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SECTION PB

PARKING BRAKE SYSTEM

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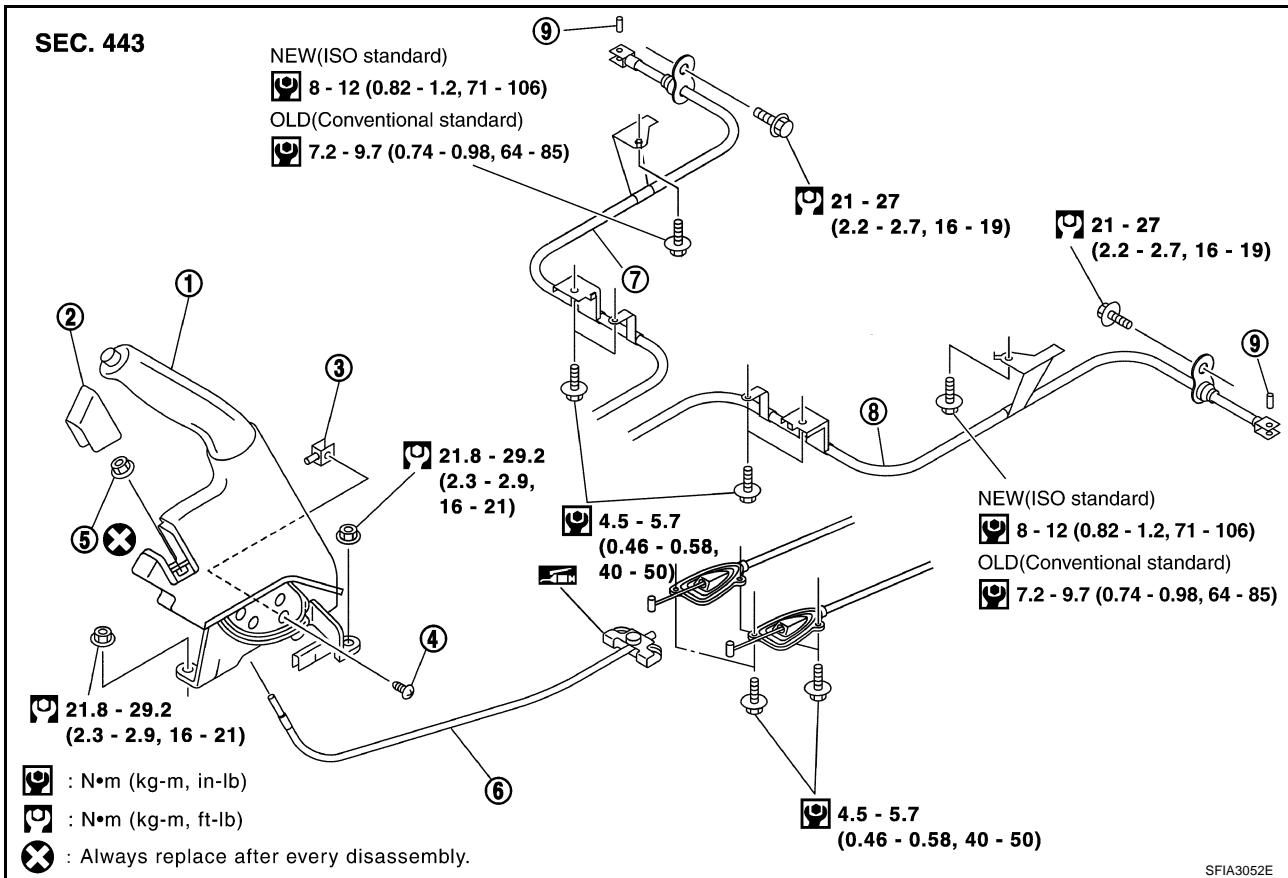
PARKING BRAKE CONTROL

