

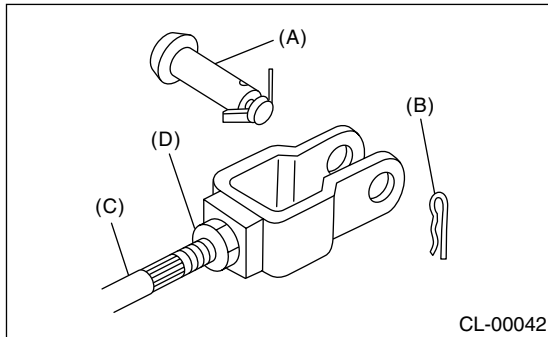
# MASTER CYLINDER

## CLUTCH SYSTEM

### 6. Master Cylinder

#### A: REMOVAL

- 1) Thoroughly drain the brake fluid from reservoir tank.
- 2) Remove the snap pin, clevis pin and separate the push rod of master cylinder from clutch pedal.

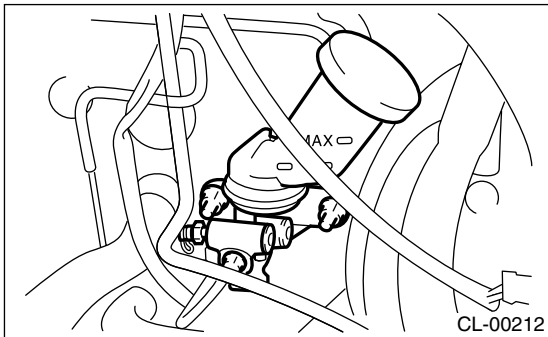


- (A) Clevis pin
- (B) Snap pin
- (C) Push rod
- (D) Lock nut

- 3) Remove the air cleaner case and air intake duct (Non-turbo model). <Ref. to IN(H4SO)-5, REMOVAL, Air Cleaner Case.> and <Ref. to IN(H4SO)-6, REMOVAL, Air Intake Duct.>
- 4) Remove the intercooler (Turbo model). <Ref. to IN(H4DOTC)-10, REMOVAL, Intercooler.>
- 5) Remove the clutch pipe from master cylinder.
- 6) Remove the master cylinder with reservoir tank.

#### CAUTION:

**Be extremely careful not to spill brake fluid. Brake fluid spilt on the vehicle body will harm the paint surface; wipe it off quickly if spilt.**



#### B: INSTALLATION

- 1) Install the master cylinder to body, and install the clutch pipe to master cylinder.

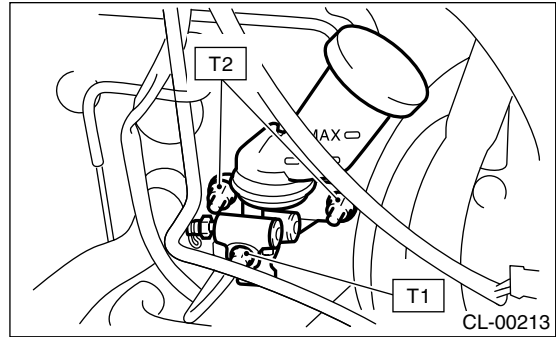
#### NOTE:

Check that the pipe is routed properly.

#### Tightening torque:

**T1: 15 N·m (1.5 kgf-m, 10.8 ft-lb)**

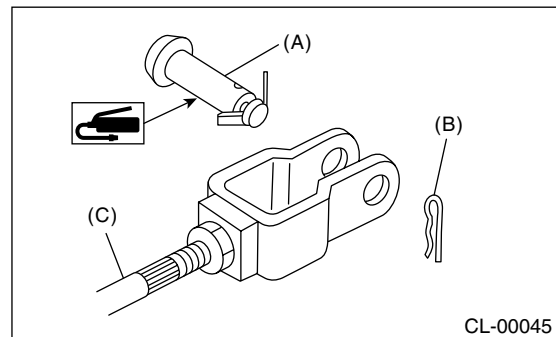
**T2: 18 N·m (1.8 kgf-m, 13.0 ft-lb)**



- 2) Connect the push rod of master cylinder to clutch pedal, and install the clevis pin and snap pin.

#### NOTE:

Apply grease to the clevis pin.



