

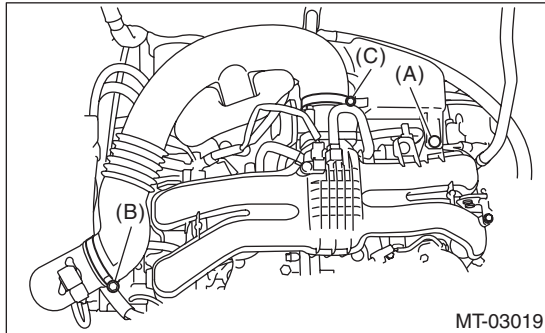
### 5. Operating Cylinder

#### A: REMOVAL

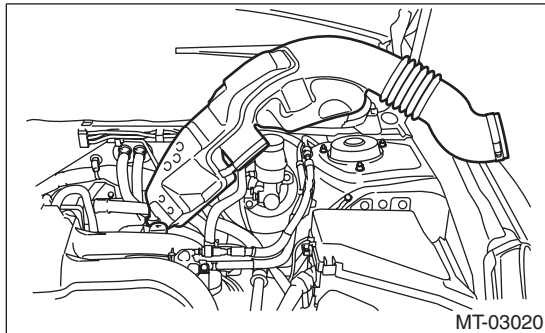
##### CAUTION:

Clutch fluid spilled on the vehicle body will harm the paint surface; wash it off with water and wipe clean quickly if spilled.

- 1) Remove the clip (A) from the air intake boot.
- 2) Loosen the clamp (B) connecting the air intake boot and air cleaner case (rear).
- 3) Loosen the clamp (C) which connects the air intake boot and throttle body.



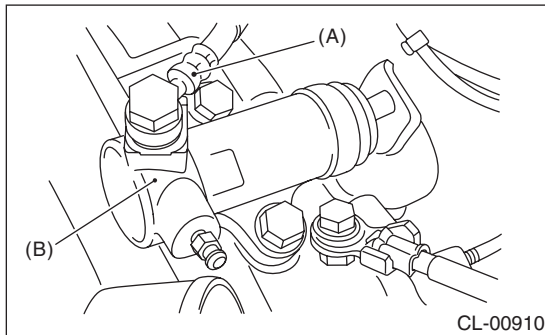
- 4) Remove the air intake boot from the throttle body, and move it to the left side wheel apron.



- 5) Disconnect the clutch hose from the operating cylinder.

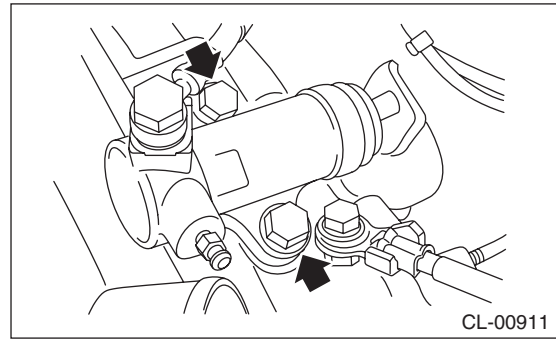
##### CAUTION:

Cover the hose joint to prevent the clutch fluid from flowing out.



- (A) Clutch hose  
(B) Operating cylinder

- 6) Remove the operating cylinder from the transmission.



#### B: INSTALLATION

##### NOTE:

- Use a new gasket.
- 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 to the contact point of the release lever and operating cylinder.

##### Grease

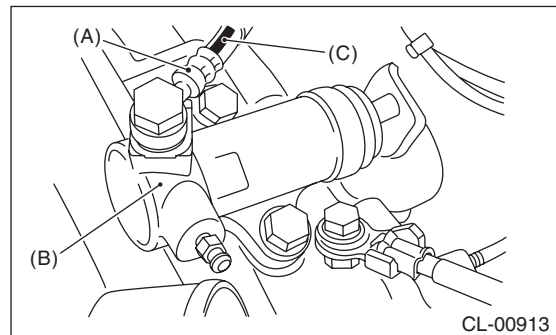
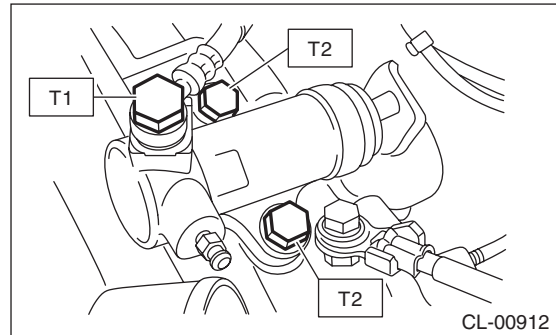
**NICHIMOLY N-130 or equivalent**