PARKING BRAKE CONTROL

PFP:36010

Components

EF500171



1. Control lever assembly	2. Cap	3. Parking brake warning lamp switch
4. Screw	5. Adjusting nut	6. Front cable
7. RH rear cable	8. LH rear cable	 :Multi-purpose grease

NOTE:

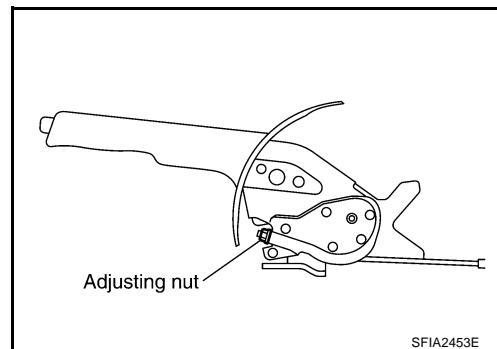
In regard to the notation of torque in the illustration, "NEW" shows an ISO standard, "OLD" shows a conventional standard, and the measurements of hexagonal width across flats are in parentheses.

Removal and Installation

EES00171

REMOVAL

1. Remove center console.
2. Disconnect parking brake warning lamp switch connector.
3. Remove cable mounting bolt. Loosen cable and remove adjusting nut.
4. Remove cable from toggle lever of disc brake.



INSTALLATION

CAUTION:

Do not reuse adjusting nut.

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

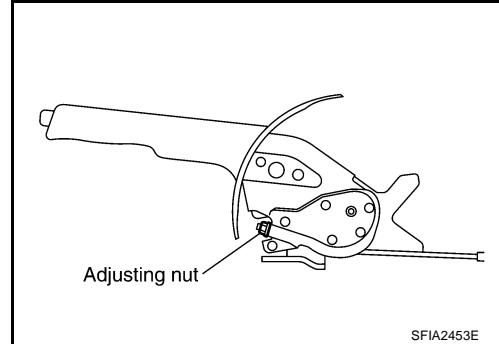
Lever stroke : 6 - 7 notches

PARKING BRAKE CONTROL

2. Check control lever assembly for bend, damage and cracks, and replace if there is.
3. Check cables and equalizer for wear and damage. If a malfunction is detected, replace the applicable part.
4. Check parking brake warning lamp switch. If a malfunction is detected, replace the applicable part.
5. Check each part for deformation, or damage by contact with other parts. If a malfunction is detected, replace the applicable part.

Adjustment

1. Insert a deep-well socket wrench into opening of parking brake lever. Rotate adjusting nut to fully loosen cable. Return parking brake lever and adjust rear brake shoe clearance.

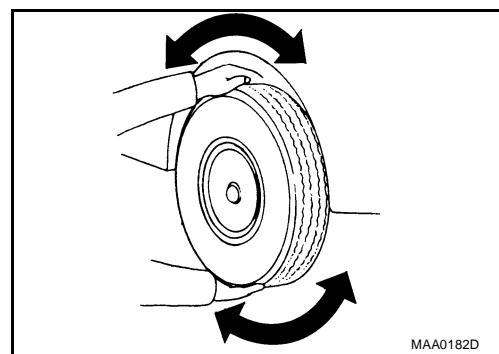


2. Rotate tyres & foot wheels to be sure that there is no drag.
3. After adjusting clearance of rear shoes, with no drag on rear brake, adjust cable as follows:
 - a. Pull parking brake lever up so that a deep-well socket wrench can be inserted.
 - b. Insert a deep-well socket wrench into opening of parking brake lever. Rotate adjusting nut to adjust a lever stroke.

CAUTION:

Do not reuse adjusting nut after removing it.

- c. Operate parking brake lever 3 to 4 times with a force of 196 N (20 kg, 44 lb). Be sure lever stroke is within the specified number of notches.
- d. Return parking brake lever completely. Be sure there is no drag on rear brake.



