

**GROUP 36****PARKING BRAKES****CONTENTS**

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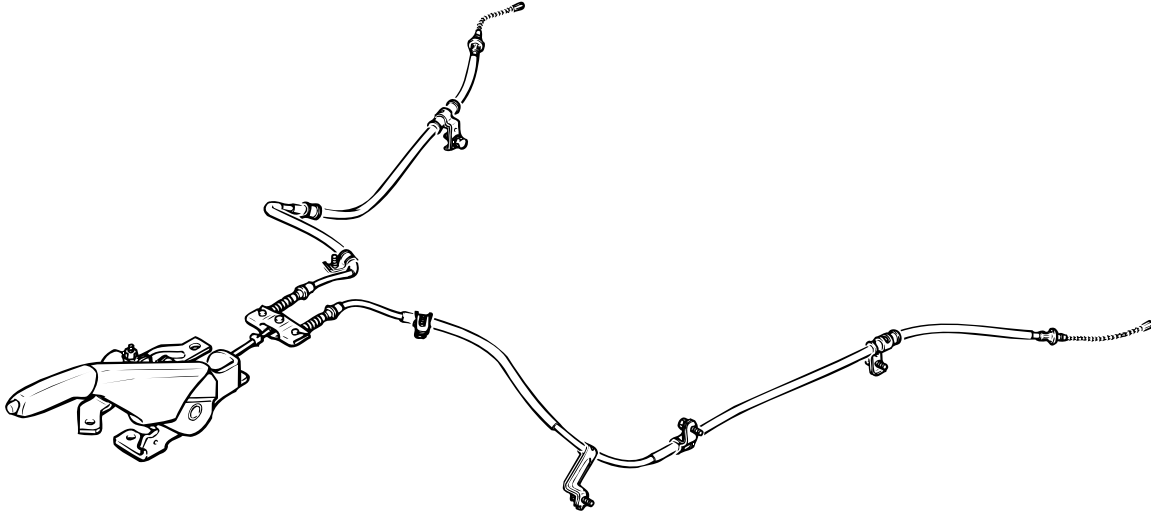


## GENERAL INFORMATION

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The parking brake is lever type of an mechanical rear-wheel brake construction in all vehicles.

## CONSTRUCTION DIAGRAM



AC004551

## ON-VEHICLE SERVICE

## PARKING BRAKE LEVER STROKE CHECK

M1361000900180

## ⚠ CAUTION

The 196 N (44 pounds) force of the parking brake lever must be strictly observed.

1. Pull the parking brake lever with a force of approximately 196 N (44 pounds) and count the number of notches.

**Standard value: 6 – 7 notches**

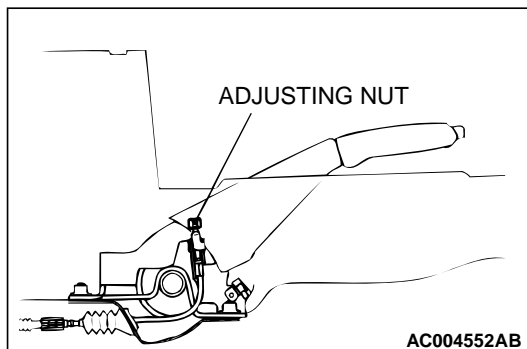
2. Lever Stroke Adjustment

Remove the switch panel (Refer to GROUP 52A, Floor Console [P.52A-35.](#)) then loosen the adjusting nut as far as the end of the cable rod as shown in the illustration. Then release the parking brake cable to adjust the parking brake lever stroke by the following procedures.

3. <Vehicles with drum brake>

- (1) With the engine idling, depress the brake pedal five or six times fully and confirm that the pedal stroke does not change.

