer                    |
| (4) Rear RH outlet  | (10) Nut                      |
| (5) Front LH outlet   | (11) Bracket - hydraulic unit |
| (6) Front RH outlet   |                               |

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**Tightening torque: N·m (kgf-m, ft-lb)****T1: 7.5 (0.76, 5.5)****T2: 15 (1.53, 11.1)****T3: 19 (1.94, 14.0)****T4: 33 (3.36, 24.3)****T5: <Ref. to VDC-15, REPLACEMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>**

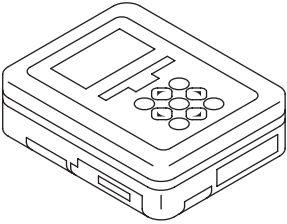
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### C: CAUTION

- Wear appropriate work clothing, including a helmet, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from battery.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- When removing, installing or replacing the VDCCM&H/U, VDCCM&H/U bracket, steering wheel or steering angle sensor, perform "VDC sensor midpoint setting mode" of the VDC. <Ref. to VDC-18, VDC SENSOR MID-POINT SETTING MODE, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

### D: PREPARATION TOOL

#### 1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for setting of each function and troubleshooting for electrical system.

#### 2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance and voltage.
Pressure gauge	Used for measuring oil pressure.
Oscilloscope	Used for measuring the sensor.
Steering wheel puller	Used for removing the steering wheel.