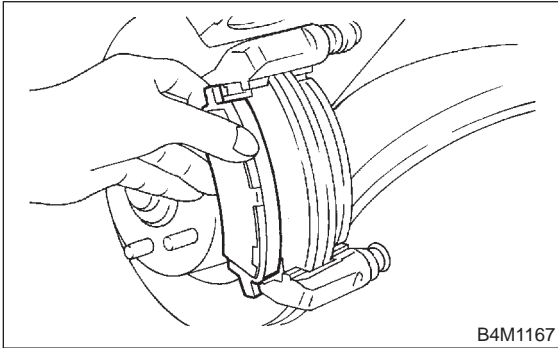


1. Front Disc Brake

A: ON-CAR SERVICE

1. PAD

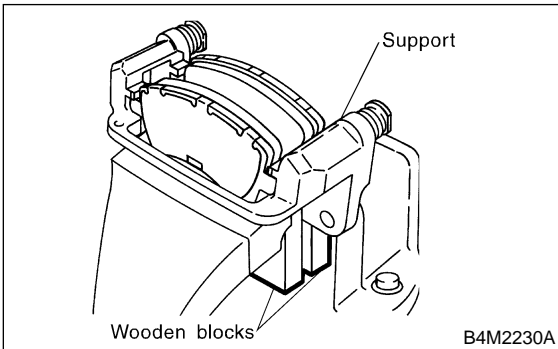
- 1) Remove lock pin.
- 2) Raise caliper body.
- 3) Remove pad.



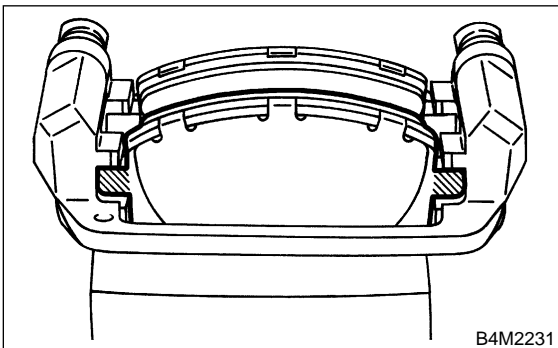
NOTE:

If brake pad is difficult to remove, proceed as follows:

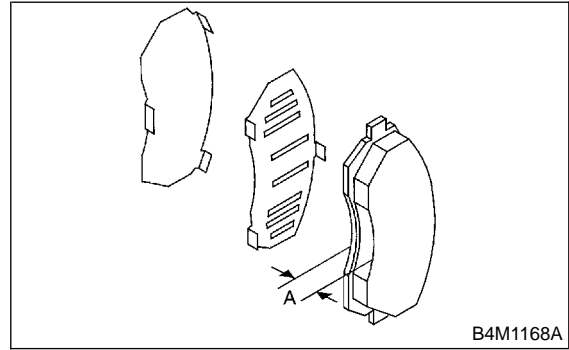
- (1) Remove caliper body and fasten it provisionally to coil spring.
- (2) Remove support.
- (3) Place a support in a vise between wooden blocks.



- (4) Attach a rod of less than 12 mm (0.47 in) dia. to the shaded area of brake pad, and strike the rod with a hammer to drive brake pad out of place.



- 4) Check pad thickness A.



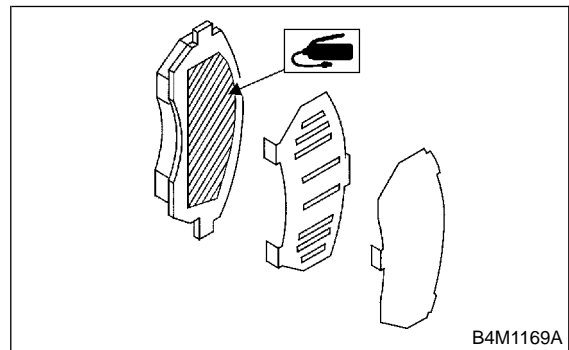
Pad thickness (including back metal)	Standard value	17 mm (0.67 in)
	Wear limit	7.5 mm (0.295 in)

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.
- Replace pad if there is oil or grease on it.

