SECTION PARKING BRAKE SYSTEM

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PREPARATION

PREPARATION

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PARKING BRAKE SYSTEM

PARKING BRAKE SYSTEM

On-Vehicle Service PEDAL STROKE

• When parking brake lever is operated with the specified force, make sure the stroke is within the specified number of notches. Check by listening and counting the ratchet clicks.

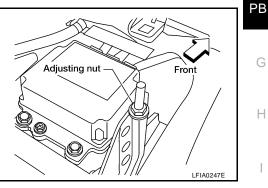
Pedal stroke : 6 – 8 notches [under force of 196 N (20.0 kg, 44.1 lb)]

INSPECTION

- Make sure the components are attached properly, checking for looseness or backlash.
- Check parking brake lever assembly for bends, damage and cracks, and replace if necessary.
- Check cable for wear and damage, and replace if necessary.
- Check parking brake warning lamp switch for malfunction, and replace if necessary. Refer to <u>DI-35, "Wir-ing Diagram WARN —</u>".

ADJUSTMENT

- 1. Remove rear half of the center console. Refer to IP-15, "CENTER CONSOLE" .
- 2. Rotate adjusting nut and loosen cable until tension is sufficiently released.



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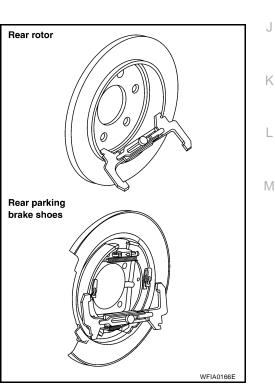
- 3. Remove the wheel and tire using power tool.
- 4. Remove the rotor and measure inner diameter at widest point using Tool.

Tool number : — (J-21177-A)

- 5. Transfer measurement less 0.6 mm to the parking brake shoes and adjust accordingly.
- 6. Using wheel nuts, secure the disc to the hub to prevent it from tilting.
- 7. Rotate disc rotor to make sure there is no drag.
- 8. Adjust cable as follows:
- a. Operate parking brake lever 10 or more times with a force of 490 N (50 kg, 110 lb).
- b. Rotate adjusting nut to adjust lever stroke to specification.

Lever stroke : 6 – 8 notches [under force of 196 N (20.0 kg, 44.1 lb)]

c. With parking brake pedal completely disengaged, make sure there is no drag on the parking brake.



