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## GROUP 36

# PARKING BRAKES

### CONTENTS

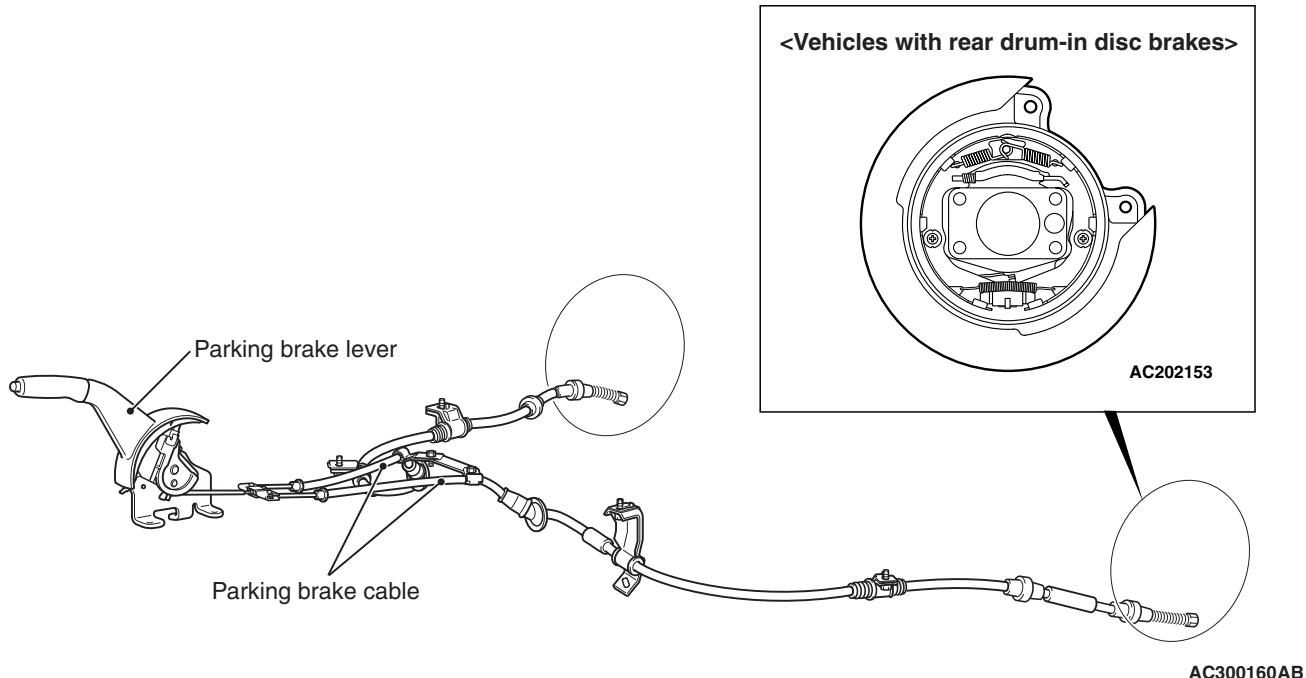
GENERAL INFORMATION .....	36-2	PARKING BRAKE LEVER .....	36-4
		REMOVAL AND INSTALLATION .....	36-4
SERVICE SPECIFICATIONS.....	36-2	PARKING BRAKE CABLE.....	36-5
ON-VEHICLE SERVICE.....	36-3	PARKING BRAKE LINING AND DRUM .....	36-6
PARKING BRAKE LEVER STROKE CHECK AND ADJUSTMENT .....	36-3	REMOVAL AND INSTALLATION .....	36-6
PARKING BRAKE SWITCH CHECK .....	36-3	INSPECTION.....	36-7
LINING RUNNING-IN .....			

## GENERAL INFORMATION

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The parking brake is of a mechanical rear-wheel acting type, and its operation utilises a parking brake lever.

