

General Description

VEHICLE DYNAMICS CONTROL (VDC)

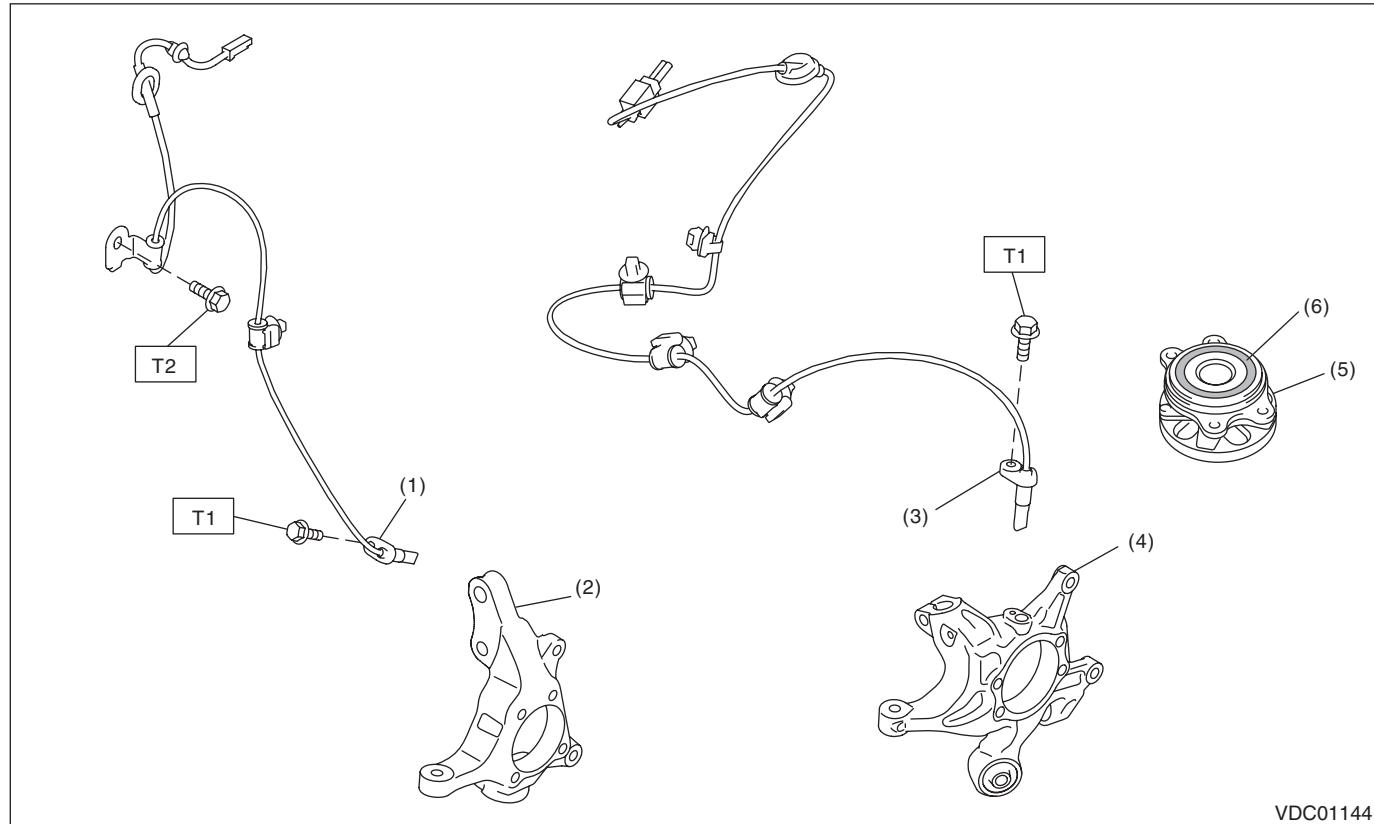
1. General Description

A: SPECIFICATION

Item			Specification or identification	
ABS wheel speed sensor	ABS wheel speed sensor gap (for reference)		Front	
	Rear		0.77 — 1.43 mm (0.030 — 0.056 in)	
Identifications of harness (symbol)	Front	RH		Z1
		LH		Z2
	Rear	RH		Z5
		LH		Z6
VDCCM&H/U identification	MT model			B2
	CVT model	Model without X mode		B1
		Model with X mode		B3 or B9
Models with EyeSight			B7	

