

Parking Brake Assembly (Rear Disc Brake)

PARKING BRAKE

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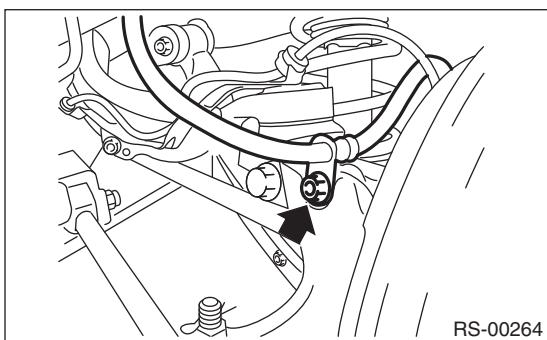
A: REMOVAL

- 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)-17, PARKING BRAKE REMOVAL MODE, OPERATION, Subaru Select Monitor.>

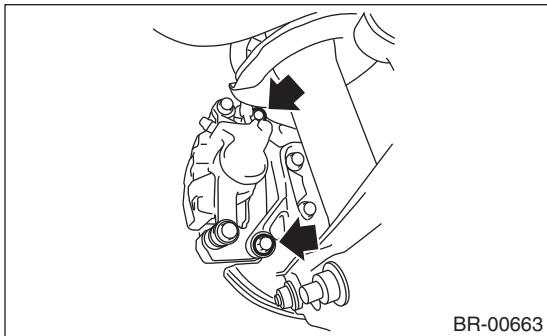
CAUTION:

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

- 3) Disconnect the ground cable from battery.
- 4) Remove the brake hose bracket.



- 5) Remove the two mounting bolts and remove the rear disc brake caliper.

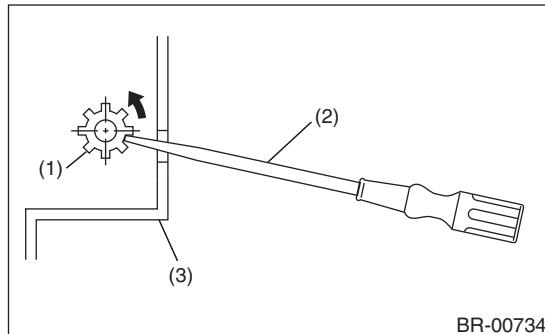


- 6) Suspend the rear disc brake caliper so that the brake hose is not stretched.
- 7) Remove the rear disc brake rotor.

NOTE:

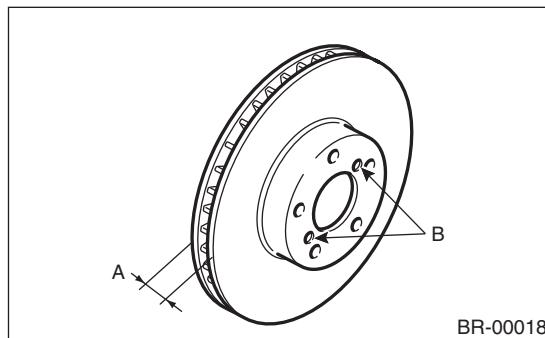
If the disc rotor is difficult to remove, try the following two methods in order.

- (1) Turn the adjusting screw using a flat tip screwdriver until the brake shoe moves adequately away from the disc rotor.

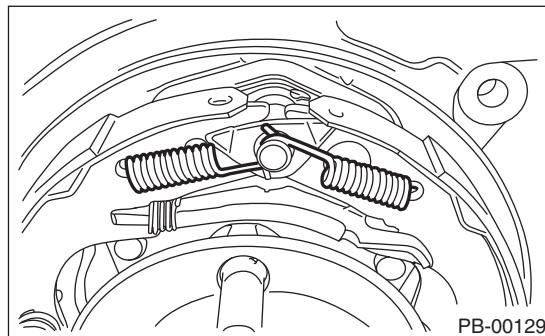


- (1) Adjuster
- (2) Flat tip screwdriver
- (3) Disc rotor

- (2) If disc rotor is seized on the hub, drive the disc rotor out by pushing two 8 mm bolts in holes B on the rotor.



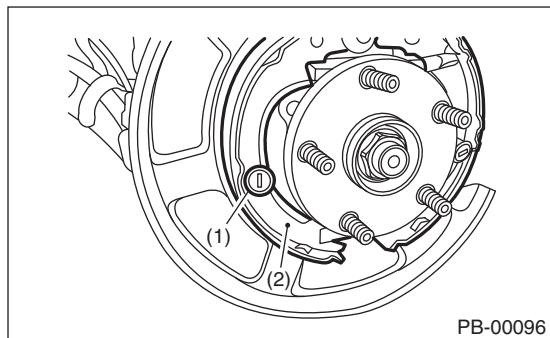
- 8) Remove the shoe return spring.



