

3. Parking Brake Assembly (Rear Disc Brake)

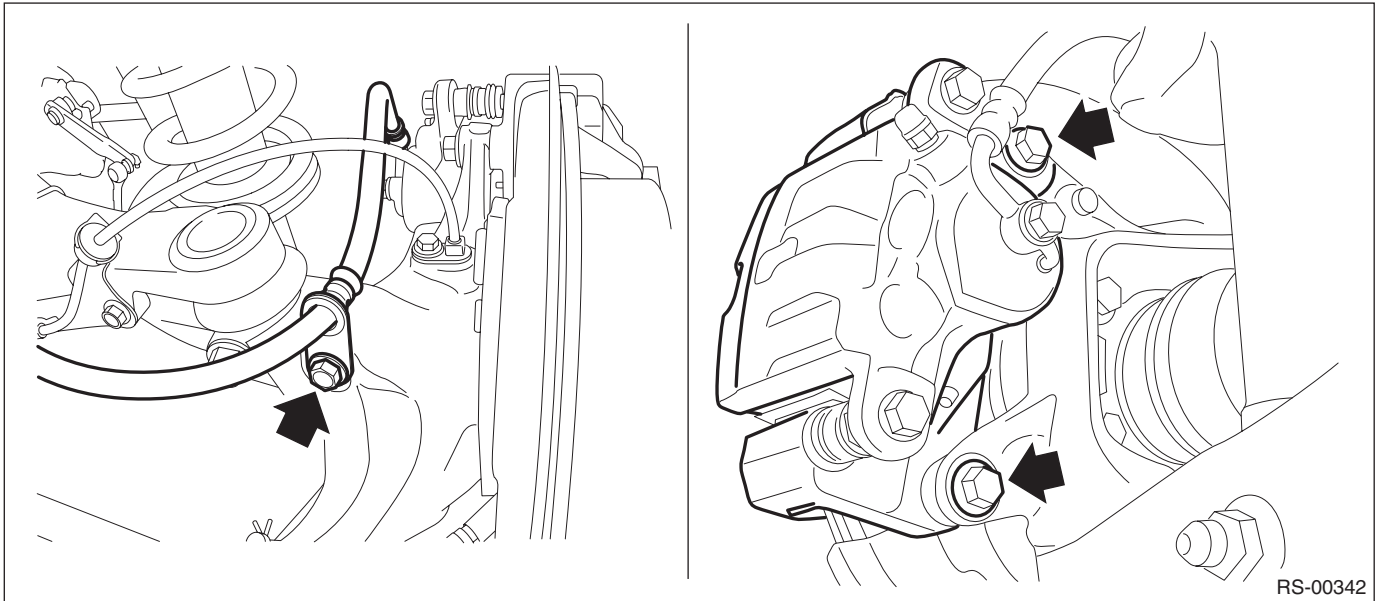
A: REMOVAL

- 1) Lift up the vehicle, and then remove the rear wheels.
- 2) Perform "Parking Brake Removal Mode" after connecting the Subaru Select Monitor. <Ref. to PB(diag)-18, PARKING BRAKE REMOVAL MODE, OPERATION, Subaru Select Monitor.>