B: COMPONENT

1. ABS WHEEL SPEED SENSOR



VDC01144

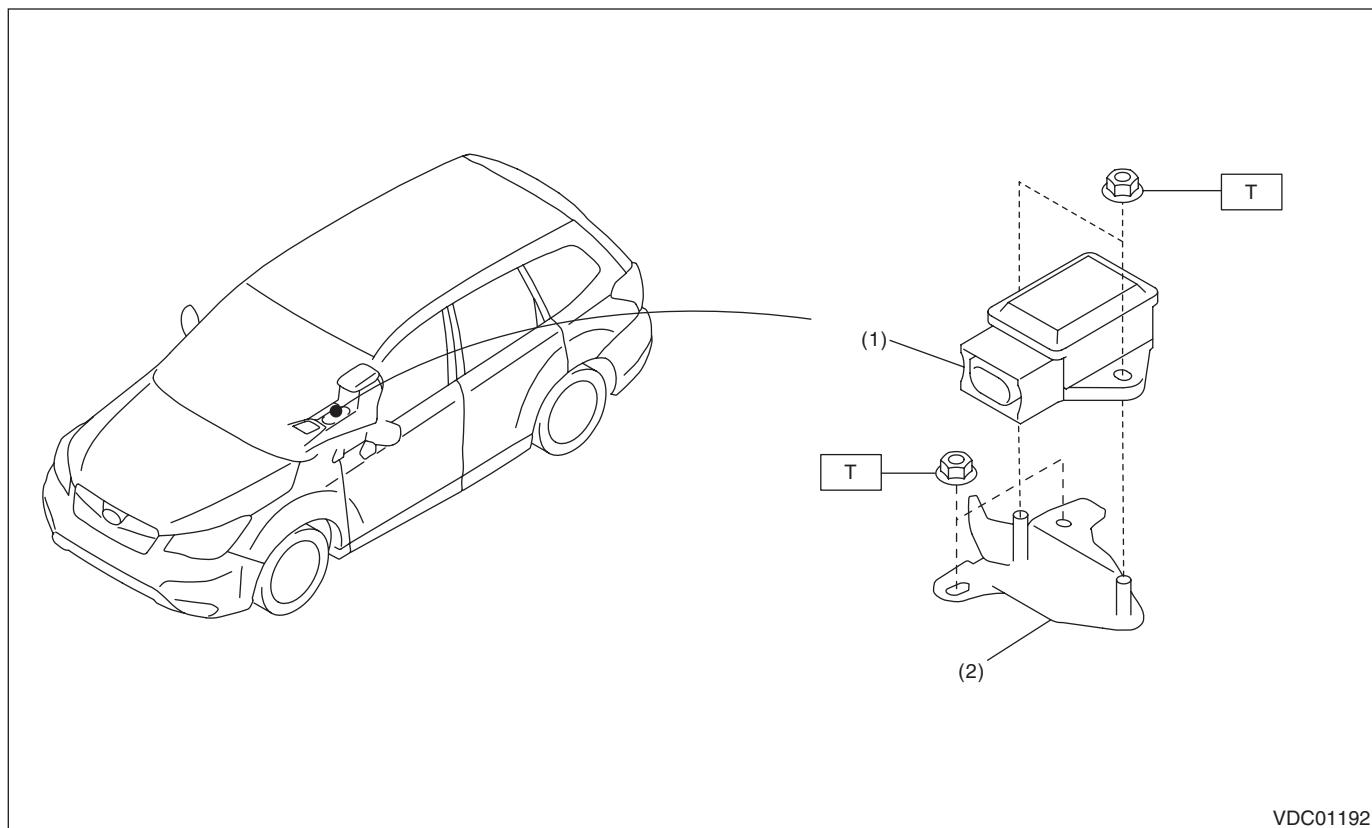
- (1) Front ABS wheel speed sensor
- (2) Housing ASSY - front axle
- (3) Rear ABS wheel speed sensor

