

General Description

VEHICLE DYNAMICS CONTROL (VDC) (DIAGNOSTICS)

3. General Description

A: CAUTION

1. SUPPLEMENTAL RESTRAINT SYSTEM “AIRBAG”

The air bag system wiring harness is routed near the ABS wheel speed sensor VDCCM and VDCH/M.

CAUTION:

- All airbag system wiring harnesses and connectors are yellow. Do not use the electrical test equipment on these circuits.
- Be careful not to damage the airbag system wiring harness when servicing the ABS wheel speed sensor, VDCCM and VDCH/M.

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 of VDC ground (GV) bolt.

3. BRAKE FLUID

- 1) Check the brake fluid level. <Ref. to BR-41, INSPECTION, Brake Fluid.>
- 2) Check for brake fluid leaks. <Ref. to BR-41, INSPECTION, Brake Fluid.>

4. HYDRAULIC MODULE

Check the VDCH/M.

- When using the brake tester <Ref. to VDC-15, CHECKING THE VDC HYDRAULIC CONTROL MODULE (VDCH/M) VDC OPERATION BRAKE TESTER, INSPECTION, VDC Hydraulic Control Module (VDCH/M).>
- When not using the brake tester <Ref. to VDC-14, CHECKING THE VDC HYDRAULIC CONTROL MODULE (VDCH/M) VDC OPERATION BY PRESSURE GAUGE, INSPECTION, VDC Hydraulic Control Module (VDCH/M).>

5. BRAKE DRAG

Check for brake drag.

6. BRAKE PAD AND ROTOR

Check the brake pad and rotor.

- Front <Ref. to BR-16, INSPECTION, Front Brake Pad.> <Ref. to BR-17, INSPECTION, Front Disc Rotor.>
- Rear <Ref. to BR-21, INSPECTION, Rear Brake Pad.> <Ref. to BR-22, Rear Disc Rotor.>

7. TIRE

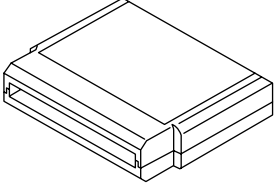

Check the tire specifications, tire wear and air pressure. <Ref. to WT-2, SPECIFICATION, General Description.>

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C: PREPARATION TOOL

1. SPECIAL TOOL

| ILLUSTRATION | TOOL NUMBER | DESCRIPTION | REMARKS |
|---------------------------------------------------------------------------------------------------|-------------|---------------------------|----------------------------------------|
|  ST18482AA010 | 18482AA010 | CARTRIDGE | Troubleshooting for electrical system. |
|  ST22771AA030 | 22771AA030 | SUBARU SELECT MONITOR KIT | Troubleshooting for electrical system. |

2. GENERAL TOOL

| TOOL NAME | REMARKS |
|----------------|-----------------------------------------------------|
| Circuit tester | Used for measuring resistance, voltage and current. |
| Oscilloscope | Used for measuring sensor. |