

## General Description

### AUTOMATIC TRANSMISSION (DIAGNOSTICS)

## 3. General Description

### A: CAUTION

#### 1. SRS AIRBAG SYSTEM

The airbag system wiring harness is routed near the TCM.

#### CAUTION:

- All airbag system wiring harnesses and connectors are colored yellow. Do not use an electric test equipment to check these circuits.
- Be careful not to damage the airbag system wiring harness when performing diagnostics or servicing the TCM.

#### 2. 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 a pin of more than 0.65 mm (0.026 in) diameter.

### B: INSPECTION

#### 1. BATTERY

Measure the battery voltage and specific gravity of electrolyte.

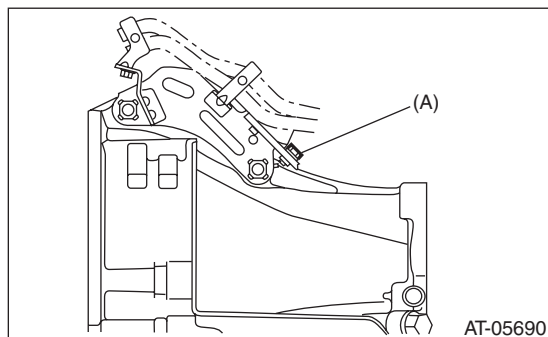
**Standard voltage:**  
12 V or more

**Specific gravity:**  
1.260 or more

#### 2. TRANSMISSION GROUND

Make sure that the ground terminal bolt is tightened securely.

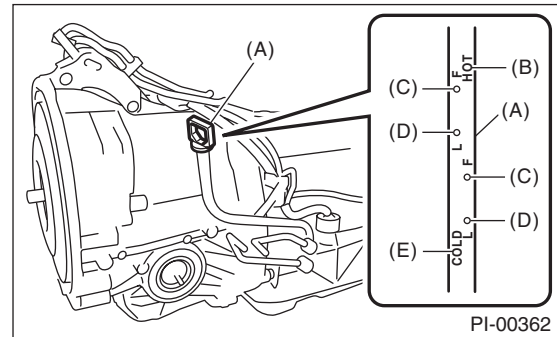
**Tightening torque:**  
7 N·m (0.7 kgf-m, 5.2 ft-lb)



(A) Ground bolt

#### 3. ATF LEVEL

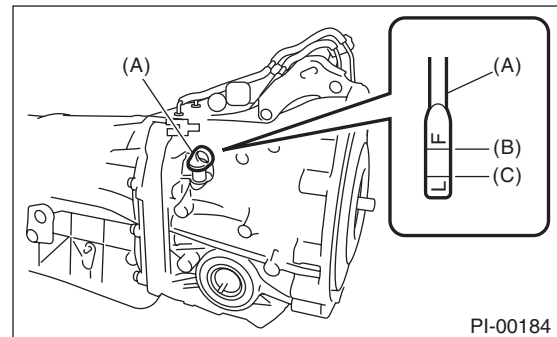
Make sure that ATF level is the specified amount. <Ref. to 5AT-29, INSPECTION, Automatic Transmission Fluid.>



- (A) Oil level gauge
- (B) Inspection position when "HOT"
- (C) Upper level
- (D) Lower level
- (E) Inspection position when "COLD"

#### 4. FRONT DIFFERENTIAL OIL LEVEL

Make sure the front differential oil level is the specified amount. <Ref. to 5AT-31, INSPECTION, Differential Gear Oil.>



- (A) Oil level gauge
- (B) Upper level
- (C) Lower level

#### 5. OPERATION OF SHIFT SELECT LEVER

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

#### WARNING:

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

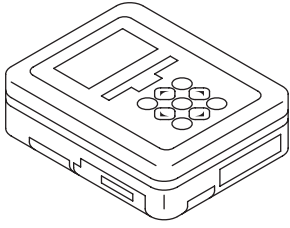
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## C: PREPARATION TOOL

### 1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for troubleshooting the electrical system.

### 2. GENERAL TOOL

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