

## 2. Automatic Transmission Fluid

### A: INSPECTION

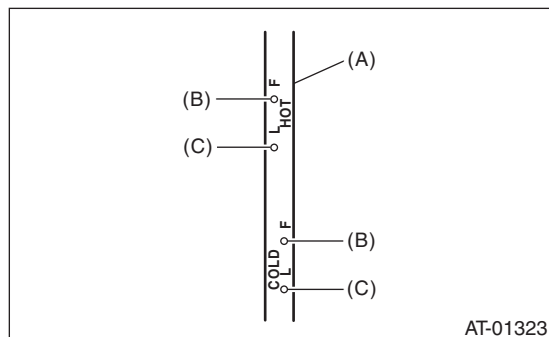
#### NOTE:

The level of ATF varies with fluid temperature. Pay attention to the ATF temperature when checking ATF level.

1) Raise the ATF temperature by driving a distance of 5 to 10 km (3 to 6 miles). Otherwise, idle the engine to raise ATF temperature to 70 — 80°C (158 — 176°F) displayed on Subaru Select Monitor. <Ref. to 4AT(diag)-16, OPERATION, Read Current Data.>

2) Park the vehicle on a level surface.

3) After selecting all positions (P, R, N, D), set the select lever in “P” range. Idle the engine for 1 or 2 minutes, and measure the ATF level.



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

4) Make sure that the ATF level is higher than the center point between upper and lower marks of the HOT side.

If the fluid level is below the lower mark, check the transmission for leaks. If there are leaks, it is necessary to repair or replace gaskets, oil seals, plugs or other parts.

5) If the ATF level is below the center point between upper and lower level marks, add the recommended ATF until the fluid level is above the center point between the upper and lower level marks.

#### CAUTION:

- Be careful not to exceed the upper level.
- When the transmission is cold, be careful not to add ATF to the upper level. Overfilling of ATF may cause oil splashing.

6) Check ATF level after raising ATF temperature to 70 — 80°C (158 — 176°F) by running the vehicle again or by idling the engine.

### B: REPLACEMENT

1) Lift up the vehicle.

2) Remove the drain plug (ATF) and completely drain the ATF.

#### CAUTION:

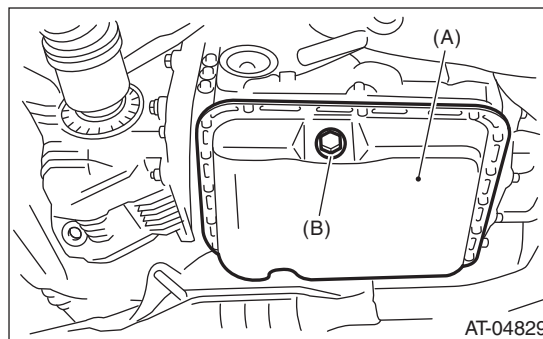
**Immediately after the vehicle has been running or after idling for a long time, the ATF will be hot. Be careful not to receive burns.**

3) Check the condition of ATF. <Ref. to 4AT-27, CONDITION CHECK, Automatic Transmission Fluid.>

4) Perform replacement with a new gasket, and tighten the drain plug (ATF).

#### Tightening torque:

**25 N·m (2.5 kgf-m, 18.4 ft-lb)**



- (A) Oil pan
- (B) Drain plug (ATF)

5) Lower the vehicle.

6) Pour ATF from the oil charge pipe.

#### Recommended fluid:

**<Ref. to 4AT-3, HYDRAULIC CONTROL AND LUBRICATION, SPECIFICATION, General Description.>**

#### Capacity:

**Refill with the same amount of ATF drained from the drain plug hole.**

#### Capacity when transmission is overhauled:

**9.3 — 9.6 ℓ (9.8 — 10.1 US qt, 8.2 — 8.4 Imp qt)**

7) Bleed the air of control valve.

<Ref. to 4AT-59, Air Bleeding of Control Valve.>

8) Check the level and leaks of ATF.

<Ref. to 4AT-26, INSPECTION, Automatic Transmission Fluid.>

## C: CONDITION CHECK

### NOTE:

When replacing ATF, check the inside condition of transmission body by inspecting the drained ATF.

| Fluid condition                              | Trouble and possible cause                               | Corrective action                                        |
|----------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Large amount of metallic pieces are found.   | Excessive wear of the internal of the transmission body. | Replace ATF and check if AT operates correctly.          |
| Thick and varnish-form fluid.                | Burned clutch, etc.                                      | Replace ATF and check the AT body or vehicle for faulty. |
| Clouded fluid or bubbles are found in fluid. | Water mixed in fluid.                                    | Replace ATF and check the water entering point.          |