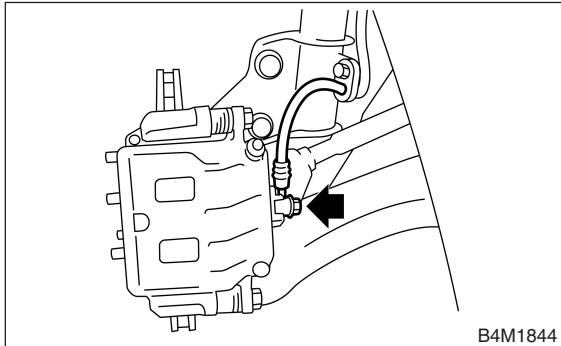


## 4. Front Disc Brake Assembly

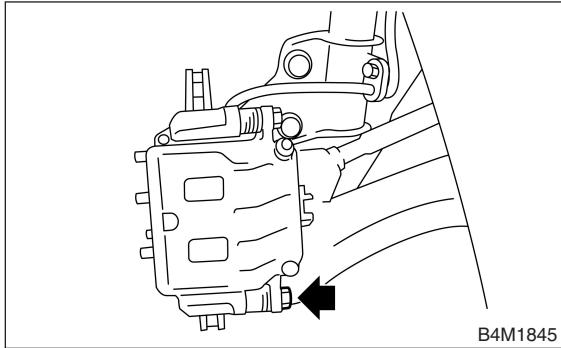
S405176

### A: REMOVAL S405176A18

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



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

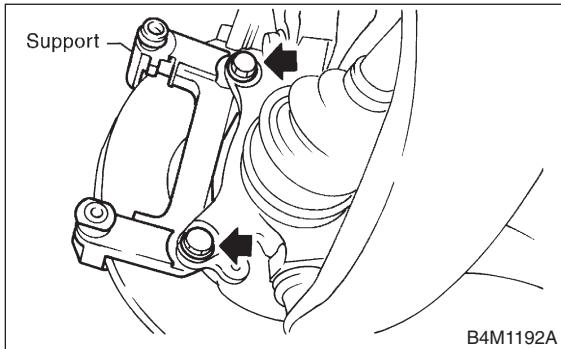


- 3) Raise caliper body and move it toward vehicle center to separate it from support.

- 4) Remove support from housing.

**NOTE:**

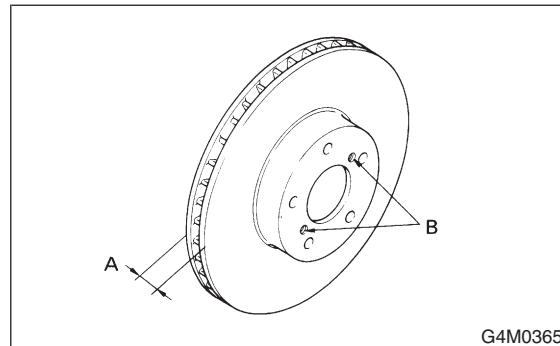
Remove support only when replacing it or the rotor. It need not be removed when servicing caliper body assembly.



- 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.

## FRONT DISC BRAKE ASSEMBLY

## B: INSTALLATION

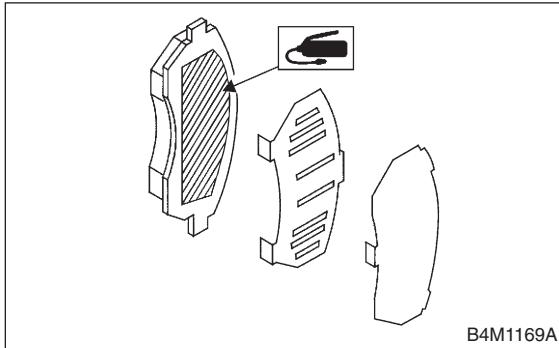
S405176A11

- 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. 14 inch TYPE

S405176A0602

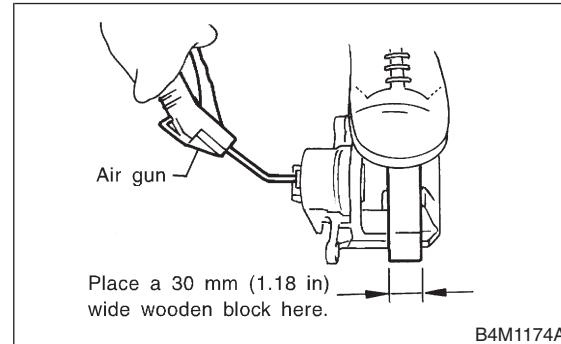
- 1) Clean mud and foreign particles from caliper body assembly and support.

