

# General Description

## VEHICLE DYNAMICS CONTROL (VDC)

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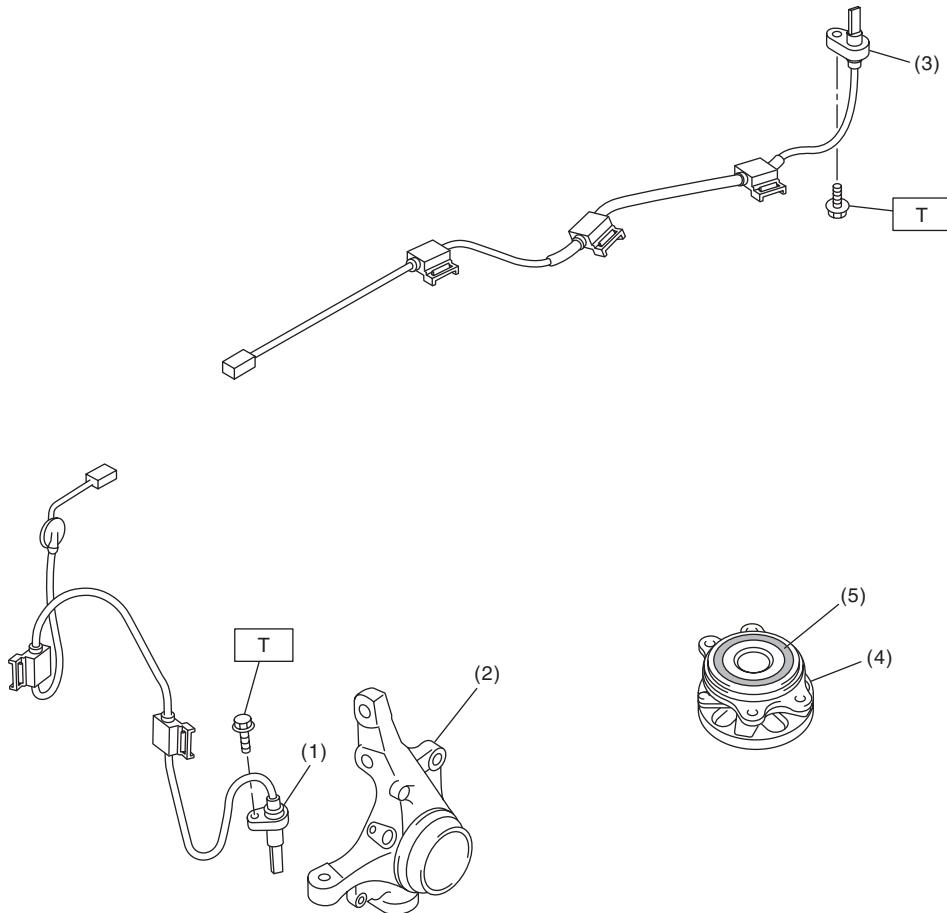
### 1. General Description

#### A: SPECIFICATION

Item		Specification or identification	
ABS wheel speed sensor	ABS wheel speed sensor gap (for reference)	Front	0.55 — 1.45 mm (0.022 — 0.057 in)
	Rear	0.50 — 1.50 mm (0.020 — 0.059 in)	
	Identifications of harness (marks, color)	Front	W1 (White)
		Rear	W3 (White)
VDCCM&H/U Identification		W2 or W3	

## B: COMPONENT

### 1. ABS WHEEL SPEED SENSOR



VDC00340

(1) Front ABS wheel speed sensor  
(2) Front housing  
(3) Rear ABS wheel speed sensor

