

SECTION **PB**

PARKING BRAKE SYSTEM

A
B
C
D
E
PB
G
H
I
J
K
L
M
N
O
P

CONTENTS

PRECAUTION	2	PARKING BRAKE CONTROL	7
PRECAUTIONS	2	Exploded View (GT-R certified NISSAN dealer)	7
General Precautions	2	Removal and Installation (GT-R certified NISSAN dealer)	7
PREPARATION	3	Adjustment (GT-R certified NISSAN dealer)	8
PREPARATION	3	PARKING BRAKE SHOE	9
Commercial Service Tool	3	Exploded View	9
ON-VEHICLE MAINTENANCE	4	Removal and Installation (GT-R certified NISSAN dealer)	9
PARKING BRAKE SYSTEM	4	Inspection	10
Inspection and Adjustment	4	SERVICE DATA AND SPECIFICATIONS (SDS)	12
PARKING BRAKE SHOE	6	SERVICE DATA AND SPECIFICATIONS (SDS)	12
Adjustment (GT-R certified NISSAN dealer)	6	Parking Drum Brake	12
ON-VEHICLE REPAIR	7	Parking Brake Control	12

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

General Precautions

INFOID:000000004175440

CAUTION:

After finishing servicing, check that all the tools and waste are stored in a customary place.

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PREPARATION

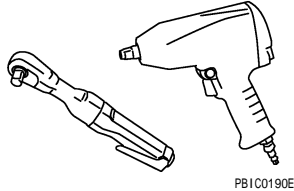
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PREPARATION

PREPARATION

Commercial Service Tool

INFOID:000000003853836

Tool name	Description
Power tool 	Loosening bolts and nuts

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PB

G

H

I

J

K

L

M

N

O

P

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PARKING BRAKE SYSTEM

< ON-VEHICLE MAINTENANCE >

ON-VEHICLE MAINTENANCE

PARKING BRAKE SYSTEM

Inspection and Adjustment

INFOID:000000003853804

INSPECTION

Parking Brake Lever Stroke

1. Operate the parking brake lever with a force of 196 N (20 kg, 44 lb). Check that the lever stroke is within the specified number of notches. (Check it by listening to the clicks of the ratchet.)

Standard

Number of notches : Refer to [PB-12, "Parking Brake Control"](#).

2. When brake warning lamp turns ON, check that the lever stroke is within the specified number of notches. (Check it by listening to the clicks of the ratchet.)

Standard

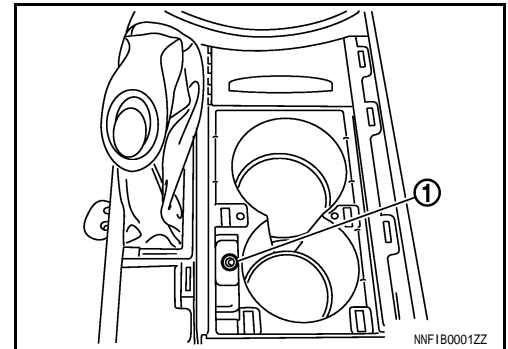
Number of notches : Refer to [PB-12, "Parking Brake Control"](#).

Inspect Components

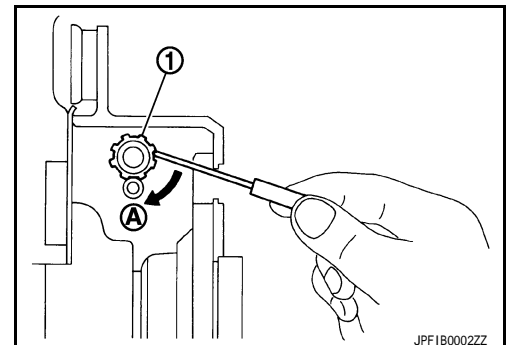
- Check each component for installation condition such as looseness.
- Check the device assembly for bend, damage and cracks. Replace if necessary.
- Check the cables and equalizer for wear, damage and cracks. Replace if necessary.
- Check the parking brake switch, and replace it if necessary. Refer to [BRC-86, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

ADJUSTMENT

1. Remove tires with power tool.
2. Fix the disc rotor using wheel nuts.
3. Remove the instrument panel garnish. Refer to [IP-11, "Exploded View"](#).
4. Remove the console finisher assembly. Refer to [IP-21, "Exploded View"](#).
5. Remove the cup holder finisher. Refer to [IP-21, "Exploded View"](#).
6. Rotate the adjust nut (1) and loosen the cable, and then return the parking brake lever.