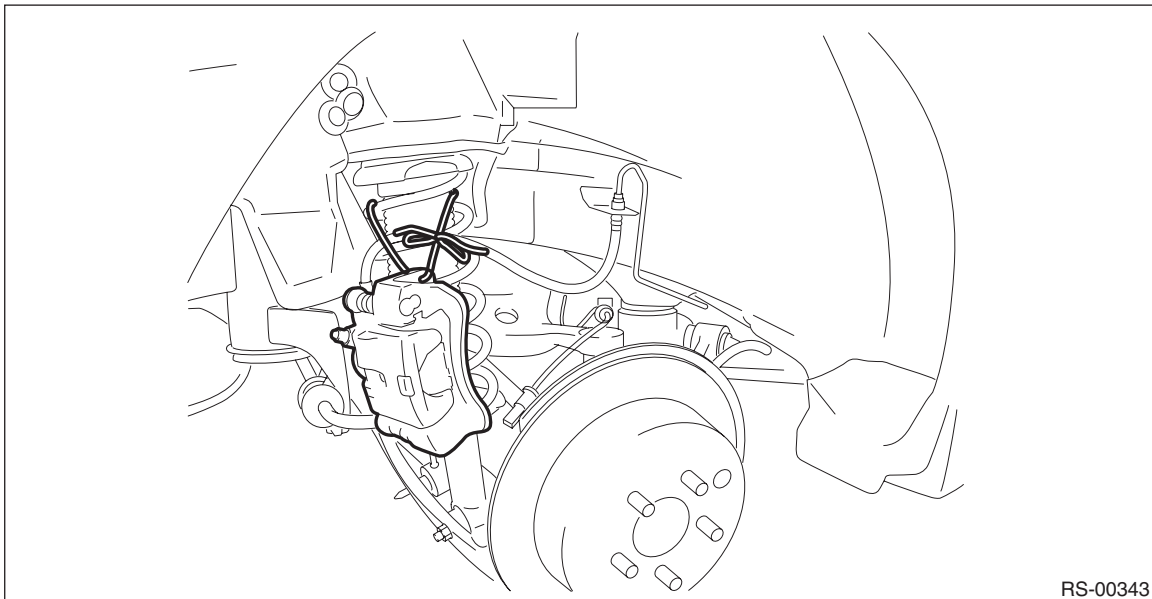
CAUTION:

Be sure to lift up the vehicle before performing the "Parking Brake Removal Mode".

- 3) Disconnect the ground cable from battery.
- 4) Remove the rear disc brake caliper from the rear axle housing.
 - (1) Remove the bolt from the brake hose bracket.
 - (2) Remove the mounting bolts, and then remove the rear disc brake caliper.



- (3) Prepare wiring harnesses etc. to be discarded, and suspend the rear disc brake caliper from the shock absorber with the harnesses.



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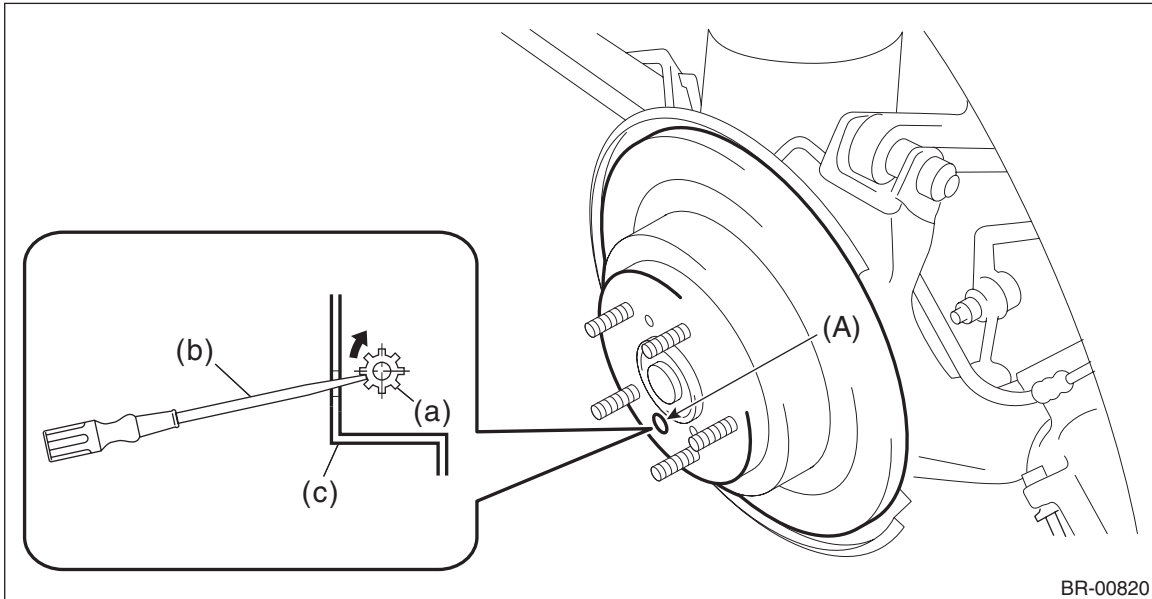
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5) Remove the rear disc brake rotor.