(4) Hub unit bearing  
(5) Magnetic encoder

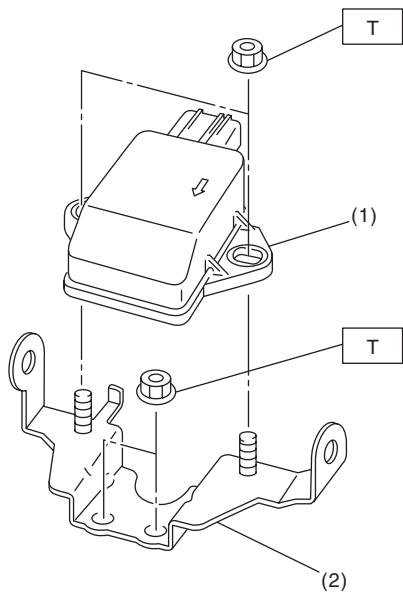
**Tightening torque:N·m (kgf·m, ft·lb)**  
**T: 7.5 (0.76, 5.5)**

# General Description

## VEHICLE DYNAMICS CONTROL (VDC)

### 2. YAW RATE & LATERAL G SENSOR

- VDC control module identification mark W2



VDC00341

(1) Yaw rate & lateral G sensor

(2) Bracket

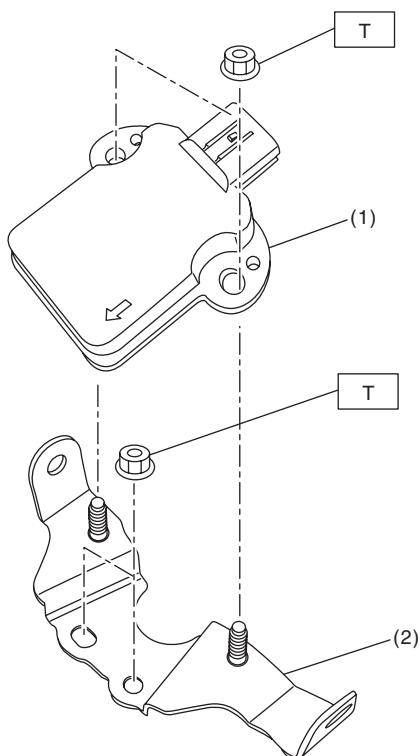
***Tightening torque:N·m (kgf·m, ft-lb)***

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

# General Description

VEHICLE DYNAMICS CONTROL (VDC)

