
Brake Wear Check Procedure

Brake Wear Check Procedure

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1. Precautions for Checking and Adjustments

WARNING

- Make sure to turn off the engine and remove the key from the starter switch before performing any checks.
- Pull the parking brake lever firmly and put the transmission in neutral.
 - If your vehicle is equipped with a manual transmission, make sure the gearshift lever is in "N".
 - If your vehicle is equipped with an automatic transmission, place the selector lever in "N" and make sure the shift indicator light "N".
- Select a place with a hard and level surface to performing the checking and adjustment work. Make sure to chock the wheels. It would be very dangerous if the vehicle starts to move.
- When jacking up the vehicle, use a suitable jack and not the one provided with the vehicle.
- After jacking up the vehicle, make sure that the vehicle is supported by jack stands when performing work underneath the vehicle.
- When performing work on the electrical system, be sure to disconnect the negative battery cable.
- The engine, exhaust pipe, radiator, and other parts surrounding them will be hot immediately after the vehicle is driven. Be careful around these parts to prevent burns. Perform all checks when the engine is cold.
- Do not perform work near an open flame or other heat sources.
- Do not let the engine run in poorly ventilated garages or sheds. This could cause carbon monoxide poisoning.

CAUTION

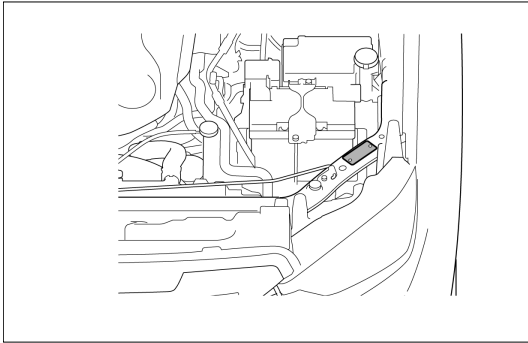
- Discarded parts, oil, grease and fluids could have an adverse effect on the environment. When disposal is necessary, please follow the local laws and perform appropriate disposal procedures.
Since there are cases where the disposing may become a problem, we recommend that your Isuzu dealer handle all checks and replacements.
- It is important to follow the instructions of brake wear check procedure in order to avoid accidents and injury while working on the brake system.
- Work on the brake system shall only be carried out by those with sufficient knowledge and training. Contact your supervisor for assistance when necessary.
- If replacement is necessary for brake parts or lubricant, always use Isuzu genuine parts or lubricant.
- If Isuzu genuine special service tool is required in the procedure, always use Isuzu genuine special service tools.
- Please contact your local Isuzu dealer for Isuzu genuine parts, lubricant and special service tools.
- Please be aware that Isuzu is not responsible for your own work and practices.

ADVICE

- Confirm that all systems and components are normal after performing the work.
- Do not leave the removed parts or tools in the engine compartment. They could damage the equipment if caught in the belts or other moving components.

2. Vehicle Identification Number (V.I.N.)

- The V.I.N. is indicated on the V.I.N. plate.
- The V.I.N. plate is attached to the upper surface of the radiator sill in the engine compartment.