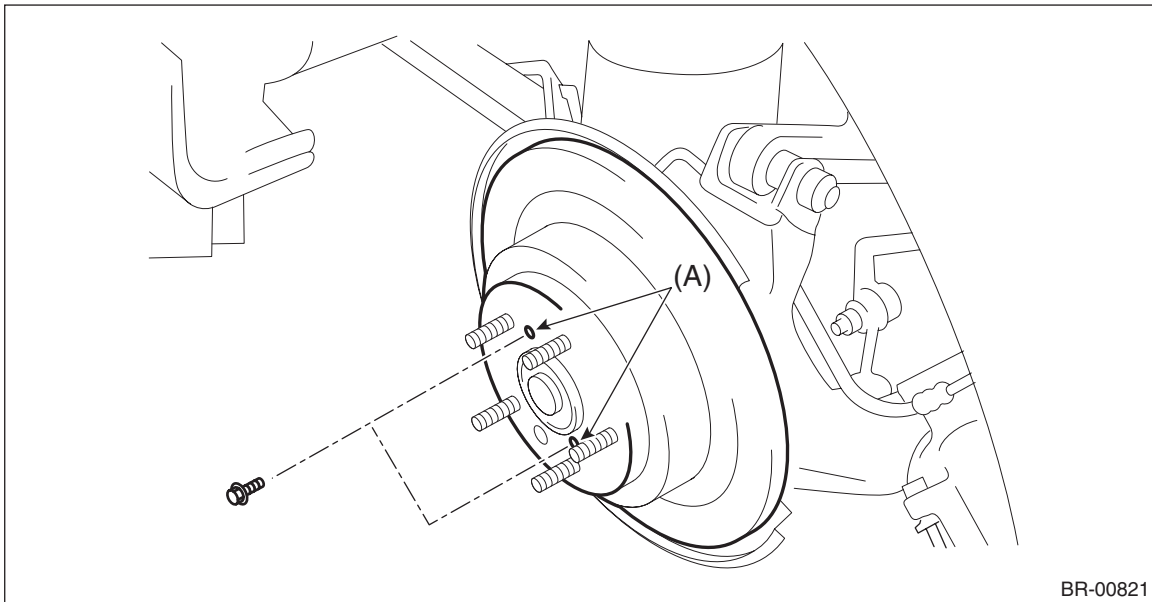
NOTE:

If the disc rotor is difficult to remove, try the following two methods in order.

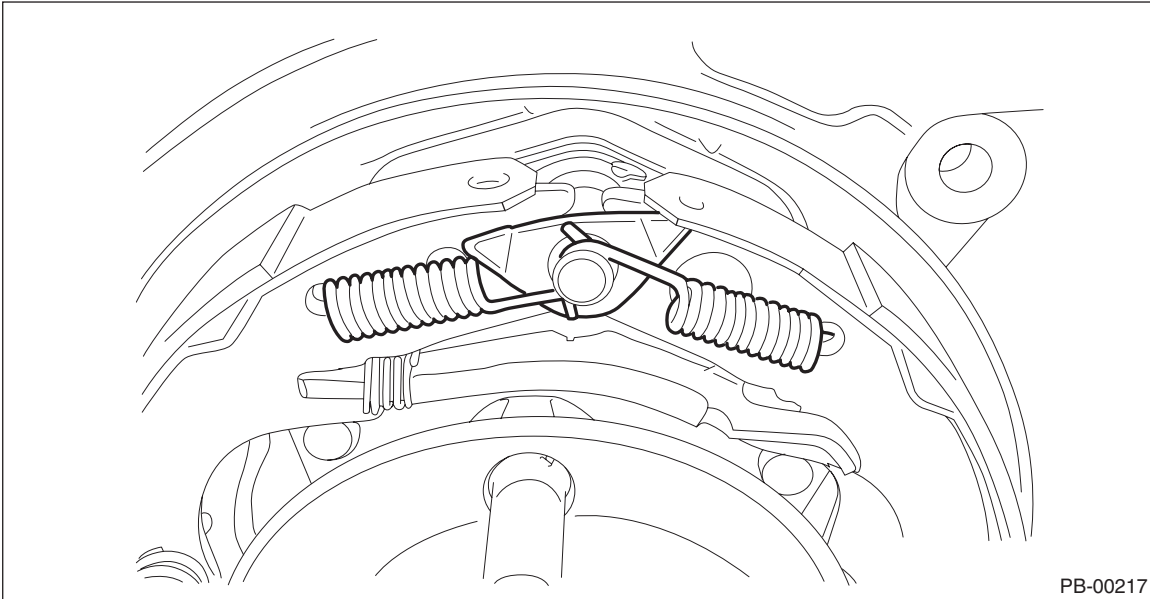
(1) Insert the flat tip screwdriver (b) into the brake adjustment hole (A), and rotate the adjusting screw (a) until the brake shoe moves far enough to remove the disc rotor (c).



