

4. Front Disc Brake Assembly

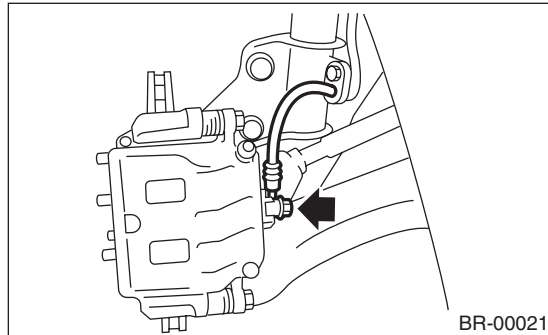
A: REMOVAL

1. 16-INCH TYPE

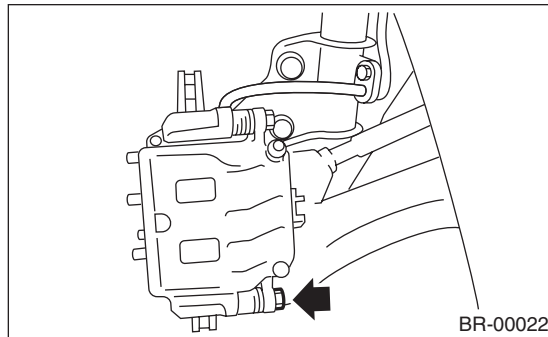
CAUTION:

Do not allow brake fluid to come in contact with vehicle body. If it does, wash off with water and wipe away completely.

- 1) Lift-up the vehicle, and remove the front wheels.
- 2) Remove the union bolt, and disconnect the brake hose from the caliper body assembly.



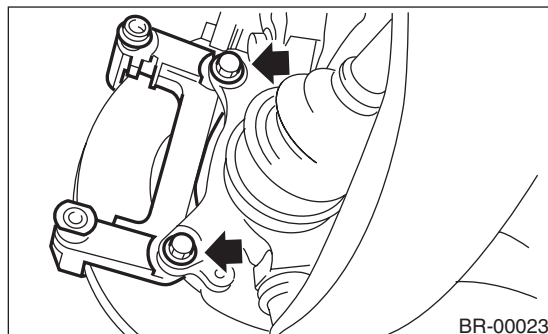
- 3) Remove the bolt securing the lock pin to caliper body.



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

NOTE:

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



- 6) Remove mud and foreign matter from the caliper body assembly and the support.

2. 17-INCH TYPE

Refer to 16-inch type. <Ref. to BR-17, 16-INCH TYPE, REMOVAL, Front Disc Brake Assembly.>

B: INSTALLATION

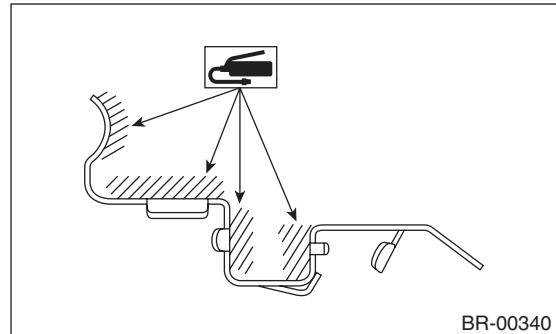
1. 16-INCH TYPE

- 1) Install the support to the housing.

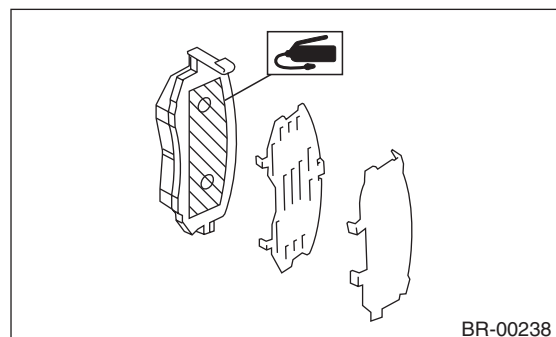
Tightening torque:

80 N·m (8.2 kgf-m, 59 ft-lb)

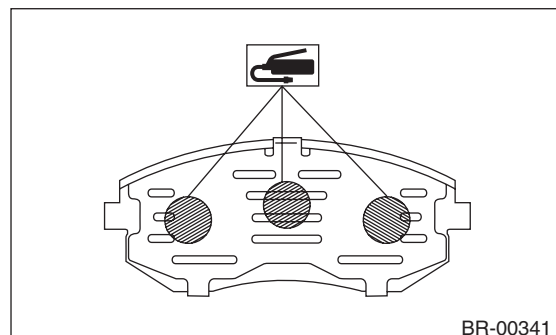
- 2) Apply a thin coat of Molykote M7439 (Part No. 003602001) to the pad clip.



