



Technical Bulletin

TB5010

July 22, 2003

GM Passenger Car Rear End Noise

**2003-1999 Chevrolet 1500 Series Silverado, Tahoe,
and Avalanche
Cadillac Escalade and Escalade EXT
GMC 1500 Series Sierra and Yukon**

These applications may experience a distinct scraping noise from the rear end of the vehicle. This can be directly related to the parking brakes shoe rubbing against the inside of the rotor hat on the rear brake system.

General Motors offers a technical bulletin (02-05-26-002) to cover this issue.

See the attached document.

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Service Bulletin

File In Section: 05 - Brakes

Bulletin No.: 02-05-26-002

Date: October, 2002



TECHNICAL

Subject: Scraping Noise From Rear Of Vehicle (Replace Parking Brake Shoe Kit and Clean Drum In Hat Rotor)

Models: 2002-2003 Cadillac Escalade, Escalade EXT
1999-2003 Chevrolet Silverado 1500 Series Pickups
2000-2003 Chevrolet Tahoe 1500 Series Models
2002-2003 Chevrolet Avalanche 1500 Series Models
1999-2003 GMC Sierra 1500 Series Pickups
2000-2003 GMC Yukon 1500 Series Models

Condition

Some customers may comment on a scraping noise from the rear of the vehicle while driving. The noise may be intermittent.

Cause

Condition may due to the parking brake shoe contacting the drum in hat rotor without the parking brake being applied, causing premature wear on the shoe lining.

Correction

Replace the parking brake shoe and install a new designed spring clip retainer. Follow the service procedure below to correct this condition.

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle in the General Information sub-section of the Service Information (SI Document ID #639546).
2. Remove the tire and the wheel. Refer to Tire and Wheel Removal and Installation in the Tires and Wheels sub-section of the Service Information (SI Document ID #656965).
3. Relieve the tension on the park brake cables by loosening the nut at the equalizer.
4. Mark the relationship of the rotor to the hub.
5. Remove the brake caliper bracket mounting bolts.

Notice: Support the brake caliper with heavy mechanic's wire, or equivalent, whenever it is separated from it's mount and the hydraulic flexible brake hose is still connected. Failure to support the caliper in this manner will cause the flexible brake hose to bear the weight of the caliper, which may cause damage to the brake hose and in turn may cause a brake fluid leak.

6. Remove the brake caliper and brake caliper bracket as an assembly and support with heavy mechanic's wire or equivalent. DO NOT disconnect the hydraulic brake flexible hose from the caliper.
7. Remove the rotor retaining push nuts from the wheel studs (if applicable).

Notice: DO NOT use a hammer to remove the rotor from the hub; it may cause damage to the rotor.

Important: The rotor may not be easily removed from the hub due to a rust build up on the outside edge of the drum and hat portion of the rotor.

8. Remove the rotor from the hub. If the rotor cannot be removed from the hub by pulling on the rotor, use J 46277 rotor removal tool.

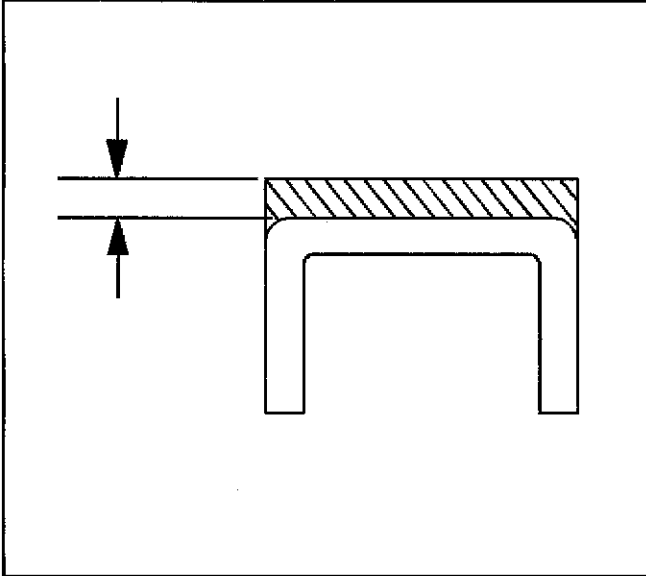
Notice: Place J 46277 between the rotor surfaces in the vent section of the rotor. DO NOT place J 46277 on the back side of the rotor surface, it may damage the rotor surface.