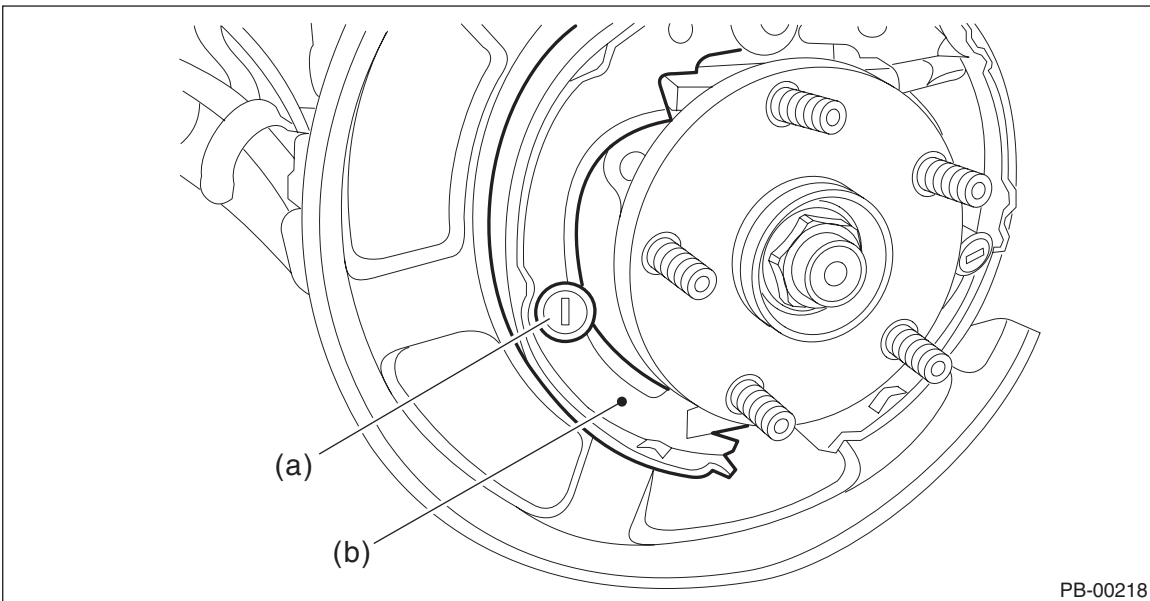
(2) When the disc rotor is difficult to be removed from the rear hub unit bearing, screw in 8 mm (0.31 in) bolt to the threaded part of the disc rotor (A), and remove the disc rotor.



- 6) Remove the parking brake shoe (primary).
- (1) Remove the primary and secondary return springs.
 - (2) Remove the shoe guide plate.



- (3) Remove the shoe hold-down cup (a), and remove the shoe hold-down spring.
- (4) Remove the parking brake shoe (primary) (b).