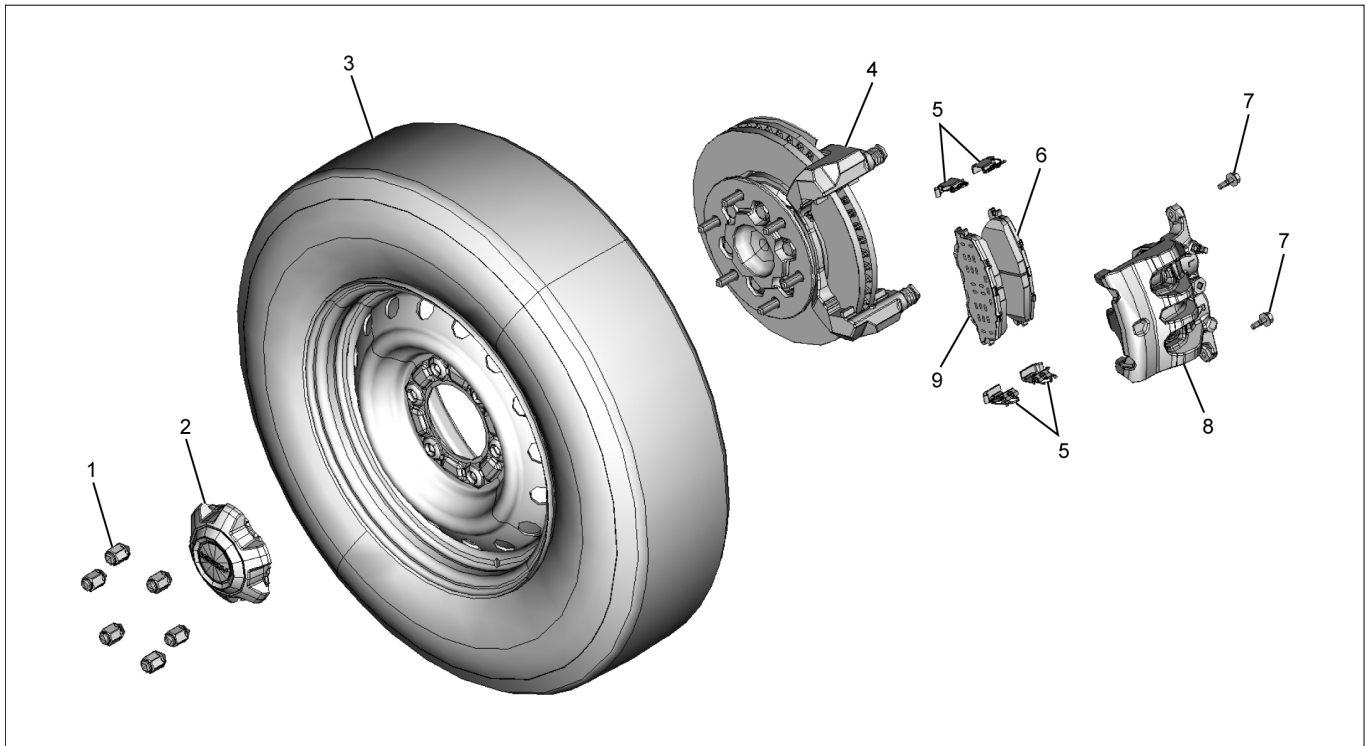
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M P 2 T F R 8 7 J L T 0 0 0 0 0 1

MODEL CODE

3. Checking the Brake Rotor and Pads for Wear - Front Disc Brakes

Components



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Legend

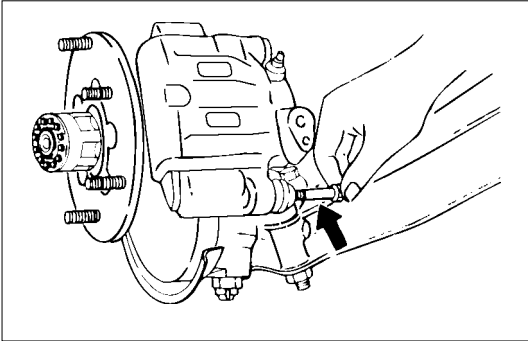
- | | |
|--------------------|---------------------|
| 1. Wheel nut | 6. Inner pad |
| 2. Wheel cap | 7. Lock bolt |
| 3. Wheel and tire | 8. Caliper assembly |
| 4. Support bracket | 9. Outer pad |
| 5. Pad clip | |

Removal

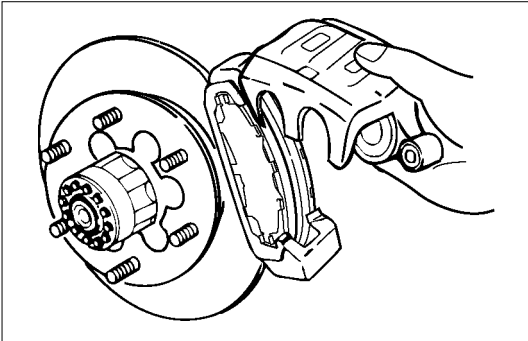
1. Jack up the vehicle and support it with suitable safety stands.
2. Remove the wheel and tire.
3. Remove the lock bolt from the caliper.