*NOTE: If the pedal stroke does not change, the auto-adjusting mechanism is functioning normally, and clearance between the shoe and drum is correct.*



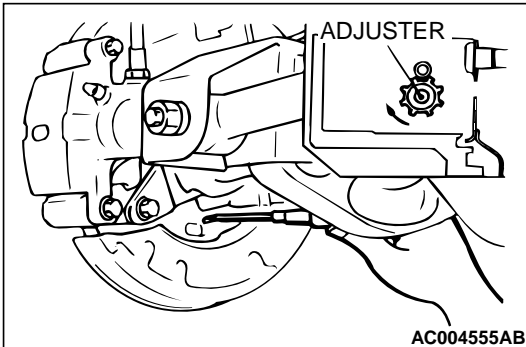
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**⚠ CAUTION**

**If the number of the brake lever notches engaged is less than the standard value, the cable has been pulled excessively. Be sure to adjust it to the standard value.**

- (2) Turn the adjusting nut to adjust the parking brake lever stroke to within the standard value range.
- (3) Check that there is no play between the adjusting nut and the parking brake lever.
- (4) Release the parking brake lever, and jack up the rear of the vehicle.
- (5) Turn the rear wheel to confirm that the rear brakes are not dragging.



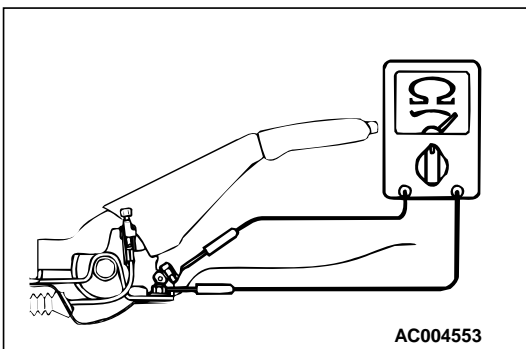
**4. <Vehicles with drum-in-disc brake>**

- (1) Remove the adjustment hole plug and then use a flat-tipped screwdriver to turn the adjuster as shown in the illustration until the disc will not rotate. Return the adjuster 3 or 4 notches in the opposite direction to the direction of the arrow.
- (2) Turn the adjusting nut to adjust the parking brake lever stroke to within the standard value range.
- (3) After making the adjustment, check to be sure that there is no play between the adjusting nut and the parking brake lever.
- (4) After adjusting the lever stroke, jack up the rear of the vehicle.
- (5) With the parking brake lever in the released position, turn the rear wheel to confirm that the rear brakes are not dragging.

**PARKING BRAKE SWITCH CHECK**

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1. Remove the rear floor console assembly. (Refer to GROUP 52A, Floor Console [P.52A-35](#).)
2. Disconnect the connector of the parking brake switch, and connect an ohmmeter between the parking brake switch and the switch installation bolt.
3. The parking brake switch is good if there is continuity when the parking brake lever or parking brake pull rod is pulled, and there is no continuity when it is released.





## LINING RUNNING-IN &lt;VEHICLES WITH DRUM-IN-DISC BRAKE&gt;

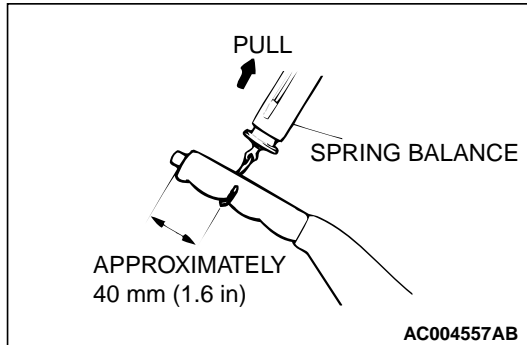
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**⚠ WARNING**

***Carry out running-in in a place with good visibility, and pay careful attention to safety.***

Carry out running-in by the following procedure when replacing the parking brake linings or the rear brake disc rotors, or when brake performance is insufficient.

1. Adjust the parking brake stroke to the specified value. (Refer to [P.36-2](#).)
2. Hook a spring balance onto the center of the parking brake lever grip and pull it with a force of 98 – 147 N (22 – 33 pounds) in a direction perpendicular to the handle.
3. Drive the vehicle at a constant speed of 35 – 50 km/h (22 – 31 mph) for 100 meters (328 feet).
4. Release the parking brake and let the brakes cool for 5 – 10 minutes.
5. Repeat the procedure in steps (2) to (4) 4 – 5 times.





