GROUP 36

PARKING BRAKES

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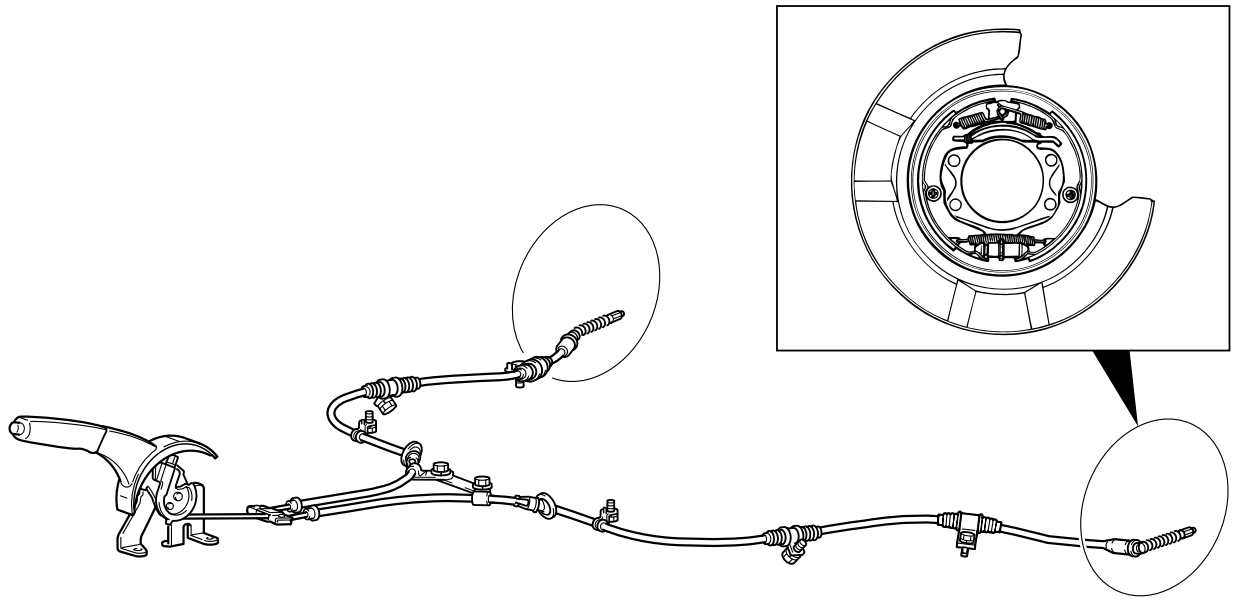
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GENERAL INFORMATION

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The parking brake is of a mechanical control type acting on the rear wheels. A lever is used to apply the parking brake.

CONSTRUCTION DIAGRAM



AC211553AB

SERVICE SPECIFICATIONS

M1361000300490

Item	Standard value	Limit
Parking brake lever stroke	5 – 7 notches	–
Rear brake lining thickness mm	2.8	Minimum 1.0
Rear drum inside diameter mm	168.0	169.0

LUBRICANTS

M1361000400367

Item	Specified lubricant
Backing plate	Brake grease SAE J310, NLGI No.1
Shoe and lining assembly	
Adjuster	

ON-VEHICLE SERVICE

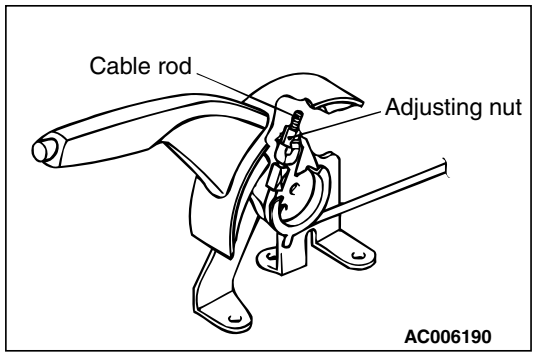
PARKING BRAKE LEVER STROKE CHECK AND ADJUSTMENT

M1361000900447

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

   Standard value: 5 – 7 notches

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



   (2) Loosen the adjusting nut to move it to the cable rod end so that the cable will be free.
   (3) Depress the brake pedal repeatedly until the lever has no change in its stroke.

   NOTE: Depressing the brake pedal repeatedly adjusts shoe clearance correctly.

