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PRECAUTIONS

PRECAUTIONS PFP:00001

Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precautions for Battery Service

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Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart

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Use the chart below to help you find the cause of the symptom. If necessary, repair or replace these parts.

Reference	page		Refer to BR section	Refer to BR section AND PB-4.	Refer to BR section	I	I	Refer to BR section	I	I	I	NVH in BR section	NVH in RAX section	NVH in FAX AND RAX section	NVH in FSU AND RSU section	NVH in WT section	NVH in WT section	NVH in PS section
Possible ca			Pads - damaged	Pads - uneven wear	Shims damaged	Rotor imbalance	Rotor damage	Rotor runout	Rotor deformation	Rotor deflection	Rotor rust	Rotor thickness variation	DRIVE SHAFT	AXLE	SUSPENSION	TIRES	ROAD WHEEL	STEERING
		Noise	Х	Х	Х								Х	Х	Х	Х	Х	Х
Symptom	BRAKE	Shake				Х							Х	Х	Х	Х	Х	Х
		Shimmy, Judder				Χ	Х	Х	Х	Х	Х	Х		Х	Х	Х	Χ	Χ

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PARKING BRAKE SYSTEM

PARKING BRAKE SYSTEM

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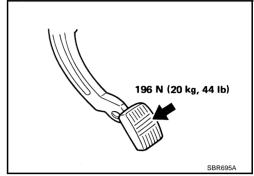
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On-Vehicle Service (Foot Lever Type) INSPECTION

 While depressing the parking brake pedal to specified amount of force. Check that the pedal stroke is within the range of the specified stroke amount.

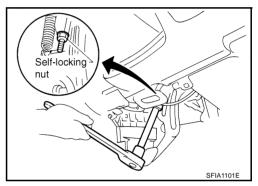
Number of notches: 3-4

 Check that warning lamp comes on when parking brake pedal is depressed with in one notch.



ADJUSTMENT

- To perform adjustment operations, remove tire from the vehicle with power tool. Using a wheel nut, fix the disc to the hub preventing it from tilting.
- 1. Insert a deep-well socket wrench to rotate the self-locking nut to loosen the cable sufficiently. Then, after returning the pedal completely, adjust the clearance of the rear shoes.



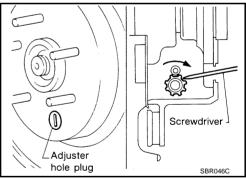
- Remove the adjuster hole plug installed on the disc. Using a screwdriver, turn the disc to clock wise as shown in the figure until the disc is locked. After locking, turn the adjuster to the opposite direction by 5 or 6 notches.
- 3. Rotate the disc to make sure that there is no drag. Then install the adjuster hole plug.
- 4. After adjusting the clearance of the rear shoes, with no drag on the rear brake, adjust the cable as follows:
- a. Operate the pedal 10 or more times with the force of 294 N (30 kg, 66 lb).
- b. Depress the pedal until a deep-well socket can be inserted.

 Insert the deep-well socket, and rotate the self-locking nut to adjust the pedal stroke.



Do not reuse the self-locking nut after removing it.

- c. After operating the pedal 3 to 4 times with the force of 196 N (20 kg, 44 lb), make sure that the pedal stroke is within the specified value.
- d. With the pedal completely returned, make sure that there is no drag on the rear brake.



PARKING BRAKE SYSTEM

On-Vehicle Service (Hand Lever Type) INSPECTION

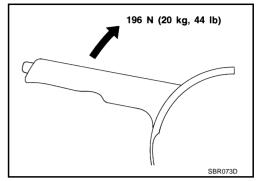
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 While depressing the parking brake lever to specified amount of force. Check that the lever stroke is within the range of the specified stroke amount.

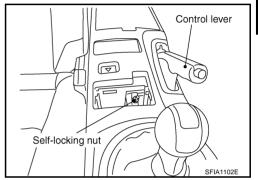
Number of notches: 6 - 7

 Check that warning lamp comes on when parking brake lever is depressed with in one notch.



ADJUSTMENT

- To perform adjustment operations, remove tire from the vehicle with power tool. Using a wheel nut, fix the
 disc to the hub preventing it from tilting.
- 1. Insert a deep-well socket wrench to rotate the self-locking nut to loosen the cable sufficiently. Then, after returning the lever completely, adjust the clearance of the rear shoes.



- Remove the adjuster hole plug installed on the disc. Using a screwdriver, turn the disc to clock wise as shown in the figure until the disc is locked. After locking, turn the adjuster to the opposite direction by 5 or 6 notches.
- 3. Rotate the disc to make sure that there is no drag. Then install the adjuster hole plug.
- 4. After adjusting the clearance of the rear shoes, with no drag on the rear brake, adjust the cable as follows:
- a. Operate the lever 10 or more times with the force of 294 N (30 kg, 66 lb).
- b. Depress the lever until a deep-well socket can be inserted. Insert the deep-well socket, and rotate the self-locking nut to adjust the lever stroke.

