

2. Automatic Transmission Fluid

A: INSPECTION

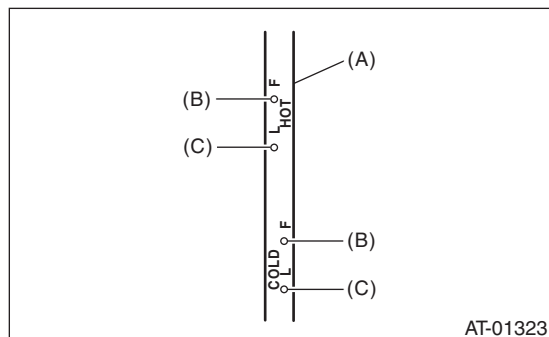
NOTE:

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) on Subaru Select Monitor. <Ref. to 4AT(diag)-17, READ CURRENT DATA, OPERATION, Subaru Select Monitor.>

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 ATF level is above the center of upper and lower level at “HOT” side.

If the ATF level is below the lower level, 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 of upper and lower level, add recommended ATF until the fluid level is above the center of upper and lower level.

CAUTION:

- Be careful not to exceed the upper level.
- Addition of ATF to the upper level when the transmission is cold will result in overfilling of ATF, causing the oil to spill out.

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:

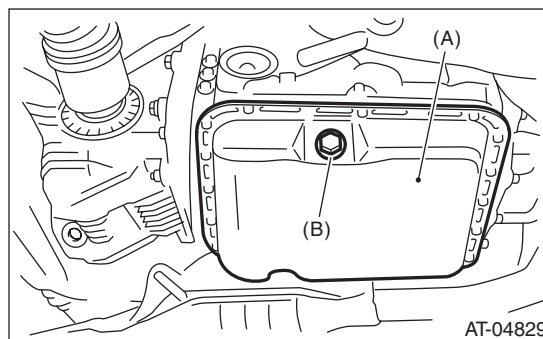
Immediately after the vehicle has been running or after idling for a long time, the ATF will be hot. Be careful not to receive burns.

3) Check the ATF condition. <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.>

CAUTION:

Be sure to use the recommended or equivalent ATF. Using material except recommended one or substitute would cause trouble.

Capacity:

Refill with the same amount of ATF that was drained from 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, PROCEDURE, 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.