7. Remove the adjusting hole plug from the disc rotor. Turn the adjuster (1) in the direction (A) as shown in the figure using a suitable tool until the disc rotor is locked.
8. Turn back the adjuster 5 or 6 notches from the locked position.
9. Rotate the disc rotor to check that there is no drag. Install the adjusting hole plug. If there is any drag, refer to [PB-10, "Inspection"](#).
10. Adjust the cable with the following procedure.
 - a. Operate the parking brake lever with a force of 294 N (30 kg, 66 lb) for 10 strokes or more.



PARKING BRAKE SYSTEM

< ON-VEHICLE MAINTENANCE >

- b. Adjust the parking brake lever stroke by turning the adjusting nut.
CAUTION:
Never reuse the adjusting nut if the adjusting nut removed.
- c. Operate the parking brake lever with a force of 196 N (20 kg, 44 lb). Check that the lever stroke is within the specified number of notches. (Check it by listening to the clicks of the ratchet.)

Standard

Number of notches : Refer to [PB-12, "Parking Brake Control"](#).

- d. Rotate the disc rotor with the parking brake lever released and check that there is no drag. Refer to [PB-10, "Inspection"](#).

A
B
C
D
E
PB
G
H
I
J
K
L
M
N
O
P

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PARKING BRAKE SHOE

< ON-VEHICLE MAINTENANCE >

PARKING BRAKE SHOE

Adjustment (GT-R certified NISSAN dealer)

INFOID:000000003853805

1. Adjust parking brake lever stroke. Refer to [PB-4, "Inspection and Adjustment"](#).
2. Perform parking brake break-in (drag on) operation by driving vehicle under the following conditions:
 - Drive forward
 - Vehicle speed: Approx. 40 km/h (25 MPH) set (constant and forward)
 - Parking brake operating force: 145 N (15 kg, 33 lb) set contact
 - Time: Approx. 10 sec.

CAUTION:

 - **To prevent lining from getting too hot, allow a cool off period of approximately 5 minutes after every break-in operation.**
 - **Never perform excessive break-in operations, because doing so may cause uneven or early wear of the lining.**
3. After the break-in procedure, check parking brake lever stroke of parking brake. Refer to [PB-4, "Inspection and Adjustment"](#).

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PARKING BRAKE CONTROL

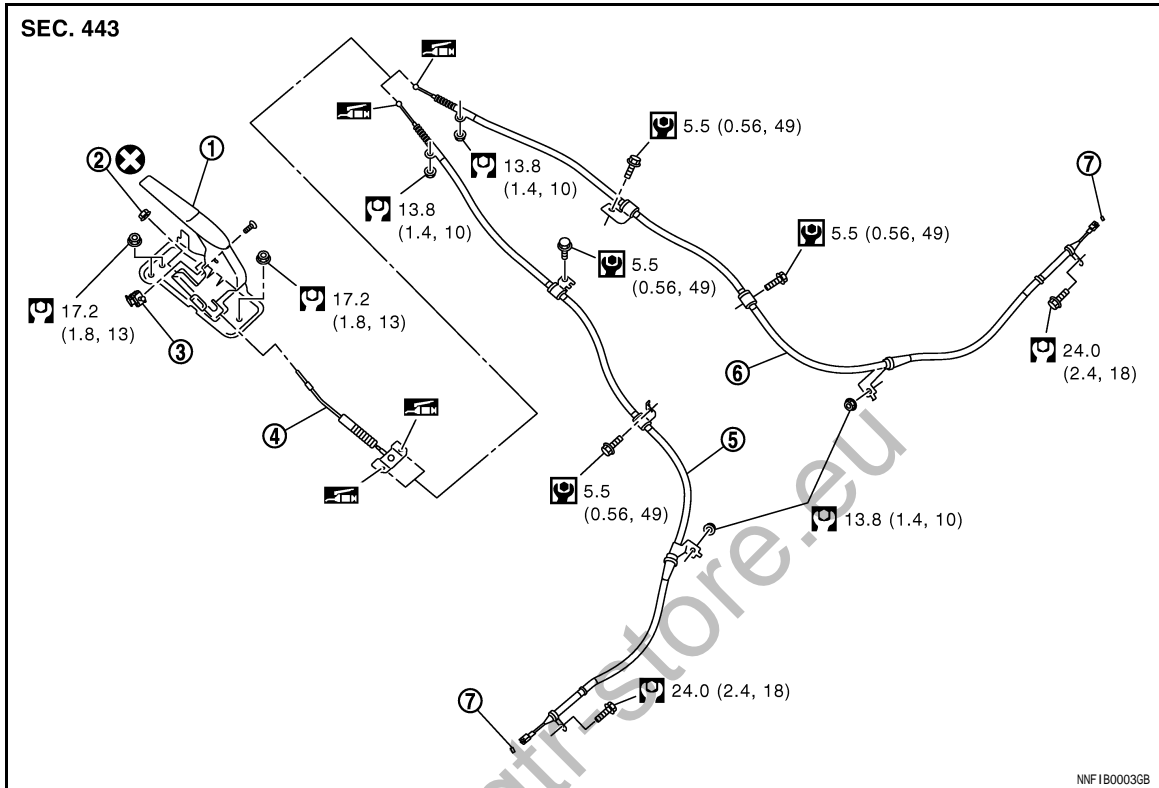
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR


PARKING BRAKE CONTROL

Exploded View (GT-R certified NISSAN dealer)

INFOID:000000003853806



- | | | |
|--------------------|---------------------------|----------------------------|
| 1. Device assembly | 2. Adjust nut | 3. Parking brake switch |
| 4. Front cable | 5. Rear cable (left side) | 6. Rear cable (right side) |
| 7. Pin | | |

 Apply multi-purpose grease.

Refer to [GI-4, "Components"](#) for symbols not described on the above.

Removal and Installation (GT-R certified NISSAN dealer)

INFOID:000000003853807

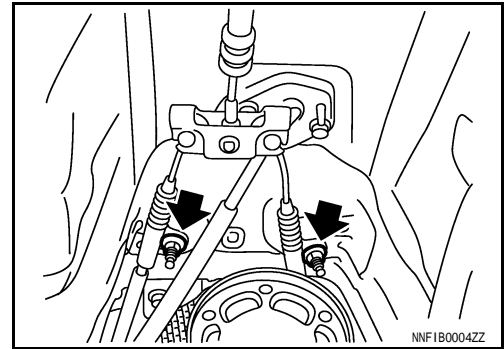
REMOVAL

1. Remove rear tires with power tool.
2. Remove rear diffuser. Refer to [EXT-39, "REAR DIFFUSER : Exploded View"](#).
3. Remove center console. Refer to [IP-21, "Exploded View"](#).
CAUTION:
 - Keep the range sensor away from magnetic objects during work.
 - For a person with an electro-medical apparatus, keep the range sensor away from the device.
4. Disconnect parking brake switch harness connector.
5. Remove adjusting nut and loosen front cable.
6. Remove front propeller shaft. Refer to [DLN-48, "Exploded View \(GT-R certified NISSAN dealer\)"](#).
7. Remove main propeller shaft. Refer to [DLN-57, "Exploded View \(GT-R certified NISSAN dealer\)"](#).
8. Remove heat insulator.
9. Separate rear cable from front cable, and remove front cable.
10. Remove device assembly.

PARKING BRAKE CONTROL

< ON-VEHICLE REPAIR >

11. Remove rear cable mounting nuts (front side) (←).
12. Remove parking brake shoe, and remove rear cable from toggle lever. Refer to [PB-9. "Exploded View"](#).
13. Remove the rear suspension assembly, transmission assembly and rear cable as a unit. Refer to [RSU-23. "Exploded View"](#).
14. Remove the rear cable mounting bolts and nuts, and then remove the rear cable from the rear suspension assembly and transmission assembly.



INSTALLATION

Install in the reverse order of removal.

Adjustment (GT-R certified NISSAN dealer)

INFOID:000000003853808

ADJUSTMENT AFTER INSTALLATION

Adjust the parking brake lever stroke. Refer to [PB-4. "Inspection and Adjustment"](#).

