## 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 an 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 ECM, TCM or each sensor, use a tapered pin with 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 (0.256 in).

#### **B: INSPECTION**

#### 1. BATTERY

Measure the battery voltage and specific gravity of electrolyte.

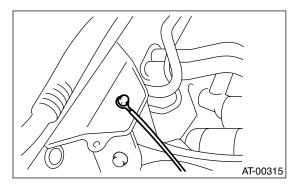
Standard voltage: 12 V or more Specific gravity: Above 1.260 2. TRANSMISSION GROUND

Make sure that the ground terminal bolt is tightened securely.

· Chassis side

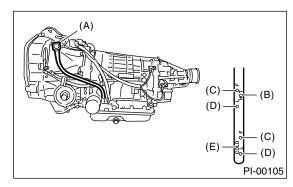
Tightening torque:

13 N·m (1.3 kgf-m, 9.4 ft-lb)



#### 3. ATF LEVEL

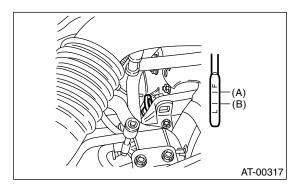
Make sure that ATF level is in the specification. <Ref. to 4AT-29, INSPECTION, Automatic Transmission Fluid.>



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

#### 4. FRONT DIFFERENTIAL OIL LEVEL

Make sure that the front differential oil level is in specification. <Ref. to 4AT-30, INSPECTION, Differential Gear Oil.>



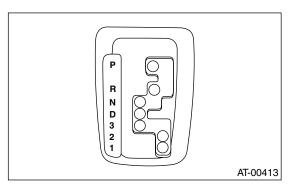
- (A) Upper level
- (B) Lower level

### 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 selector lever.



# **C: PREPARATION TOOL**

## 1. SPECIAL TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST24082AA230	24082AA230 (Newly adopted tool)	CARTRIDGE	Troubleshooting for electrical systems.
\$124082AA230			
ST22771AA030	22771AA030	SELECT MONITOR KIT	Troubleshooting for electrical systems.

## 2. GENERAL PURPOSE TOOLS

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