

FRONT DISC BRAKE ASSEMBLY

Brake

4. Front Disc Brake Assembly

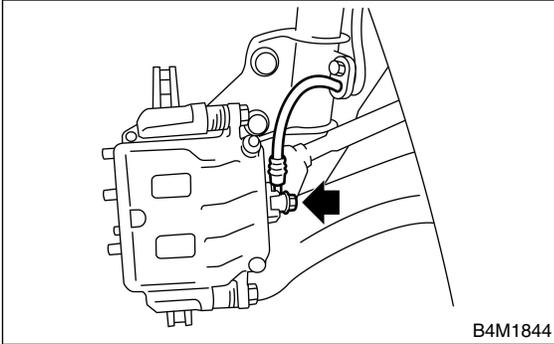
S405176

A: REMOVAL S405176A18

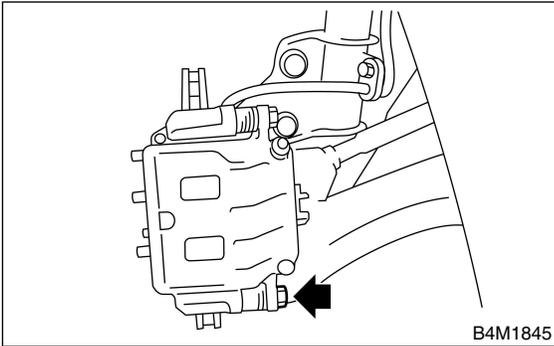
- 1) Loosen wheel nuts, jack-up vehicle, support it with safety stands, and remove wheel.
- 2) Remove union bolt and disconnect brake hose from caliper body assembly.

CAUTION:

Do not spill brake fluid on painted surface. Wash it off immediately.



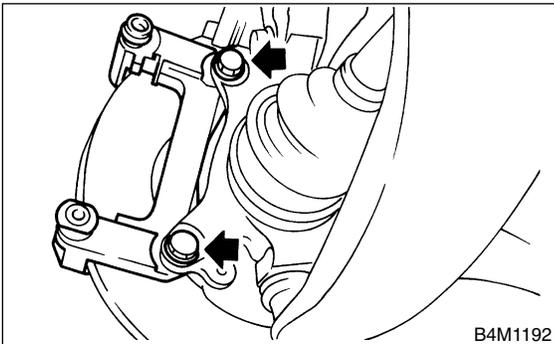
- 3) Remove bolt securing lock pin to caliper body.



- 4) Raise caliper body and move it toward vehicle center to separate it from support.
- 5) Remove support from housing.

NOTE:

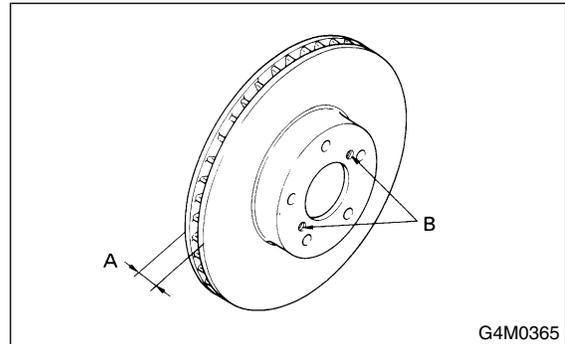
Remove support only when replacing it or the rotor. It need not be removed when servicing caliper body assembly.



- 6) Remove disc rotor from hub.

NOTE:

If disc rotor seizes up within hub, drive disc rotor out by installing an 8-mm bolt in holes B on the rotor.



- 7) Clean mud and foreign particles from caliper body assembly and support.

B: INSTALLATION S405176A11

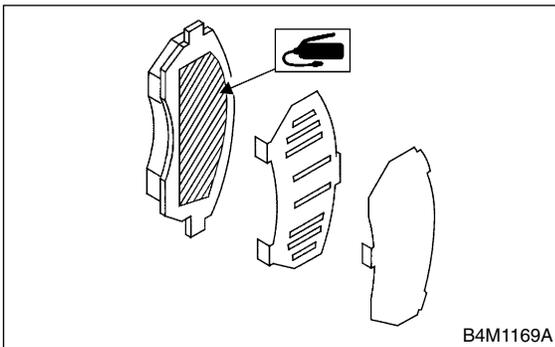
- 1) Install disc rotor on hub.
- 2) Install support on housing.

Tightening torque:
78 N·m (8 kgf·m, 58 ft·lb)

CAUTION:

- Always replace the pads for both the left and right wheels at the same time. Also replace pad clips if they are twisted or worn.
- A wear indicator is provided on the inner disc brake pad. If the pad wears down to such an extent that the end of the wear indicator contacts the disc rotor, a squeaking sound is produced as the wheel rotates. If this sound is heard, replace the pad.
- When replacing the pads, replace pads of the right and left wheels at the same time.

- 3) Apply thin coat of Molykote AS880N (Part No. 26298AC000) to the frictional portion between pad and pad clip.
- 4) Apply thin coat of Molykote AS880N (Part No. 26298AC000) to the frictional portion between pad and inner shim.



- 5) Install pads on support.
- 6) Install caliper body on support.

Tightening torque:
39 N·m (4.0 kgf·m, 28.9 ft·lb)

- 7) Connect brake hose.

Tightening torque:
18 N·m (1.8 kgf·m, 13.0 ft·lb)

CAUTION:

Replace brake hose gaskets with new ones.

- 8) Bleed air from brake system.