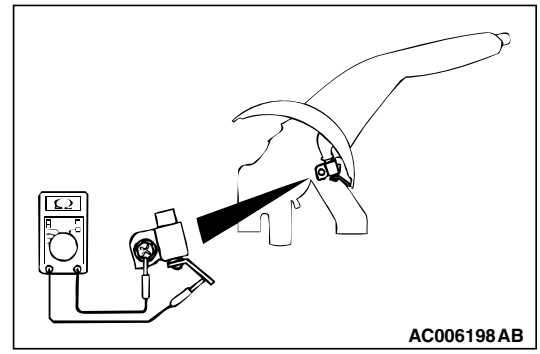
⚠ CAUTION
If the parking brake lever stroke is below the standard value and the braking is too firm, the rear brakes may drag.

   (4) Turn the adjusting nut to adjust the parking brake lever stroke to the standard value. After adjusting, check that there is no space between the adjusting nut and the parking brake lever. Check that the adjusting nut is secured with the nut holder.
   (5) After adjusting the parking brake lever stroke, jack up the rear end of the vehicle, and then release the parking brake and turn the rear wheels to check that the rear brakes are not dragging.

PARKING BRAKE SWITCH CHECK

M1361003300488

1. Remove the rear floor console assembly (Refer to GROUP 52A, Rear Floor Console P.52A-8).
2. Remove the front seat assembly (RH) (Refer to GROUP 52A, Front Seat P.52A-18).

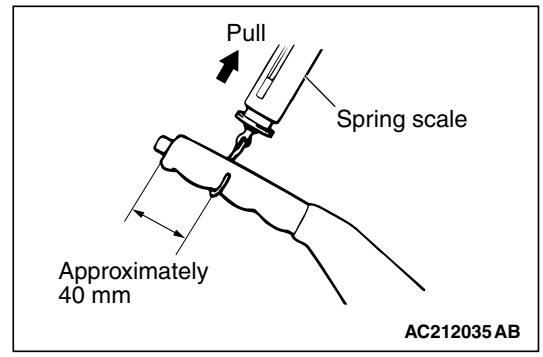


3. Check for continuity between the parking brake switch terminal and the switch mounting bolt.

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

LINING RUNNING-IN

M1361001100336



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.

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

1. Adjust the parking brake stroke to the standard value.

   Standard value (Operation force: Approximately 200 N): 5 - 7 notches

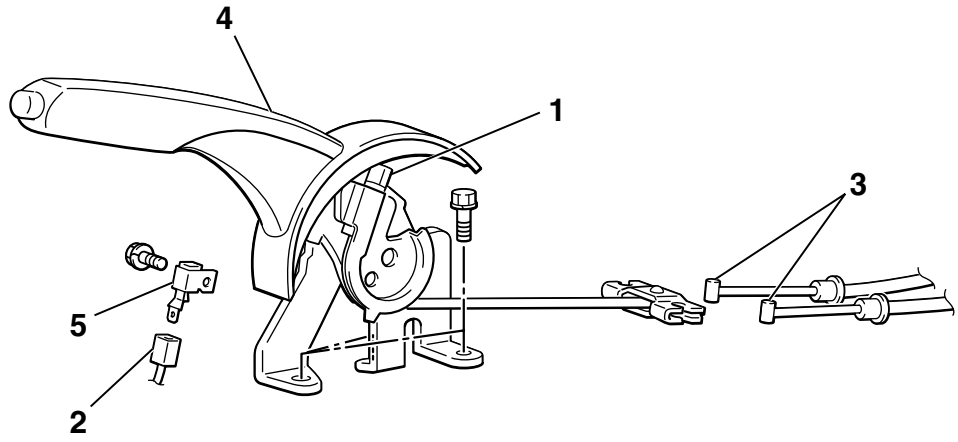
2. Hook a spring scale onto the centre of the parking brake lever grip and pull it with a force of 100 – 150 N in a direction perpendicular to the handle.
3. Drive the vehicle at a constant speed of 35 – 50 km/h for 100 meters.
4. Release the parking brake and let the brakes cool for 5 - 10 minutes.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