- VDC control module identification mark W3



VDC00633

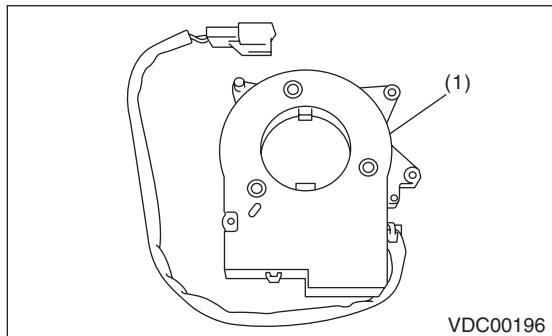
(1) Yaw rate & lateral G sensor

(2) Bracket

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

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

## 3. STEERING ANGLE SENSOR



VDC00196

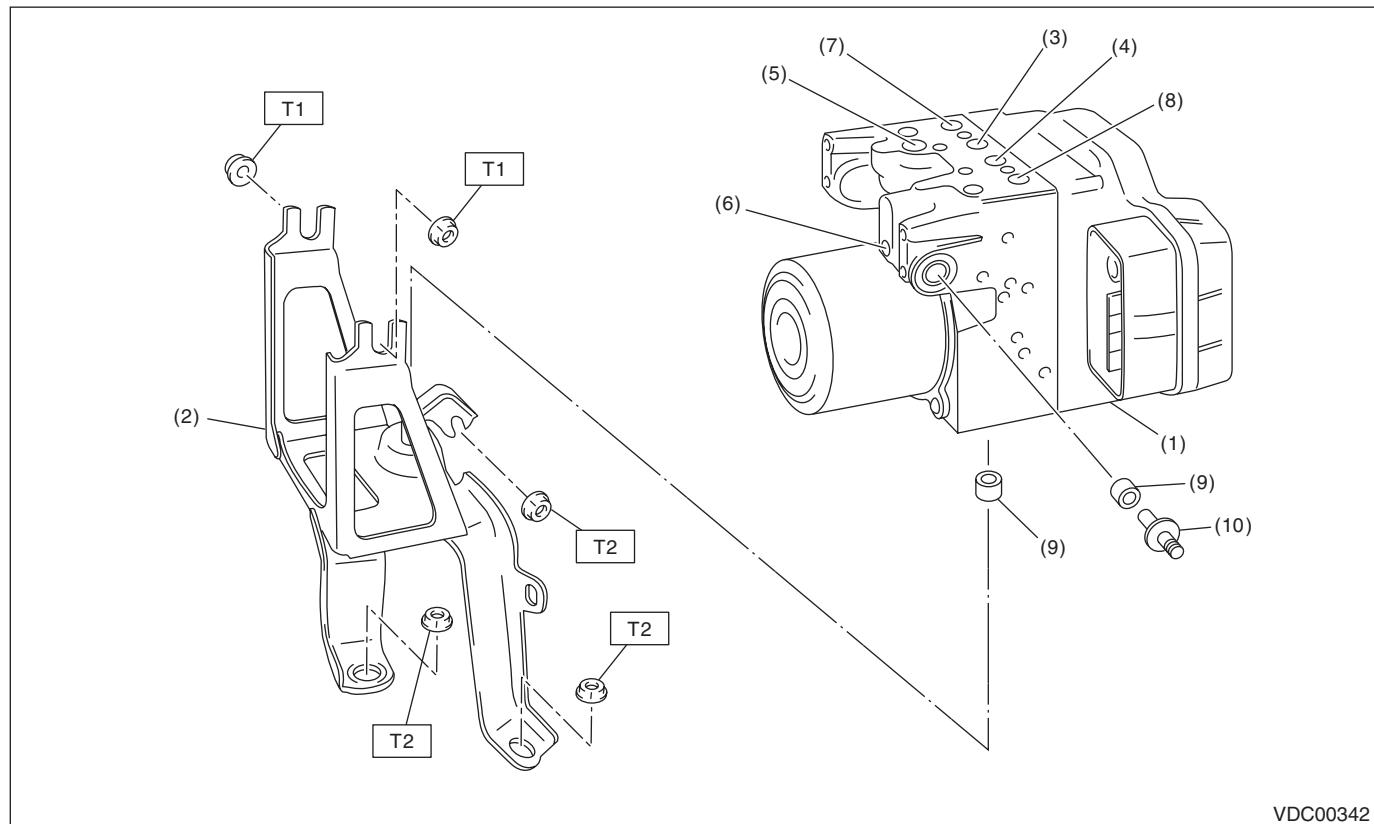
(1) Steering angle sensor

# General Description

## VEHICLE DYNAMICS CONTROL (VDC)

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

- VDC control module identification mark W2



VDC00342

(1) VDC control module & hydraulic control unit (VDCCM&H/U)  
(2) Bracket  
(3) Rear RH outlet  
(4) Rear LH outlet

(5) Secondary inlet  
(6) Primary inlet  
(7) Front LH outlet  
(8) Front RH outlet  
(9) Damper

