

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

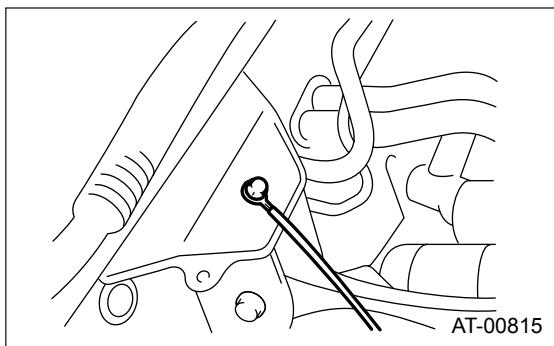
2. TRANSMISSION GROUND

Make sure that the ground terminal bolt is tightened securely.

- **Chassis side**

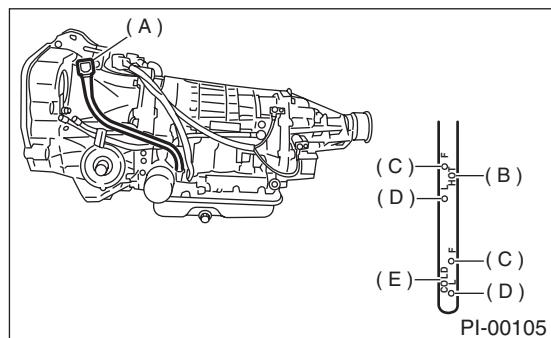
Tightening torque:

13 N·m (1.3 kgf·m, 9.4 ft-lb)



3. ATF LEVEL

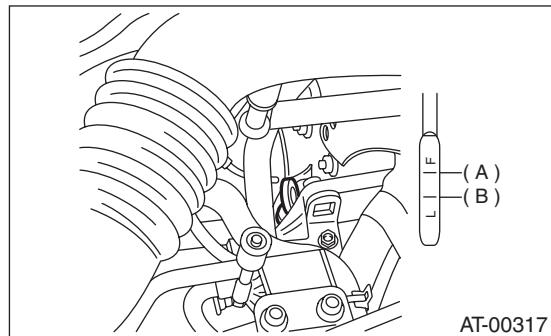
Make sure the ATF level is in the specification.<Ref. to AT-30, INSPECTION, INSPECTION, ATF.>



- (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

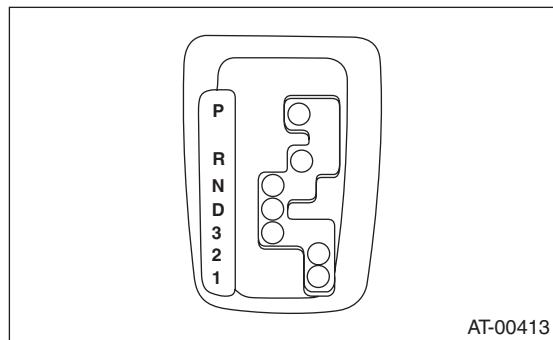
AUTOMATIC TRANSMISSION (DIAGNOSTICS)

5. OPERATION OF SHIFT SELECT LEVER

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

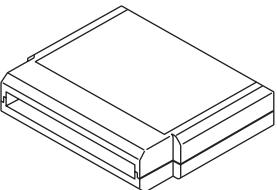
WARNING:

Stop the engine while checking operation of the selector lever.



C: PREPARATION TOOL

1. SPECIAL TOOLS

| ILLUSTRATION | TOOL NUMBER | DESCRIPTION | REMARKS |
|---|--|--------------------|---|
|  | 24082AA210 (Newly adopted tool) ST24082AA210 | CARTRIDGE | Troubleshooting for electrical systems. |
|  | 22771AA030 ST22771AA030 | SELECT MONITOR KIT | Troubleshooting for electrical systems. • English: 22771AA030 (Without printer) • German: 22771AA070 (Without printer) • French: 22771AA080 (Without printer) • Spanish: 22771AA090 (Without printer) |

2. GENERAL PURPOSE TOOLS

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