Adjuster hole plug SBR046C

CALITION

Do not reuse the self-locking nut after removing it.

- c. After operating the lever 3 to 4 times with the force of 196 N (20 kg, 44 lb), make sure that the lever stroke is within the specified value.
- d. With the lever completely returned, make sure that there is no drag on the rear brake.

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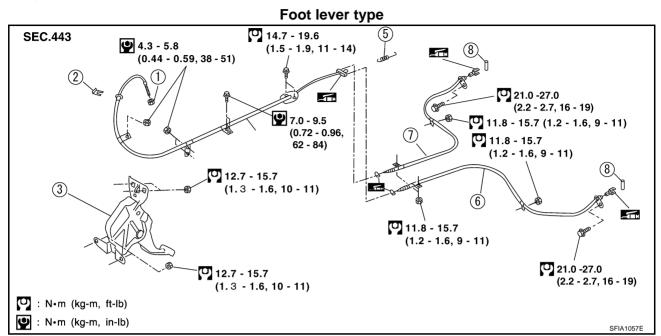
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PARKING BRAKE CONTROL

PARKING BRAKE CONTROL

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Components AFS00131

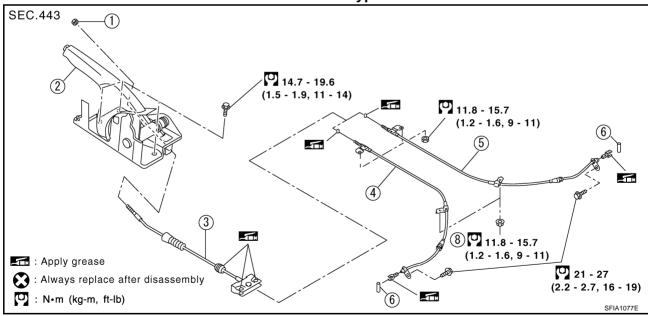


- 1. Self-locking nut
- 4. Front cable
- 7. RH rear cable

- 2. Lock plate
- 5. Return spring
- 8. Pin

- 3. Device assembly
- 6. LH rear cable

Hand lever type



- 1. Self-locking nut
- 4. LH rear cable

- 2. Device assembly
- 5. RH rear cable

- 3. Front cable
- 6. Pin

PARKING BRAKE CONTROL

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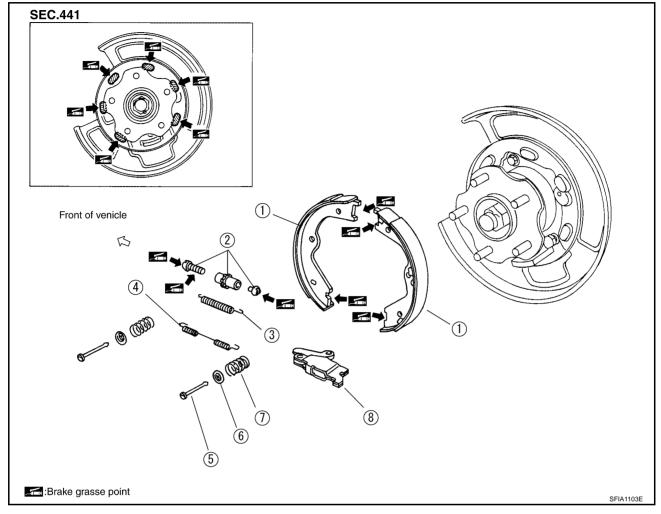
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Removal and Installation AFS00132 **REMOVAL** Remove instrument lower driver panel (foot lever type). Refer to IP-10, "INSTRUMENT PANEL ASSEM-BLY". Remove console. Refer to IP-10, "INSTRUMENT PANEL ASSEMBLY". Remove self-locking nut from device assembly. Remove the tire. 5 Remove rear disc caliper and disc rotor. Refer to BR-35, "REAR DISC BRAKE (AD14VE TYPE)", BR-41, "REAR DISC BRAKE (OPB13VB TYPE)". 6. Remove parking brake shoe, and remove rear cable from toggle lever. Refer to PB-8, "PARKING BRAKE SHOE". 7. Remove cable mounting nuts and bolts. Remove right and left rear cable from the vehicle. 9. Remove air bag sensor unit with the sensor mount bracket. Refer to SRS-48, "DIAGNOSIS SENSOR UNIT". 10. Remove front cable mounting nuts and bolts (foot lever type), and remove front cable from the vehicle. PΒ 11. Remove mounting bolts of the device assembly, and remove device assembly from the vehicle. INSTALLATION 1. Install in the reverse order of removal. Tighten the mounting bolts and nuts to the specified torque. **CAUTION:** Do not reuse the self-locking nut of the parking cable. Adjust clearance of parking brake shoes. Refer to PB-4, "On-Vehicle Service (Foot Lever Type)", PB-5, "On-Vehicle Service (Hand Lever Type)". Inspection AFS00133 Check the device assembly for bend, damage, and cracks. Replace if necessary. Check the cable for wear and damage. Check the warning lamp switch. Replace if necessary. Check each part for deformation, or damage by contact with other parts. Replace if necessary.