NOTE:

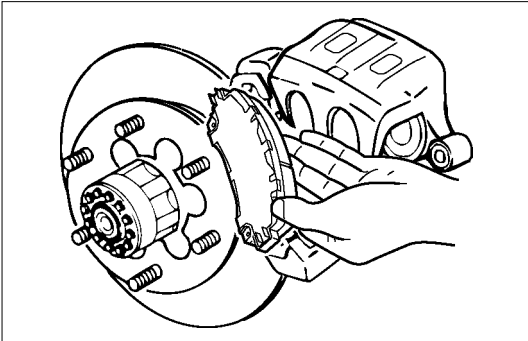
Do not remove the brake hose from the caliper when replacing pads.



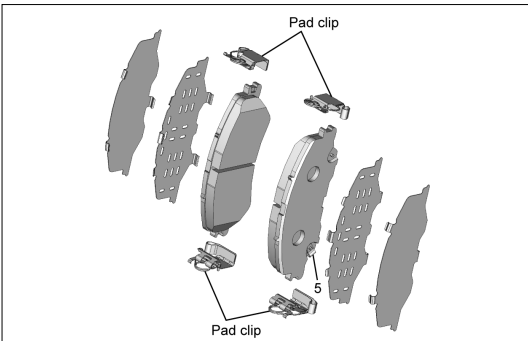
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4. Rotate the caliper upward.

Remove the caliper from the support bracket and move the caliper to the upper link or the frame.

NOTE:

While caliper is removed from the support bracket, never step on the brake pedal or the piston will protrude rapidly.

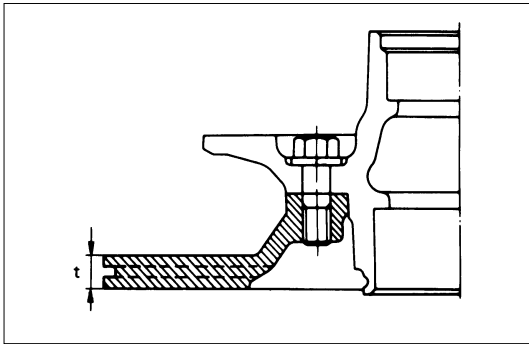
5. Remove the pad assembly with the shim.

Mark the locations of pad if they are to be reinstalled.

6. Remove the pad clips.

CAUTION:

Do not reuse the pad clips.



Inspection

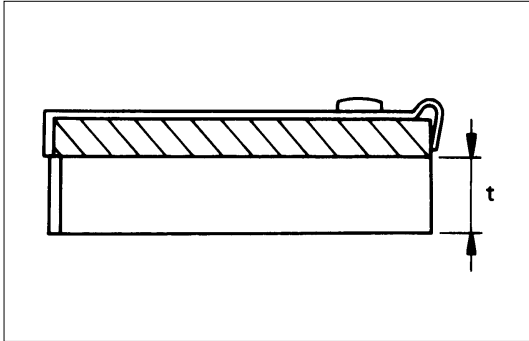
1. Measure the rotor thickness.

Thickness (t)	mm (in)
Standard	Replacement thickness (Discard)
30.0 (1.181)	28.0 (1.102)

NOTE:

Use Isuzu genuine parts when replacing the rotor.

2. Measure the pad thickness.



Thickness (t)	mm (in)
Standard	Limit
10.0 (0.394)	1.5 (0.059)

If the pad is worn to within 1.8 mm {0.071 in} of the shoe table, the pad wear indicator makes a scratching sound.

NOTE:

Use Isuzu genuine parts when replacing the disc pad.

CAUTION:

When replacing, replace all 4 pads (inner and outer pads of both the left and right wheels).