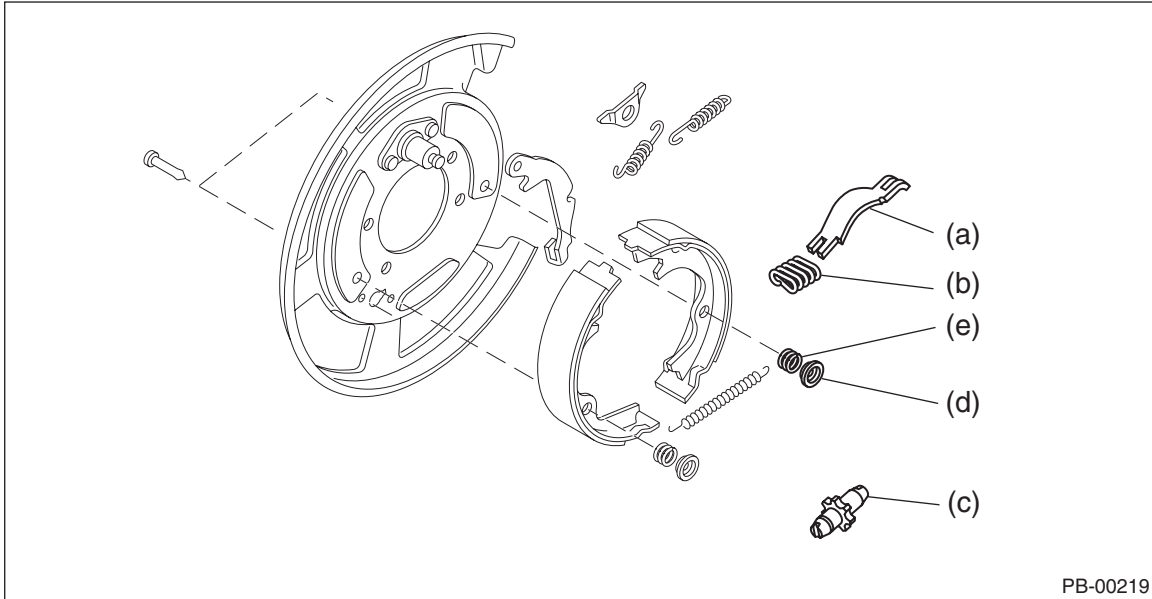
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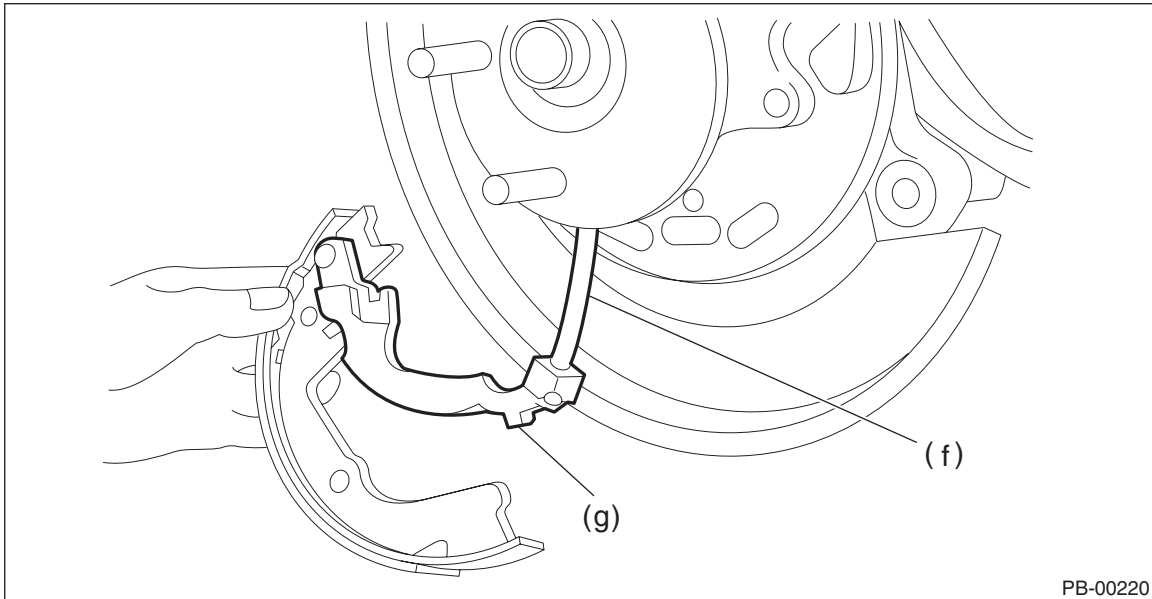
7) Remove the parking brake shoe (secondary).

