

General Description

VEHICLE DYNAMICS CONTROL (VDC)

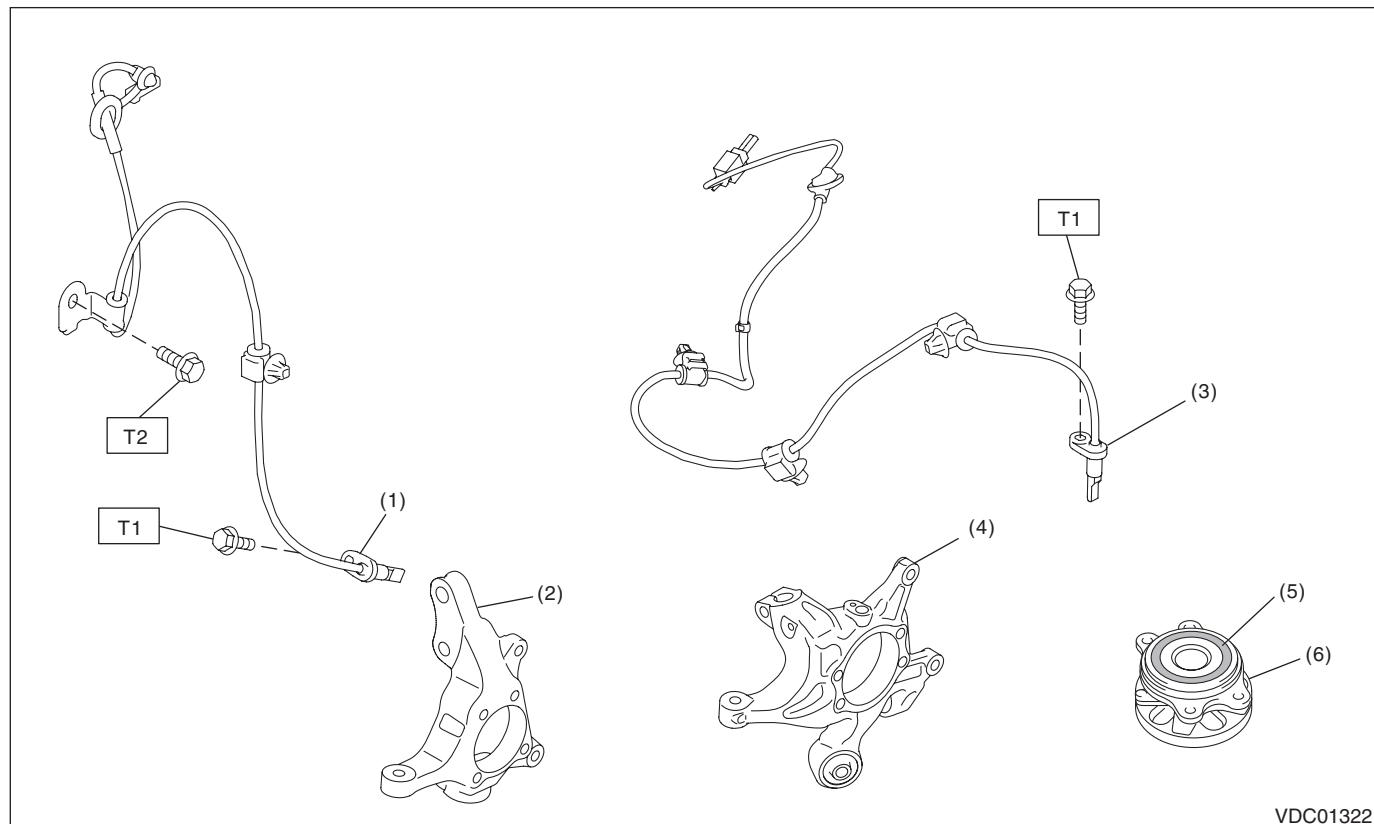
1. General Description

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 (symbol)	Front	RH	G1
		LH	G2
	Rear	RH	G3
		LH	G4
VDCCM&H/U identification			P1

B: COMPONENT

1. ABS WHEEL SPEED SENSOR

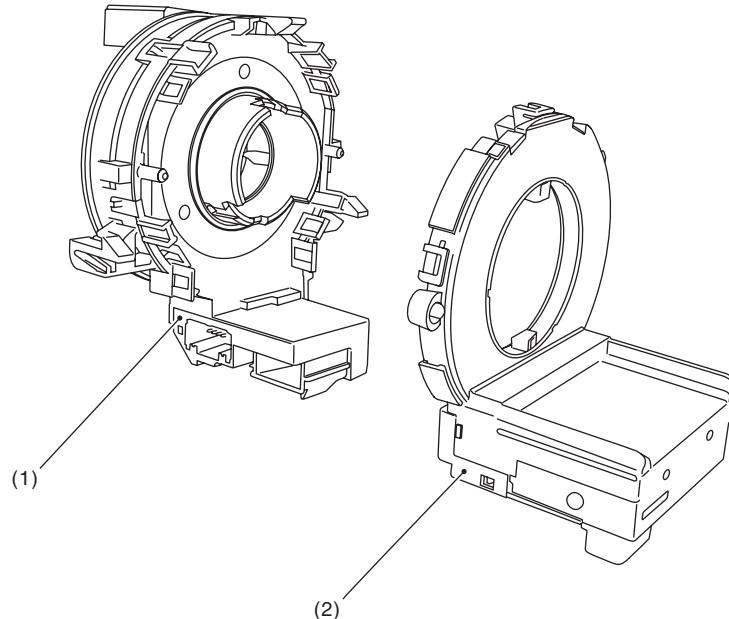


(1) Front ABS wheel speed sensor
(2) Housing ASSY - front axle
(3) Rear ABS wheel speed sensor