## CONSTRUCTION DIAGRAM



## SERVICE SPECIFICATIONS

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Item	Standard value	Limit
Parking brake lever stroke	4 – 5 notches	–
Rear brake lining thickness mm	2.8	1.0
Rear drum inside diameter mm	168.0	169.0

## ON-VEHICLE SERVICE

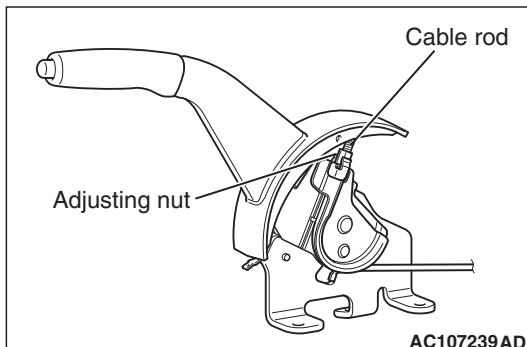
PARKING BRAKE LEVER STROKE  
CHECK AND ADJUSTMENT

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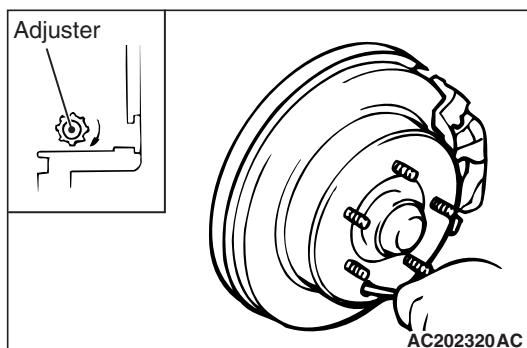
1. Pull the parking brake lever with a force of approximately 200 N and count the number of notches.

**Standard value: 4 – 5 notches**

2. If the parking brake lever stroke is not the standard value, adjust as described below.
- (1) Remove the floor console assembly (Refer to GROUP 52A, Floor Console Assembly P.52A-8).



- (2) Loosen the adjusting nut to move it to the cable rod end so that the cable will be free.



- (3) Remove the rear brake adjusting hole plug. Then insert a flat-tipped screwdriver to turn the adjuster to the arrow direction (to expand the shoe) until the parking brake shoe makes contact and the disc can no longer be turned. Back off the adjuster to the opposite direction by five notches.

**CAUTION**

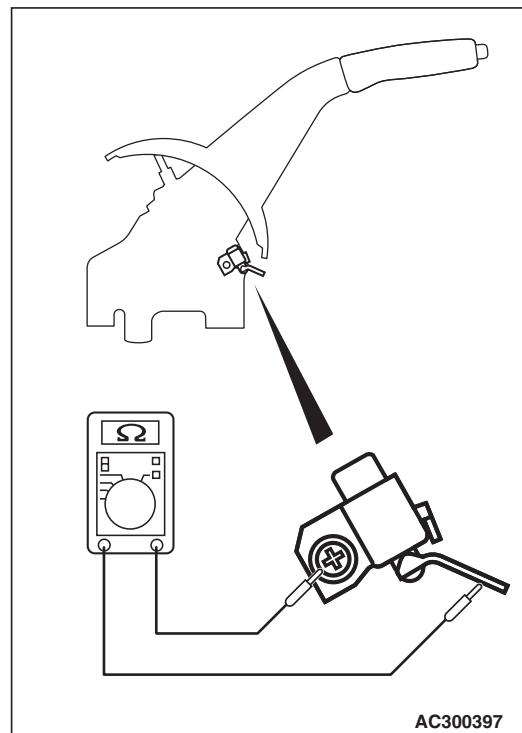
If the parking brake lever stroke is below the standard value and the braking is too firm, the rear brakes may drag.

- (4) Adjust the parking brake lever stroke to the standard value by turning the adjusting nut. After the adjustment, ensure that there is no free play between the adjusting nut and the parking brake lever.

- (5) After the parking brake lever stroke is adjusted, raise the rear of the vehicle. Release the parking brake, turn the rear wheels to confirm that the rear brakes are not dragging.

## PARKING BRAKE SWITCH CHECK

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1. Remove the floor console assembly (Refer to GROUP 52A, Floor Console Assembly P.52A-8).
2. Check for continuity between the parking brake switch terminal and the switch mounting bolt.

When parking brake lever is pulled	Less than 2 ohms
When parking brake lever is released	Open circuit

## LINING RUNNING-IN

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**CAUTION**

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 lever stroke to the specified value.

