# SECTION PARKING BRAKE SYSTEM

## CONTENTS

PARKING BRAKE SYSTEM	2
On-Vehicle Service	2
LEVER STROKE	2
INSPECT COMPONENTS	2
ADJUSTMENT	2
PARKING BRAKE CONTROL	3
Components	3
Components Removal and Installation	
•	3
Removal and Installation	3 3

PARKING BRAKE SHOE	4	PE
Components	4	
Removal and Installation		
REMOVAL	4	G
INSPECTION AFTER REMOVAL	5	0
INSTALLATION	5	
SERVICE DATA AND SPECIFICATIONS (SDS)	6	
Parking Drum Brake	6	
Parking Brake Control	6	

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J

Κ

L

А

В

С

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#### PARKING BRAKE SYSTEM

#### **On-Vehicle Service** LEVER STROKE

When parking brake lever is operated with a force of 196 N (20 kg, 44 lb), check that the stroke is within the specified number of notches. (Check it by listening and counting the ratchet clicks.)

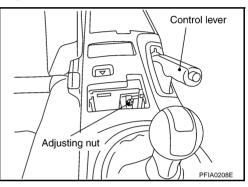
Lever stroke : 6 to 7 notches

#### **INSPECT COMPONENTS**

- Make sure the components are attached properly (check for looseness, backlash, etc.). •
- Check parking lever assembly for bend, damage and cracks, and replace if necessary.
- Check that there is no wear or damage to the cable, and replace if there is.
- Inspecting parking brake warning lamp switch is inspected and exchange if there is a faulty.

#### ADJUSTMENT

- To perform adjustment operations, remove tire from the vehicle with power tool.
- Remove ashtray. Insert a deep socket wrench to rotate adjusting 1. nut and loosen the cable sufficiently. Then, return the lever,
- Using wheel nuts, fix the disc to the hub and prevent it from tilt-2. ing.



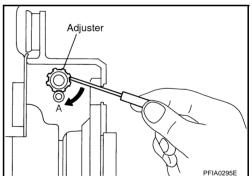
- 3. Remove adjusting hole plug installed on the disc. Using a flatbladed screwdriver, turn the disc in direction A as shown in the figure until the disc is locked. After locking, turn the adjuster in the opposite direction by 5 or 6 notches.
  - 4. Rotate the disc to make sure there is no drag. Install the adjusting hole plug.
  - Adjust cable as follows: 5.
  - Operate lever 10 or more times with a force of 294 N (30 kg, 66 a. lb).
  - b. Rotate adjusting nut with deep socket to adjust lever stroke. **CAUTION:**

#### Do not reuse the adjusting nut after removing it.

When parking brake lever is operated with a force of 196 N (20 kg, 44 lb), check that the stroke is within С the specified number of notches. (Check it by listening and counting the ratchet clicks.)

#### : 6 to 7 notches Lever stroke

d. With the lever completely returned, make sure there is no drag on the rear brake.



PFP:36010

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#### PARKING BRAKE CONTROL

#### PARKING BRAKE CONTROL PFP:36010 А Components AFS000UZ SEC.443 •••• В 2 14.7 - 19.6 (1.5 - 1.9, 11 - 14) 11.8 - 15.7 (1.2 - 1.6, 9 - 11)(5) (6) F 4 3 $\sim$ 11.8 15.7 PΒ $\overline{\mathcal{M}}$ (1.2 - 1.6, 9 - 11): Apply grease 21 - 27 : Always replace after disassembly (2.2 - 2.7, 16 - 19)1 • : N•m (kg-m, ft-lb) (5) SFIA1838E 2. Device assembly 3. Front cable Adjusting nut 1. Rear left cable 5. Pin 4. 6. Rear right cable Н **Removal and Installation** 4E\$00101 REMOVAL 1. Remove the center console. Refer to IP-10, "INSTRUMENT PANEL ASSEMBLY". 2. Remove adjusting nut from the device assembly. 3. Remove the exhaust center muffler. Refer to EX-3, "EXHAUST SYSTEM" . 4. Remove the propeller shaft. Refer to PR-5, "REAR PROPELLER SHAFT". **CAUTION:** Do not impact or damage propeller shaft tube. Κ 5. Remove the rear disc caliper and disc rotors. Refer to BR-38, "REAR DISC BRAKE (AD14VE TYPE)" ,BR-44, "REAR DISC BRAKE (OPB13VB TYPE)" . Remove the parking brake shoe, and remove the rear cable from the toggle lever. Refer to PB-4, "PARK-6. Ľ ING BRAKE SHOE" 7. Remove cable nuts and bolts.

- 8. Remove right and left rear cables.
- 9. Remove front cable.
- 10. Remove the device assembly bolts and remove the device assembly from the vehicle.

#### INSTALLATION

1. Refer to "Component Parts Location" for tightening torque. Install in the reverse order of removal. CAUTION:

Since the adjusting nut is not a reusable part, do not reuse it.