# PARKING BRAKE LEVER

## REMOVAL AND INSTALLATION

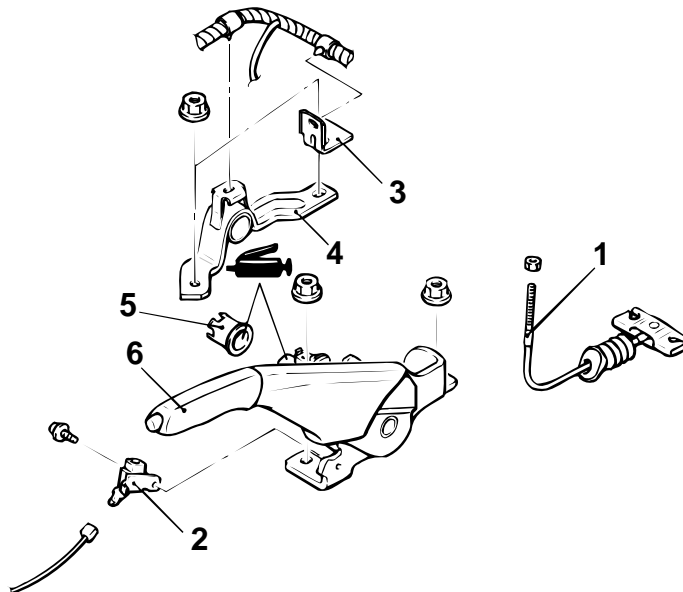
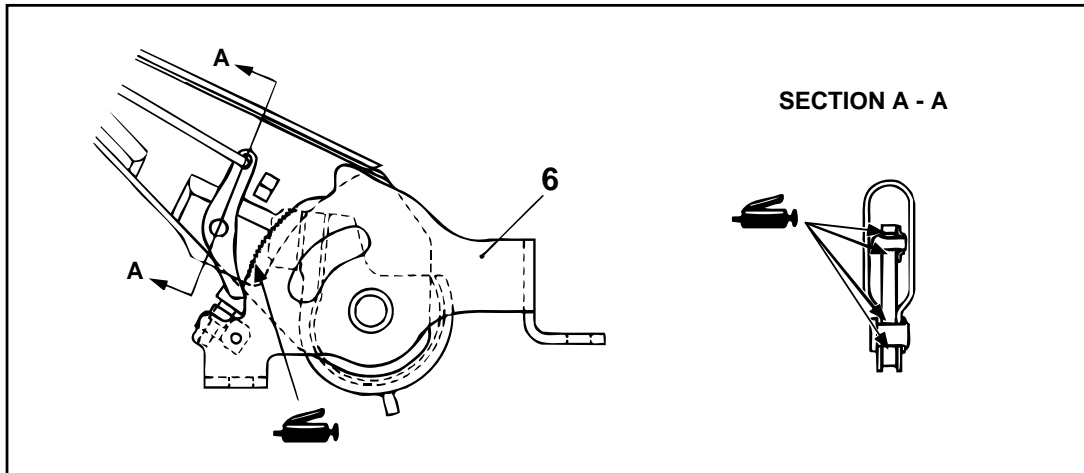
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### Pre-removal Operation

- Rear Floor Console Removal (Refer to GROUP 52A, Floor Console [P.52A-35.](#))

### Post-installation Operation

- Parking Brake Lever Stroke Adjustment (Refer to [P.36-2.](#))
- Rear Floor Console Installation (Refer to GROUP 52A, Floor Console [P.52A-35.](#))