(4) Housing ASSY - rear axle
(5) Magnetic encoder
(6) Hub unit COMPL

Tightening torque: N·m (kgf·m, ft-lb)
T1: 7.5 (0.8, 5.5)
T2: 33 (3.4, 24.3)

2. STEERING ANGLE SENSOR



VDC00986

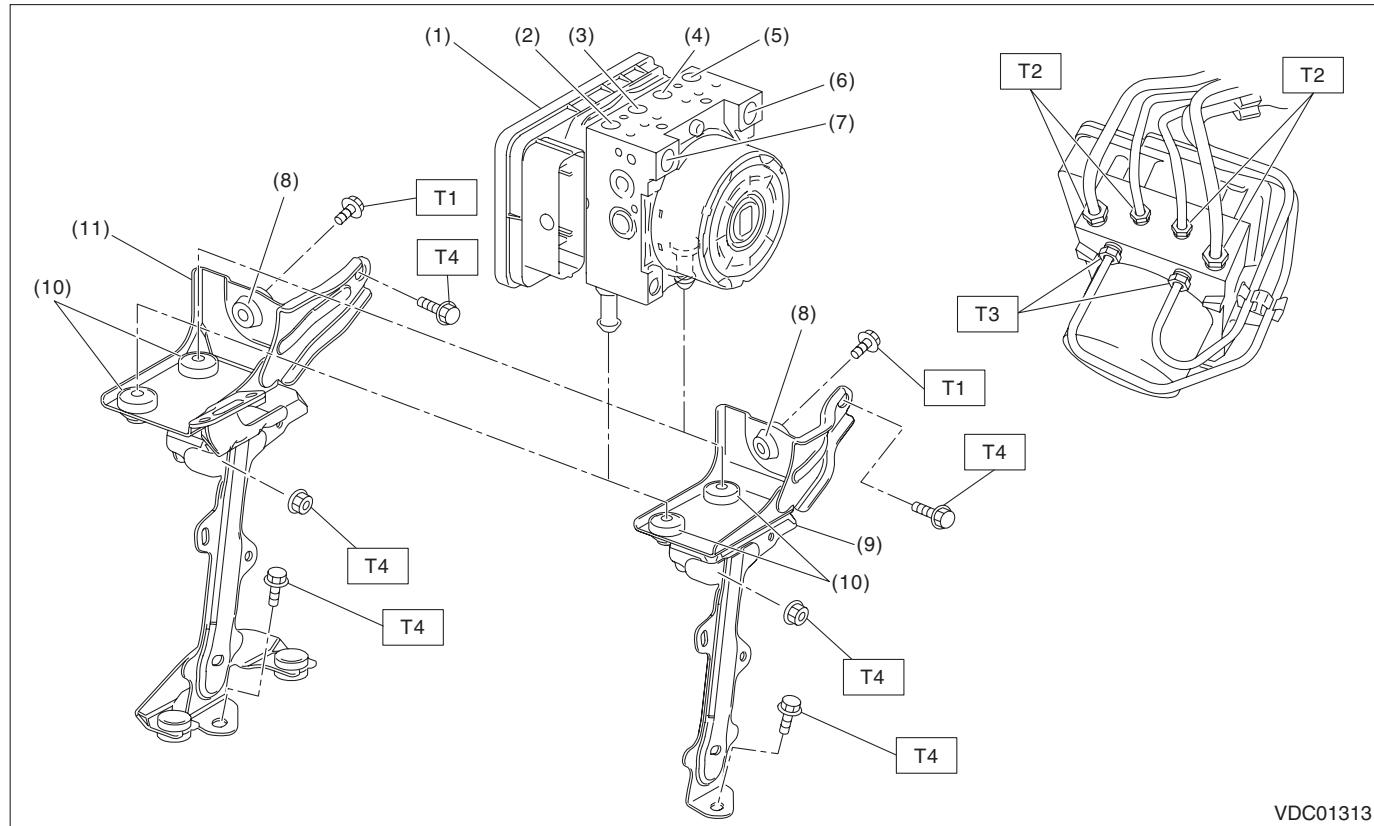
(1) Steering roll connector

(2) Steering angle sensor

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



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

Tightening torque: N·m (kgf·m, ft-lb)

T1: 7.5 (0.8, 5.5)

T2: 15 (1.5, 11.1)

T3: 19 (1.9, 14.0)

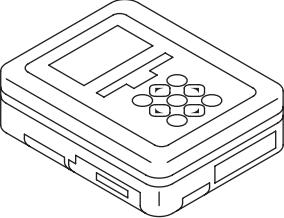
T4: 33 (3.4, 24.3)

C: CAUTION

- When performing any work, always wear work clothes, a work cap and protective shoes. Additionally, wear a helmet, protective goggles, etc. if necessary.
- Remove contamination including dirt and corrosion before removal, installation, disassembly or assembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- When performing a repair, identify the cause of trouble and avoid unnecessary removal, disassembly and replacement.
- Some vehicle components are extremely hot immediately after driving. Be wary of receiving burns from heated parts.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Always use the jack-up point when the shop jacks or rigid racks are used to support the vehicle.
- When removing, installing or replacing the VDCCM&H/U, VDCCM&H/U bracket, steering wheel or steering angle sensor (steering roll connector), perform “VDC sensor midpoint setting mode” of the VDC. <Ref. to VDC-16, VDC SENSOR MIDPOINT 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.