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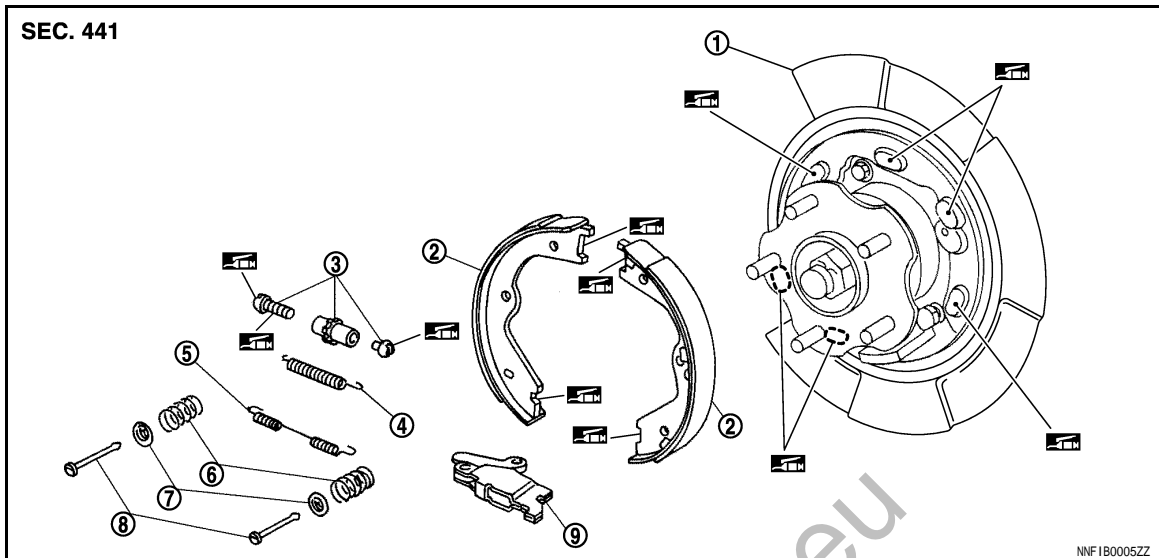
PARKING BRAKE SHOE

< ON-VEHICLE REPAIR >


PARKING BRAKE SHOE

Exploded View

INFOID:000000003853809



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|--------------------|-----------------------|-----------------------|
| 1. Back plate | 2. Parking brake shoe | 3. Adjuster |
| 4. Adjuster spring | 5. Return spring | 6. Anti-rattle spring |
| 7. Retainer | 8. Anti-rattle pin | 9. Toggle lever |

 Apply PBC (Poly Butyl Cuprysil) grease or silicone-based grease.

Removal and Installation (GT-R certified NISSAN dealer)

INFOID:000000003853810

REMOVAL

WARNING:

Clean any dust from the parking brake shoes and back plates with a vacuum dust collector. Never blow with compressed air.

1. Remove rear tires with power tool.
2. Remove the disc rotor with the parking brake lever returned. Refer to [BR-44. "BRAKE CALIPER ASSEMBLY : Removal and Installation \(GT-R certified NISSAN dealer\)"](#).

If disc rotor cannot be removed, remove as follows:

- a. Fix the disc rotor using wheel nuts.
- b. Remove the adjusting hole plug from the disc rotor, rotate the adjuster (1) in the direction (B) using a suitable tool, and then compress the expanded brake shoe.
3. Rotate the anti-rattle pins while pressing them, and then remove the anti-rattle pins, retainers and anti-rattle springs from the back plate.

CAUTION:

Never drop the removed parts.

4. Remove adjuster spring and return spring.

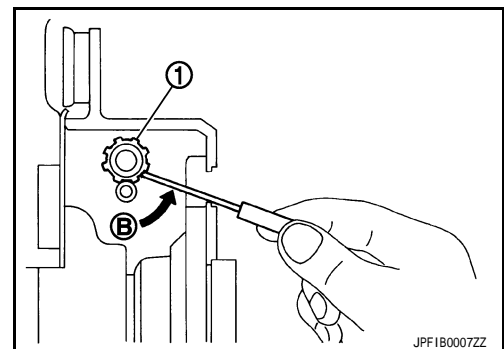
CAUTION:

Never drop the removed parts.

5. Remove parking brake shoes, adjuster assembly and toggle lever.

CAUTION:

- The parking brake shoes for the vehicle front side are made of different materials from those for the vehicle rear side. Never misidentify them when removing.
- Never drop the removed parts.



PARKING BRAKE SHOE

< ON-VEHICLE REPAIR >

6. When removing the brake plate, refer to [RAX-7, "Exploded View"](#).

INSTALLATION

Note the following, install in the reverse order of removal.

- Apply PBC (Poly Butyl Cuprysil) grease or silicone-based grease to the back plate and brake shoe.