(1) Remove the strut (a), strut spring (b), and adjusting screw (c).

(2) Remove the shoe hold-down cup (d), and remove the shoe hold-down spring (e).



(3) Remove the parking brake cable (f) from lever (g).



(4) Remove a retainer from the secondary side brake shoe.

(5) Remove the lever from the brake shoe.

(6) Remove the clamp, and remove the parking brake cable from the back plate.

B: INSTALLATION

1) Before assembly, check the brake disc rotor and brake shoe. <Ref. to PB-14, INSPECTION, Parking Brake Assembly (Rear Disc Brake).>

2) Install the parking brake cable to the back plate, and secure it with the clamp.

CAUTION:

Be sure the lining surface is free from brake fluid and grease.

3) Apply brake grease to the following locations.

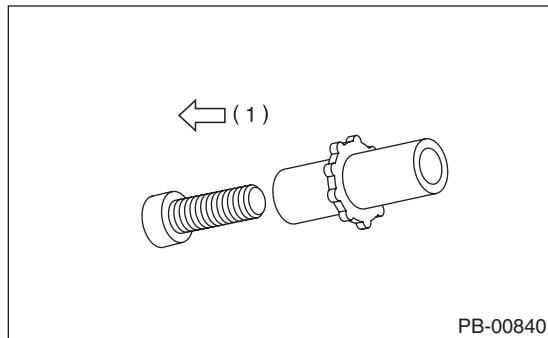
Brake grease:

Brake Grease (Part No. 003602002)

- Six contact surfaces of the brake shoe rim and back plate gasket
 - Contact surface of the brake shoe and the anchor pin
 - Contact surface of the parking brake lever and strut
 - Contact surface of the brake shoe and adjusting screw
 - Contact surface of the brake shoe and strut
 - Contact surface of the lever and brake shoe
- 4) Install the wave washer and lever to the secondary side brake shoe pin, and lock the retainer securely.
- 5) Install the parking brake cable to the lever.
- 6) Install the adjusting screw and adjusting spring to the brake shoe.

NOTE:

Install the adjusting screw with the screw section facing toward the direction shown in the figure below.



- (1) Left wheel: front side of vehicle, right wheel:
rear side of vehicle

- 7) Check that the parking brake cable does not fall from the cable guide.
- 8) Install the brake shoes to the back plate with shoe hold-down pins, shoe hold-down springs, and shoe hold-down cups.
- 9) Install the strut and strut spring to the brake shoes.

NOTE:

Install the strut springs on front side of the vehicle.

- 10) Install the return springs on the primary side first, and then the secondary side.
- 11) Install the brake disc rotor and brake caliper.
- 12) Install the brake hose bracket.

Tightening torque:

Refer to “COMPONENT” of “General Description”. <Ref. to BR-4, COMPONENT, General Description.>

- 13) Adjust the parking brake. <Ref. to PB-14, ADJUSTMENT, Parking Brake Assembly (Rear Disc Brake).>
- 14) When replacing with the new brake shoe, connect the Subaru Select Monitor and perform the “Break-in Parking Brake Drive Mode”. <Ref. to PB(diag)-19, BREAK-IN PARKING BRAKE DRIVE MODE, OPERATION, Subaru Select Monitor.>
- 15) After breaking-in, re-adjust the parking brakes. <Ref. to PB-14, ADJUSTMENT, Parking Brake Assembly (Rear Disc Brake).>

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C: INSPECTION

- 1) Measure the inner diameter of the brake disc rotor.
If scoring or worn is found on the disk, replace the brake disc rotor.