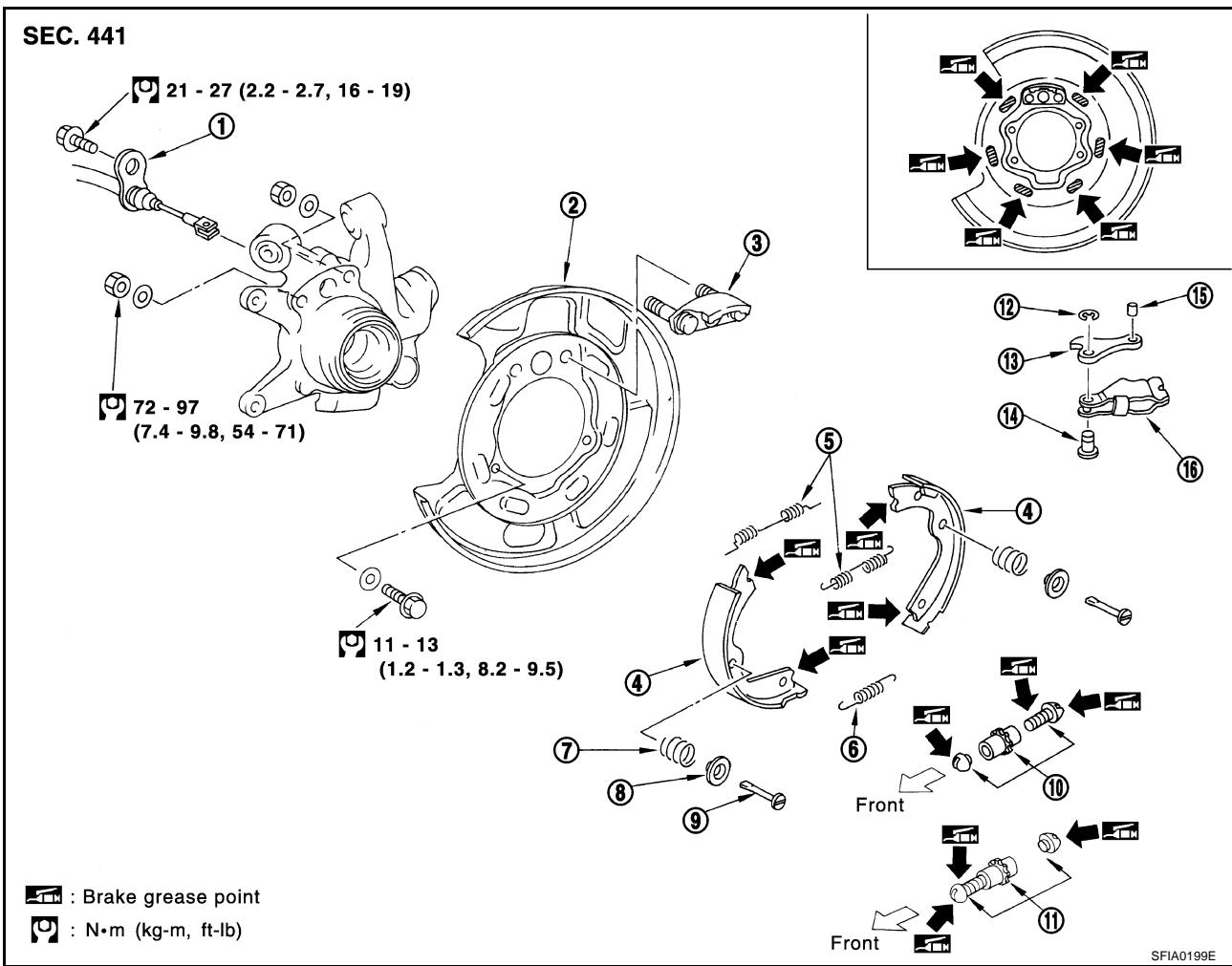
PARKING BRAKE SHOE

PARKING BRAKE SHOE

PFP:44060

Components

EFS0017K



1. Parking cable
2. Back plate
3. Anchor block
4. Brake shoe
5. Return spring
6. Return spring
7. Spring
8. Retainer
9. Shoe hold pin
10. Adjust assembly LH
11. Adjuster assembly RH
12. E-ring
13. Toggle lever
14. Pin
15. Pin
16. Toggle lever

