

# General Description

ABS (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 ABSCM&H/U.

#### CAUTION:

- All airbag system wiring harness and connectors are colored 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 and ABSCM&H/U.

### B: INSPECTION

Before performing diagnosis, check the following item which might affect ABS problems.

#### 1. BATTERY

Measure the battery voltage and check electrolyte.

**Standard voltage: 12 V or more**

**Specific gravity: Above 1.260**

#### 2. GROUND

Check the tightening torque of ground (GB-7) bolt of ABS.

#### 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.

- When using the brake tester <Ref. to ABS-8, CHECKING THE HYDRAULIC UNIT ABS OPERATION WITH THE BRAKE TESTER, INSPECTION, ABS Control Module and Hydraulic Control Unit (ABSCM&H/U).>
- When not using the brake tester <Ref. to ABS-7, CHECKING THE HYDRAULIC UNIT ABS OPERATION BY PRESSURE GAUGE, INSPECTION, ABS Control Module and Hydraulic Control Unit (ABSCM&H/U).>

#### 5. BRAKE DRAG

Check for brake drag.

#### 6. BRAKE PAD AND ROTOR

Check the brake pad and rotor.

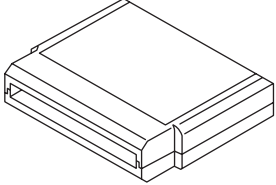

- Front <Ref. to BR-15, INSPECTION, Front Brake Pad.> <Ref. to BR-16, INSPECTION, Front Disc Rotor.>
- Rear <Ref. to BR-21, INSPECTION, Rear Brake Pad.> <Ref. to BR-22, INSPECTION, Rear Disc Rotor.>

#### 7. TIRE

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

## C: PREPARATION TOOL

### 1. SPECIAL TOOL

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

### 2. GENERAL TOOL

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