- 3) Apply a thin coat of Molykote AS880N (Part No. K0777YA010) to the contact surface between pad and inner shim.



- 4) Apply a thin coat of Molykote AS880N (Part No. K0777YA010) to the three contact surfaces between inner shim and outer shim of outer pads.



- 5) Install the pad to support.

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6) Install the caliper body to the support.

Tightening torque:

27 N·m (2.8 kgf·m, 19.9 ft·lb)

7) Connect the brake hose using a new brake hose gasket.

Tightening torque:

18 N·m (1.8 kgf·m, 13.0 ft·lb)

8) Bleed air from the brake system.

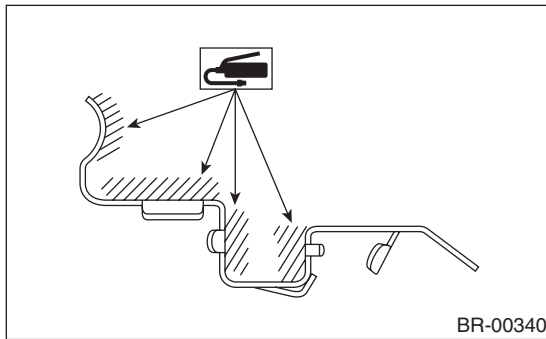
2. 17-INCH TYPE

1) Install the support to the housing.

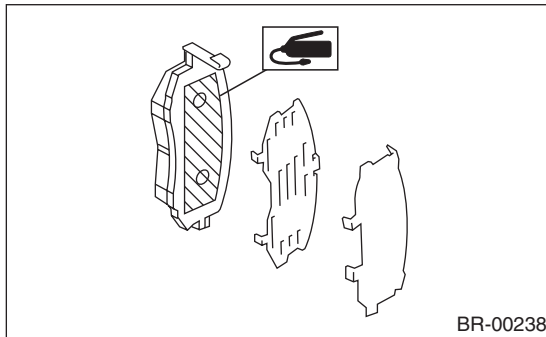
Tightening torque:

80 N·m (8.2 kgf·m, 59 ft·lb)

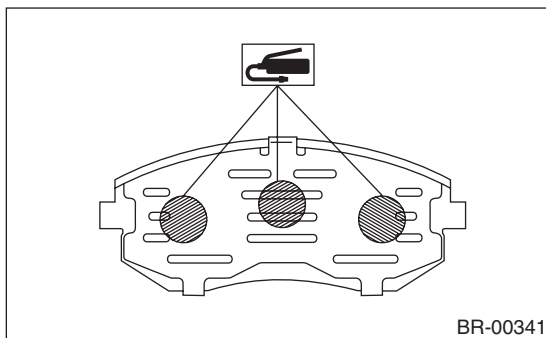
2) Apply a thin coat of Molykote M7439 to the pad clip.



3) Apply a thin coat of Molykote AS880N (Part No. K0777YA010) to the contact surface between pad and inner shim.