PARKING BRAKE LEVER

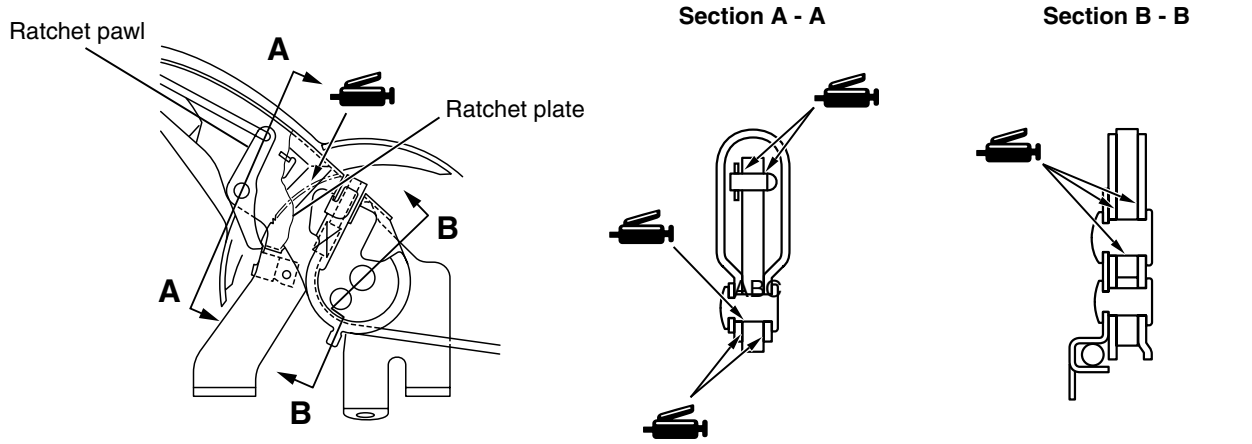
REMOVAL AND INSTALLATION

M1361001300426

Pre-removal Operation	Post-installation Operation
Rear Floor Console Assembly and Rear Console Bracket Removal (Refer to GROUP 52A, Rear Floor Console P.52A-8).	• Parking Brake Lever Stroke Adjustment (Refer to P.36-3). • Rear Floor Console Assembly and Rear Console Bracket Installation (Refer to GROUP 52A, Rear Floor Console P.52A-8).



AC212036AB



AC212037AB

Removal steps

1. Adjusting nut
2. Parking brake switch connector
3. Parking brake cable connection

Removal steps (Continued)

4. Parking brake lever assembly
5. Parking brake switch

PARKING BRAKE CABLE

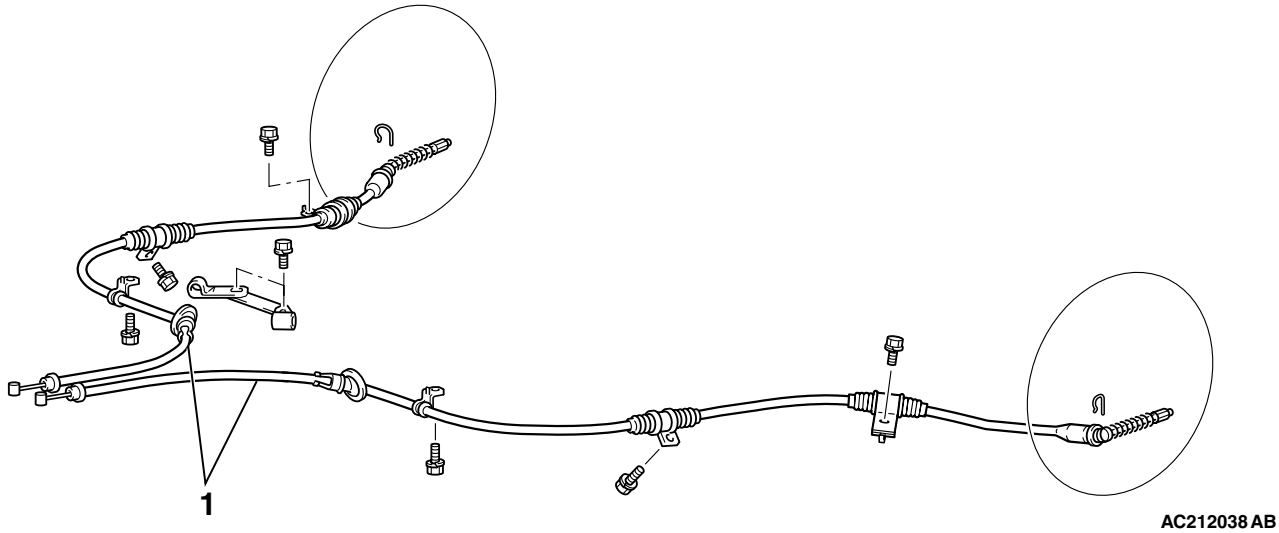
REMOVAL AND INSTALLATION

M1361001900644

⚠ CAUTION

During maintenance, take care not to contact the parts or tools to the caliper because the paint of caliper will be scratched. And if there is brake fluid on the caliper, wipe it off quickly.

