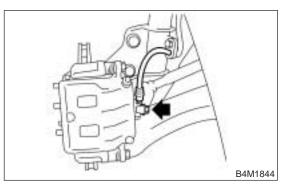
4. Front Disc Brake Assembly

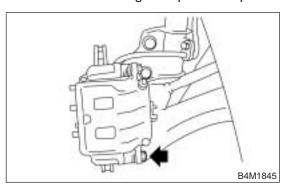
S405176

A: REMOVAL S405176A18

1) Remove union bolt and disconnect brake hose from caliper body assembly.



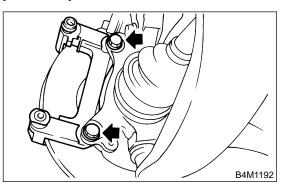
2) Remove bolt securing lock pin to caliper body.



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

NOTE:

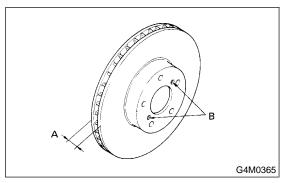
Remove support only when replacing it or the rotor. It need not be removed when servicing caliper body assembly.



5) 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.



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

B: INSTALLATION S405176A11

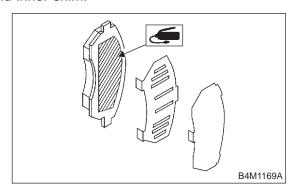
- 1) Install disc rotor on hub.
- 2) Install support on housing.

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:

14 inch type 37 N·m (3.8 kgf-m, 27.5 ft-lb) Except 14 inch type 39 N·m (4.0 kgf-m, 28.9 ft-lb)

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. 14 inch TYPE \$405176A0602
- 1) Clean mud and foreign particles from caliper body assembly and support.

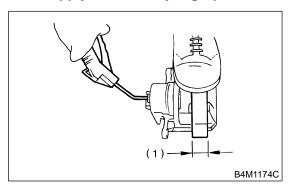
CAUTION:

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

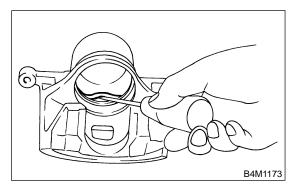
2) Gradually supply compressed air via caliper body brake hose to force piston out.

CAUTION:

- Place a wooden block as shown in Figure to prevent damage to piston.
- Do not apply excessively high-pressure.



- (1) Place a 30 mm (1.18 in) wide wooden block here.
- 3) Remove piston boot.
- 4) Remove piston seal from caliper body cylinder.



5) Remove guide pin and boot from caliper body.

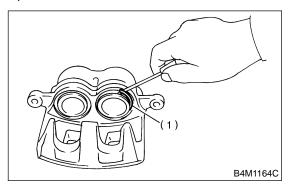
2. 15 inch AND 16 inch TYPE \$405176A0603

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).

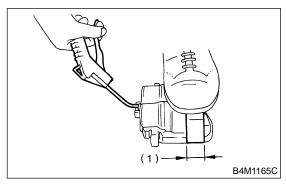
2) Using a standard screwdriver, remove boot ring from piston.



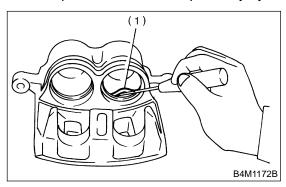
- (1) Boot ring
- 3) Remove boot from piston end.
- 4) Gradually supply compressed air via caliper body brake hose to force piston out.

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 pin
- 6) Remove lock pin boot and guide pin boot.

D: ASSEMBLY S405176A02

- 1. 14 inch TYPE \$405176A0202
- 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) Apply a coat of specified grease to boot and fit in groove on ends of cylinder and install piston boot onto cylinder.

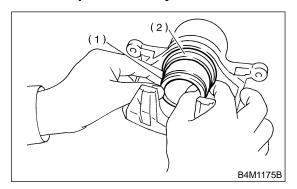
Grease:

NIGLUBE RX-2 (Part No. 003606000)

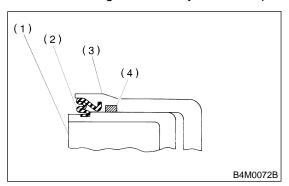
5) Insert piston into cylinder.

CAUTION:

Do not force piston into cylinder.



- (1) Piston
- (2) Piston boot
- 6) Position boot in grooves on cylinder and piston.



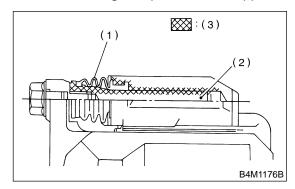
- (1) Piston
- (2) Piston boot
- 3) Caliper body
- (4) Piston seal

7) 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)

8) Install lock and guide pin boot on support.



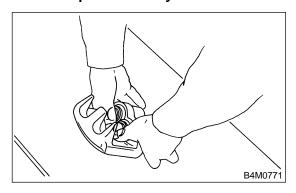
- (1) Pin boot
- (2) Lock pin or guide pin
- (3) Apply grease.

2. 15 inch AND 16 inch TYPE S405176A0203

- 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.
- Insert piston into cylinder.

CAUTION:

Do not force piston into cylinder.

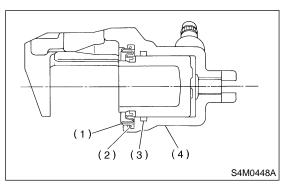


5) Apply a coat of specified grease to boot and fit in groove on ends of cylinder and piston.

Grease:

NIGLUBE RX-2 (Part No. 003606000)

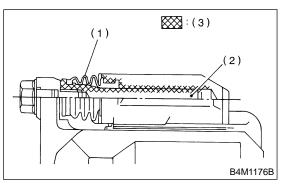
To facilitate installation, fit boot starting with piston end.



- (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

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