

# General Description

VEHICLE DYNAMICS CONTROL (VDC)

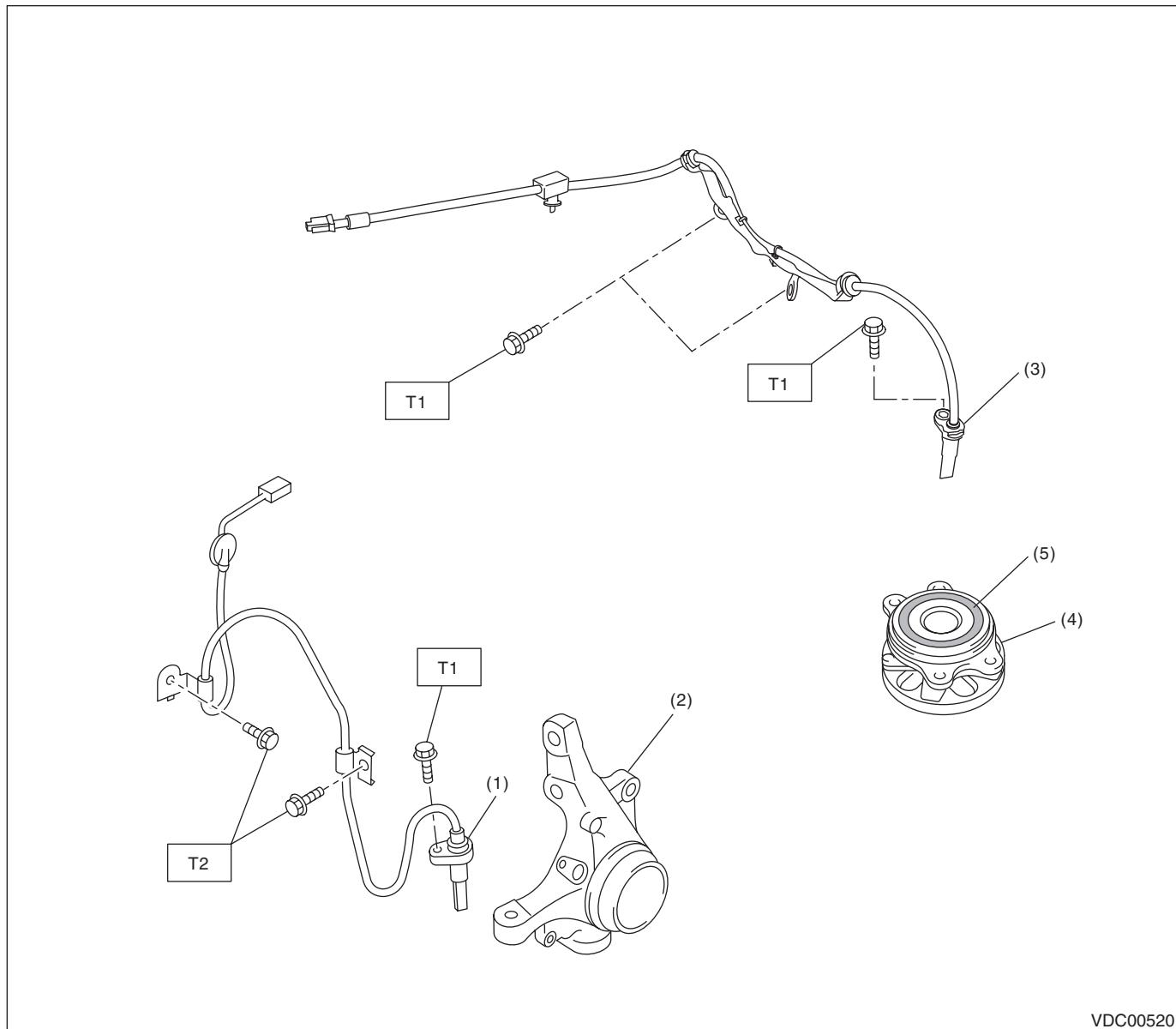
## 1. General Description

### 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		0.43 — 1.78 mm (0.017 — 0.070 in)	
ABS wheel speed sensor	Identifications of harness (marks, color)	Front	RH	K1 (White)	
			LH	K2 (Yellow)	
		Rear	RH	P5 (White)	
			LH	P6 (Yellow)	
VDCCM&H/U Identification		AT		S1	
VDCCM&H/U Identification		MT		S2	