**Specified value (Operation force: Approx. 200 N): 4 – 5 notches**

2. Hook a spring balance onto the centre of the parking brake lever grip and pull it with a force of 100 – 150 N in a direction perpendicular to the handle.
3. Drive the vehicle at a constant speed of 35 – 50 km/h for 100 metres.
4. Release the parking brake and let the brakes cool for 5 – 10 minutes.
5. Repeat the procedure in steps 2 to 4 four or five times.

## PARKING BRAKE LEVER

### REMOVAL AND INSTALLATION

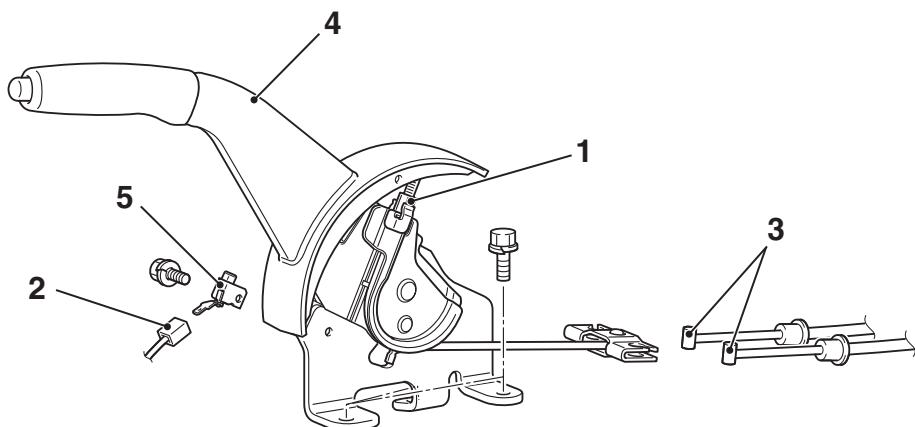
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#### Pre-removal Operation

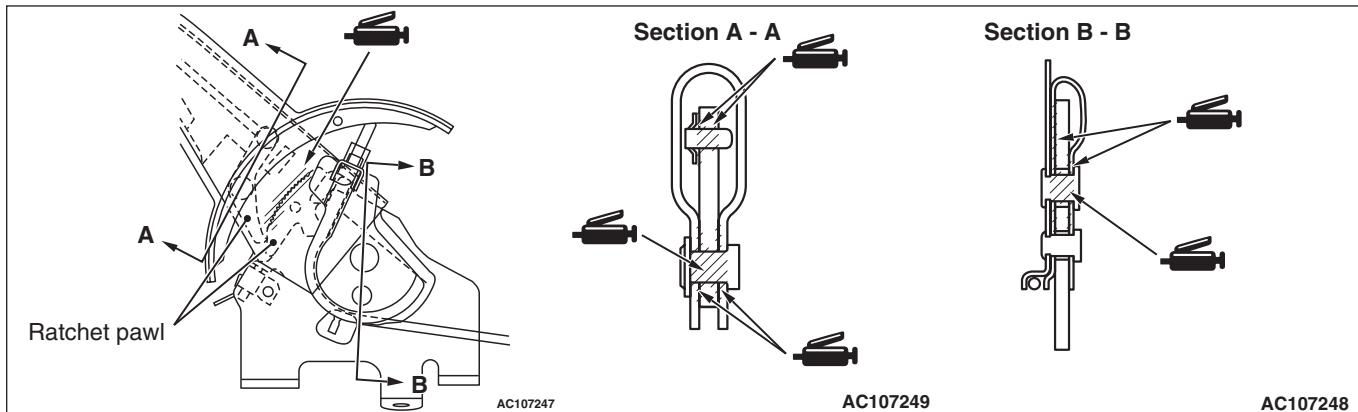
Rear Floor Console Assembly Removal (Refer to GROUP 52A, Floor Console [P.52A-8](#)).

#### Post-installation Operation

- Parking Brake Lever Stroke Adjustment (Refer to [P.36-3](#)).
- Rear Floor Console Assembly Installation (Refer to GROUP 52A, Floor Console Assembly [P.52A-8](#)).