Installation

1. Install the pad clip into the brake support.

CAUTION:

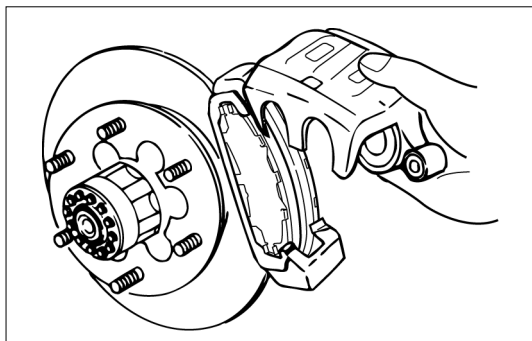
Do not stick reuse the pd clips.

2. Install the pad assembly with the shim.

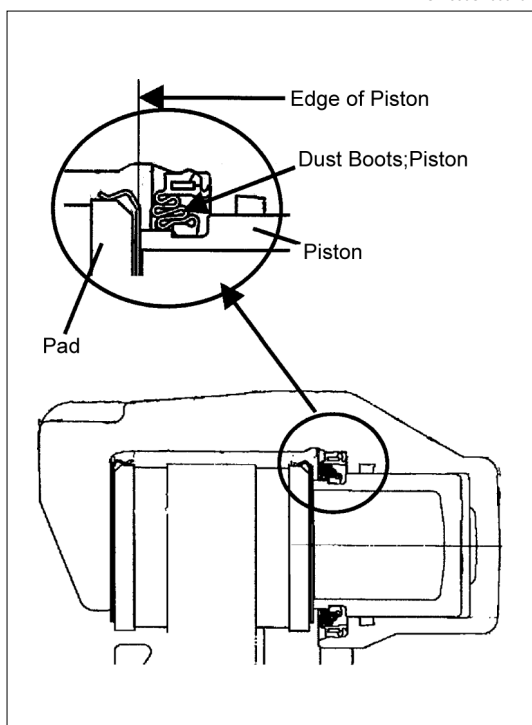
3. Install the caliper assembly.

Lower the caliper into its original position.

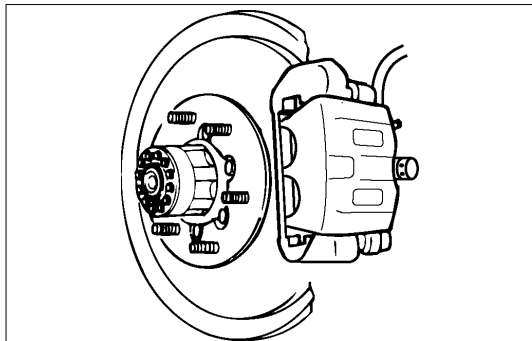
Do not damage the flexible hose by twisting or pulling it.



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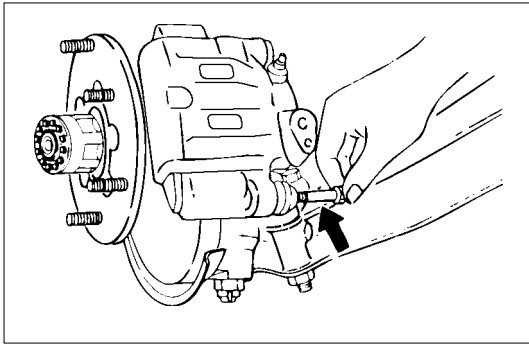


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CAUTION:

Confirm that the dust boot does not stick out from the edges of the piston, and then lower the caliper.

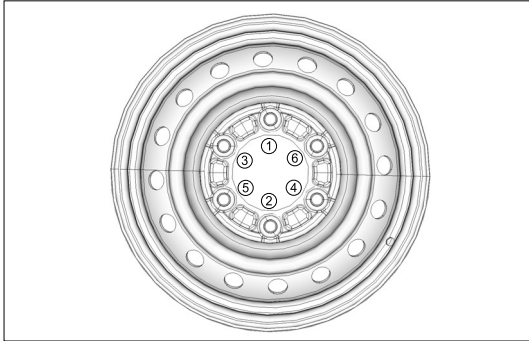
Be careful not to let the dust boot caught between the piston and the pad.