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

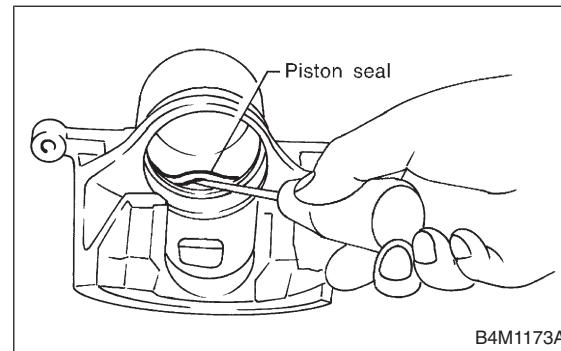
- 2) Gradually supply compressed air via caliper body brake hose to force piston out.

**CAUTION:**

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



- 3) Remove piston boot.
- 4) Remove piston seal from caliper body cylinder.



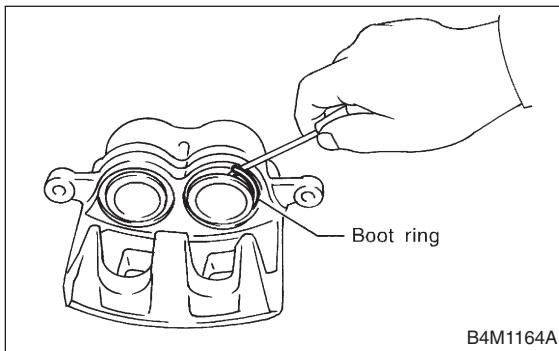
- 5) Remove guide pin and boot from caliper body.

**2. 15 inch AND 16 inch TYPE** S405176S0603

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

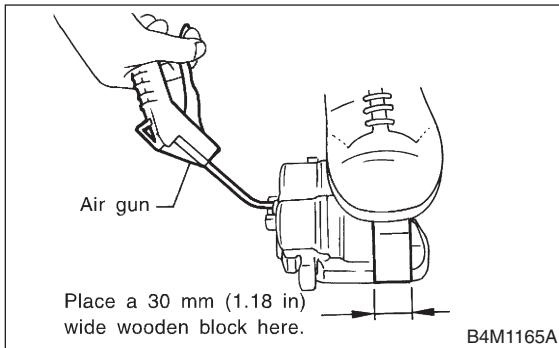
**CAUTION:**  
Be careful not to allow foreign particles to enter inlet (at brake hose connector).

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

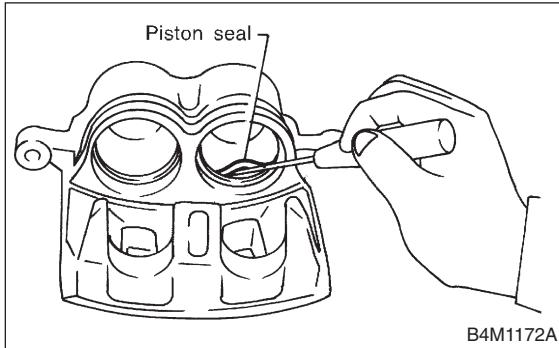


- 3) Remove boot from piston end.
- 4) Gradually supply compressed air via caliper body brake hose to force piston out.

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



- 5) Remove piston seal from caliper body cylinder.



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

**D: ASSEMBLY** S405176A02

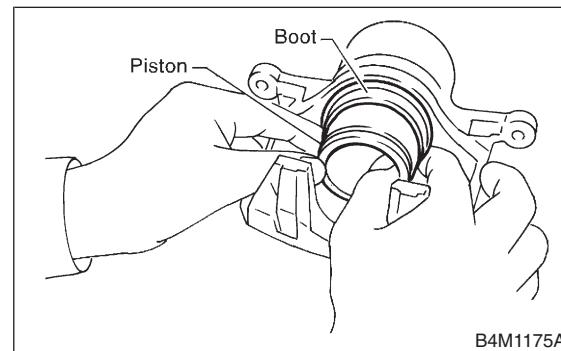
**1. 14 inch TYPE** S405176A0202

- 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.