Removal and Installation

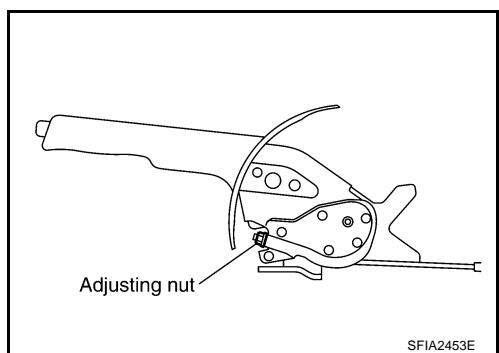
REMOVAL

EFS0017N

CAUTION:

Clean dust on brake disc and back plate with a vacuum dust collector.

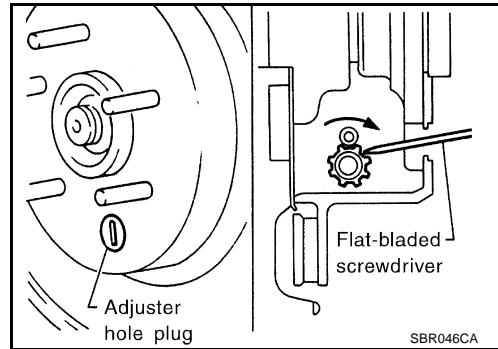
1. Remove tyre. With parking brake lever completely returned, loosen adjusting nut.
2. Remove rear disc brake caliper.



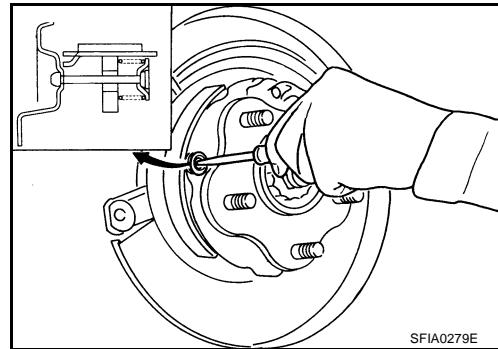
PARKING BRAKE SHOE

3. Remove disc rotor. If it cannot be removed, do as follows:

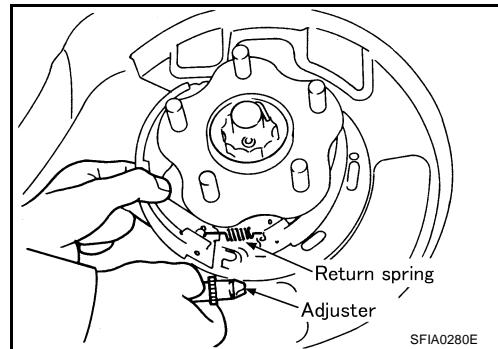
- Remove adjusting plug attached to disc as shown in the figure. Insert flat-bladed screwdriver through plug. Turn adjuster to make clearance between brake shoe and drum.



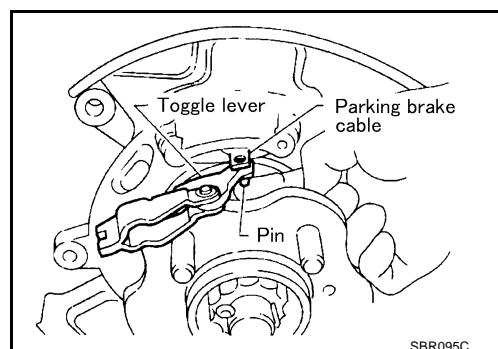
4. Push retainer as shown in the figure to compress spring. Remove brake shoe holding pins from mounting holes in back plate.