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

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



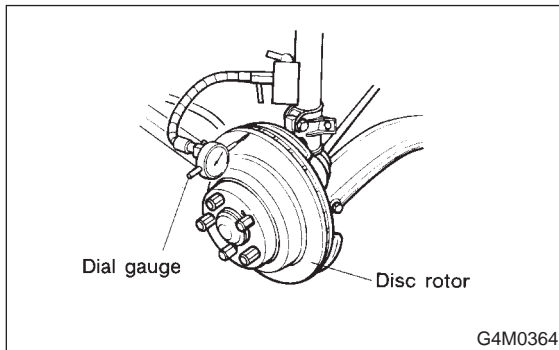
- 7) Install pads on support.
- 8) Install caliper body on support.

NOTE:

If it is difficult to push piston during pad replacement, loosen air bleeder to facilitate work.

2. DISC ROTOR

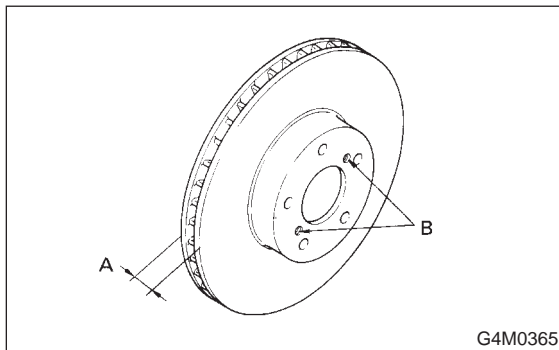
- 1) Install disc rotor by tightening the five wheel nuts.
- 2) Set a dial gauge on the disc rotor. Turn disc rotor to check runout.



NOTE:
Make sure that dial gauge is set 5 mm (0.20 in) inward of rotor outer perimeter.

Disc rotor runout limit:
0.075 mm (0.0030 in)

- 3) Measure disc rotor thickness.

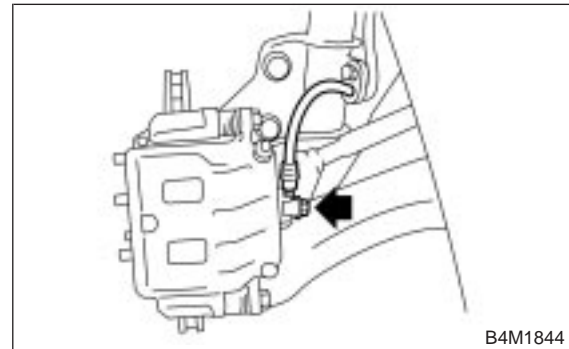


NOTE:
Make sure that micrometer is set 5 mm (0.20 in) inward of rotor outer perimeter.

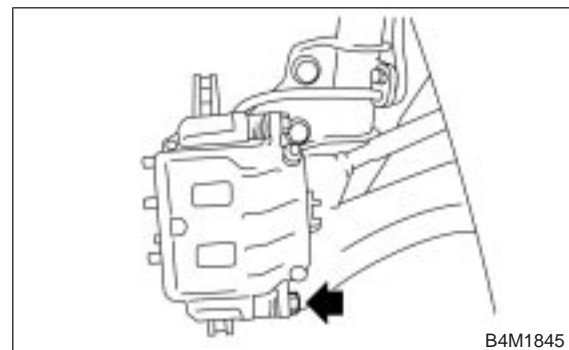
		Standard value	Service limit	Disc outer dia.
Disc rotor thickness A	14"	24.0 mm (0.945 in)	22.0 mm (0.866 in)	260 mm (10.24 in)
	15"	24.0 mm (0.945 in)	22.0 mm (0.866 in)	277 mm (10.91 in)