CAUTION:

The parking brake shoes for the vehicle front side are made of different materials from those for the vehicle rear side. Never misidentify them when removing.

- Assemble adjusters so that the threaded part is expanded when rotating it in the direction shown by the arrow.

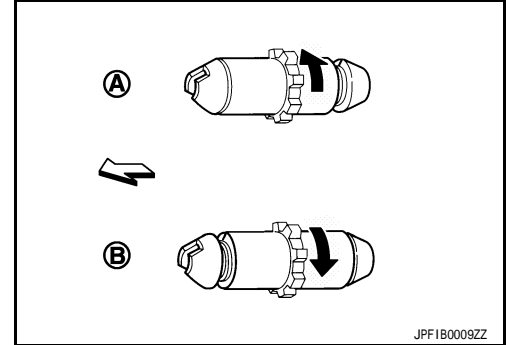
A: For right side brake

B: For left side brake

↔: Vehicle front

←: Adjuster expands

- Shorten adjuster by rotating it.
- When disassembling apply PBC (Poly Butyl Cuprysil) grease or silicone-based grease to threads.
- Check brake shoe sliding surface and drum inner surface for grease. Wipe it out any adheres to the surfaces.
- Perform the break-in operations after finishing the installation. Refer to [PB-6, "Adjustment \(GT-R certified NISSAN dealer\)"](#).



Inspection

INFOID:000000003853811

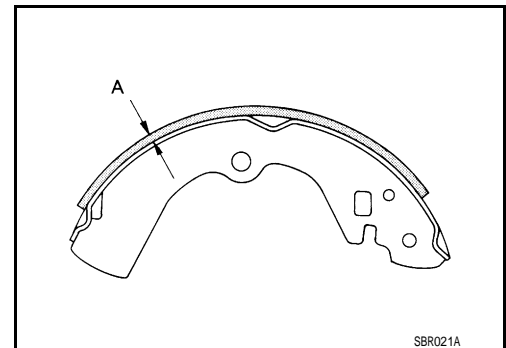
INSPECTION AFTER REMOVAL

Lining Thickness Inspection

Check thickness (A) of lining.

Limit

A : Refer to [PB-12, "Parking Drum Brake"](#).

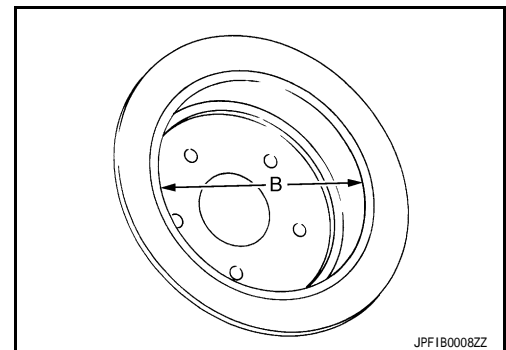


Drum Inner Diameter Inspection

Check inner diameter (B) of drum.

Limit

B : Refer to [PB-12, "Parking Drum Brake"](#).



Other Inspections

Check the following items, and replace the parts if necessary.

- Lining for excessive wear, damage or peeling.
- Brake shoe sliding surface for excessive wear or damage.
- Anti-rattle pin and retainer for excessive wear, damage or rust.
- Adjuster spring, return spring and anti-rattle spring for settling, excessive wear, damage or rust.
- Adjuster for smoothness.

PARKING BRAKE SHOE

< ON-VEHICLE REPAIR >

- Toggle lever for excessive wear, damage or rust.
- Visually check inside of the drum for excessive wear, cracks or damage with a pair of vernier calipers.

ADJUSTMENT AFTER INSTALLATION

Check the parking brake for drag. Perform the following procedure if necessary.

1. Adjust the parking brake lever stroke. Refer to [PB-4, "Inspection and Adjustment"](#).
2. Check the parking brake for drag again. Check the rear disc brake for drag if necessary. Refer to [PB-10, "Inspection"](#).

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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

Parking Drum Brake

INFOID:000000003853837

Unit: mm (in.)

Item	Limit
Brake lining	1.5 (0.059)
Drum (disc of inner diameter)	191 (7.52)

Parking Brake Control

INFOID:000000003853838

Item	Standard
Number of notches [under force of 196 N (20 kg, 44 lb)]	5 – 6 notches
Number of notches when brake warning lamp turns ON	1 notch

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