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4. Attach the lock bolt to the caliper.

Torque	N·m (kg·m/lb·ft)
32- 42 (3.3 - 4.3 / 24 - 31)	



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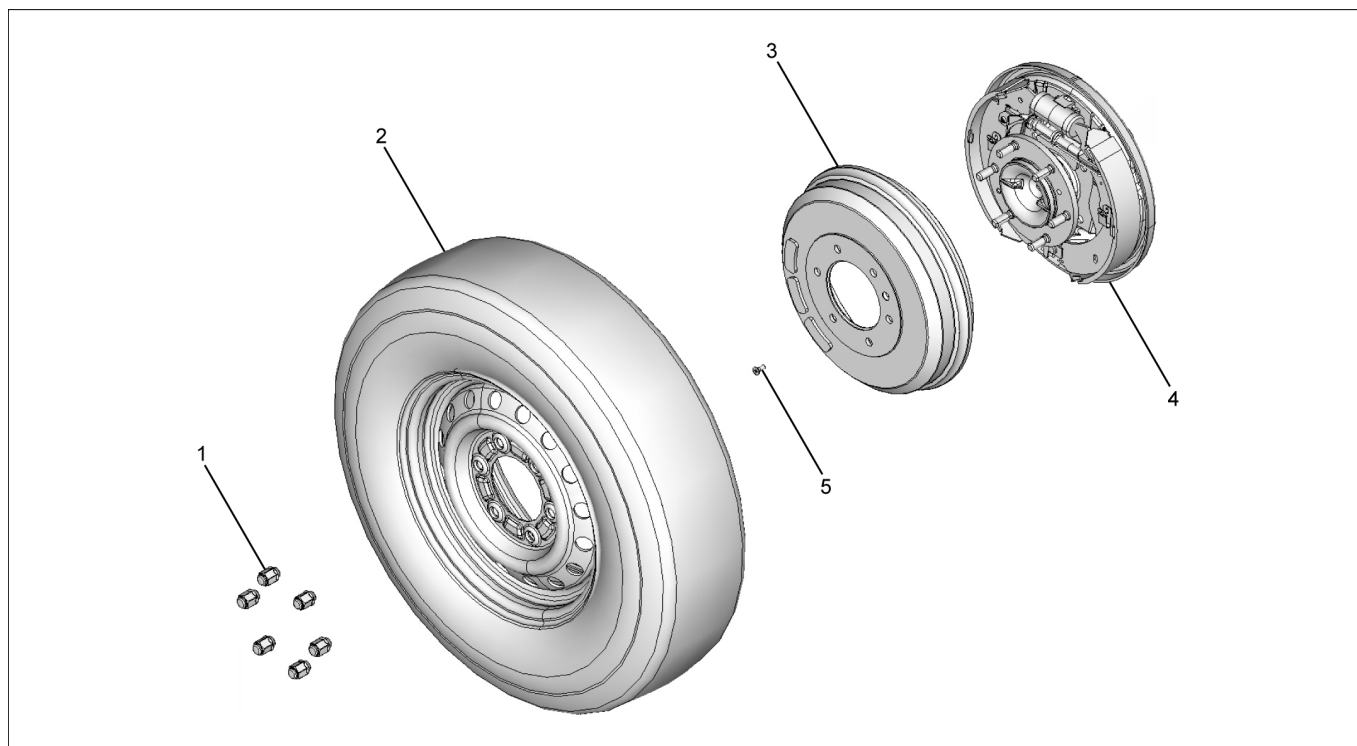
5. Install the wheel and tire.

Tighten wheel nuts in numerical order.