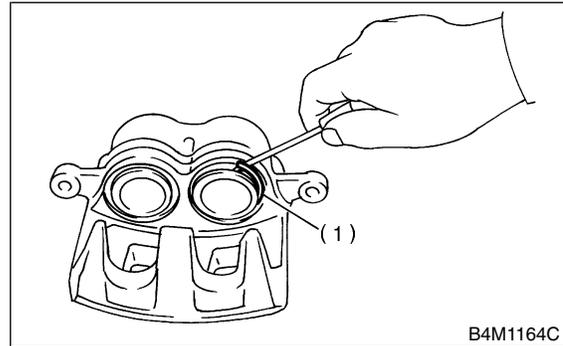
C: DISASSEMBLY S405176A06

- 1) Clean mud and foreign particles from caliper body assembly and support.

CAUTION:

Be careful not to allow foreign particles to enter inlet (at brake hose connector).

- 2) Using a slot-type screwdriver, remove boot ring from piston.

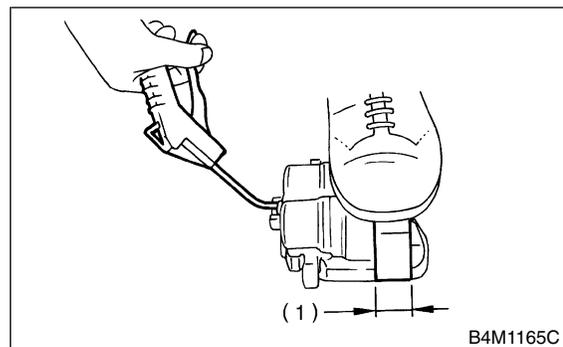


(1) Boot ring

- 3) Remove boot from piston end.
- 4) Gradually supply compressed air via caliper body brake hose to force piston out.

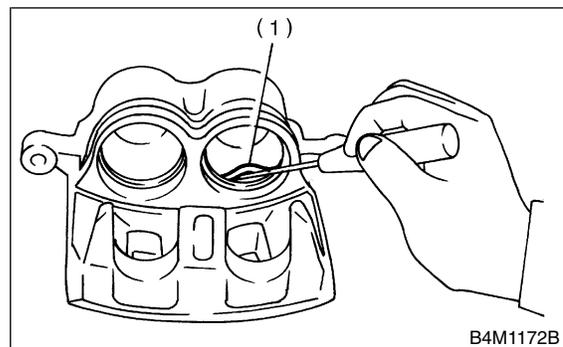
CAUTION:

Place a wooden block as shown in Figure to prevent damage to piston.



(1) Place a 30 mm (1.18 in) wide wooden block here.

- 5) Remove piston seal from caliper body cylinder.



(1) Piston seal

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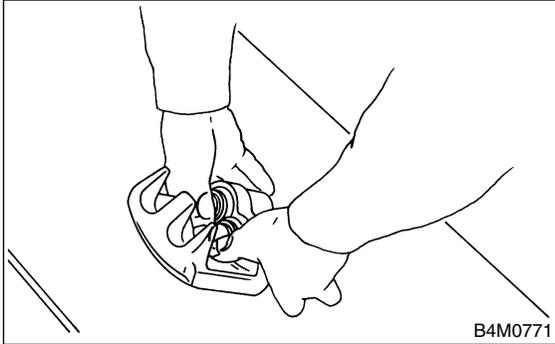
6) Remove lock pin boot and guide pin boot.

D: ASSEMBLY S405176A02

- 1) Clean caliper body interior using brake fluid.
- 2) Apply a coat of brake fluid to piston seal and fit piston seal in groove on caliper body.
- 3) Apply a coat of brake fluid to the entire inner surface of cylinder and outer surface of piston.
- 4) Insert piston into cylinder.

CAUTION:

Do not force piston into cylinder.

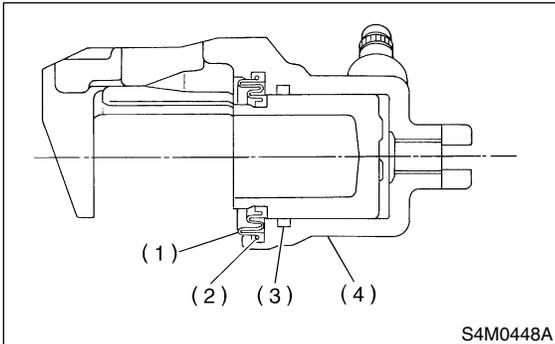


5) Apply a coat of specified grease to boot and fit in groove on ends of cylinder and piston.

Grease:

NIGLUBE RX-2 (Part No. 003606000)

To facilitate installation, fit boot starting with piston end.



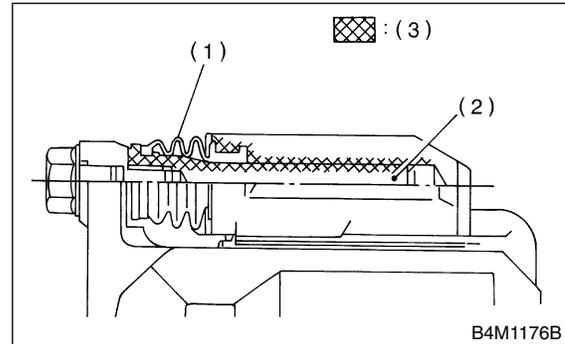
- (1) Piston boot
- (2) Boot ring
- (3) Piston seal
- (4) Caliper body

- 6) Position boot in grooves on cylinder and piston.
- 7) Install boot ring. Be careful not scratch boot.

8) Apply a coat of specified grease to lock pin and guide pin, outer surface, cylinder inner surface, and boot grooves.

Grease:

NIGLUBE RX-2 (Part No. 003606000)



- (1) Pin boot
- (2) Lock pin or guide pin
- (3) Apply grease.

9) Install lock pin boot and guide pin boot on support.

E: INSPECTION S405176A10

- 1) Repair or replace faulty parts.
- 2) Check caliper body and piston for uneven wear, damage or rust.
- 3) Check rubber parts for damage or deterioration.