- (4) Housing ASSY - rear axle
- (5) Hub unit COMPL
- (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. YAW RATE & G SENSOR

Models with EyeSight only



VDC01192

(1) Yaw rate & G sensor

(2) Bracket

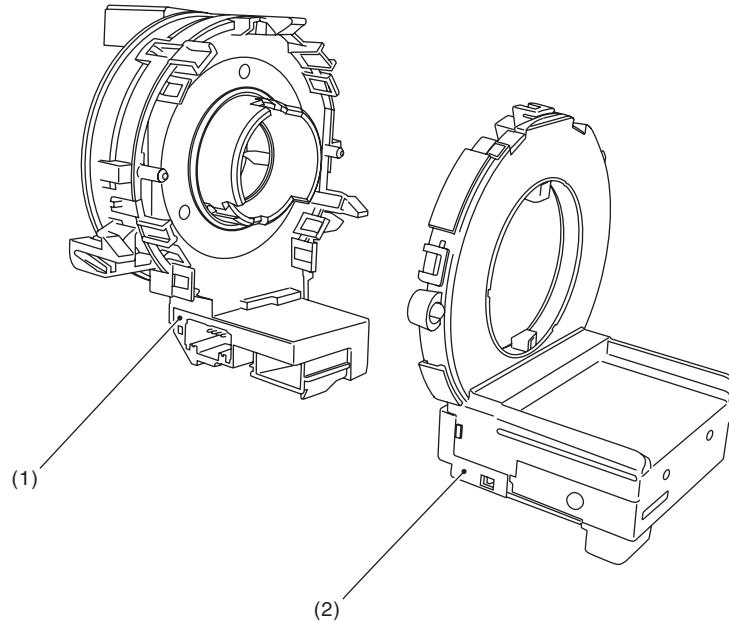
Tightening torque: N·m (kgf·m, ft·lb)

T: 7.5 (0.76, 5.5)

General Description

VEHICLE DYNAMICS CONTROL (VDC)