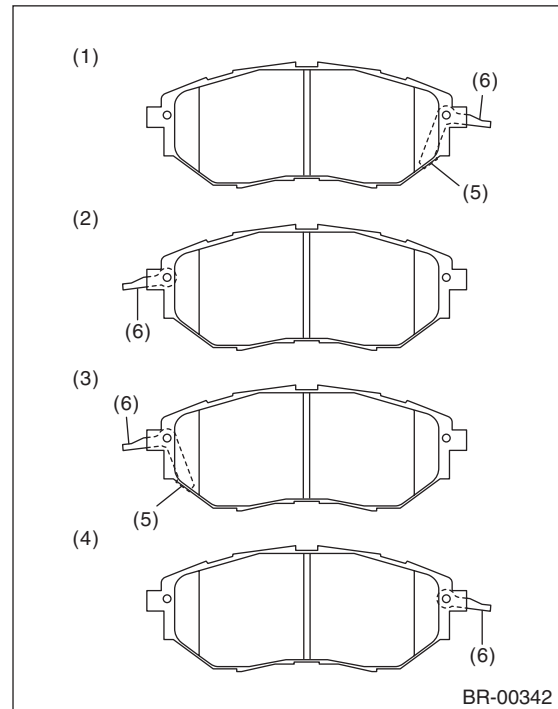
4) Apply a thin coat of Molykote AS880N (Part No. K0779YA010) to the three contact surfaces between inner shim and outer shim of outer pads.



5) Install the pad to support.

NOTE:

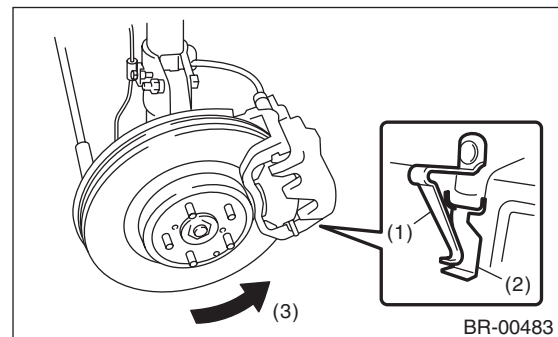
Install the pad indicator in proper direction.



- (1) LH - IN
- (2) LH - OUT
- (3) RH - IN
- (4) RH - OUT
- (5) Pad indicator
- (6) Pad return spring

CAUTION:

- Be sure to install so that the pad return spring faces the input side of the direction of brake rotor rotation, as shown in the figure.
- Correctly install the pad return spring to the supporting surface of the pad clip as shown in the figure.
- If the pad return spring is deformed or damaged, replace the brake pad.



- (1) Pad return spring
- (2) Supporting surface of pad clip
- (3) Direction of brake rotor rotation

- 6) Install the caliper body to the support.
- 7) Connect the brake hose using a new brake hose gasket.

Tightening torque:

18 N·m (1.8 kgf·m, 13.0 ft·lb)

- 8) Bleed air from the brake system.

C: DISASSEMBLY

1. 16-INCH TYPE

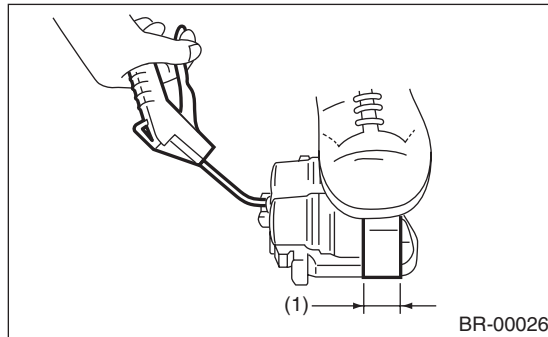
- 1) Remove mud and foreign matter from the caliper body assembly and the support.

CAUTION:

Be careful not to allow foreign matter to enter the brake hose connector.

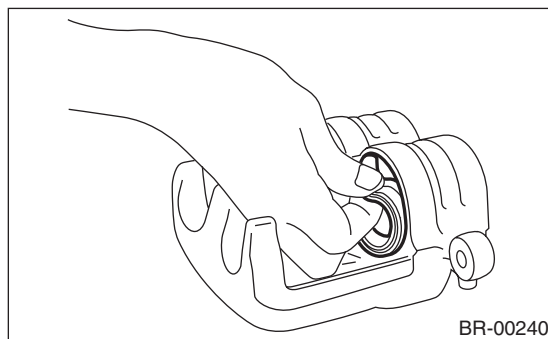
- 2) Place a wooden block in the caliper body as shown in the figure to prevent the piston from jumping out and being damaged.

- 3) Gradually apply compressed air via the brake hose installation hole to push the piston out.



(1) Place a wooden block of 30 mm (1.18 in) width.