Torque	N·m (kg·m/lb·ft)
120 (12 / 87)	

4. Checking the Brake Drum and Lining for Wear - Rear Drum Brakes

Components



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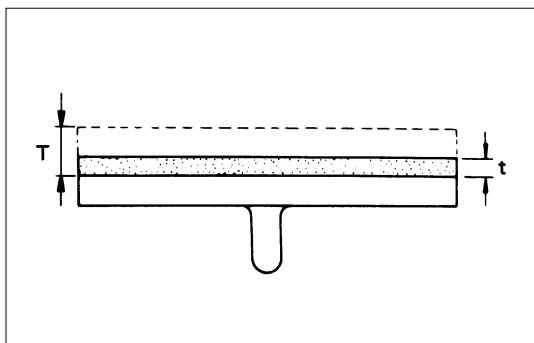
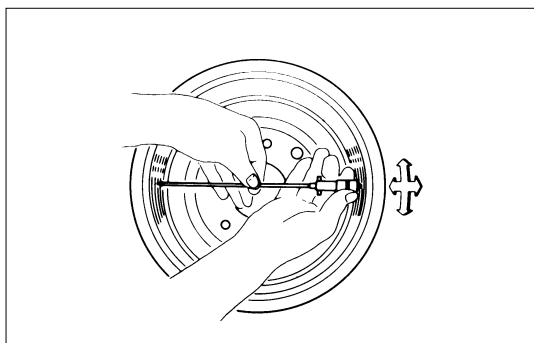
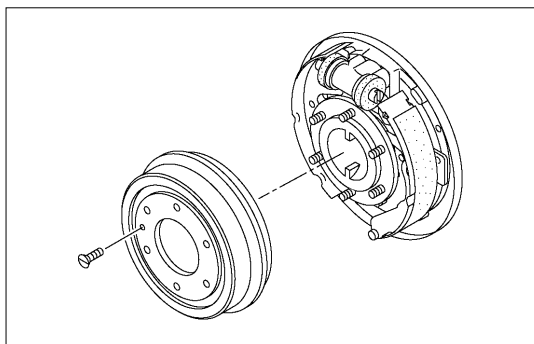
Legend

- 1. Wheel nut
- 2. Wheel and tire
- 3. Brake drum

- 4. Drum brake assembly
- 5. Screw

Removal

1. Jack up the vehicle and support it with suitable safety stands.
2. Remove the wheel and tire.
3. Loosen the screw and remove the brake drum.



Inspection

1. Measure the inside diameter of the brake drum.

Inside diameter		mm (in)
	Standard	Limit
2WD, 4WD	295 (11.614)	296.5 (11.673)

NOTE:

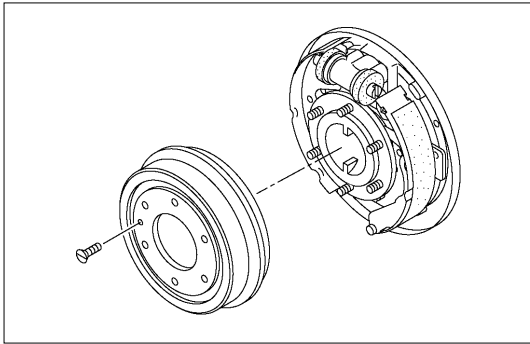
Use Isuzu genuine parts when replacing the brake drum.

2. Measure the wear of the lining.

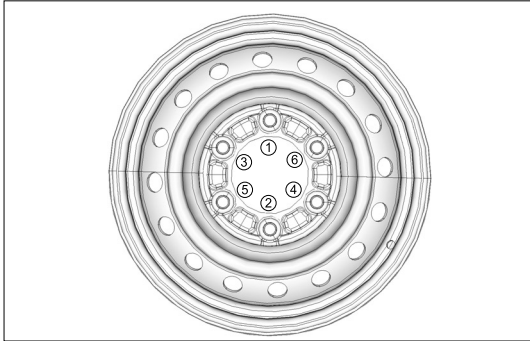
Thickness		mm (in)
	Standard (T)	Limit (t)
2WD, 4WD	5.0 (0.197)	1.0 (0.039)

NOTE:

Use Isuzu genuine parts when replacing the shoe.



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RTWC2DSH000401

Installation

1. Install the brake drum and attach the screw.
2. Turn the brake drum to confirm that there is no brake drag.

3. Install the wheel and tire.

Tighten wheel nuts in numerical order.

Torque	N·m (kg·m/lb·ft)
120 (12 / 87)	