

# General Description

## VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

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### 3. General Description

#### A: CAUTION

##### 1. SUPPLEMENTAL RESTRAINT SYSTEM “AIRBAG”

Airbag system wiring harness is routed near the ABS wheel speed sensor and VDCCM&H/U.

##### CAUTION:

- Do not use electrical test devices on airbag system wiring harnesses or connector circuits.
- Be careful not to damage the airbag system wiring harness when servicing the ABS wheel speed sensor and VDCCM&H/U.

#### B: INSPECTION

Before performing diagnosis, check the following items which might affect VDC problems.

##### 1. BATTERY

Measure the battery voltage and check electrolyte.

##### *Standard voltage:*

12 V or more

##### *Specific gravity:*

1.260 or more

##### 2. GROUND

Check the tightening torque of ground (GV) bolt for VDC.

##### *Tightening torque:*

13 N·m (1.3 kgf·m, 9.6 ft-lb)

##### 3. BRAKE FLUID

- 1) Check the brake fluid level.
- 2) Check the brake fluid for leaks.

##### 4. HYDRAULIC UNIT

Check the hydraulic unit.

- With brake tester <Ref. to VDC-9, CHECKING THE HYDRAULIC UNIT ABS OPERATION WITH THE BRAKE TESTER, INSPECTION, VDC Control Module and Hydraulic Control Unit (VDC-CM&H/U).>
- Without brake tester <Ref. to VDC-8, CHECKING THE HYDRAULIC UNIT ABS OPERATION BY PRESSURE GAUGE, INSPECTION, VDC Control Module and Hydraulic Control Unit (VDC-CM&H/U).>

##### 5. BRAKE DRAG

Check for brake drag.

##### 6. BRAKE PAD AND ROTOR

Check the brake pad and rotor.

- Front <Ref. to BR-14, INSPECTION, Front Brake Pad.> <Ref. to BR-15, INSPECTION, Front Disc Rotor.>
- Rear <Ref. to BR-21, INSPECTION, Rear Brake Pad.> <Ref. to BR-22, INSPECTION, Rear Disc Rotor.>

##### 7. TIRE

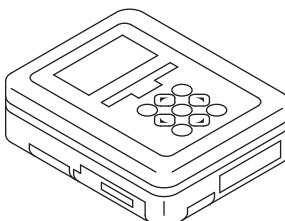
Check the tire specifications, tire wear and air pressure. <Ref. to WT-2, SPECIFICATION, General Description.>

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### C: 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.
Oscilloscope	Used for measuring the sensor.