PARKING BRAKE CONTROL

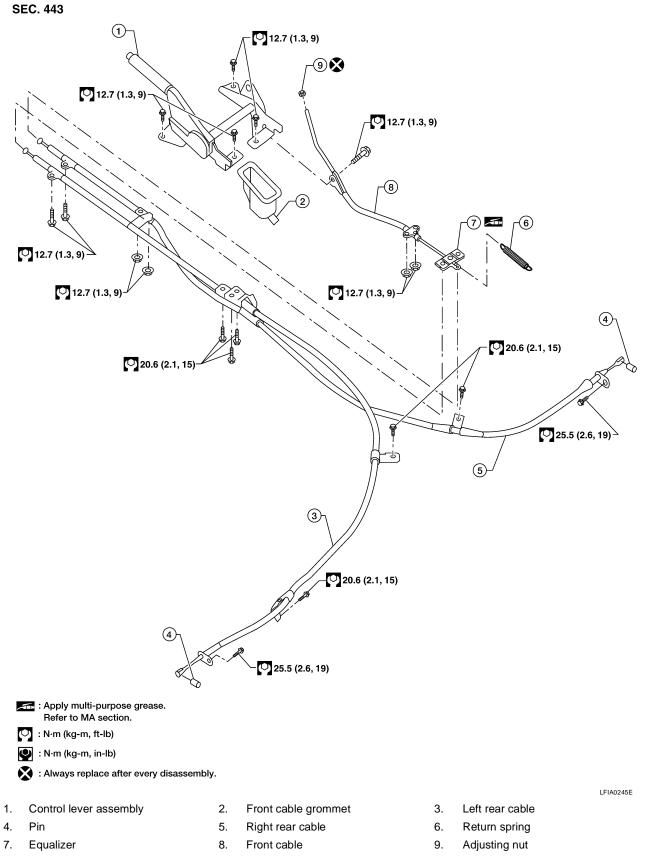
PARKING BRAKE CONTROL

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Components



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PARKING BRAKE CONTROL

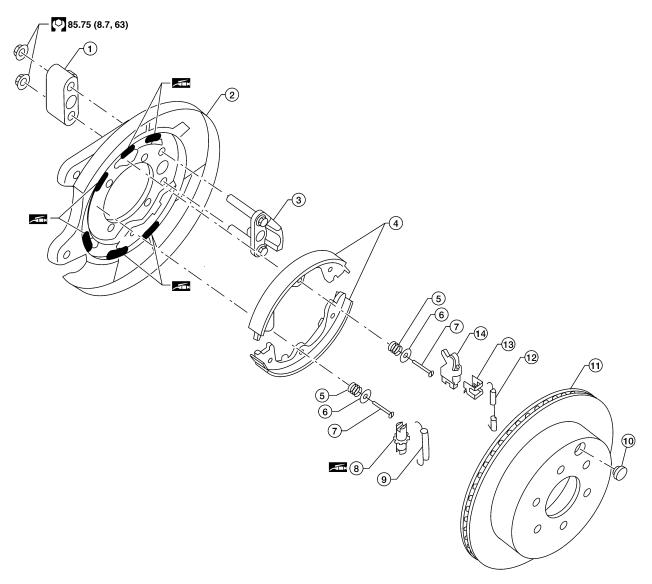
	emoval and Installation EFS004ZX MOVAL	А
кс 1.	Disconnect return spring from equalizer.	
2.	Remove right and left rear cables from equalizer.	
2. 3.	Remove front parking brake cable bolts from under vehicle.	В
3. 4.	Remove rear half of center console. Refer to IP-15, "CENTER CONSOLE".	
4. 5.	Remove four control lever assembly bolts, then remove control lever assembly.	
		С
6. 7	Remove the front cable grommet and cover from control lever assembly. Remove front cable to contol lever assembly bolt.	
7.	•	
8.	Remove the control lever assembly adjusting nut, then remove front cable.	D
	CAUTION: Do not reuse adjusting nut after removing it.	
9.	Remove the rear disc rotors. Refer to <u>BR-29</u> , " <u>Removal and Installation of Brake Caliper Assembly and</u>	E
5.	Disc Rotor".	
10.	Remove parking brake shoes, and remove rear cable from toggle lever. Refer to PB-6, "Removal and	
	Installation".	PB
11.	Remove right and left rear cable bolts and nuts, then remove right and left rear cables.	
INS	STALLATION	
•	Installation is in the reverse order of removal.	G
	CAUTION:	
	 Do not reuse adjusting nut after removing it 	
	 Install the control lever assembly bolts in the following order: 	Н
	- Right front	
	- Right rear	1
	- Left front	1
	- Left rear	
•	Adjust parking brake. Refer to <u>PB-3, "ADJUSTMENT"</u> .	J
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PARKING BRAKE SHOE

PARKING BRAKE SHOE Components

SEC. 441





○ : N·m (kg-m, ft-lb)

Apply PBC (Poly Butyl Cuprysil) grease or equivalent. Refer to MA section.