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### REMOVAL STEPS

1. PARKING BRAKE LEVER CONNECTION
2. PARKING BRAKE SWITCH
3. BRACKET <VEHICLES WITH REAR HEATER>

### REMOVAL STEPS (Continued)

4. PARKING BRAKE LEVER STAY
5. PARKING BRAKE LEVER BUSHING
6. PARKING BRAKE LEVER



# PARKING BRAKE CABLE

## REMOVAL AND INSTALLATION

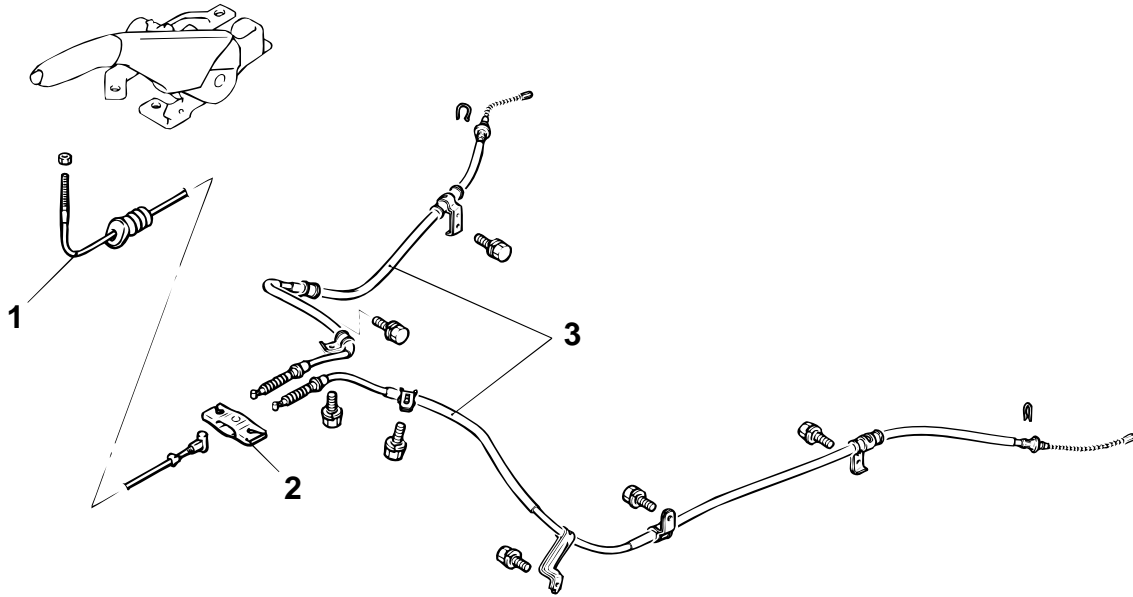
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**Pre-removal Operation**

- Rear Floor Console Removal (Refer to GROUP 52A, Floor Console [P.52A-35.](#))

**Post-installation Operation**

- Parking Brake Lever Stroke Check and Adjustment (Refer to [P.36-2.](#))
- Rear Floor Console Installation (Refer to GROUP 52A, Floor Console [P.52A-35.](#))



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**REMOVAL STEPS**

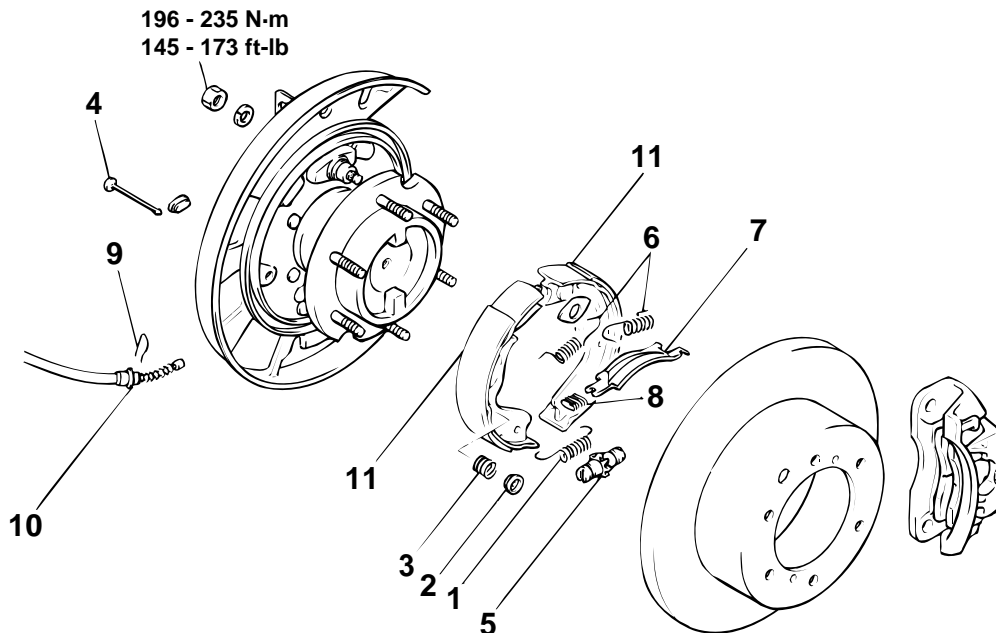
- SHOE AND LINING ASSEMBLY (REFER TO GROUP 35A, REAR DRUM BRAKE [P.35A-48.](#))
1. FRONT PARKING BRAKE CABLE
  2. CABLE EQUALIZER
  3. PARKING BRAKE CABLE