3. STEERING ANGLE SENSOR



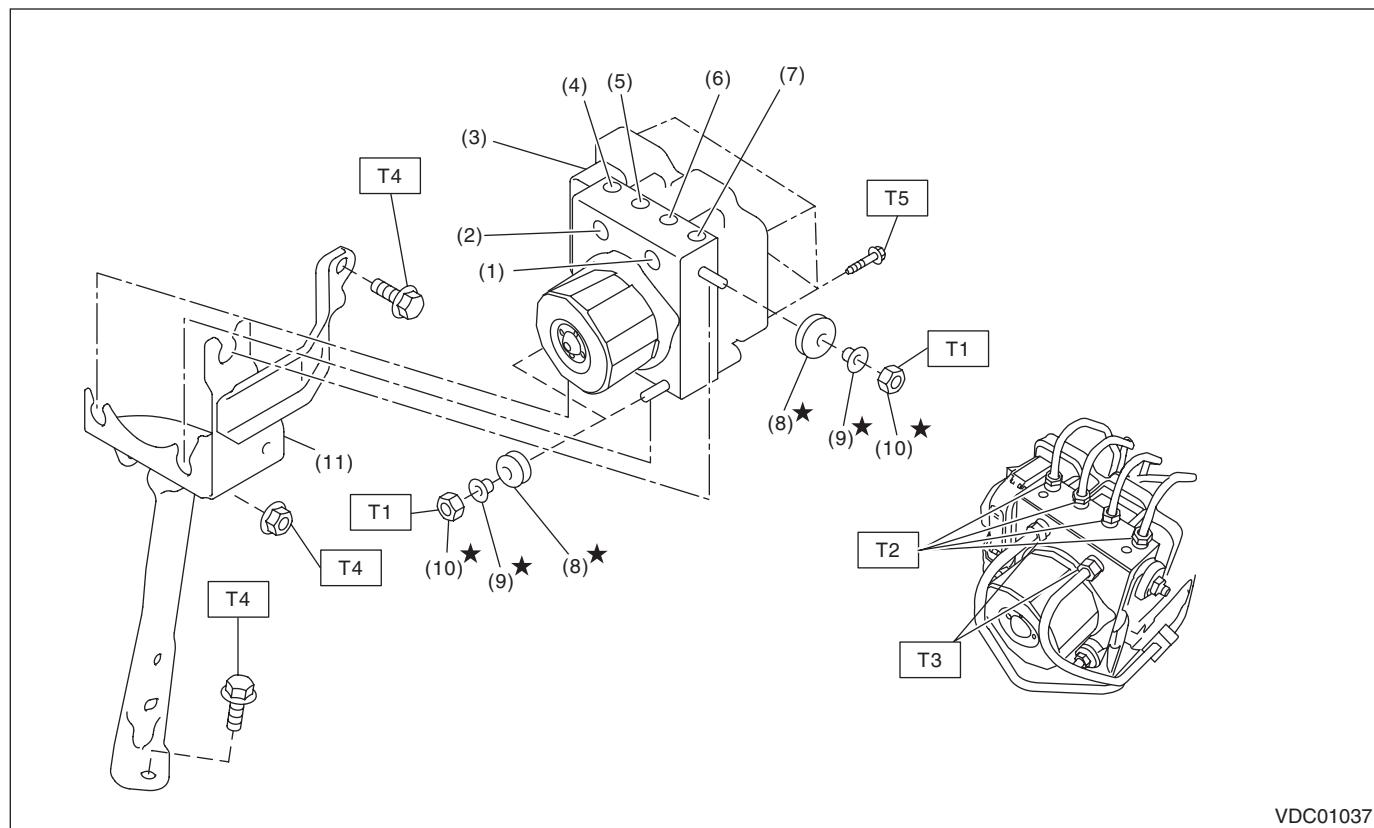
VDC00986

(1) Steering roll connector

(2) Steering angle sensor

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

- Models without EyeSight



VDC01037

(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	

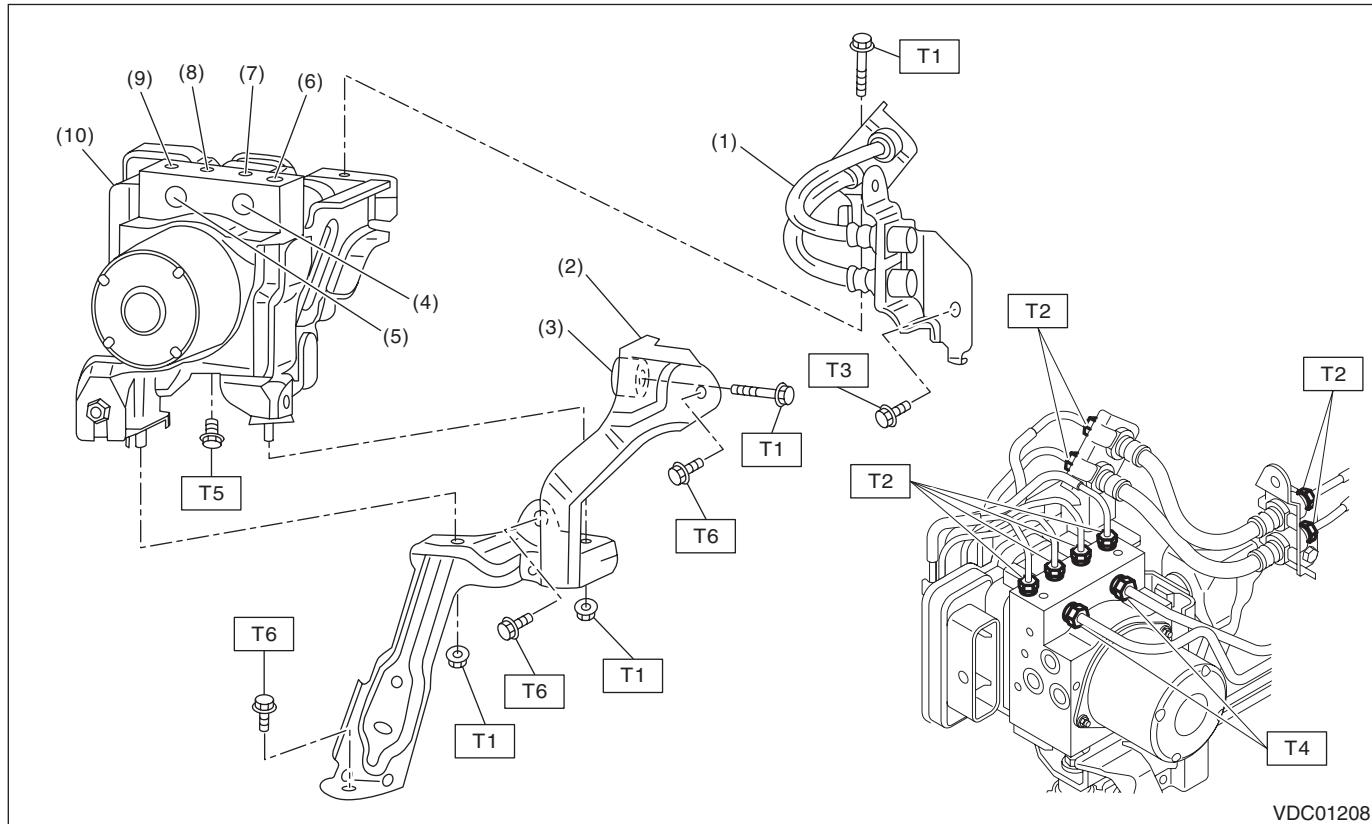
Tightening torque: N·m (kgf·m, ft·lb)

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-20, REPLACEMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

General Description

VEHICLE DYNAMICS CONTROL (VDC)

- Models with EyeSight



(1) Hose ASSY	(8) Front LH outlet	Tightening torque: N·m (kgf·m, ft·lb)
(2) Bracket - hydraulic unit	(9) Rear RH outlet	T1: 7.5 (0.76, 5.5)
(3) Damper - hydraulic unit	(10) VDC control module and hydraulic control unit (VDCCM&H/U)	T2: 15 (1.53, 11.1)
(4) Primary inlet		T3: 18 (1.84, 13.3)
(5) Secondary inlet		T4: 19 (1.94, 14.0)
(6) Rear LH outlet		T5: 27 (2.75, 19.9)
(7) Front RH outlet		T6: 33 (3.36, 24.3)

Tightening torque: N·m (kgf·m, ft·lb)

T1: 7.5 (0.76, 5.5)

T2: 15 (1.53, 11.1)

T3: 18 (1.84, 13.3)

T4: 19 (1.94, 14.0)

T5: 27 (2.75, 19.9)

T6: 33 (3.36, 24.3)

C: CAUTION

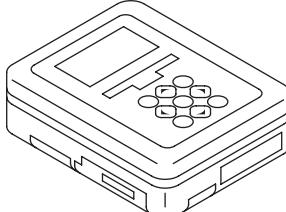
- Wear appropriate work clothing, including a helmet, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before 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-23, ADJUSTMENT, VDC Control Module and Hydraulic Control Unit (VDCCM&H/U).>

General Description

VEHICLE DYNAMICS CONTROL (VDC)

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.