Pre-removal Operation	Post-installation Operation
• Rear Floor Console Assembly and Rear Console Bracket Removal (Refer to GROUP 52A, Rear Floor Console P.52A-8). • Rear Seat Cushion Assembly Removal (Refer to GROUP 52A, Rear Seat P.52A-21).	• Parking Brake Lever Stroke adjustment (Refer to P.36-3). • Rear Seat Cushion Installation (Refer to GROUP 52A, Rear Seat P.52A-21). • Rear Floor Console Assembly and Rear Console Bracket Installation (Refer to GROUP 52A, Rear Floor Console P.52A-8).



AC212038 AB

Removal steps

- Shoe and lining assembly (Refer to P.36-6).

Removal steps (Continued)

- Parking brake cable connection (Refer to P.36-4).

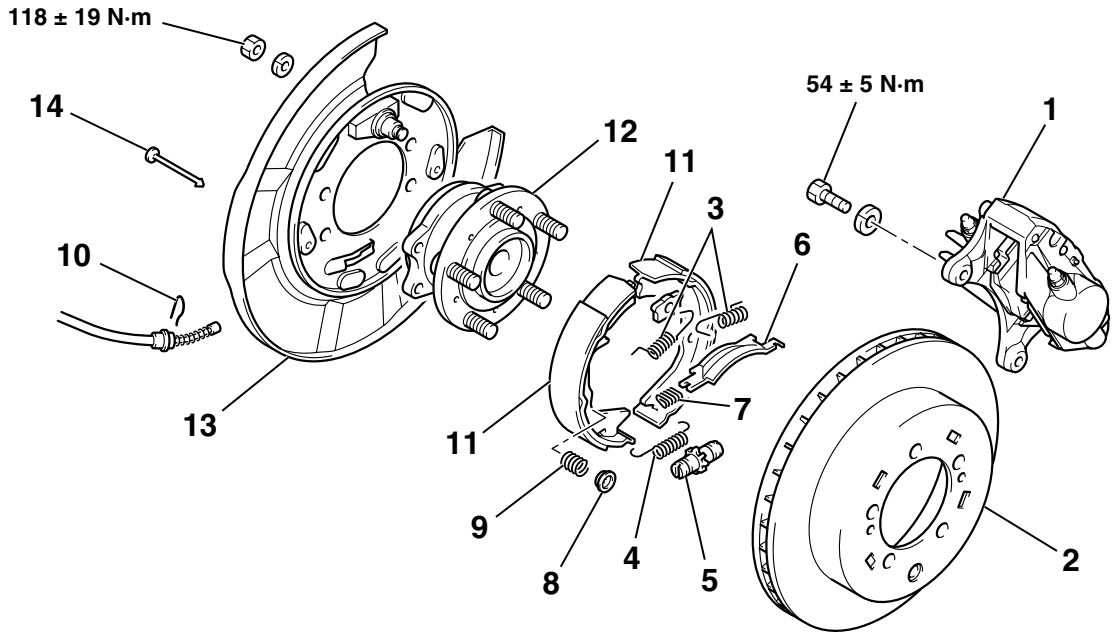
1. Parking brake cable

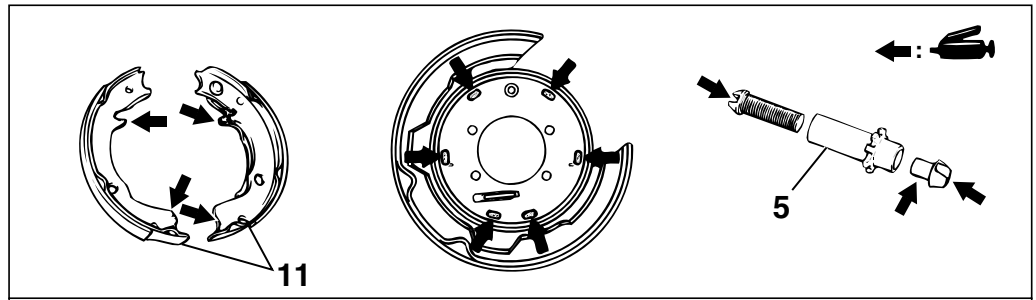
PARKING BRAKE LINING AND DRUM

REMOVAL AND INSTALLATION

M1361002500401

⚠ CAUTION
During maintenance, take care not to contact the parts or tools to the caliper because the paint of caliper will be scratched. And if there is brake fluid on the caliper, wipe it off quickly.