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PFP:44060

Components AFS00134



- 1. Shoe
- 4. Return spring
- 7. Anti-rattle spring

- 2. Adjuster assembly
- 5. Anti-rattle pin
- 8. Toggle lever

- 3. Adjuster spring
- 6. Retainer

Removal and Installation REMOVAL

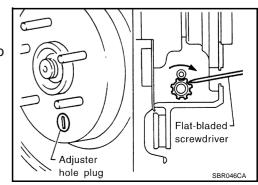
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CAUTION:

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

Be careful of the following:

- Remove the wheel, and remove the disc rotor with the parking pedal completely returned.
- If the disc rotor cannot be removed, remove as follows.
- 1. Fix the disc rotor with the wheel nut.
- 2. Remove plug.
- 3. Insert flat-bladed screwdriver through plug. Turn adjuster to make clearance between brake shoe and drum.

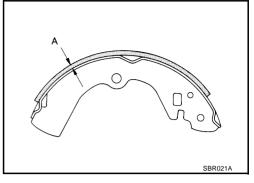


INSPECTION AFTER REMOVAL

Lining Thickness Inspection

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

Standard lining thickness : 3.2 mm (0.126 in) lining wear limit (A) : 1.5 mm (0.059 in)

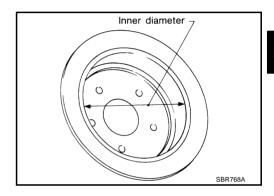


Drum Inner Diameter Inspection

Check the inner diameter of the drum.

Standard inner diameter : 172.0 mm (6.77 in)

Maximum inner diameter : 173.0 mm (6.81 in)



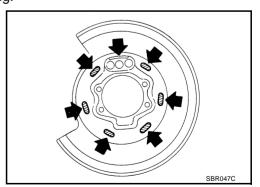
Other Inspections

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

INSTALLATION

Install all parts in the reverse order of while taking care of the following.

Apply brake grease to the contact areas shown in the figure.



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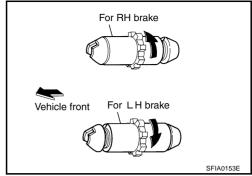
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- The orientation of the adjuster is different from left to right. Assemble the adjuster so that the threaded part is expanded when rotating it to the direction shown by the arrow. Contract the adjuster to assemble. When disassembling the adjuster, apply brake grease to the thread.
- Adjust the parking brake pedal stroke to the specified amount.
- After replacing the shoe or disc rotor, or if the brake does not function well, carry out the break-in operation as follows.



BREAKING IN DRUM AND LINING

CAUTION:

Do not carry out the break-in procedure excessively, because it may cause the uneven wear or premature wear of the lining.

When a new rotor/parking brake shoe is installed, or when braking performance is poor, perform the following break-in procedure.

- 1. Drive the unloaded vehicle on a safe, level and dry road.
- 2. Depress parking brake pedal with a force of 147 N (15 kg, 33 lb).
- 3. While depressing the pedal, continue to drive the vehicle for-ward 100 m (328 ft) at approximately 35 km/h (22 MPH).
- 4. Cool down parking brake for approx. Five minutes.
- 5. After releasing the pedal, drive the vehicle under the normal conditions for two minutes to cool down the parking drum brake.
- 6. Repeat steps 1 through 5 three times and then repeat only step 5 one more time.
- 7. After the break-in procedure, check the pedal stroke of the parking brake. If it is out of the specification, adjust again.

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

PFP:00030

Parking Drum Brake

AFS00137

Туре		DS17HF				
Proke lining	Standard thickness (new)	3.2 mm (0.126 in)				
Brake lining	Wear limit thickness	1.5 mm (0.059 in)				
Drugg (dia a)	Standard inner diameter (new)	172 mm (6.77 in)				
Drum (disc)	Wear limit of inner diameter	173 mm (6.81 in)				

Parking Brake Control

AFS00138

Control type	Foot lever / Hand lever				
Number of notables (under force of 106 NI /20 kg (41b))	3 - 4 (foot lever type)				
Number of notches (under force of 196 N (20 kg,44lb))	6 - 7 (hand lever type)				
Number of notches when warning lamp switch comes on	1				