(10) Stud bolt

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

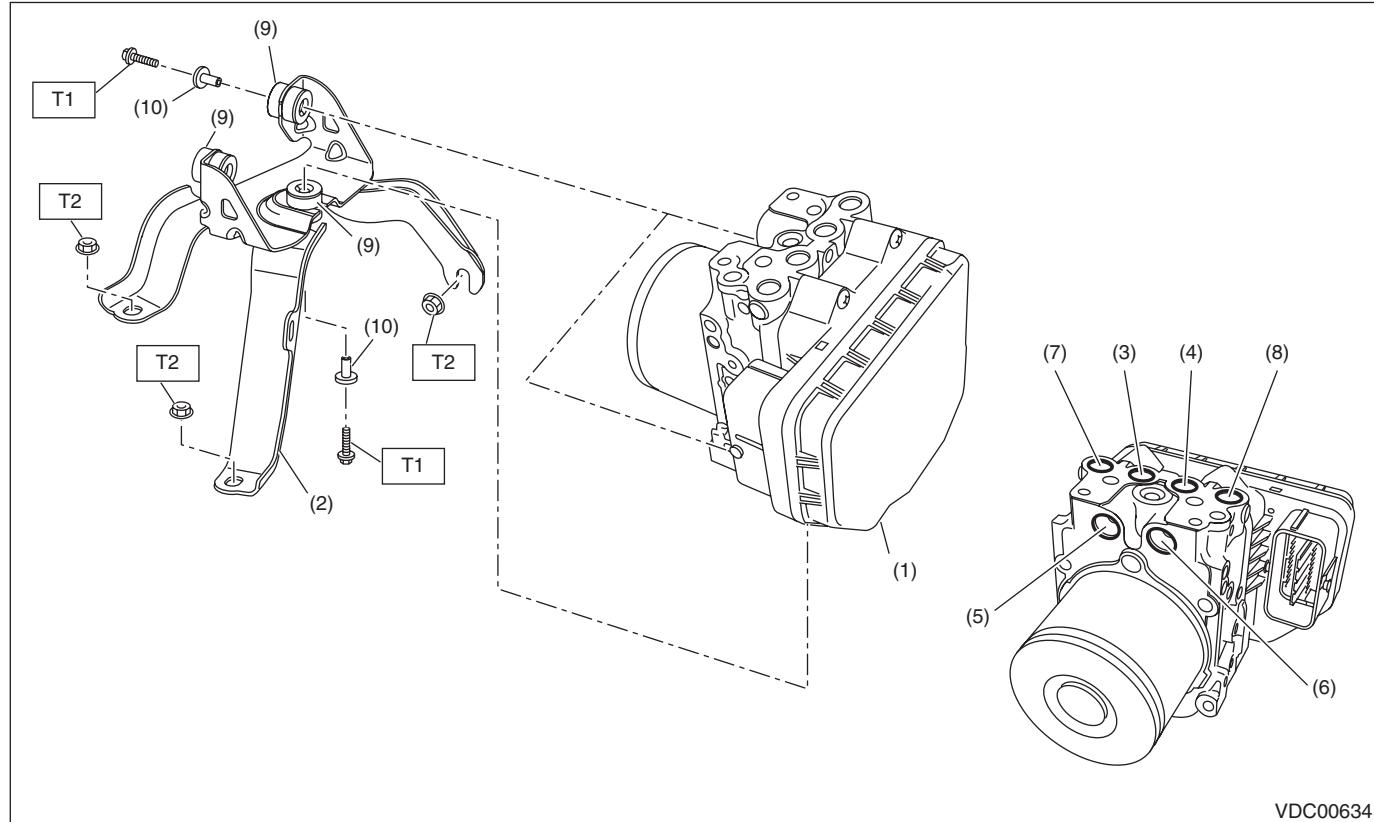
***T1: 7.5 (0.76, 5.5)***

***T2: 33 (3.4, 24)***

## General Description

## VEHICLE DYNAMICS CONTROL (VDC)

- VDC control module identification mark W3



- (1) VDC control module & hydraulic control unit (VDCCM&H/U)
- (2) Bracket
- (3) Rear RH outlet
- (4) Rear LH outlet

- (5) Secondary inlet
- (6) Primary inlet
- (7) Front LH outlet
- (8) Front RH outlet
- (9) Damper