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#### Removal steps

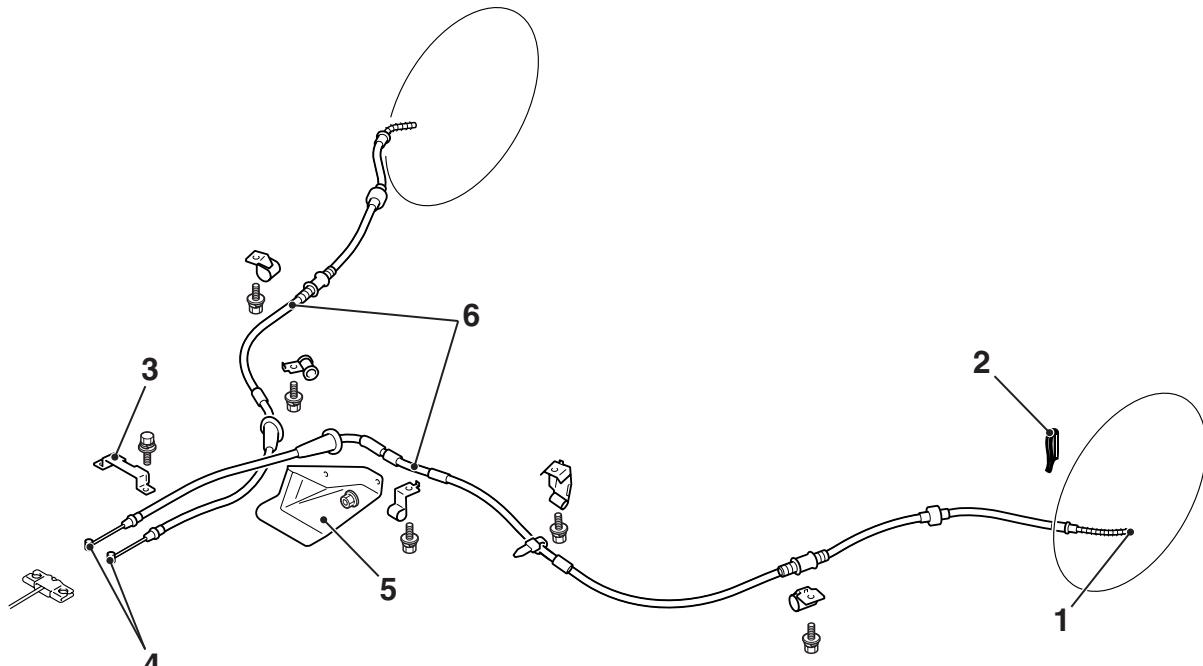
1. Adjusting nut
2. Parking brake switch connector
3. Parking brake cable connection
4. Parking brake lever assembly
5. Parking brake switch

## PARKING BRAKE CABLE

## REMOVAL AND INSTALLATION

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Pre-removal Operation	Post-installation Operation
<ul style="list-style-type: none"><li>Rear Floor Console Assembly Removal (Refer to GROUP 52A, Floor Console <a href="#">P.52A-8</a>).</li></ul>	<ul style="list-style-type: none"><li>Parking Brake Lever Stroke adjustment (Refer to <a href="#">P.36-3</a>).</li><li>Rear Floor Console Assembly Installation (Refer to GROUP 52A, Floor Console Assembly <a href="#">P.52A-8</a>).</li></ul>



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## Removal steps

- Shoe and lining assembly (Refer to [P.36-6](#)).
- Loosen the adjusting nuts.
- Turn up the driver's side carpet.
- Parking brake cable connection

## Removal steps (Continued)

- Clip
- Protector B
- Parking brake cable connection
- Protector C
- Rear parking brake cable assembly