5. Pull brake shoes apart and remove adjuster assembly. Then remove lower-side return spring.



6. Remove connecting pin between parking brake cable and toggle lever as shown in the figure, and remove toggle lever.



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PARKING BRAKE SHOE

INSPECTION

- Visually check the lining for wear, damage, and peeling.
- Using a scale, check thickness of lining.

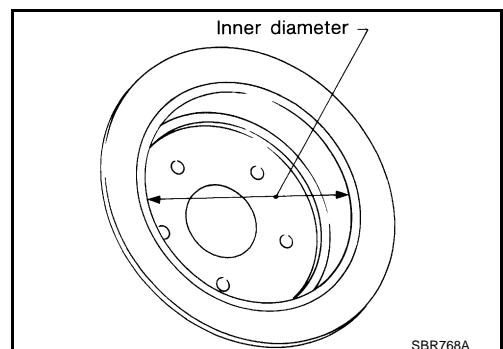
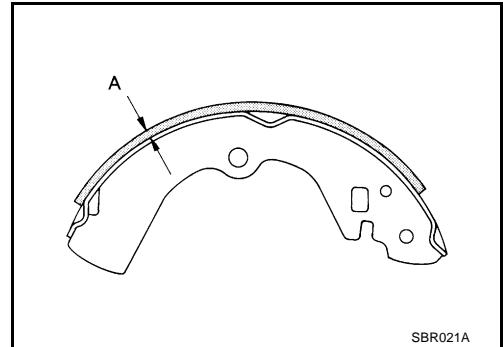
Standard lining thickness : 3.5 mm (0.138 in)
Lining limit (A) : 1.5 mm (0.059 in)

CAUTION:

If necessary, remove brake shoe, and check as follows.

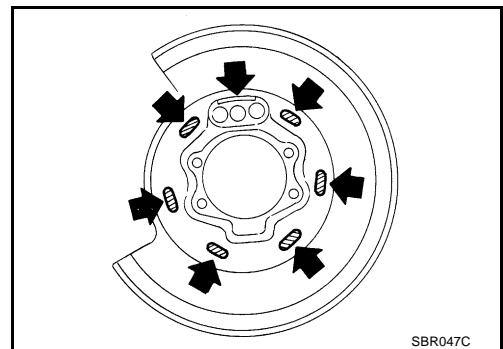
- Check shoe sliding surface for wear and damage.
- Check anti rattle pin for wear and corrosion.
- Check return spring for sagging.
- Check adjuster for rough operation.
- Visually check inside of drum for wear, damage, and cracks. Using a pair of vernier calipers, check inside of drum.

Standard inner diameter : 172 mm (6.77 in)
Maximum inner diameter : 173 mm (6.81 in)



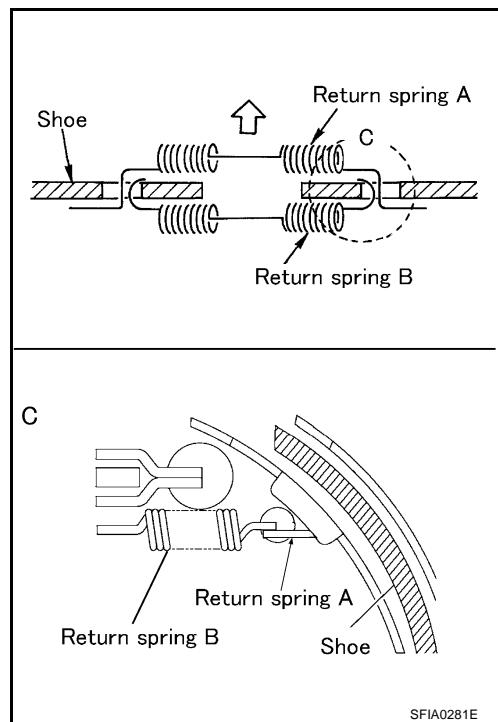
INSTALLATION

1. Apply brake grease to the contact area of shoe at left.



PARKING BRAKE SHOE

2. Attach upper-side return springs to brake shoe as shown in the figure. Be sure to install return spring B over return spring A.

