

### 5. Operating Cylinder

#### A: REMOVAL

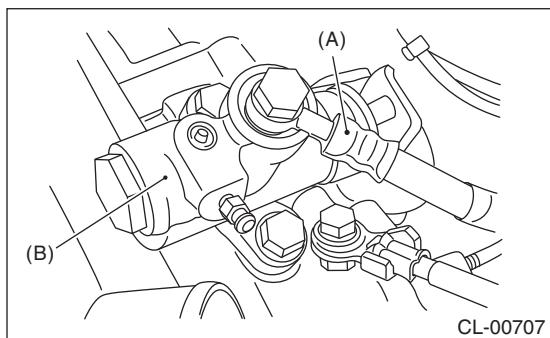
**NOTE:**

The illustration shows a representing model. Perform the same procedures for the other models.

- 1) Remove the collector cover.
- 2) Remove the air intake boot assembly. (non-turbo model) <Ref. to IN(H4SO)-8, REMOVAL, Air Intake Boot.>
- 3) Remove the intercooler. (turbo model) <Ref. to IN(H4DOTC)-17, REMOVAL, Intercooler.>
- 4) Disconnect the clutch hose from the operating cylinder.

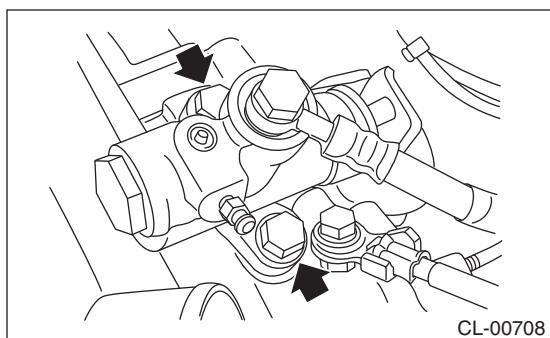
**CAUTION:**

- Cover the hose joint to prevent the clutch fluid from flowing out.
- Do not loosen or remove the cap bolts.



(A) Clutch hose  
(B) Operating cylinder

- 5) Remove the operating cylinder from the transmission.



#### B: INSTALLATION

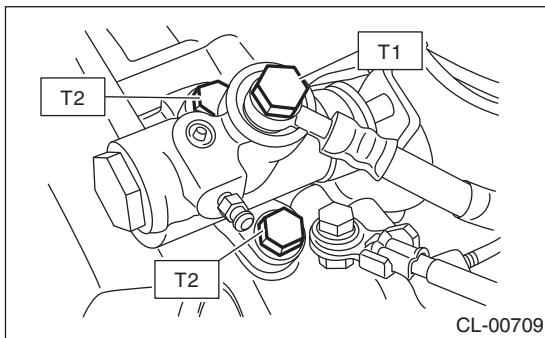
**NOTE:**

- The illustration shows a representing model. Perform the same procedures for the other models.
- Be sure to install the clutch hose with the mark side facing upward.
- Be careful not to twist the clutch hose during installation.
- Before installing the operating cylinder, apply grease (NICHIMOLY N-130) to the contact point of the release lever and operating cylinder.
- 1) Install in the reverse order of removal.

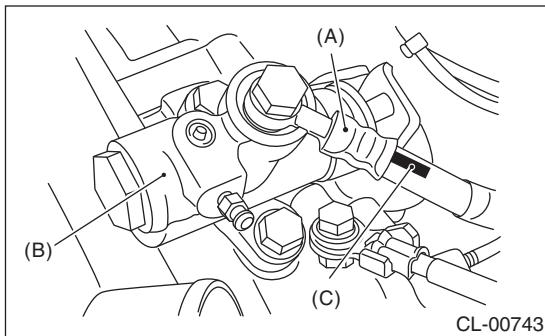
**Tightening torque:**

T1: 18 N·m (1.8 kgf-m, 13.3 ft-lb)

T2: 37 N·m (3.8 kgf-m, 27.3 ft-lb)