- 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)**



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

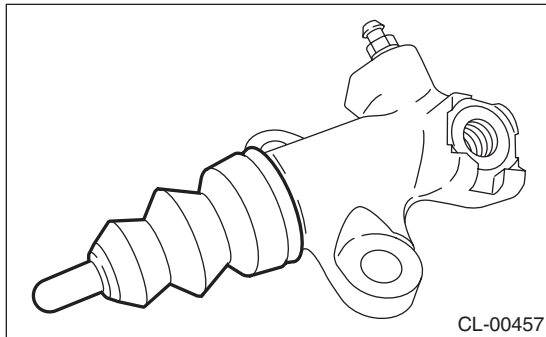
- 2) After bleeding air from the operating cylinder, ensure that the clutch operates properly. <Ref. to CL-24, PROCEDURE, Clutch Fluid Air Bleeding.>
- 3) When the operating cylinder has been replaced or removed, perform the clutch sensor calibration mode. <Ref. to PB(diag)-17, CLUTCH SENSOR CALIBRATION MODE, OPERATION, Subaru Select Monitor.>

### NOTE:

If necessary, perform the clutch meet position setting. <Ref. to PB(diag)-18, CLUTCH ENGAGEMENT POSITION SETTING, OPERATION, Subaru Select Monitor.>

## C: DISASSEMBLY

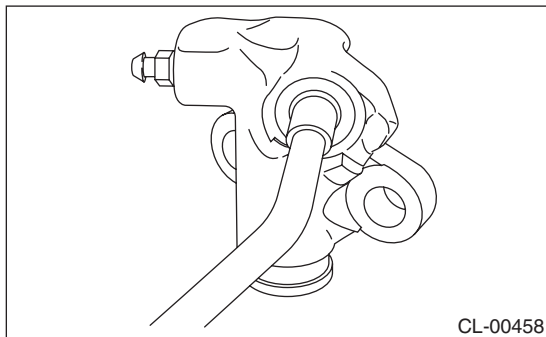
- 1) Remove the boot and push rod.



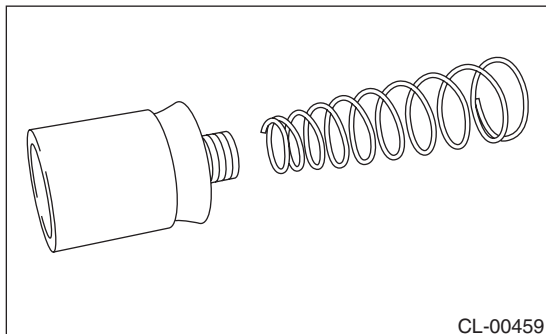
- 2) Apply compressed air through clutch hose attachment hole.

### 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

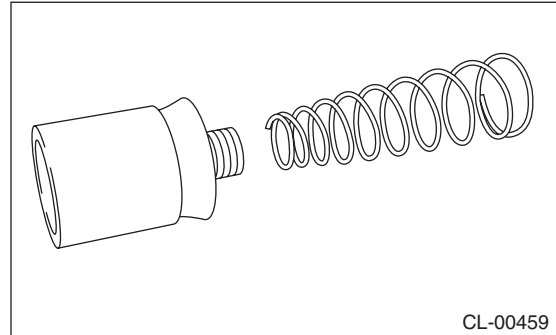
### NOTE:

During assembly, apply hydraulic oil to all parts.

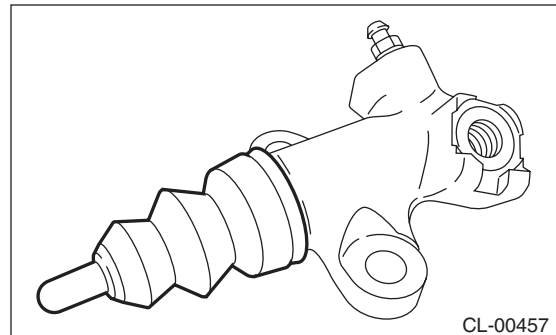
### Recommended clutch fluid:

**New FMVSS No. 116 DOT3**

- 1) Install the piston spring onto the piston.



- 2) Insert piston into 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.