B: REMOVAL

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

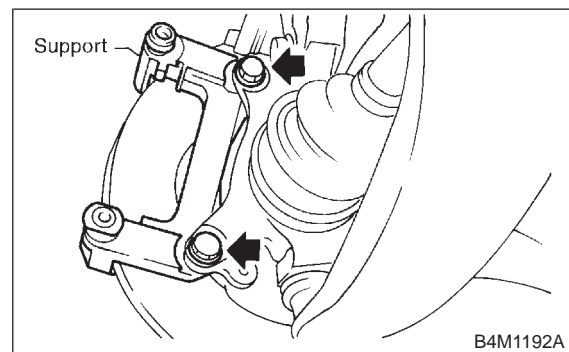


- 2) Remove bolt securing lock pin to caliper body.



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

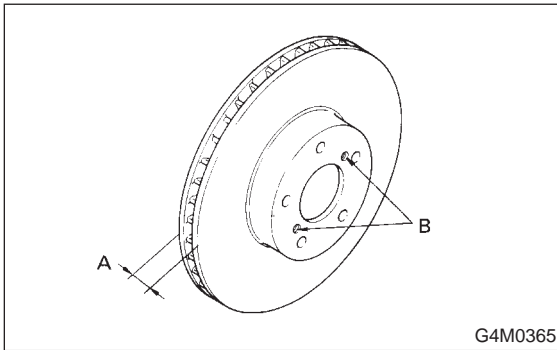
NOTE:
Remove support only when replacing it or the rotor. It need not be removed when servicing caliper body assembly.



5) Remove disc rotor from hub.

NOTE:

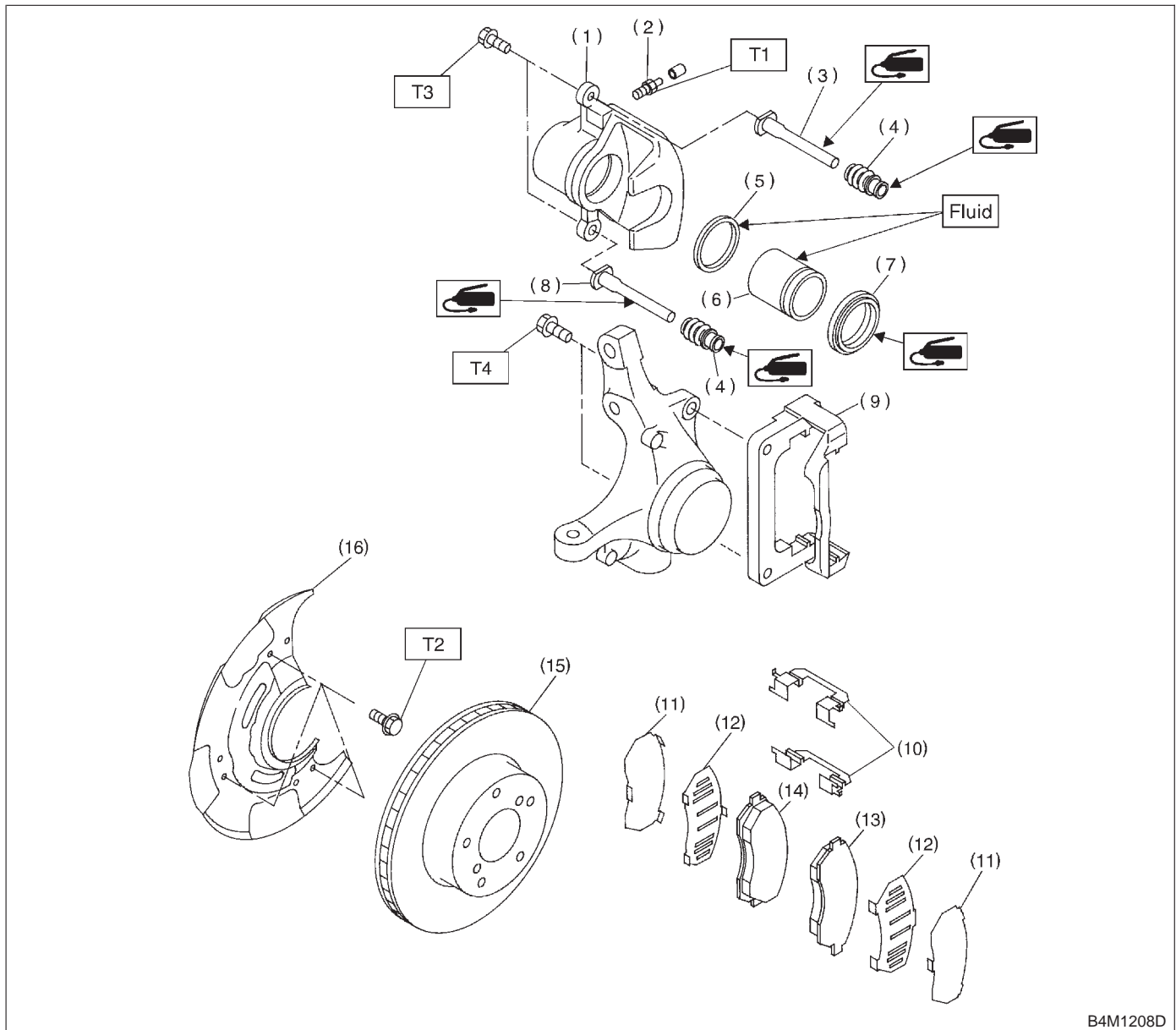
If disc rotor seizes up within hub, drive disc rotor out by installing an 8-mm bolt in holes B on the rotor.



