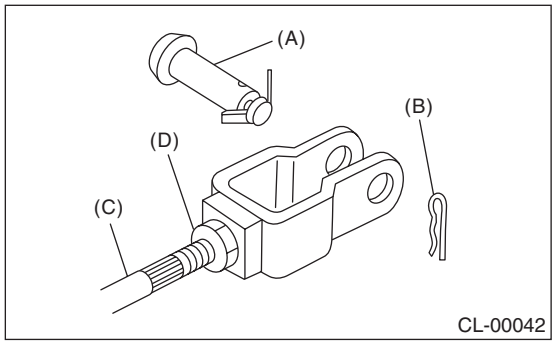
6. Master Cylinder

A: REMOVAL

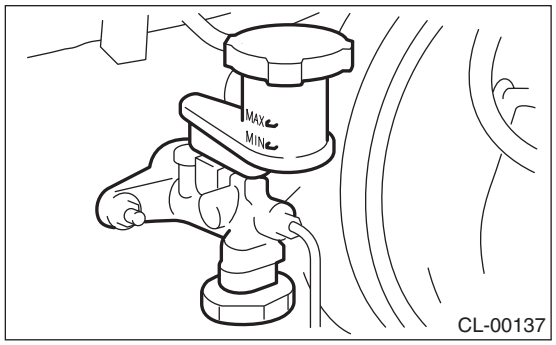
1) Thoroughly drain the brake fluid from the reservoir tank.
2) Remove the snap pin and clevis pin, and then separate the push rod of the master cylinder from clutch pedal.



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

3) Remove the air intake chamber. (Non-turbo model) <Ref. to IN (H4SO)-6, REMOVAL, Air Intake Chamber.>
4) Remove the intercooler. (Turbo model)
<Ref. to IN(H4DOTC)-11, REMOVAL, Intercooler.>
5) Remove the clutch pipe from master cylinder.
6) Remove the master cylinder together with the reservoir tank.

CAUTION:
Be careful not to spill the brake fluid. Immediately wash off with water and wipe clean any brake fluid spilled on the vehicle body, as brake fluid will damage the painted surface.

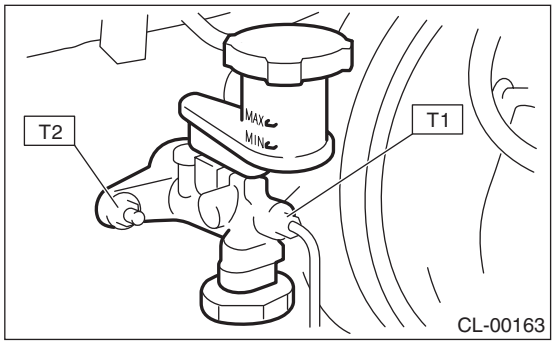


B: INSTALLATION

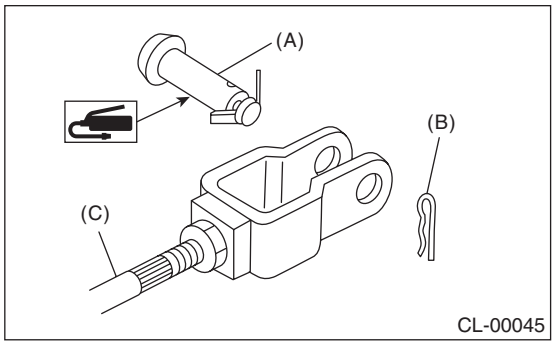
1) Install the master cylinder to the body, and attach the clutch pipe to the master cylinder.

NOTE:
Check that the pipe is routed properly.

Tightening torque:
Clutch pipe
15 N·m (1.5 kgf-m, 10.8 ft-lb)
Master cylinder
18 N·m (1.8 kgf-m, 13.0 ft-lb)



2) Apply grease to the clevis pin.
3) Connect the push rod of master cylinder to clutch pedal, and install the new clevis pin and snap pin.