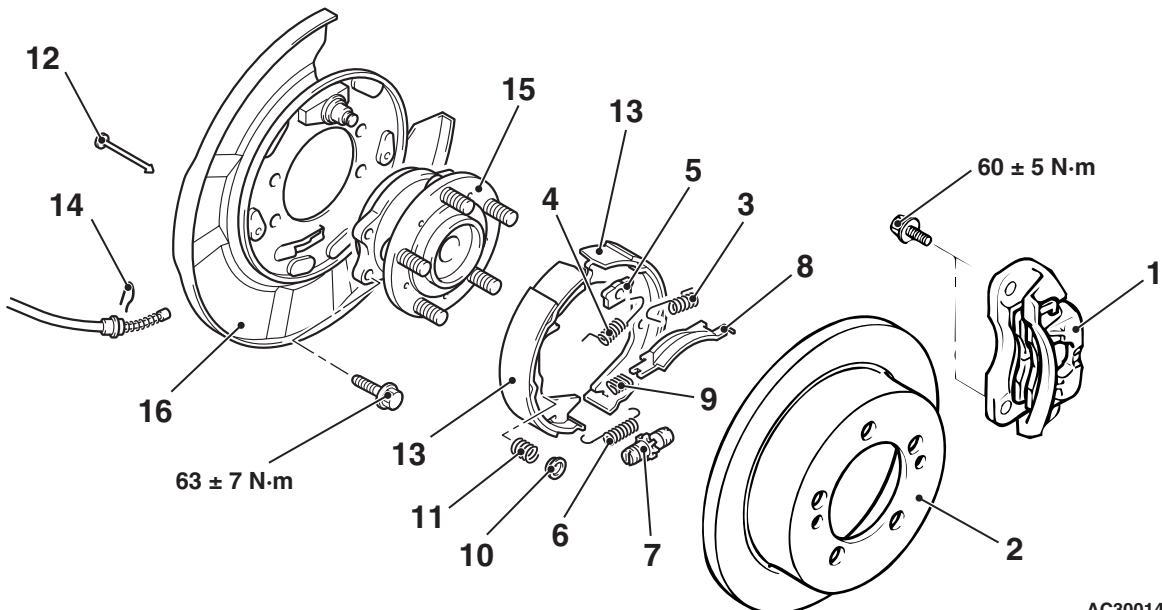
# PARKING BRAKE LINING AND DRUM

## REMOVAL AND INSTALLATION

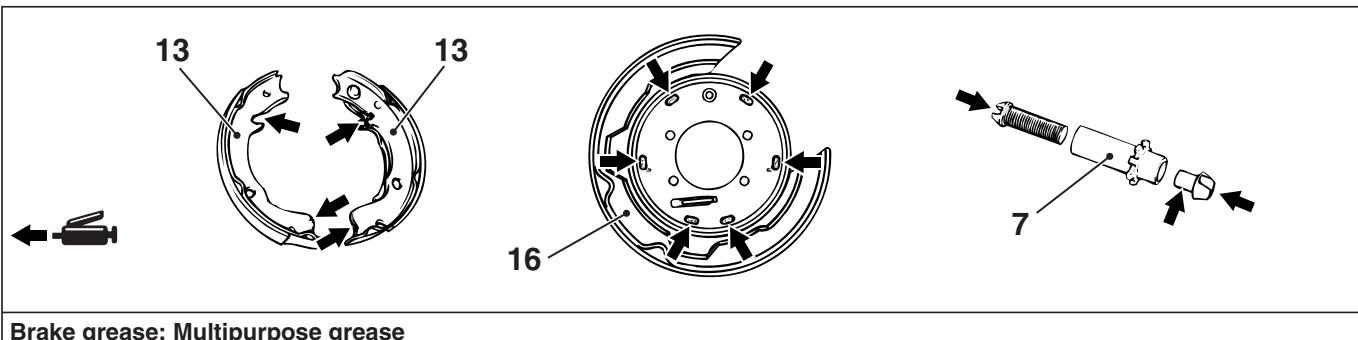
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**Post-installation Operation**

- Parking Brake Lever Stroke Check and Adjustment (Refer to [P.36-3](#)).
- Lining Running-in (Refer to [P.36-3](#)).
- Floor Console Installation (Refer to GROUP 52A, Floor Console Assembly [P.52A-8](#)).