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

C: DISASSEMBLY

1. 14 inch TYPE



B4M1208D

- | | |
|-----------------------|--------------------|
| (1) Caliper body | (9) Support |
| (2) Air bleeder screw | (10) Pad clip |
| (3) Guide pin (Green) | (11) Outer shim |
| (4) Pin boot | (12) Inner shim |
| (5) Piston seal | (13) Pad (Inside) |
| (6) Piston | (14) Pad (Outside) |
| (7) Piston boot | (15) Disc rotor |
| (8) Lock pin (Yellow) | (16) Disc cover |

Tightening torque: N-m (kg-m, ft-lb)

T1: 8±1 (0.8±0.1, 5.8±0.7)

T2: 18±5 (1.8±0.5, 13.0±3.6)

T3: 37±5 (3.8±0.5, 27.5±3.6)

T4: 78±10 (8.0±1.0, 58±7)

1. Front Disc Brake

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

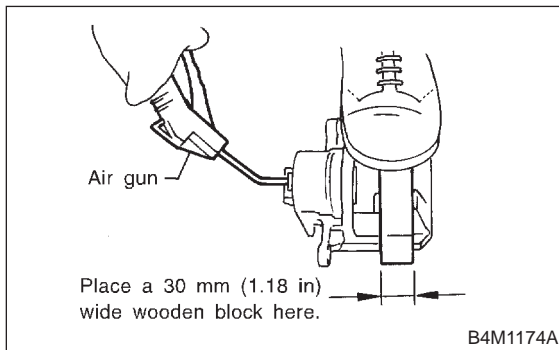
CAUTION:

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.

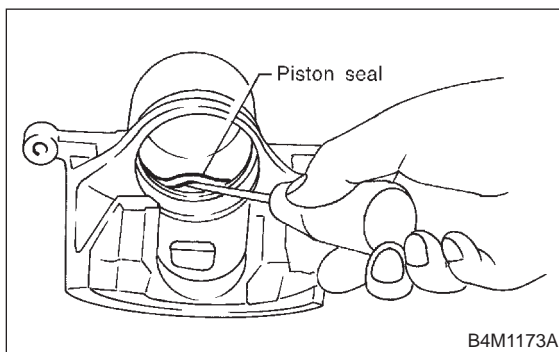
CAUTION:

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



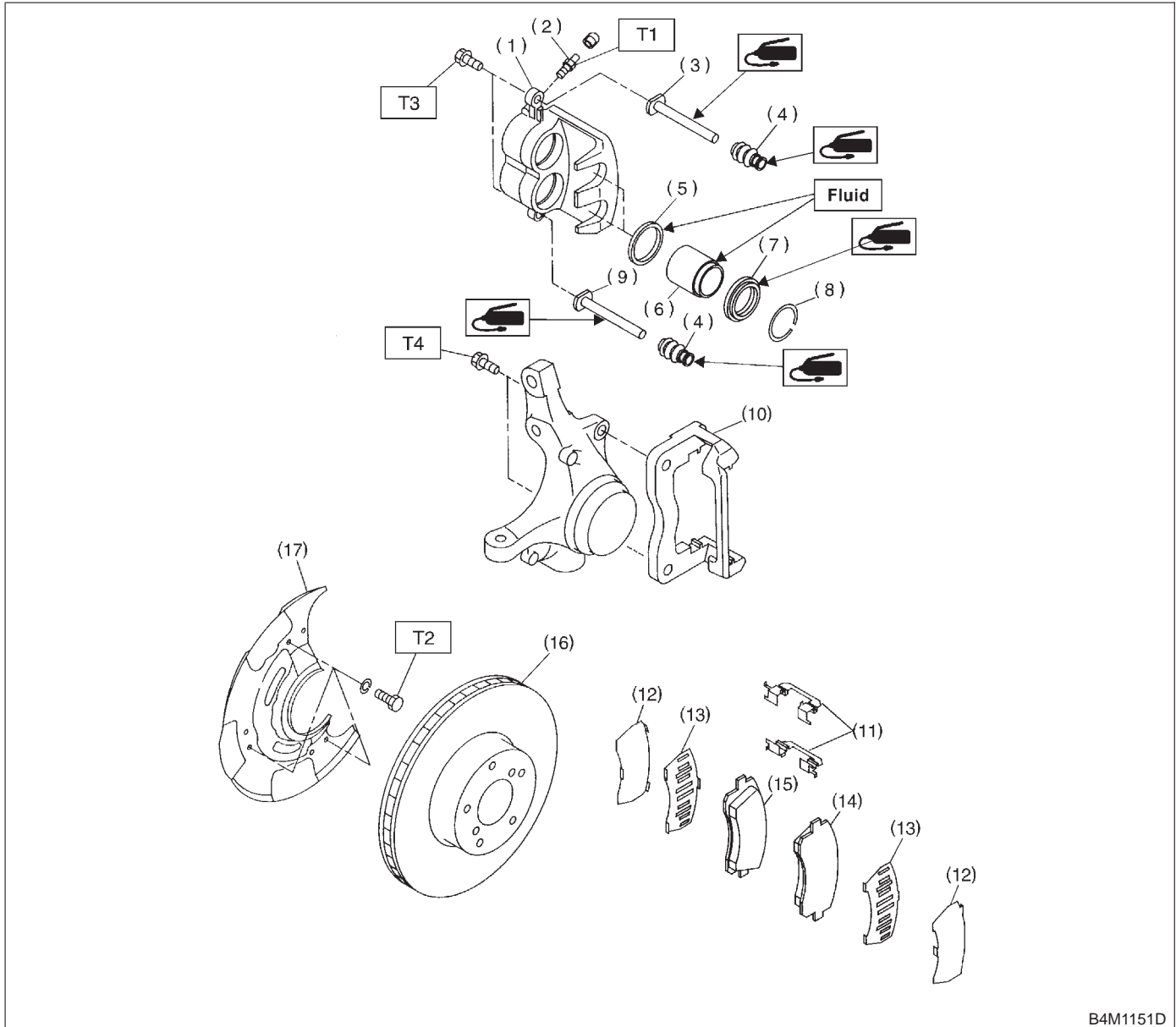
3) Remove piston boot.

4) Remove piston seal from caliper body cylinder.