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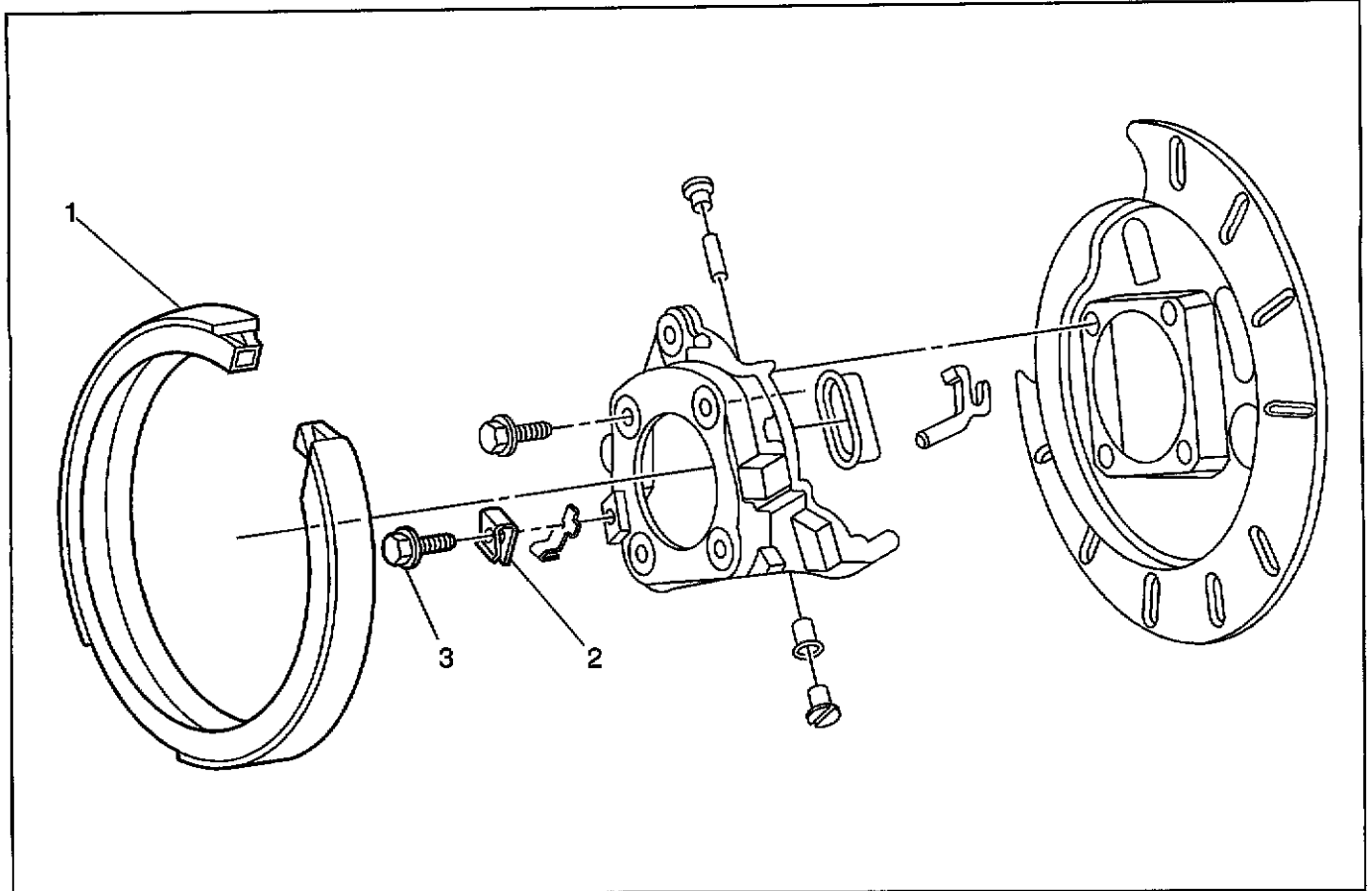
9. Using removal tool J 46277 on slide hammer J 6125B, remove the rotor by placing removal tool J 46277 in the vent section of the rotor at the twelve, three, six and nine o'clock positions, not necessarily in that order.
10. Clean the rust ridge from the drum portion of the rotor using a grinding stone and rotor resurfacing kit J 41013.
11. Remove the spring clip bolt (3) and retainer (2) and discard.

Important: Minimum thickness of the parking brake shoe lining in any given spot is 1.5 mm (0.06 in).

12. Measure the parking brake shoe thickness in multiple spots. Replace the parking brake shoe if the thickness is less than 1.5 mm (0.06 in). Continue with step 14.
13. If the parking brake shoe lining is greater than 1.5 mm (0.06 in), continue with step 19.