## B: COMPONENT

### 1. ABS WHEEL SPEED SENSOR



VDC00520

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

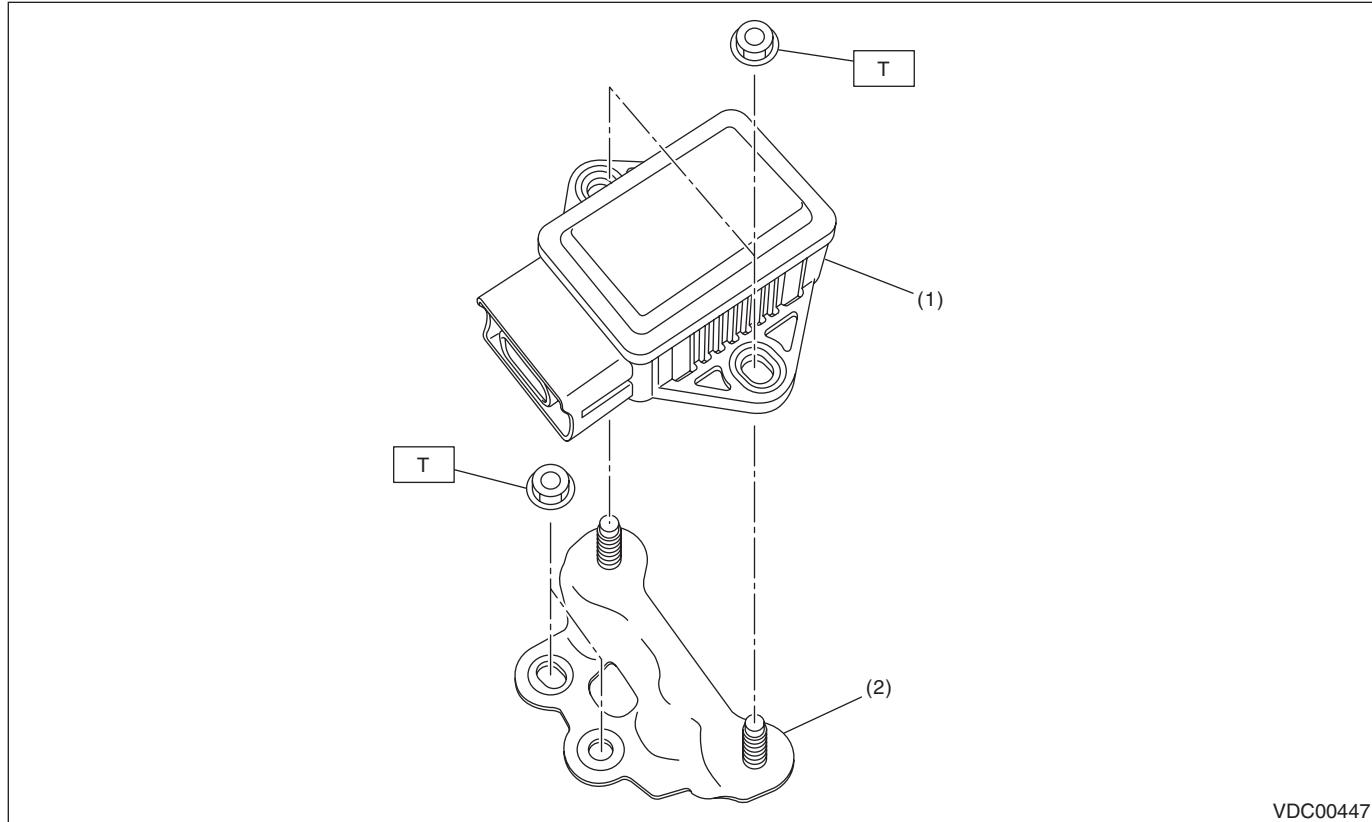
- (4) Hub unit bearing
- (5) Magnetic encoder