Specified grease: Brake grease SAE J310, NLGI No.1

AC212051 AB

Removal steps

<<A>> 1. Rear disc brake assembly
2. Rear brake disc
>>B<< 3. Rear brake shoe return spring
4. Rear brake shoe auto adjuster spring
>>A<< 5. Rear brake shoe slack adjuster
6. Parking brake operating lever strut
7. Rear brake shoe-to-strut spring
8. Rear brake shoe spring cup
9. Rear brake shoe hold-down spring
10. Parking brake cable clip
11. Rear brake shoe assembly
12. Rear hub assembly (Refer to GROUP 27, Rear Hub Assembly P.27-34).
13. Rear brake backing plate
14. Rear brake pin

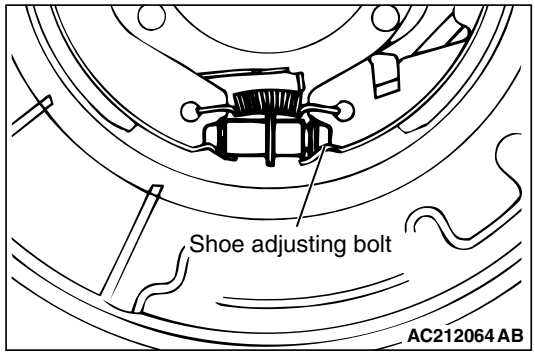
REMOVAL SERVICE POINT

<<A>> REAR DISC BRAKE CALIPER ASSEMBLY REMOVAL

⚠ CAUTION
Take care not to contact the parts or tools to the caliper because the paint of caliper will be scratched. And if there is brake fluid on the caliper, wipe it off quickly.
Remove the rear brake caliper assembly and support it with a wire or similar material.

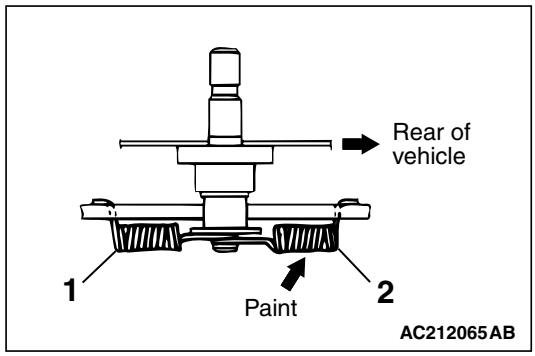
INSTALLATION SERVICE POINTS

>>A<< REAR BRAKE SHOE SLACK ADJUSTER INSTALLATION



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

>>B<< REAR BRAKE SHOE RETURN SPRING INSTALLATION



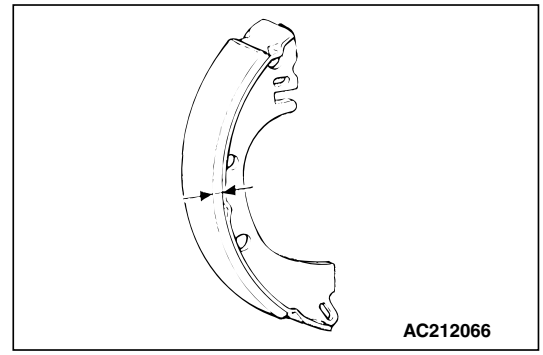
Install the rear brake shoe return springs in the order shown in the illustration.

NOTE: The figure shows the left wheel; for the right wheel, the position is symmetrical.

INSPECTION

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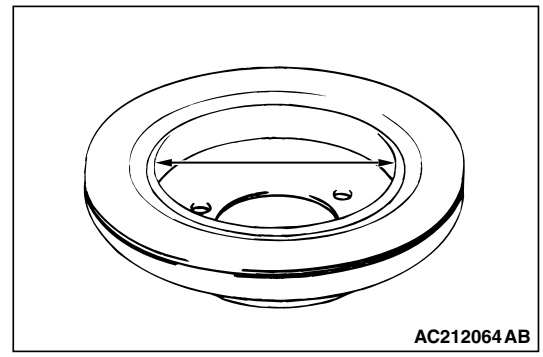
BRAKE LINING AND BRAKE DRUM CHECK



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 has worn down to the limit value or more, replace the rear brake shoe assemblies on both sides of the vehicle.



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 of the brake disc has worn down to the limit value or more, or if it is excessively worn on one side, replace the brake disc.

NOTES