2. Adjust the parking brake. Refer to PB-2, "ADJUSTMENT" .

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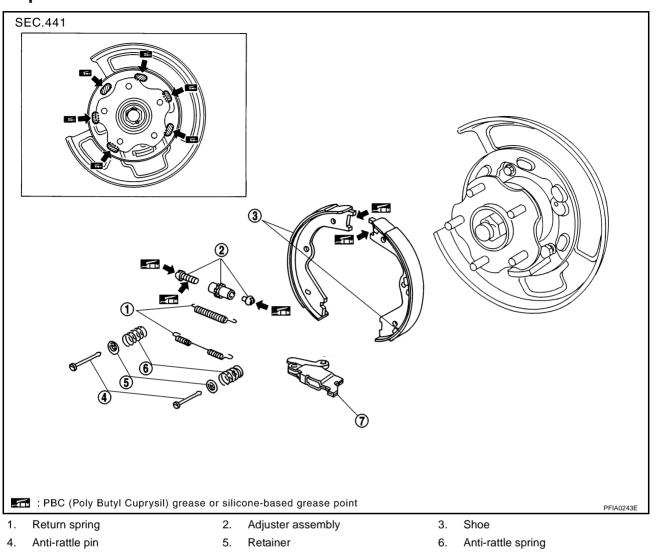
#### PARKING BRAKE SHOE

## PARKING BRAKE SHOE

#### Components

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AFS000V0



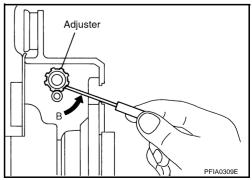
7. Toggle lever

# Removal and Installation REMOVAL

#### **CAUTION:**

Clean dust on the disc and back plate with a vacuum dust collector. Do not blow with compressed air. Be careful of the following:

- Remove the disc rotor only with the parking brake lever completely in the returned position.
- If disc rotor cannot be removed, remove as follows:
- Fix the disc rotor in place with wheel nuts and remove disc rotor plug. Using a flat-bladed screwdriver, rotate star wheel on the adjuster assembly in direction B to retract and loosen brake shoes.



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### PARKING BRAKE SHOE

#### **INSPECTION AFTER REMOVAL**

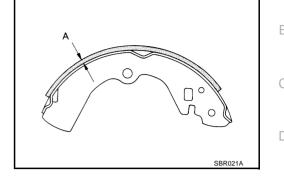
Lining Thickness Inspection

• Check the thickness of the lining.

#### Standard

Standard thickness (A) : 3.2 mm (0.126 in)

Repair limit thickness (A) : 1.5 mm (0.059 in)



А

Drum Inner Diameter Inspection

• Check the inner diameter of the drum.

StandardStandard inner diameter: 172 mm (6.77 in) dia.Maximum inner diameter: 173 mm (6.81 in) dia.

Other Inspections

- Check shoe sliding surface for excessive wear and damage.
- Check anti-rattle pin for excessive wear and corrosion.
- Check return spring for sagging.
- Does the adjustor move smoothly?
- Check either visually or with a vernier caliper to see if there is any excessive wear, cracks, or damage inside the drum.

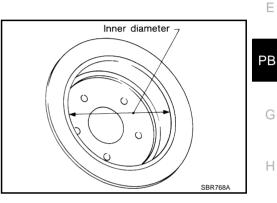
#### INSTALLATION

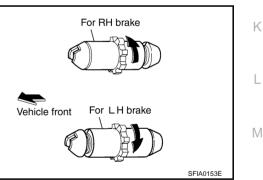
Be careful of the following:

- Refer to "Component Parts Location" and apply brake grease to the specified points during assembly.
- Orientation of the adjuster is different from left to right. Assemble the adjuster so that threaded part expands when rotating it in the direction shown by the arrow.
- Collapse the adjuster to assemble
- When disassembling the adjuster, apply PBC (Poly Butyl Cuprysil) grease or silicone based grease to the threads.
- After replacing brake shoes or disc rotors, or if brakes do not function well, perform break-in operation as follows.
- 1. Adjust the parking brake lever stroke to the specified stroke.
- 2. Perform parking brake break-in (drag run) operation by driving the vehicle under the following conditions:

#### **Drive forward**

- Perform the following.
- Vehicle speed approx. 40 km/h (25 MPH) set (forward)
- Parking brake operating force approx. 100 N (10 kg, 45 lb) set
- Distance approx. 100 m (328 ft)
- 3. After break-in operation, check lever stroke of the parking brake. Readjust if it is no longer at the specified stroke.
  - To prevent the lining from getting too hot, allow a cool off period of approximately 5 minutes after every break-in operation.
  - Do not perform excessive break-in operations, because it may cause uneven or early wear of the lining.





## SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

## Parking Drum Brake

PFP:00030

AFS00096

Туре		DS17HG
Ducke lining	Standard thickness (new)	3.2 mm (0.126 in)
Brake lining	Wear limit thickness	1.5 mm (0.059 in)
Drum (disc)	Standard inner diameter (new)	172 mm (6.77 in)
	Wear limit of inner diameter	173 mm (6.81 in)

## **Parking Brake Control**

Control type	Center lever
Number of notches [under force of 196 N (20 kg,44 lb)]	6 - 7 notches
Number of notches when warning lamp switch comes on	1 notches