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9) Detach the brake shoe cup and brake shoe spring, and remove the primary brake shoe.



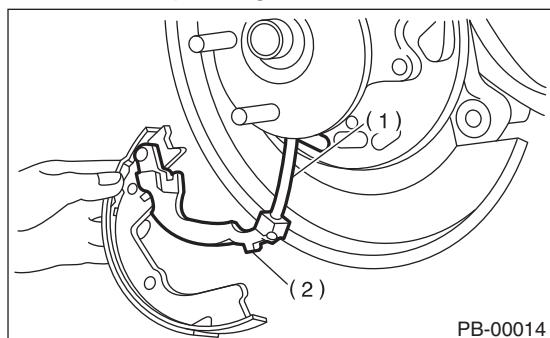
(1) Brake shoe cup
(2) Primary brake shoe

10) Remove the strut and strut spring.

11) Remove the adjuster.

12) Detach the brake shoe cup and brake shoe spring, and remove the secondary brake shoe.

13) Remove the parking brake cable from lever.



(1) Parking Brake Cable
(2) Lever

14) Remove the retainer from the secondary side brake shoe. Remove the brake shoe from the lever.

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

B: INSTALLATION

1) Install the parking brake cable to the back plate, and secure it by the clamp.

CAUTION:

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

2) 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 the adjuster

- Contact surface of the brake shoe and strut

- Contact surface of lever and brake shoe

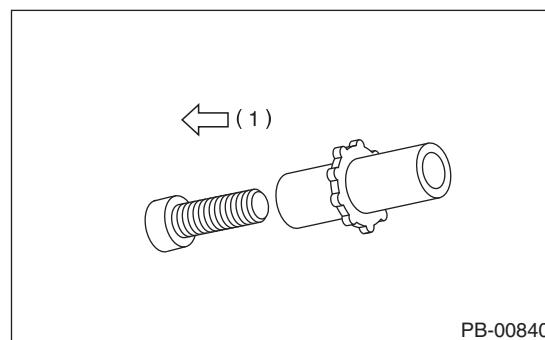
3) Install the wave washer and lever to the secondary side brake shoe pin, and lock the retainer securely.

4) Install the parking brake cable to the lever.

5) Install the adjuster and adjusting spring to the brake shoe.

NOTE:

Install the adjuster with screw section in the direction shown below.



(1) For left wheels, facing the front side of vehicle, for right wheels, facing the rear side of vehicle

6) Check that the parking brake cable does not fall from the cable guide.

7) Install the brake shoes to the back plate with shoe hold pins, brake shoe springs, and brake shoe cups.

8) Install the strut and strut spring to the brake shoes.

NOTE:

Install the strut spring to face the upper side of the vehicle.

9) Install the return springs; first the primary side then the secondary side.

10) Install the brake disc rotor and the brake caliper.

11) Install the brake hose bracket.

Tightening torque:

<Ref. to BR-4, COMPONENT, General Description.>

12) Adjust the parking brake. <Ref. to PB-8, ADJUSTMENT, Parking Brake Assembly (Rear Disc Brake).>

13) 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)-18, BREAK-IN PARKING BRAKE DRIVE MODE, OPERATION, Subaru Select Monitor.>

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14) After breaking-in, re-adjust the parking brakes. <Ref. to PB-8, ADJUSTMENT, Parking Brake Assembly (Rear Disc Brake).>

C: INSPECTION

1) Measure the brake disc rotor inside diameter. If the disc is scored or worn, replace the brake disc rotor.

Disc rotor inside diameter:

Standard:

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:

Standard:

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.

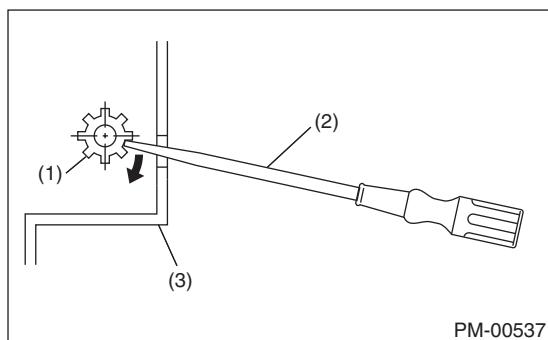
D: ADJUSTMENT

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) Using a flat tip screwdriver, turn the adjusting screw in the direction of arrow as shown in the figure below until the brake shoe is in close contact with the disc rotor.



- (1) Adjusting screw
- (2) Flat tip screwdriver
- (3) Disc rotor

4) Turn back the adjusting screw 5 notches to opposite direction of arrow.

CAUTION:

- Operate the parking brake several times to check there is no brake drag.

- If the amount that the adjusting screw is turned back is little, securely turn back 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 at 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)-17, FORCE SENSOR CALIBRATION MODE, OPERATION, Subaru Select Monitor.>