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Brake grease: Multipurpose grease

**Removal steps**

<<A>> 1. Rear brake caliper assembly  
2. Rear brake disc

>>B<< 3. Shoe-to-anchor spring  
>>B<< 4. Shoe-to-anchor spring  
5. Shoe guide plate  
6. Adjusting wheel spring

>>A<< 7. Adjuster assembly  
8. Strut  
9. Strut-to-shoe spring  
10. Shoe hold-down cup

**Removal steps (Continued)**

11. Shoe hold-down spring  
12. Shoe hold-down pin  
13. Shoe and lining assembly  
14. Clip  
15. Rear hub assembly (For 2WD, refer to GROUP 27A, Rear Hub Assembly [P.27A-5](#). For 4WD, refer to GROUP 27B, Rear Hub Assembly [P.27B-9](#)).  
16. Backing plate

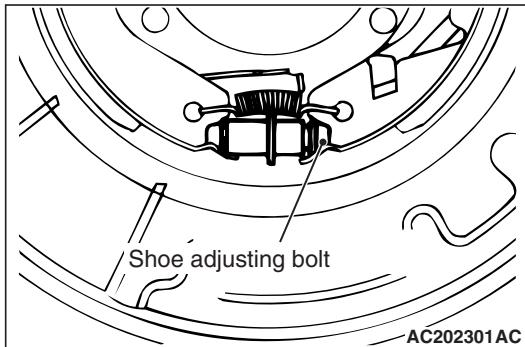
## REMOVAL SERVICE POINT

### <<A>> REAR BRAKE CALIPER ASSEMBLY REMOVAL

Remove the rear brake caliper assembly and support it with wire or something similar.

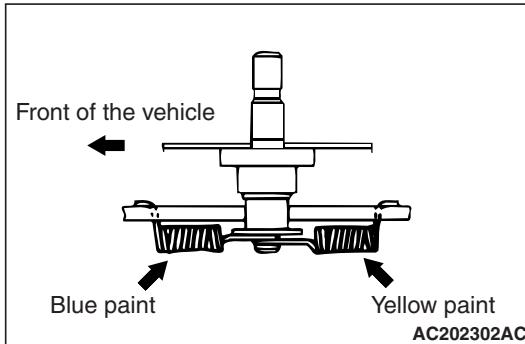
## INSTALLATION SERVICE POINTS

### >>A<< 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.

### >>B<< SHOE-TO-ANCHOR SPRING INSTALLATION



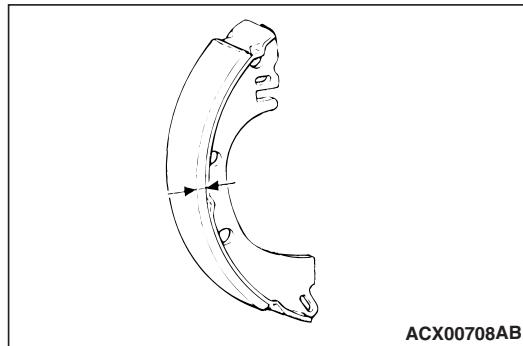
The shoe-to-anchor springs are not interchangeable as their constants are different. The one with blue paint mark should be install at the front of the vehicle, and the other with yellow paint at the rear of the vehicle, respectively.

*NOTE: The illustration shows the left rear wheel. The right rear wheel is symmetrical to that.*

## INSPECTION

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### PARKING BRAKE LINING AND BRAKE DRUM CHECK

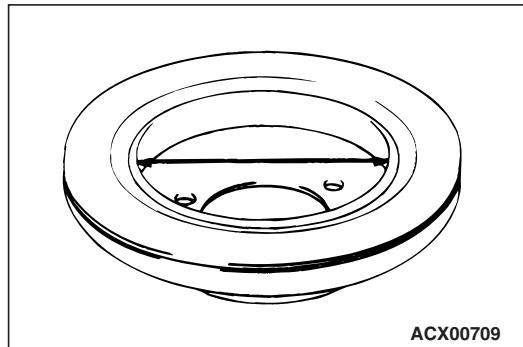


1. Measure the thickness of the brake lining at several places.

**Standard value: 2.8 mm**

**Limit: 1.0 mm**

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**

**Limit: 169.0 mm**

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

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**NOTES**