- 1. Anchor block
- 4. Shoes
- 7. Shoe hold-down pin
- 10. Adjuster access plug
- 13. Pin retainer

2. Back plate

- 5. Shoe hold-down spring
- 8. Adjuster
- 11. Disc rotor
- 14. Toggle lever

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- Anchor
 Retainer
- 9. Rear return spring
- 12. Front return spring

EFS004ZY

Removal and Installation REMOVAL

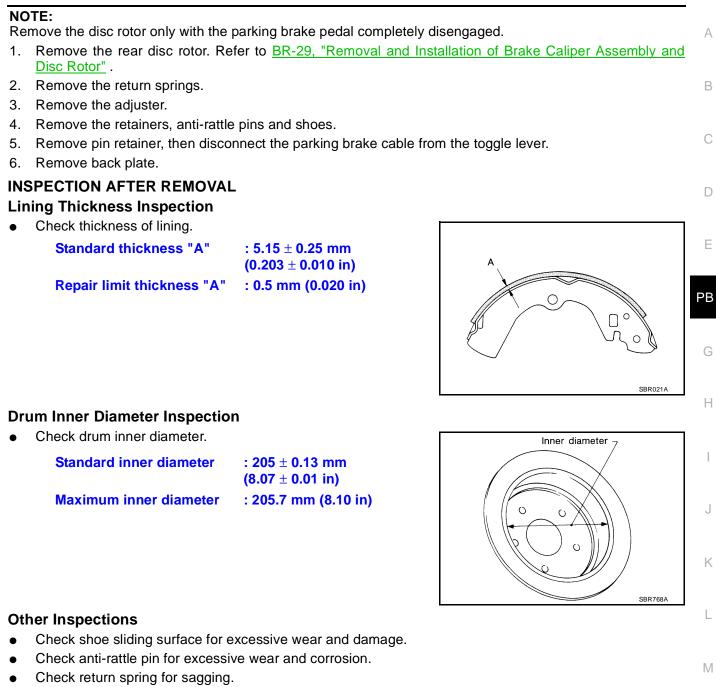
WARNING:

Clean the brakes with a vacuum dust collector to minimize the hazard of airborne particles or other materials.

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PARKING BRAKE SHOE



- Check adjuster for rough operation.
- When disassembling adjuster, apply PBC (Poly Butyl Cuprysil) grease or equivalent to the adjuster threads. Refer to <u>MA-11, "RECOMMENDED FLUIDS AND LUBRICANTS"</u>.
- Check either visually or with a vernier caliper to see if there is any excessive wear, cracks, or damage inside drum.

INSTALLATION

Installation is in the reverse order of removal.

• Apply brake grease to the specified points during assembly. Refer to PB-6, "Components" .

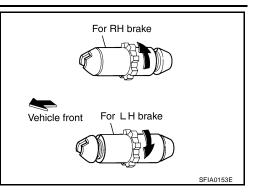
PARKING BRAKE SHOE

- Install adjuster so that threaded part expands when rotating it in the direction shown by the arrow.
- Shorten adjuster by rotating it in the opposite direction as shown by the arrow.

NOTE:

After replacing brake shoes or disc rotors, or if parking brake does not function well, perform break-in operation as follows.

1. Adjust parking brake pedal stroke. Refer to <u>PB-3</u>, "ADJUST-<u>MENT"</u>.



- 2. Perform parking brake burnishing operation by driving the vehicle forward under the following conditions:
 - Vehicle speed 40 km/h (25 MPH) set (forward)
 - Parking brake operating force 196 N (20.0 kg, 44.1 lb) set
 - Apply time 30 sec.

CAUTION:

- To prevent 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 lining.
- 3. After burnishing operation, check parking brake pedal stroke. Readjust if it is now longer than the specified stroke. Refer to <u>PB-3</u>, "ADJUSTMENT".

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) PFP:00030				
Parking Drum Brake	EFS004ZZ Unit: mm (in)			
Туре		Drum		
Brake lining	Standard thickness (new)	5.15 ± 0.25 (0.203 ± 0.010)		
	Wear limit thickness	0.5 (0.020)		
Drum inner diameter (disc)	Standard inner diameter (new)	205 ± 0.13 (8.07 ± 0.01)		
	Wear limit of inner diameter	205.7 (8.10)		
Parking Brake Contro	I	EF\$00500		
Control type	Control lever			
Number of notches [under force of	6 – 8 notches			
Number of notches when warning la	1 notch			

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