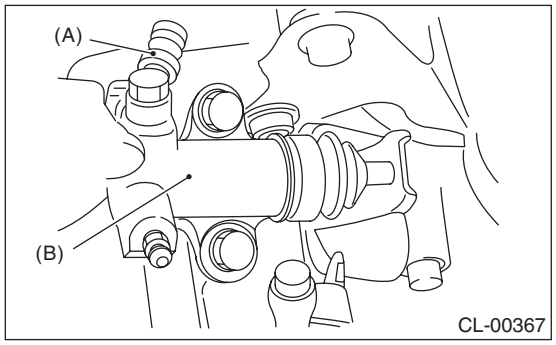
5. Operating Cylinder

A: REMOVAL

1) Remove the air intake chamber. (Non-turbo model) <Ref. to IN(H4SO)-7, REMOVAL, Air Intake Chamber.>
2) Remove the intercooler. (Turbo model) <Ref. to IN(H4DOTC)-12, REMOVAL, Intercooler.>
3) Disconnect the clutch hose from the operating cylinder.

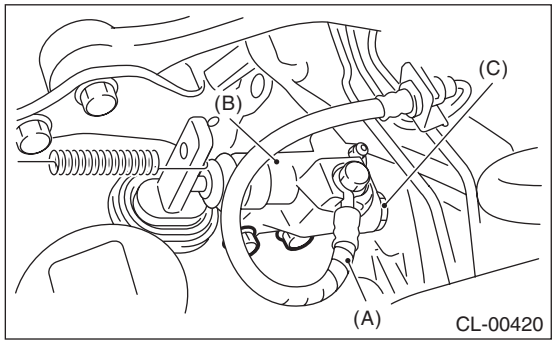
CAUTION:
• Cover the hose joint to prevent the clutch fluid from flowing out.
• Do not loosen or remove the cap bolts. (5MT turbo model)
• 5MT model

NOTE:
The illustration below is for a Non-turbo model. However, perform the same procedures for the Turbo model.



(A) Clutch hose
(B) Operating cylinder

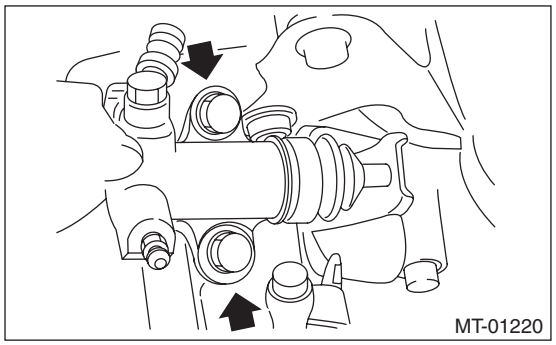
• 6MT model



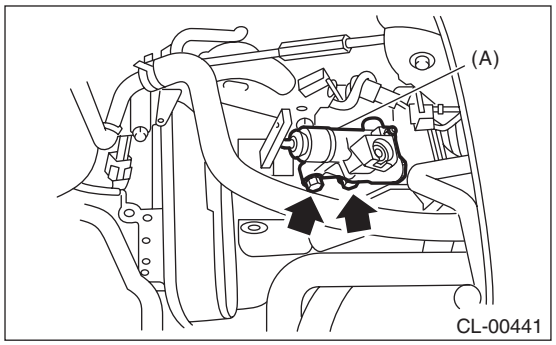
(A) Clutch hose
(B) Operating cylinder
(C) Cap bolt

4) Remove the operating cylinder from the transmission.
• 5MT model

NOTE:
The illustration below is for a Non-turbo model. However, perform the same procedures for the Turbo model.



• 6MT model



(A) Operating cylinder

B: INSTALLATION

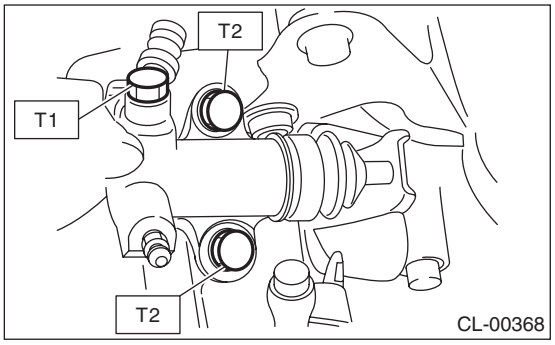
1. 5MT MODEL

1) Install in the reverse order of removal.

NOTE:
Before installing the operating cylinder, apply grease (KOPR-KOTE: Part No. 003603001) to the contact point of the release lever and operating cylinder.

Tightening torque:
T1: 18 N·m (1.8 kgf-m, 13.0 ft-lb)
T2: 37 N·m (3.8 kgf-m, 27.5 ft-lb)

NOTE:
The illustration below is for a Non-turbo model. However, perform the same procedures for the Turbo model.



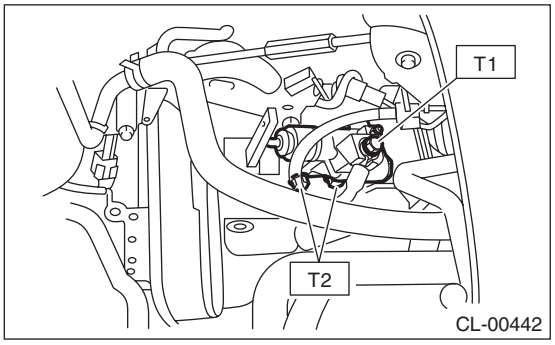
2) After bleeding air from the operating cylinder, ensure that the clutch operates properly.
<Ref. to CL-29, Clutch Fluid Air Bleeding.>

2. 6MT MODEL

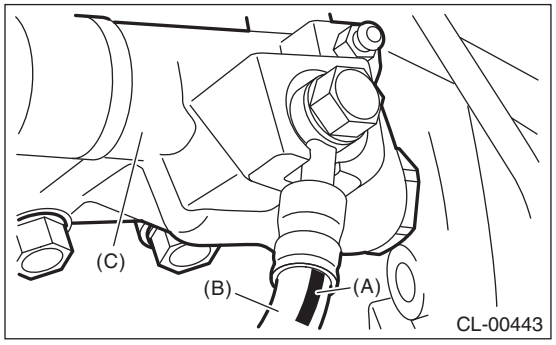
1) Install in the reverse order of removal.