CL-00709



CL-00743

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

- 2) After bleeding air from the operating cylinder, ensure that the clutch operates properly. <Ref. to CL-25, PROCEDURE, Clutch Fluid Air Bleeding.>
- 3) When the operating cylinder has been replaced or removed, perform the clutch sensor calibration mode. <Ref. to PB(diag)-19, CLUTCH SENSOR CALIBRATION MODE, OPERATION, Subaru Select Monitor.>

**NOTE:**

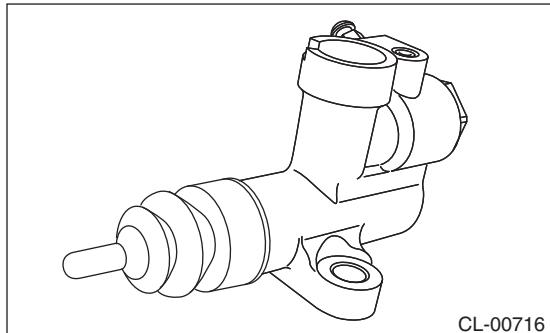
If necessary, perform the clutch meet position setting. <Ref. to PB(diag)-19, CLUTCH ENGAGEMENT POSITION SETTING, OPERATION, Subaru Select Monitor.>

## C: DISASSEMBLY

NOTE:

The illustration shows a representing model. Perform the same procedures for the other models.

- 1) Remove the boot and push rod.

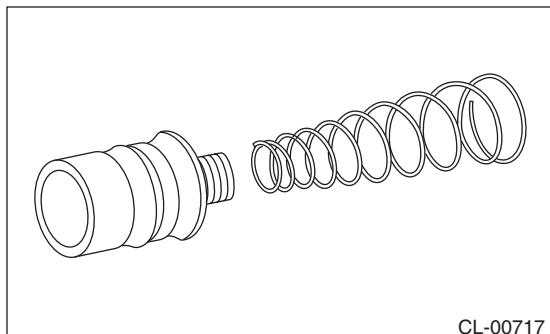


- 2) Apply compressed air through clutch hose attachment hole.

NOTE:

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

- 3) Separate the piston and piston spring.



## D: ASSEMBLY

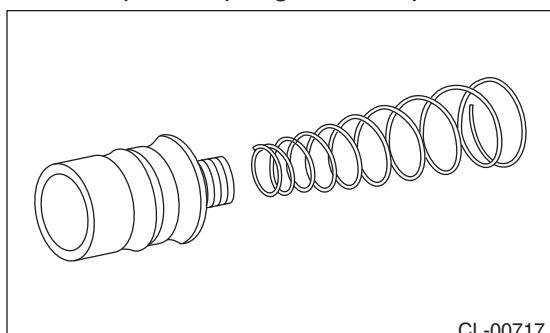
NOTE:

- The illustration shows a representing model. Perform the same procedures for the other models.
- During assembly, apply hydraulic oil to all parts.

***Recommended clutch fluid:***

**New FMVSS No. 116 DOT3**

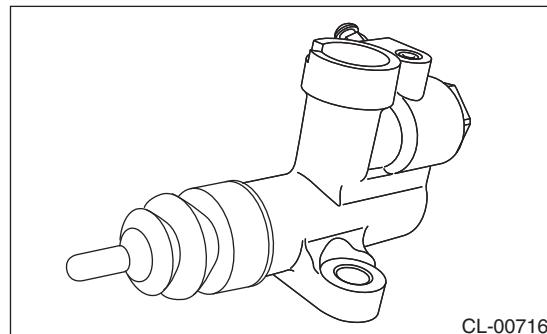
- 1) Install the piston spring onto the piston.



- 2) Insert piston to the operating cylinder.

- 3) Install push rod to the boot.

- 4) Install boot and push rod to the operating cylinder.



## E: INSPECTION

- 1) Check that the operating cylinder is not damaged. Replace the operating cylinder if it is damaged.

- 2) Check the clutch fluid leakage on the operating cylinder or the boot for damage. Replace the operating cylinder if clutch fluid leaks or boot damages are noted.