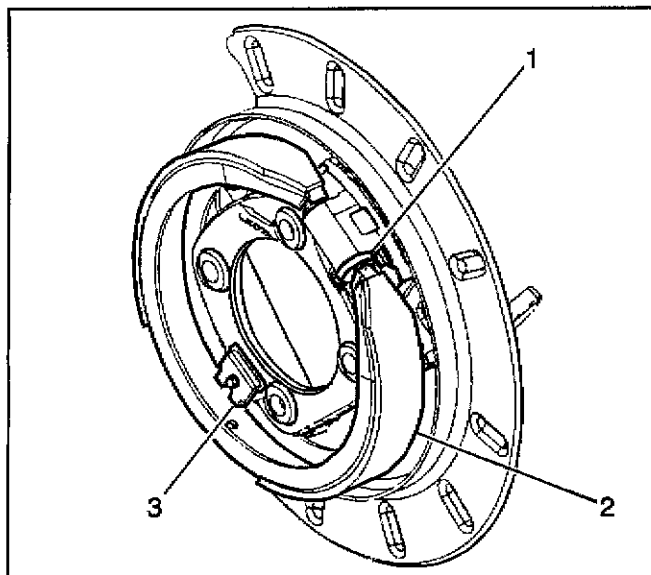


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14. Rotate the parking brake shoe (1) out from the bottom and pull it out of the adjuster. Discard the shoe.
15. Remove the park brake shoe assembly from the vehicle by placing one of the open ends of the shoe over the axle flange and rotate the shoe until it has cleared the flange.
16. Turn the adjustment screw (1) to the fully home position in the notched adjustment nut.
17. Install the new park brake shoe assembly (1) from the parking brake shoe kit, P/N 88982875, to the vehicle by placing one of the open ends of the shoe over the axle flange and rotating the shoe until it is behind the flange.
18. Slide the shoe into the adjuster and position the shoe to the backing plate. Install the retaining spring clip (2) and bolt (3) from the parking brake shoe kit, P/N 88982875. If using parking brake service kit 88982875, SKIP STEP 19.
19. Replace the retaining spring clip (2) and bolt (3) from the parking brake retaining spring clip kit, P/N 88982879.

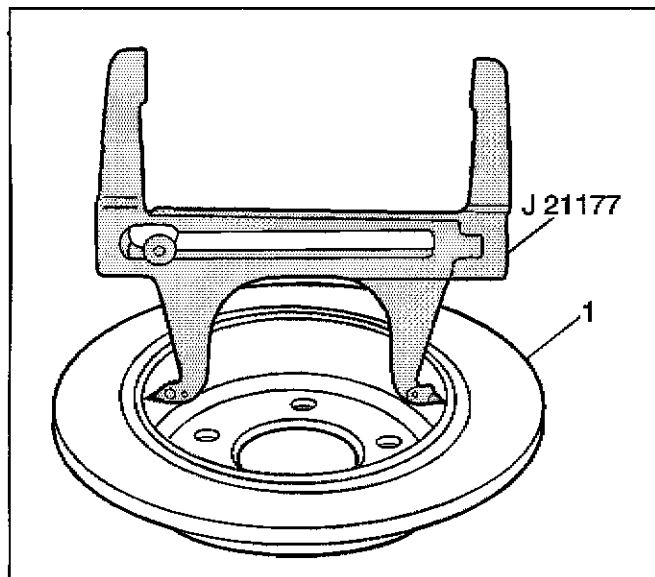


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16. Turn the adjustment screw (1) to the fully home position in the notched adjustment nut.

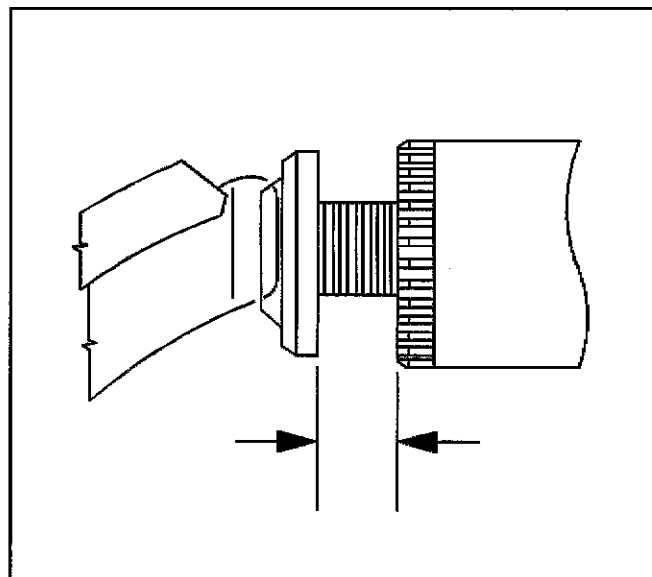
Tighten

Tighten the bolt (3) to 5 N·m (44 lb in).