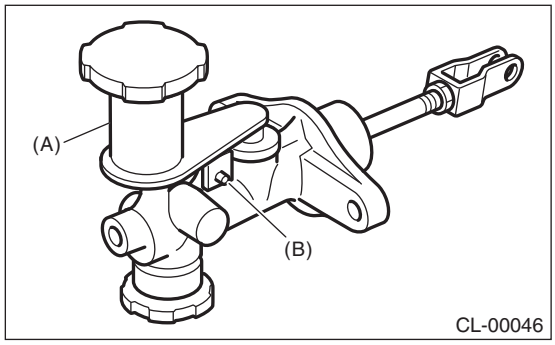


(A) Clevis pin
(B) Snap pin
(C) Push rod

4) After bleeding air from system, ensure that the clutch operates properly.
<Ref. to CL-23, Clutch Fluid Air Bleeding.>
5) Install the air intake chamber. (Non-turbo model)
<Ref. to IN (H4SO)-6, INSTALLATION, Air Intake Chamber.>
6) Install the intercooler. (Turbo model)
<Ref. to IN(H4DOTC)-11, INSTALLATION, Intercooler.>

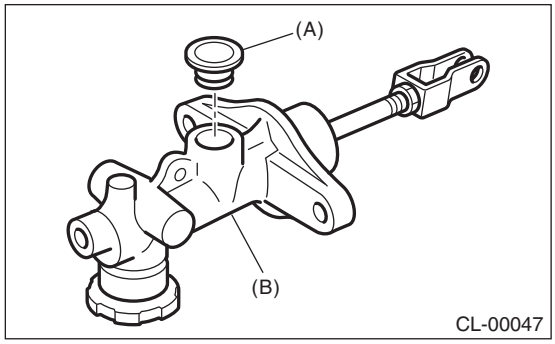
C: DISASSEMBLY

1) Remove the straight pin and reservoir tank.



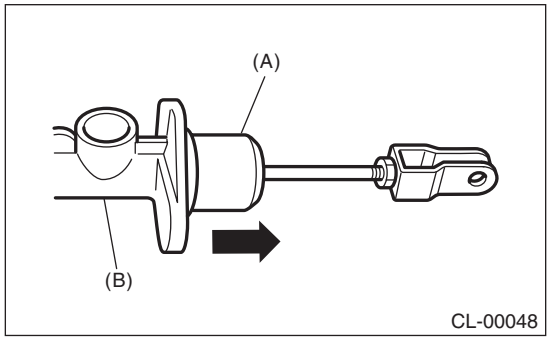
(A) Reservoir tank
(B) Straight pin

2) Remove the oil seal.



(A) Oil seal
(B) Master cylinder

3) Move the cylinder boot towards the rear.



(A) Cylinder boot
(B) Master cylinder

4) Remove the snap ring.

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

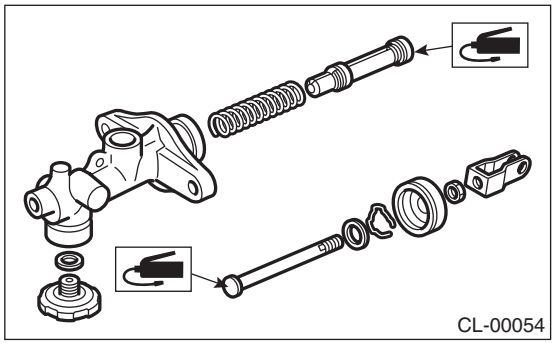
D: ASSEMBLY

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 contact surfaces of the push rod and piston before installation.

Grease:
SILICONE GREASE G40M (Part No. 004404003)

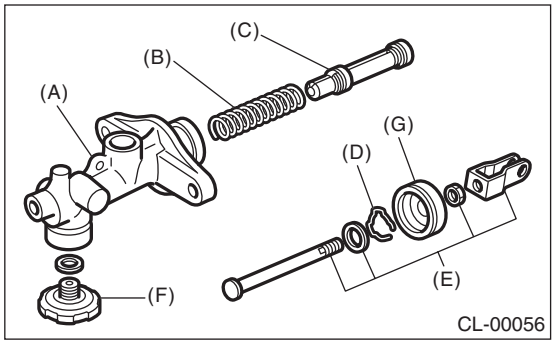


3) Assemble in the reverse order of disassembly.

Tightening torque:
10 N·m (1.0 kgf-m, 7 ft-lb)

E: INSPECTION

If any damage, deformation, wear, swelling, rust or other problems are found on the cylinder, piston, push rod, fluid reservoir, return spring, gasket, cylinder boot or 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