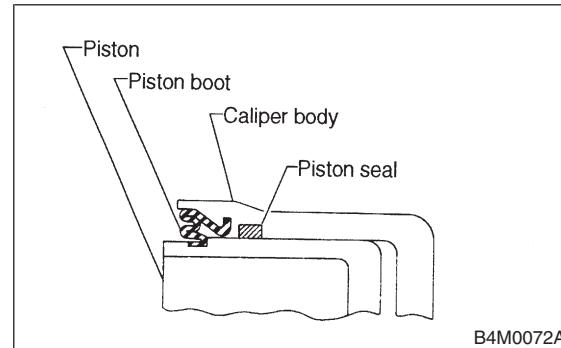
**Grease:**  
**NIGLUBE RX-2 (Part No. 003606000)**

- 5) Insert piston into cylinder.

**CAUTION:**  
Do not force piston into cylinder.



- 6) Position boot in grooves on cylinder and piston.



# FRONT DISC BRAKE ASSEMBLY

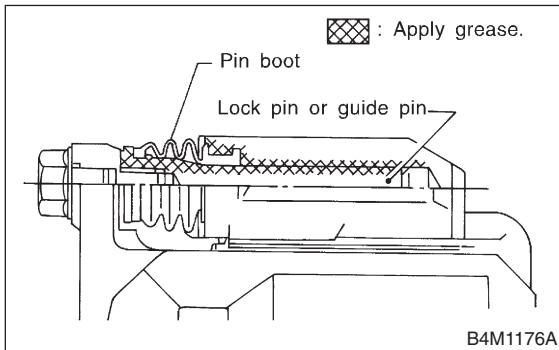
## Brake

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.

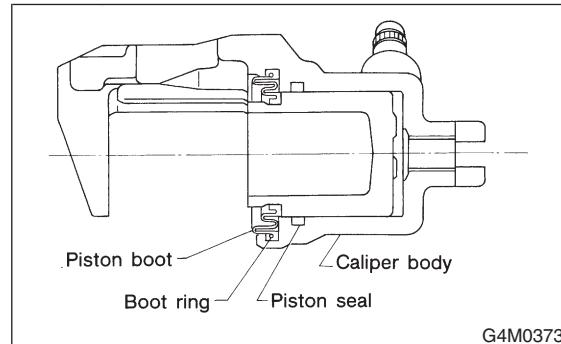


5) Apply a coat of specified grease to boot and fit in groove on ends of cylinder and piston.

### Grease:

**NIGLUBE RX-2 (Part No. 003606000)**

To facilitate installation, fit boot starting with piston end.

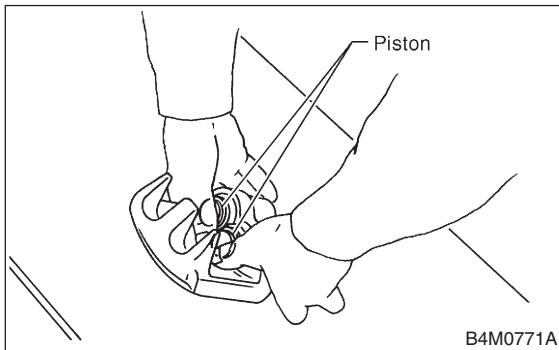


## 2. 15 inch AND 16 inch TYPE S40517650203

- 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.**



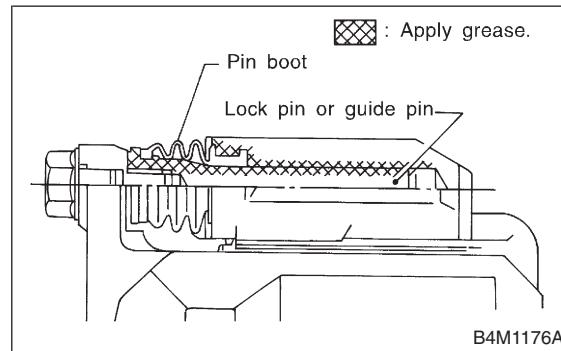
6) Position boot in grooves on cylinder and piston.

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)**



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.