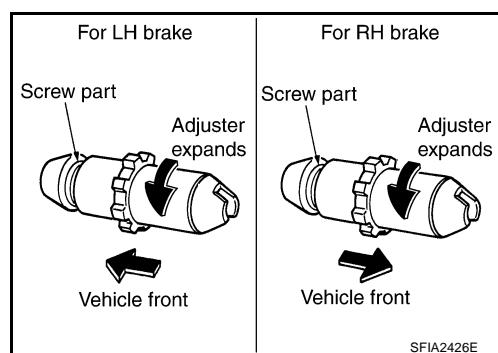


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3. Orientation of adjusters is different for LH adjuster and RH adjuster. Assemble adjusters so that threaded part is expanded when rotating it to direction shown by arrow. Contract adjuster to assemble.

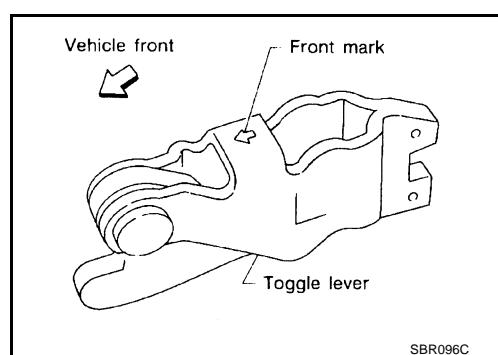
CAUTION:

When adjuster was disassembled, apply brake grease to thread.



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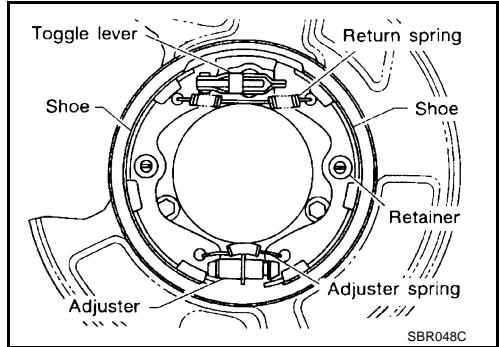
4. Assemble torque lever in direction of installation as shown in the figure.



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PARKING BRAKE SHOE

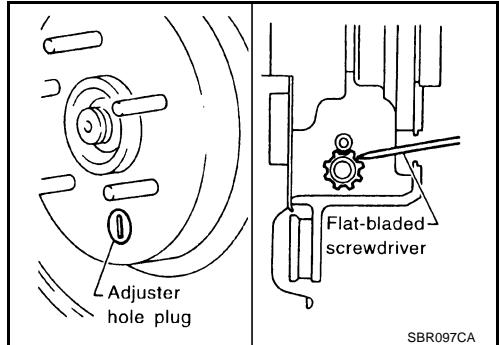
5. After assembly, be sure that each part is installed properly.



6. Fix disc rotor with wheel nut, and adjust brake shoe clearance. Remove adjusting hole plug. Turn star wheel on until disc rotor locks. Then turn star wheel in the opposite direction for 6 notches.
7. Rotate disc rotor to be sure that there is no drag. Then install adjusting hole plug.
8. Adjust parking brake cable.

CAUTION:

If brake shoes were replaced with new ones. Carry out break-in operation.



SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

PFP:00030

Parking Brake

EFS000D2

Type	DS17H	
Brake lining	Standard thickness (new)	3.5 mm (0.138 in)
	Repair 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)
Lever stroke [operating force 196 N (20 kg,44 lb)]	6 to 7 notches	
Brake warning lamp stroke	Within 1 notch	

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SERVICE DATA AND SPECIFICATIONS (SDS)