(10) Spacer

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

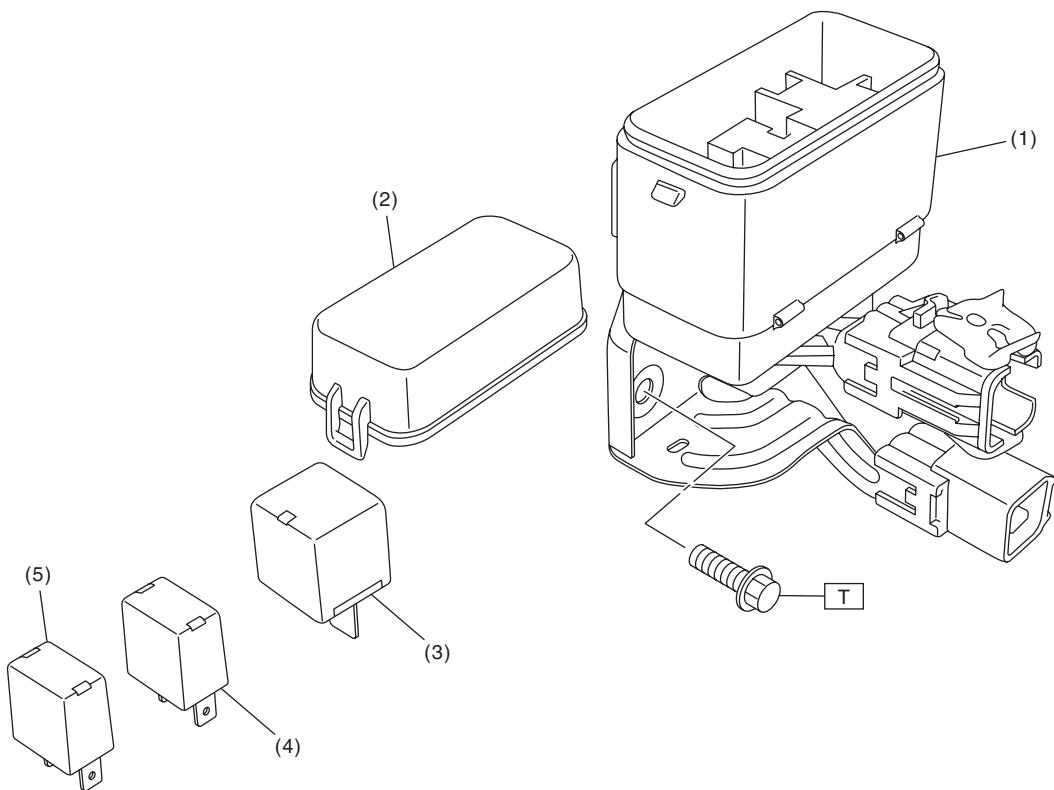
**T1:** 7.5 (0.76, 5.5)

T2: 33 (3.4, 24)

## General Description

### VEHICLE DYNAMICS CONTROL (VDC)

#### 5. RELAY BOX (VDC CONTROL MODULE IDENTIFICATION MARK W2)



VDC00387

- (1) Relay box
- (2) Cover
- (3) Motor relay (blue)

- (4) Fuel safe relay (green)
- (5) Vacuum pump relay (black)

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

***T: 18 (1.8, 13.0)***

## C: CAUTION

Please understand and adhere to the following general precautions. They must be strictly followed to avoid any injury to the person performing the work or persons in the area.

### 1. OPERATION

- Wear appropriate work clothing, including a cap, 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 the 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.

### 2. OIL

When handling oil, follow the rules below to prevent unexpected accidents.

- Prepare container and waste cloths when performing work which oil could possibly spill. If oil spills, wipe it off immediately to prevent from penetrating into floor or flowing outside, for environmental protection.
- Follow all government and local regulations concerning waste disposal.

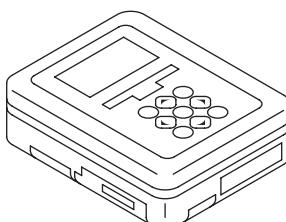
### 3. BRAKE FLUID

If brake fluid gets in your eyes or on your skin, do the following:

- Wash out your eyes and seek immediate medical attention.
- Wash your skin with soap and then rinse thoroughly with water.
- Follow all government and local regulations concerning waste disposal.

## D: PREPARATION TOOL

### 1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B022XU0	1B022XU0 (Newly adopted tool)	SUBARU SELECT MONITOR III KIT	Used for troubleshooting the electrical system.

### 2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance, voltage and current.
Pressure gauge	Used for measuring oil pressure.
Oscilloscope	Used for measuring the sensor.