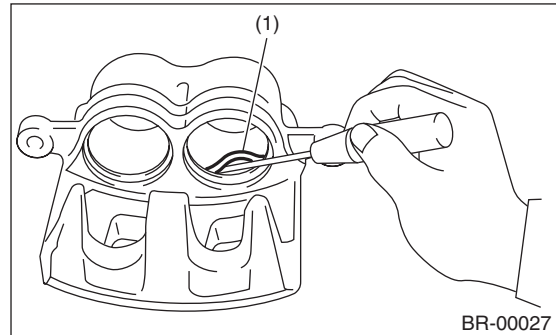
- 4) Remove the piston boot.



- 5) Remove the piston seal from caliper body cylinder.

CAUTION:

Do not damage the cylinder and piston seal groove.



(1) Piston seal

- 6) Remove the guide pin and boot from caliper body.

2. 17-INCH TYPE

Refer to 16-inch type. <Ref. to BR-19, 16-INCH TYPE, DISASSEMBLY, Front Disc Brake Assembly.>

D: ASSEMBLY

1. 16-INCH TYPE

- 1) Clean the inside of the caliper body using brake fluid.
- 2) Apply a coat of brake fluid to piston seal and install piston seal in the groove on caliper body.
- 3) Apply a coat of brake fluid to the inner surface of cylinder and the entire outer surface of the piston.
- 4) Apply a coat of specified grease to the boot, and fit to the groove on the ends of the cylinder.

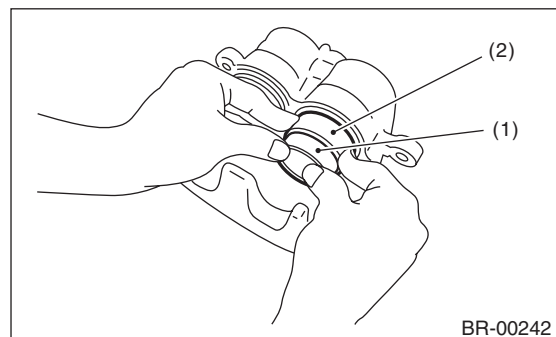
Grease:

NIGLUBE RX-2 (Part No. K0779GA102)

- 5) Insert the piston into cylinder.

CAUTION:

Do not force the piston into cylinder.

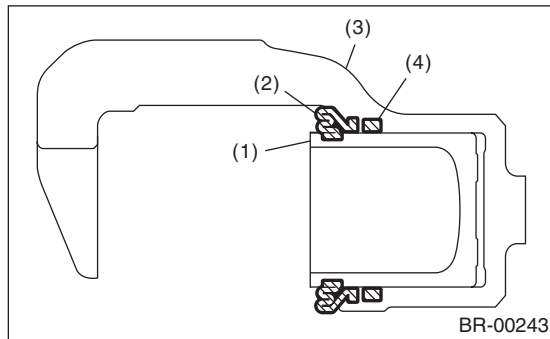


(1) Piston
(2) Piston boot

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



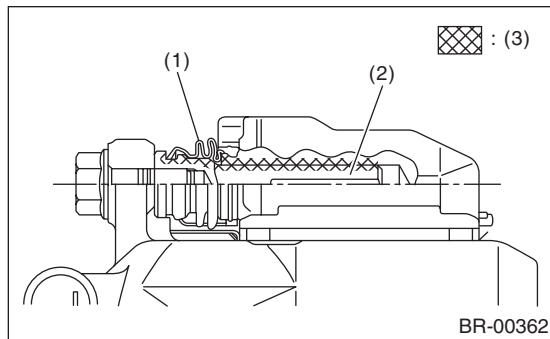
- (1) Piston
- (2) Piston boot
- (3) Caliper body
- (4) Piston seal

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

Grease:

NIGLUBE RX-2 (Part No. K0779GA102)

8) Insert the lock pin and guide pin boot into the support.



- (1) Pin boot
- (2) Lock pin or guide pin
- (3) Grease applied area

2. 17-INCH TYPE

Refer to 16-inch type. <Ref. to BR-19, 16-INCH TYPE, ASSEMBLY, Front Disc Brake Assembly.>

E: INSPECTION

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