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20. Set the J 21177-A so that it contacts the inside diameter of the rotor.

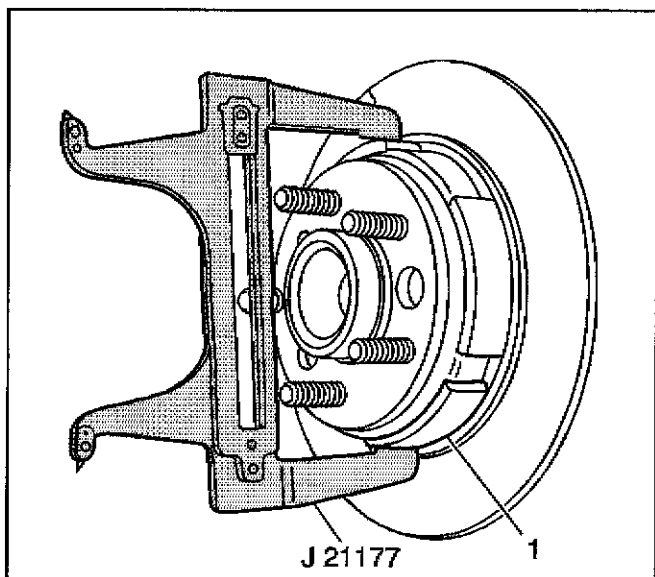


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Important:

- The parking brake adjustment screw threads should not exceed 5 mm (0.2 in) of exposed thread.
 - The clearance between the park brake shoe and the rotor is 0.6604 mm (0.026 in).
22. The parking brake adjustment screw threads should not exceed 5 mm (0.2 inch) of exposed thread.

Notice: Whenever the brake rotor has been separated from the wheel bearing flange, clean any rust or foreign material from the mating surface of the rotor and flange with the J 42450 hub cleaning kit. Failure to do this may result in increased lateral runout of the rotor and brake pulsation.



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21. Position the J 21177-A over the shoe and the lining at the widest point.

23. Use the J 42450-A to clean all rust and contaminants from the mating surface of the hub flange.
24. Use the J 41013 to clean all rust and contaminants from the inside diameter of the hat section of the brake rotor to prevent any foreign material from getting between the brake rotor and the hub flange.
25. Align the mark on the rotor with the mark on the hub and install the rotor by slowly turning the rotor while pushing the rotor towards the axle.
26. Install the caliper and the bracket as an assembly to the vehicle.

27. Perform the following procedure before installing the caliper bracket mounting bolts.
- Remove all traces of the original adhesive.
 - Clean the threads of the bolt with brake parts cleaner, P/N 12346139 (Canadian P/N 10953463), and allow to dry.
 - Apply threadlocker, GM P/N 12345493 (Canadian P/N 10953488), or Red LOCTITE™ #272, to the threads of the bolt.

Notice: Use the correct fastener in the correct location. Replacement fasteners must be the correct part number for that application. Fasteners requiring replacement or fasteners requiring the use of thread locking compound or sealant are identified in the service procedure. Do not use paints, lubricants, or corrosion inhibitors on fasteners or fastener joint surfaces unless specified. These coatings affect fastener torque and joint clamping force and may damage the fastener. Use the correct tightening sequence and specifications when installing fasteners in order to avoid damage to parts and systems.

28. Install the caliper bracket mounting bolts.

Tighten

Tighten the brake caliper bracket mounting bolts to 175 N·m (129 lb ft).

29. Repeat this procedure on the other side of the vehicle.
30. Tighten the nut to the intermediate cable at the equalizer.
- Tighten**
- Tighten the nut to 3.5 N·m (31 lb in).
31. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation in the Tires and Wheels sub-section of the Service Information (SI Document ID #656965).
32. Lower the vehicle.
33. Verify that the self adjuster lock-out pin has been removed.
34. Fully apply and release the park brake pedal three times.

Parts Information

Part Number	Description
88982875	Parking Brake Shoe Kit
88982879	Parking Brake Retainer Spring Clip Kit
12346139 (Canadian P/N 10953463)	Brake Parts Cleaner
12345493 (Canadian P/N 10953488)	Red LOCTITE™ #272

Parts are currently available from GMSPO.

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
H2956	Parking Brake Shoe Retaining Clip - Replace	0.9 hr
Add	To sand or grind DIH (one side)	0.2 hr
Add	To sand or grind DIH (both sides)	0.3 hr
Add	To sand brake shoes (one or both sides)	0.1 hr
Add	To replace right parking brake shoes	0.1 hr
Add	To replace left parking brake shoes	0.1 hr