# PARKING BRAKE LINING AND DRUM

## REMOVAL AND INSTALLATION

M1361002500166



|  |   |
|--|---|
| <p>4</p>   | <p>11</p> <p>PARKING LEVER PIN</p> <p>5</p>           |
| <p>SEALANT:<br/>3M™ AAD PART NO.8633<br/>OR EQUIVALENT</p> | <p>BRAKE GREASE: BRAKE GREASE SAE J310, NLGI NO.1</p> |

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### REMOVAL STEPS

- REAR BRAKE DISC ASSEMBLY (REFER TO GROUP 35A, REAR DISC BRAKE [P.35A-42.](#))
- 1. ADJUSTING WHEEL SPRING
- 2. SHOE HOLD-DOWN CUP
- 3. SHOE HOLD-DOWN SPRING
- 4. SHOE HOLD-DOWN PIN
- >>B<< 5. ADJUSTER ASSEMBLY

### >>A<< REMOVAL STEPS (Continued)

- 6. ANCHOR-TO-SHOE SPRING
- 7. STRUT
- 8. STRUT SHOE SPRING
- 9. CLIP
- 10. PARKING BRAKE CABLE CONNECTION
- 11. SHOE AND LINING ASSEMBLY



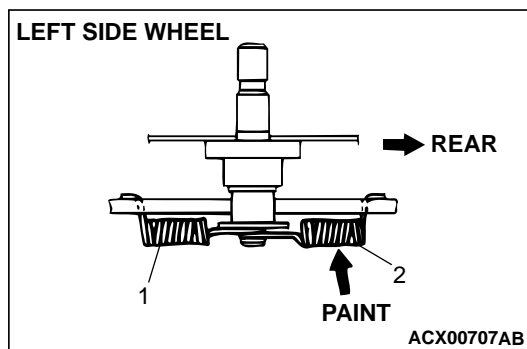
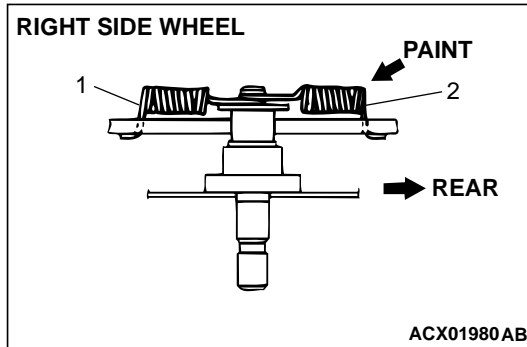
## INSTALLATION SERVICE POINTS

## &gt;&gt;A&lt;&lt; ANCHOR-TO-SHOE SPRING INSTALLATION

**⚠ CAUTION**

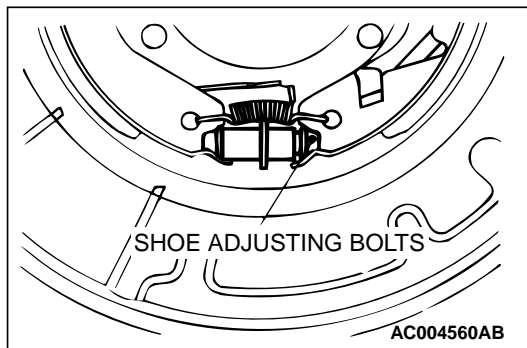
The front and rear anchor-to-shoe springs are not interchangeable, so the spring with the paint mark must be installed at the rear side.