5) Remove guide pin and boot from caliper body.

2. 15 inch TYPE



B4M1151D

- (1) Caliper body
- (2) Air bleeder screw
- (3) Guide pin (Green)
- (4) Pin boot
- (5) Piston seal
- (6) Piston
- (7) Piston boot
- (8) Boot ring

- (9) Lock pin (Yellow)
- (10) Support
- (11) Pad clip
- (12) Outer shim
- (13) Inner shim
- (14) Pad (Outside)
- (15) Pad (Inside)
- (16) Disc rotor

- (17) Disc cover

Tightening torque: N·m (kg·m, ft·lb)

T1: 8±1 (0.8±0.1, 5.8±0.7)

T2: 18±5 (1.8±0.5, 13.0±3.6)

T3: 39±5 (4.0±0.5, 28.9±3.6)

T4: 78±10 (8.0±1.0, 58±7)

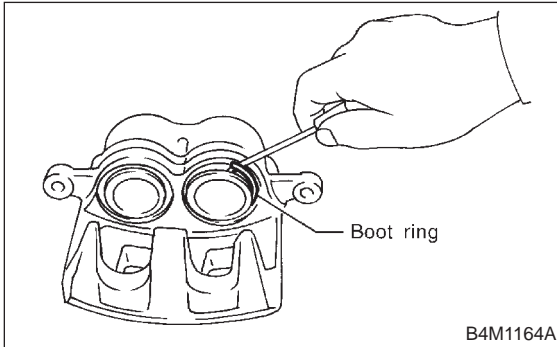
1. Front Disc Brake

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.

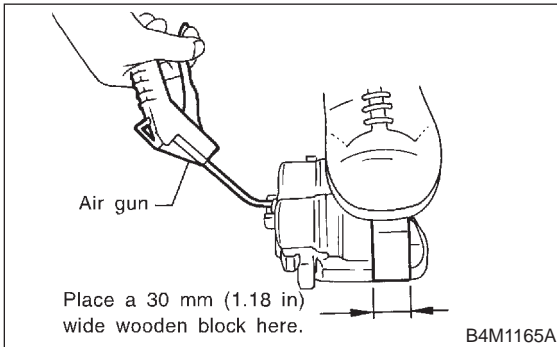


3) Remove boot from piston end.

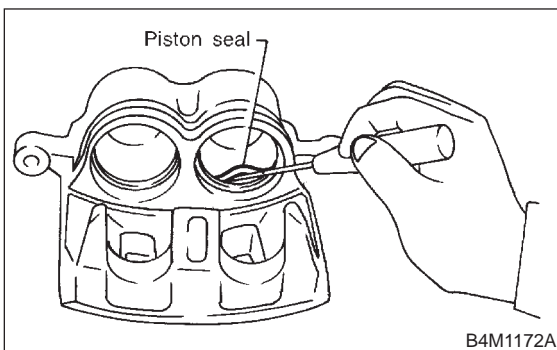
4) Gradually supply compressed air via caliper body brake hose to force piston out.

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: INSPECTION

- 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.

E: ASSEMBLY**1. 14 inch TYPE**

- 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.

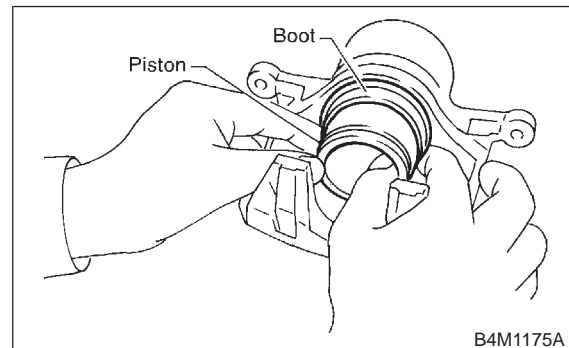
Grease:

NIGLUBE RX-2 (Part No. 003606000)

