

### 3. General Description

#### A: CAUTION

##### • Supplemental Restraint System “Airbag”

The airbag system wiring harness is routed near the transmission control module (TCM).

#### CAUTION:

- All airbag system wiring harness and connectors are colored yellow. Do not use electrical test equipment on these circuit.
- Be careful not to damage the airbag system wiring harness when performing diagnostics and servicing the TCM.

##### • Measurement

When measuring the voltage and resistance of the ECM, TCM or each sensor, use a tapered pin with a diameter of less than 0.64 mm (0.025 in) in order to avoid poor contact. Do not insert the pin more than 0.65 mm (0.0256 in).

#### B: INSPECTION

##### 1. BATTERY

Measure the battery voltage and specific gravity of electrolyte.

**Standard voltage: 12V or more**

**Specific gravity: Above 1.260**

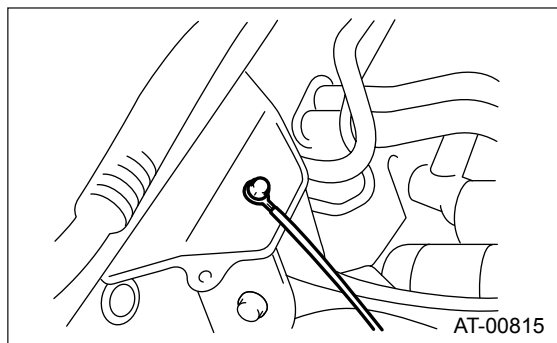
##### 2. TRANSMISSION GROUND

Make sure that the ground terminal bolt is tightened securely.

##### • Chassis side

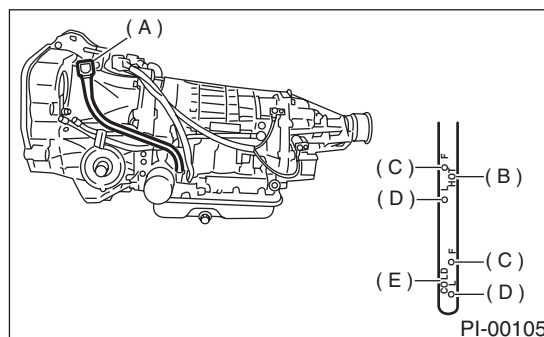
**Tightening torque:**

**13 N·m (1.3 kgf-m, 9.4 ft-lb)**



##### 3. ATF LEVEL

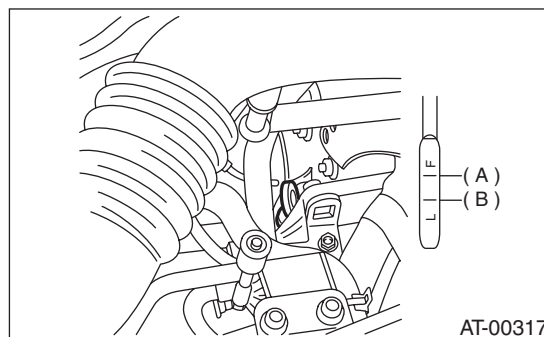
Make sure the ATF level is in the specification. <Ref. to AT-30, INSPECTION, INSPECTION, ATF.>



- (A) Level gauge
- (B) HOT side
- (C) Upper level
- (D) Lower level
- (E) COLD side

##### 4. FRONT DIFFERENTIAL OIL LEVEL

Make sure the front differential oil level is in the specification. <Ref. to AT-31, INSPECTION, Differential Gear Oil.>



- (A) Upper level
- (B) Lower level

## GENERAL DESCRIPTION

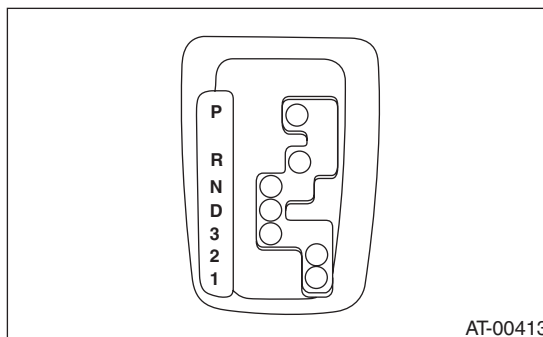
### AUTOMATIC TRANSMISSION (DIAGNOSTICS)

#### 5. OPERATION OF SHIFT SELECT LEVER

Make sure there is no abnormal noise, dragging or contact pattern in each select lever range.

#### WARNING:

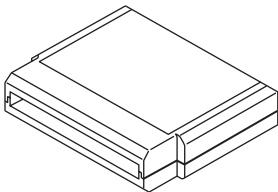

**Stop the engine while checking operation of the selector lever.**



AT-00413

## C: PREPARATION TOOL

### 1. SPECIAL TOOLS

| ILLUSTRATION  | TOOL NUMBER                        | DESCRIPTION        | REMARKS  |
|---|------------------------------------|--------------------|--|
|  <p>ST24082AA210</p>   | 24082AA210<br>(Newly adopted tool) | CARTRIDGE          | Troubleshooting for electrical systems.  |
|  <p>ST22771AA030</p> | 22771AA030                         | SELECT MONITOR KIT | Troubleshooting for electrical systems. <ul style="list-style-type: none"> <li>English:<br/>22771AA030 (Without printer)</li> <li>German:<br/>22771AA070 (Without printer)</li> <li>French:<br/>22771AA080 (Without printer)</li> <li>Spanish:<br/>22771AA090 (Without printer)</li> </ul> |

### 2. GENERAL PURPOSE TOOLS

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