Install the anchor-to-shoe springs in the order shown in the illustration.



## &gt;&gt;B&lt;&lt; ADJUSTER ASSEMBLY INSTALLATION

Install the adjuster so that the shoe adjusting bolt for the left hand wheel is attached towards the rear of the vehicle, and the shoe adjusting bolt for the right hand wheel is towards the front of the vehicle.

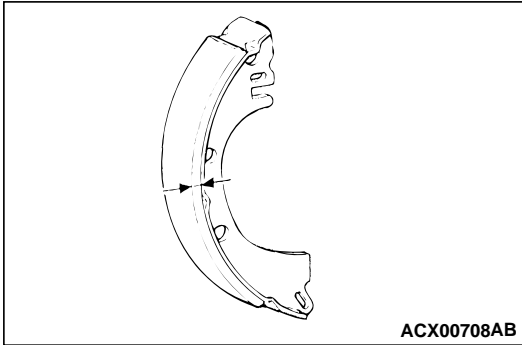




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## INSPECTION

### PARKING BRAKE LINING AND BRAKE DRUM CHECK

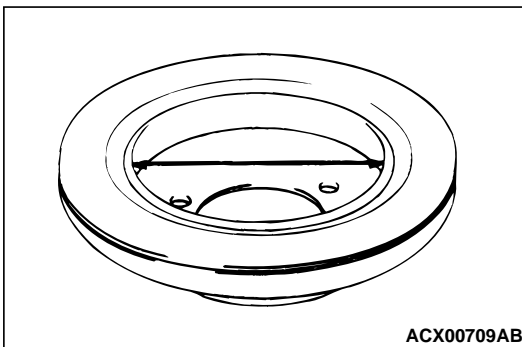


1. Measure the thickness of the brake lining at several places.

**Standard value: 2.8 mm (0.11 inch)**

**Minimum Limit: 1.0 mm (0.04 inch)**

2. If the thickness of the brake lining is below the limit, replace the shoe and lining assemblies on both sides of the vehicle. Never replace only one side.



3. Measure the inside diameter of the brake disc in two places or more.

**Standard value: 168.0 mm (6.61 inch)**

**Limit: 169.0 mm (6.65 inch)**

4. If the inside diameter exceeds the limit, or if it is excessively worn on one side, replace the brake disc.



**SPECIFICATIONS****FASTENER TIGHTENING SPECIFICATION**

M1361003500169

| ITEM                                | SPECIFICATION                   |
|-------------------------------------|---------------------------------|
| Anchor to shoe spring attaching nut | 196 – 235 N·m (145 – 173 ft-lb) |

**SERVICE SPECIFICATIONS**

M1361000300207

| ITEM                                | STANDARD VALUE | LIMIT              |
|-------------------------------------|----------------|--------------------|
| Parking brake lever stroke          | 6 – 7 Notches  | –                  |
| Rear brake lining thickness mm (in) | 2.8 (0.11)     | Minimum 1.0 (0.04) |
| Brake drum inside diameter mm (in)  | 168.0 (6.61)   | 169.0 (6.65)       |

**LUBRICANTS**

M1361000400185

| ITEM                     | SPECIFIED LUBRICANT              |
|--------------------------|----------------------------------|
| Adjuster                 | Brake grease SAE J310, NLGI No.1 |
| Backing plate            |                                  |
| Shoe and lining assembly |                                  |

**SEALANT**

M1361000500074

| ITEM               | SPECIFIED SEALANT                   |
|--------------------|-------------------------------------|
| Shoe hold-down pin | 3M™ AAD Part No. 8633 or equivalent |