**Tightening torque: N·m (kgf·m, ft-lb)**  
**T1: 7.5 (0.76, 5.5)**  
**T2: 33 (3.4, 24.3)**

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### 2. YAW RATE & G SENSOR



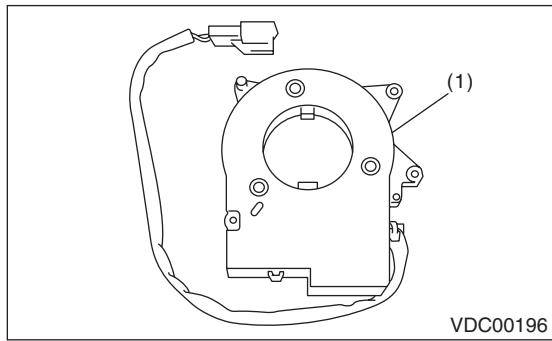
(1) Yaw rate & G sensor

(2) Bracket

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

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

### 3. STEERING ANGLE SENSOR

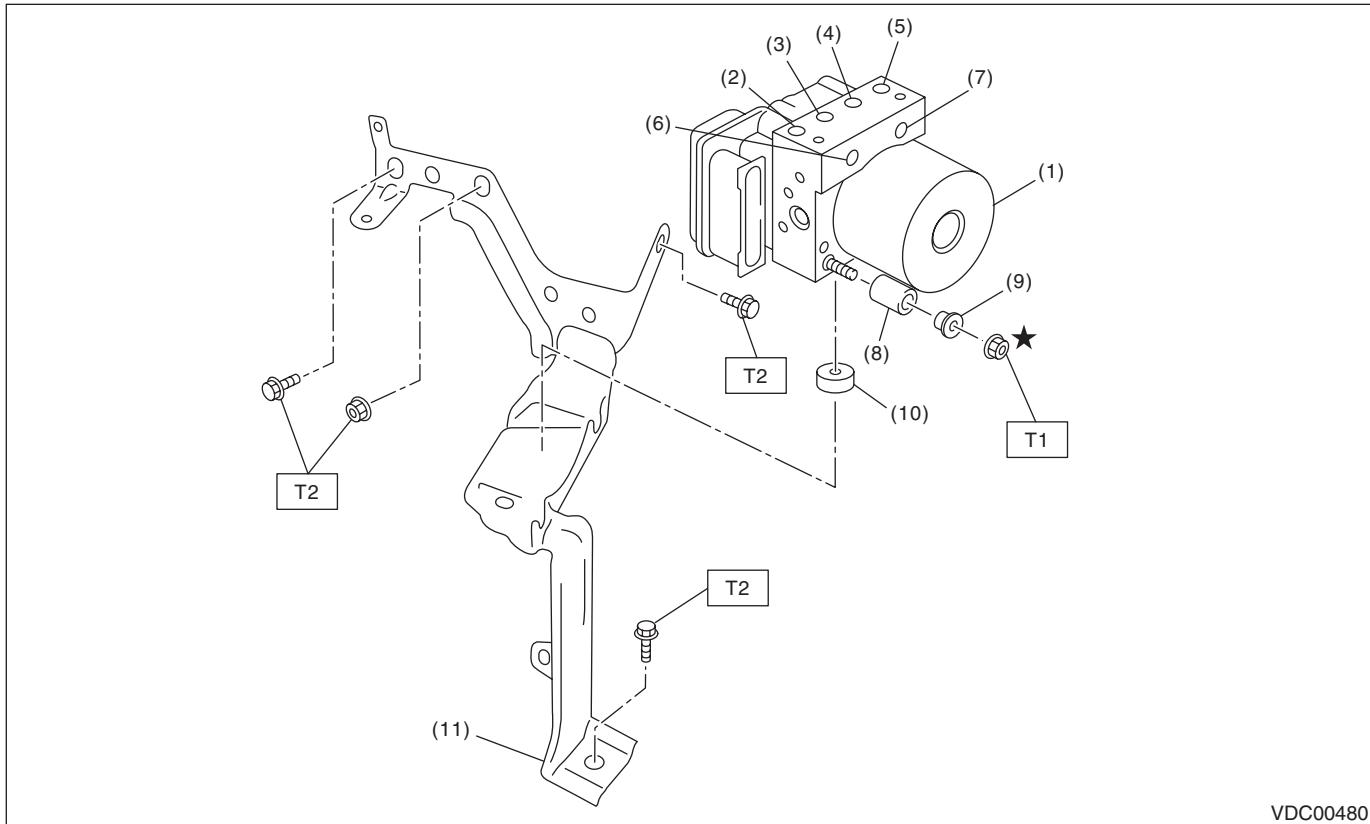


(1) Steering angle sensor

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



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

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

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

**T2: 33 (3.4, 24.3)**

# General Description

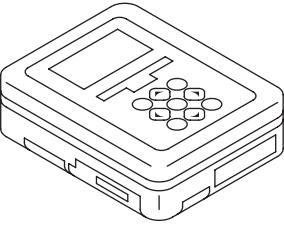
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### C: CAUTION

- 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 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.

### D: PREPARATION TOOL

#### 1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B022XU0	1B022XU0	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.
TORX® bit E5	Used for replacing VDC control module.