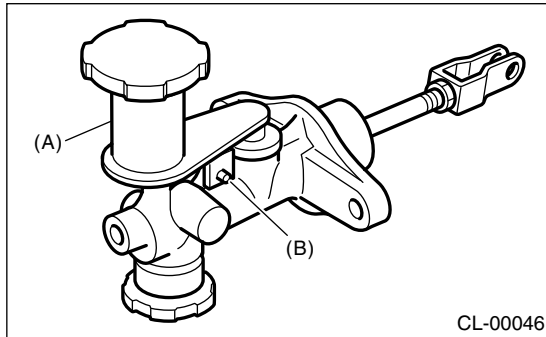
- (A) Clevis pin
- (B) Snap pin
- (C) Push rod

- 3) After bleeding air from the system, ensure that clutch operates properly. <Ref. to CL-24, Clutch Fluid Air Bleeding.>

- 4) Install the air cleaner case and air intake duct (Non-turbo model). <Ref. to IN(H4SO)-5, INSTALLATION, Air Cleaner Case.> and <Ref. to IN(H4SO)-6, INSTALLATION, Air Intake Duct.>
- 5) Install the intercooler (Turbo model). <Ref. to IN(H4DOTC)-10, INSTALLATION, Intercooler.>

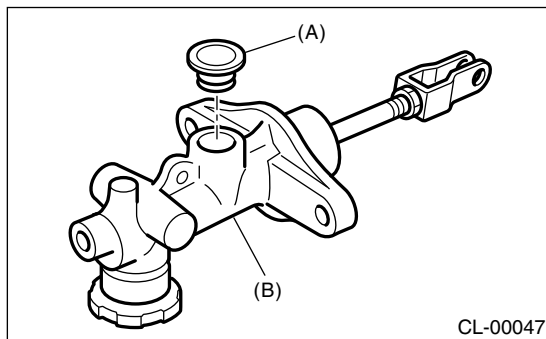
## C: DISASSEMBLY

1) Remove the straight pin and reservoir tank.



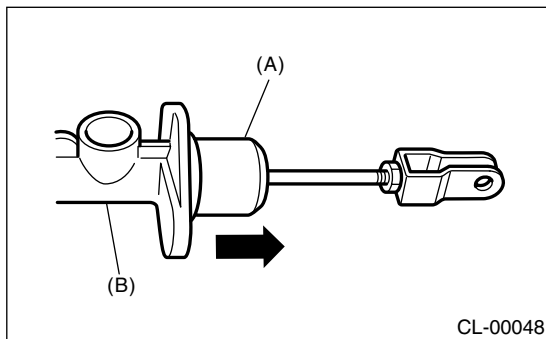
- (A) Reservoir tank
- (B) Straight pin

2) Remove the oil seal.



- (A) Oil seal
- (B) Master cylinder

3) Move the cylinder boot backward.



- (A) Cylinder boot
- (B) Master cylinder

4) Remove the stop ring.

**CAUTION:**  
Be careful when removing the snap ring to prevent the rod, washer, piston and return spring from flying out.

5) Remove the clutch damper.

## D: ASSEMBLY

1) Install the clutch damper.

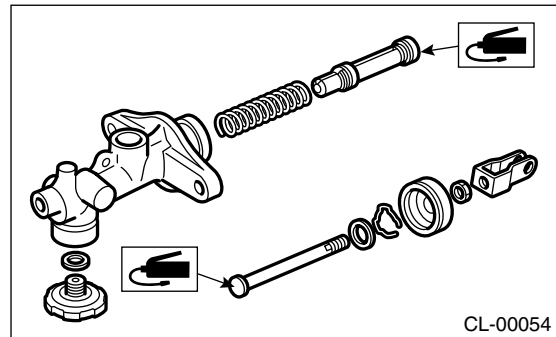
**Tightening torque:**

**46.6 N·m (4.75 kgf·m, 34.4 ft·lb)**

2) Apply a coat of grease to the contacting surfaces of the push rod and piston before installation.

**Grease:**

**SILICONE GREASE G40M (Part No. 004404003)**



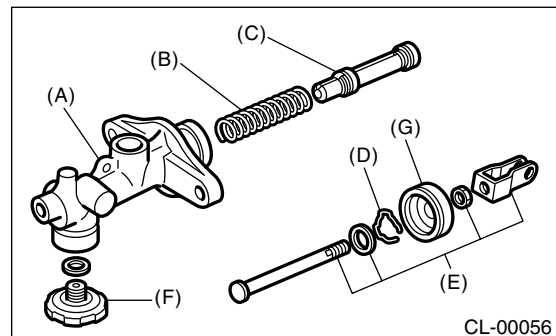
3) To assemble the master cylinder, reverse the sequence of disassembly procedure.

**Tightening torque:**

**10 N·m (1.0 kgf·m, 7 ft·lb)**

## E: INSPECTION

If any damage, deformation, wear, swelling, rust or other faults are found on the cylinder, piston, push rod, fluid reservoir, return spring, gasket, clutch damper, cylinder boot and hose replace the faulty part.



- (A) Master cylinder body
- (B) Return spring
- (C) Piston
- (D) Stop ring
- (E) Rod ASSY
- (F) Clutch damper
- (G) Cylinder boot