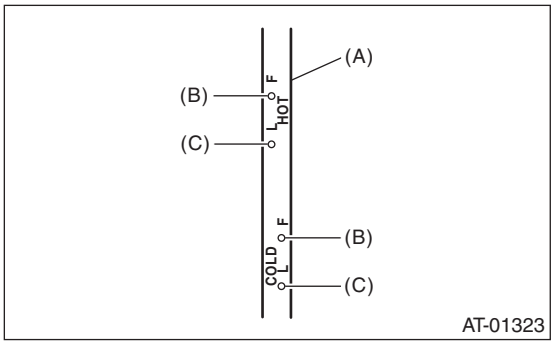
2. Automatic Transmission Fluid

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)-16, 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 the ATF level is between upper and lower marks of the HOT side.
5) If the ATF level is below the lower mark, add recommended ATF until the fluid level is between upper and lower marks.

NOTE:
- Be careful not to exceed the upper level.
- Be wary of the ATF level when filling. If the ATF is filled to the upper level while the transmission is cold, it is in an overfilled condition and the oil will over flow.

6) 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)-16, READ CURRENT DATA, OPERATION, Subaru Select Monitor.>
7) Check the ATF for leaks.
Visually check for leaks in the transmission. If there are leaks, replace the gasket, oil seal, plug or other parts.

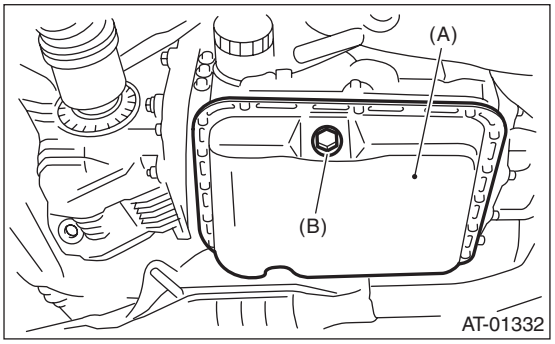
B: REPLACEMENT

1) Lift the vehicle.
2) Remove the ATF drain plug to drain ATF.

CAUTION:
After running the engine or after idling for a long time, the ATF is hot. Be careful not to burn yourself.
3) Check the condition of ATF. <Ref. to 4AT-27, CONDITION CHECK, Automatic Transmission Fluid.>
4) Tighten the ATF drain plug.

NOTE:
Use a new gasket.

Tightening torque:
25 N·m (2.5 kgf-m, 18 ft-lb)



(A) Oil pan
(B) ATF drain plug

5) Lower the vehicle.
6) Pour ATF from the oil charge pipe.

Recommended fluid:
SUBARU ATF HP

Substitute fluid:
IDEMITSU “ATF HP”
Castrol “Transmax J”

Capacity:
Fill with the same amount of ATF as drained.

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-58, 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.