NOTE:
Before installing the operating cylinder, apply grease (KOPR-KOTE: Part No. 003603001) to the contact point of the release lever and operating cylinder.

Tightening torque:
T1: 18 N·m (1.8 kgf-m, 13.0 ft-lb)
T2: 41 N·m (4.2 kgf-m, 30.2 ft-lb)



NOTE:
• Be sure to install the clutch hose with the mark side facing upward.
• Be careful not to twist the clutch hose during installation.



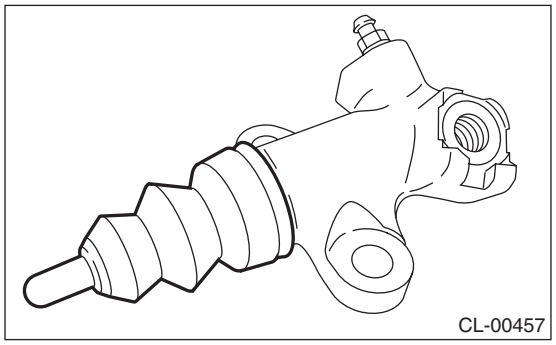
(A) Mark
(B) Clutch hose
(C) Operating cylinder

2) After bleeding air from the operating cylinder, ensure that the clutch operates properly.
<Ref. to CL-29, Clutch Fluid Air Bleeding.>

C: DISASSEMBLY

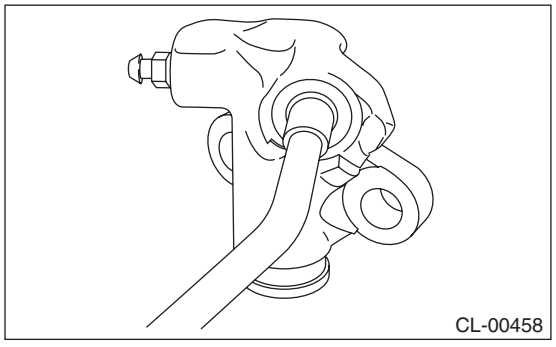
1) Remove the boots and push rod assembly.

NOTE:
The illustration below is for a Non-turbo model.



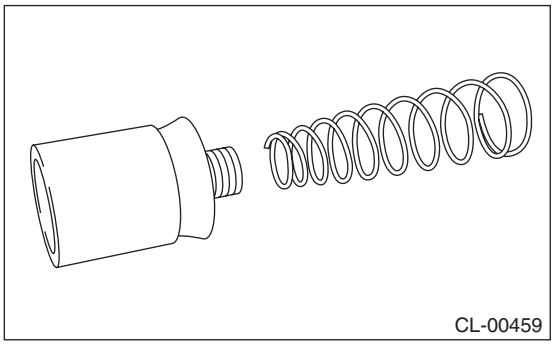
2) Apply compressed air through clutch hose attaching port.

NOTE:
Face the piston port down and place a piece of wood underneath to prevent the piston from popping out.



3) Separate the piston and piston spring.

NOTE:
The illustration below is for a Non-turbo model.



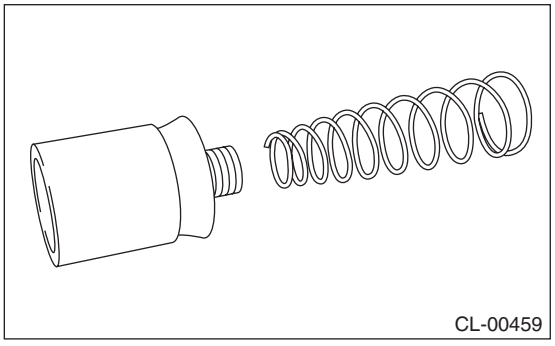
D: ASSEMBLY

NOTE:
During assembly, apply hydraulic oil to all parts.

Recommended brake fluid
FMVSS No. 116, fresh DOT3 or 4 brake fluid

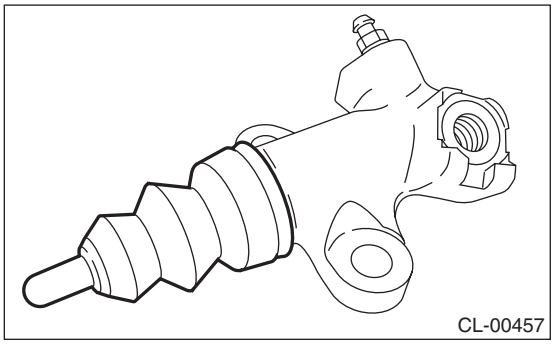
1) Install the piston spring to the piston.

NOTE:
The illustration below is for a Non-turbo model.



2) Insert piston to the operating cylinder.
3) Install push rod to the boot.
4) Install boot and push rod to the operating cylinder.

NOTE:
The illustration below is for a Non-turbo model.



E: INSPECTION

1) Check the operating cylinder for damage. If operating cylinder is damaged, replace it.
2) Check the operating cylinder for fluid leakage or damage on the boot. If any leakage or damage is found, replace the operating cylinder.