Disc rotor inner diameter:

Specification: 190 mm (7.48 in)

Service limit: 191 mm (7.52 in)

- 2) Measure the lining thickness. If it exceeds the limit, replace the brake shoe.

Lining thickness:

Specification: 2.8 mm (0.11 in)

Service limit: 1.5 mm (0.059 in)

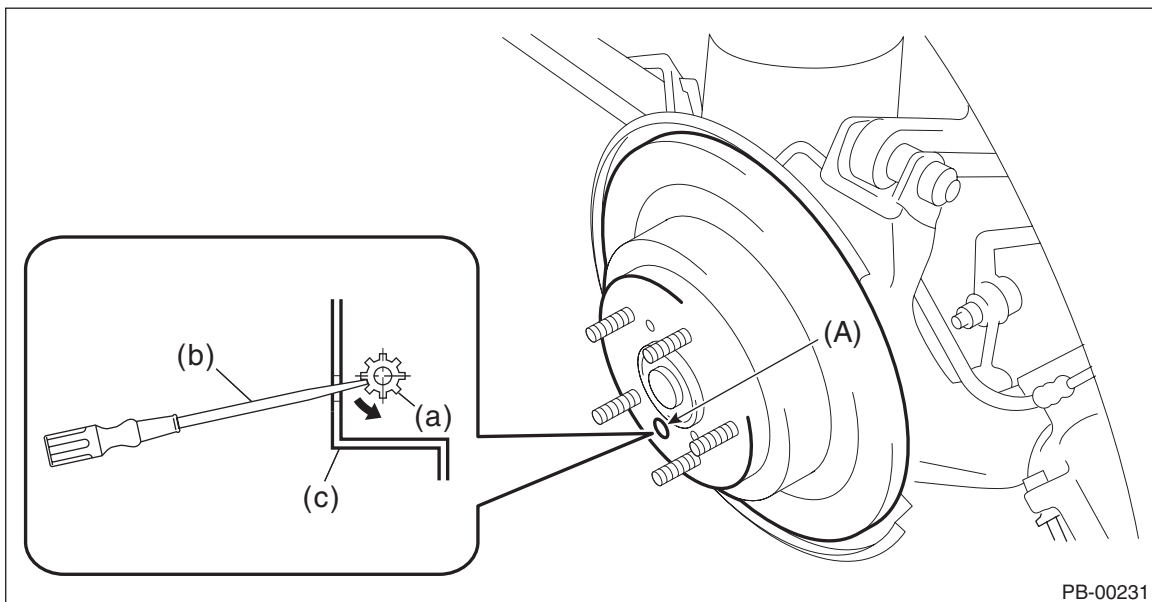
NOTE:

Replace the right and left brake shoe as a set.

D: ADJUSTMENT

1. SHOE CLEARANCE

- 1) Lift up the vehicle, and then remove the rear wheels.
- 2) Remove the adjusting hole cover from the disc rotor.
- 3) Insert the flat tip screwdriver (b) into the brake adjustment hole (A), and rotate the adjusting screw (a) until the brake shoe contacts the disc rotor (c).



- 4) Loosen the adjusting screw by 5 notches to opposite direction of arrow.

CAUTION:

- After operating the parking brake several times, check that there is no brake drag.
- If the amount that the adjusting screw is turned back is little, securely loosen it by 5 notches to avoid dragging.

- 5) Install the adjusting hole cover to the disc rotor.
- 6) Install the rear wheels and lower the vehicle.
- 7) Park the vehicle on a level ground with the four wheels on the ground.
- 8) Connect the Subaru Select Monitor to perform the "Force Sensor Calibration Mode". <Ref. to PB(diag)-18, FORCE SENSOR CALIBRATION MODE, OPERATION, Subaru Select Monitor.>