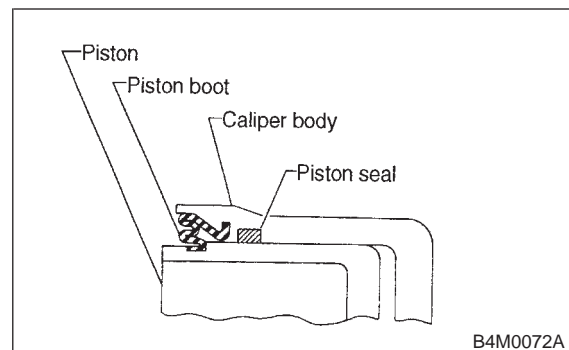
- 5) Insert piston into cylinder.

CAUTION:

Do not force piston into cylinder.



6) Position boot in grooves on cylinder and piston.

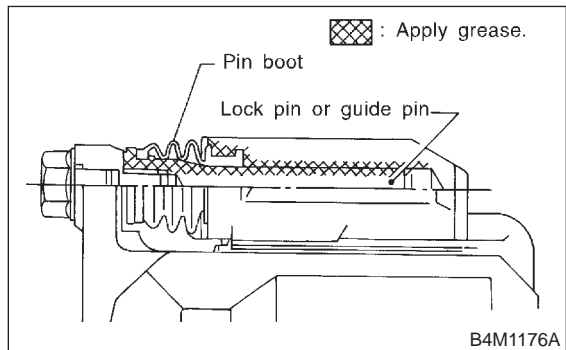


7) Apply a coat of specified grease to lock pin and guide pin outer surface, cylinder inner surface, and boot grooves.

Grease:

NIGLUBE RX-2 (Part No. 003606000)

8) Install lock and guide pin boot on support.

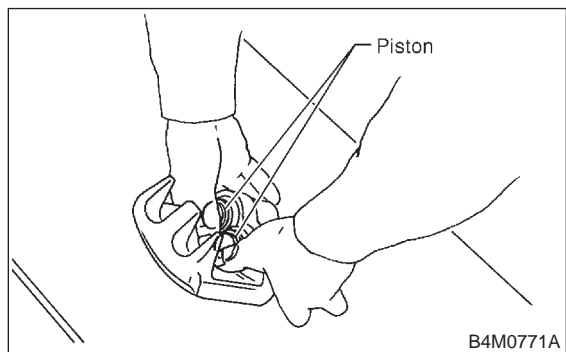


2. 15 inch TYPE

- 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.

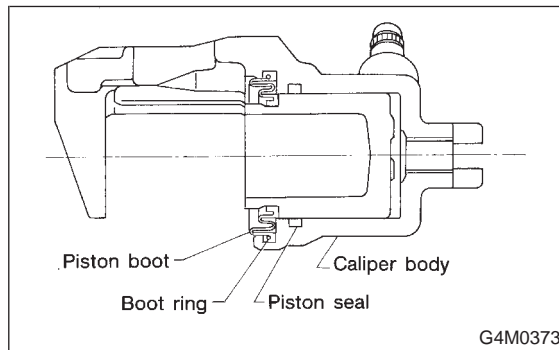


5) Apply a coat of specified grease to boot and fit in groove on ends of cylinder and piston.

Grease:

NIGLUBE RX-2 (Part No. 003606000)

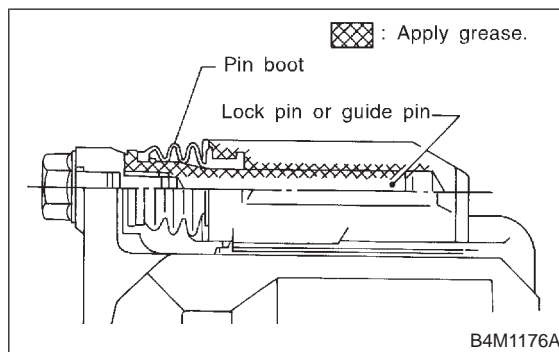
To facilitate installation, fit boot starting with piston end.



- 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.