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2001 Chevrolet Chevy K Silverado - 4WD | Sierra, Silverado, Suburban, Tahoe, Yukon (VIN C/K) Service Manual | Document ID: 719425

# Front Brake Rotor Replacement

#### **Removal Procedure**

#### **Tools Required**

- J 41013 Rotor Resurfacing Kit
- J 42450-A Wheel Hub Resurfacing Kit

**Notice:** Any new rotor must have the protective coating removed from the friction surfaces before being placed in service. Remove the protective coating using denatured alcohol or an equivalent brake cleaner, and wipe the surface clean with clean cloths. Do not use gasoline, kerosene, or other oil base solvents which may leave an oily residue. This residue is damaging to the brake lining and is flammable.

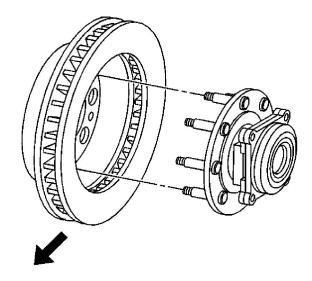
- 1. Raise and suitably support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> in General Information.
- 2. Remove the tire and wheel assembly. Refer to <u>Tire and Wheel Removal and Installation</u> in Tires and Wheels.
- 3. Remove the front wheel hub extension (dual wheel vehicles only).
  - Insert a drift or large screwdriver through the brake caliper into one of the brake rotor vanes in order to prevent the rotor from turning.
  - Mark the relationship of the front wheel hub extension to the hub.
  - · Remove the front wheel hub extension bolts.
  - Remove the front wheel hub extension from the vehicle. It may be necessary to tap around the perimeter of the hub extension with a rubber mallet to loosen it from the hub.
- 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 wire, or equivalent, whenever it is separated from its 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).
- 8. It may be necessary to strike the end of the hub or the rotor with a deadblow hammer to separate the rotor from the hub.

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- 9. Remove the rotor.
- 10. If the rotor is difficult to remove due to corrosion in the hub area use the following procedure to remove the rotor (25 and 35 series only).
  - Clean all the surface areas and the threaded holes of contamination.
  - · Generously apply penetrating oil or the equivalent to the hub/rotor area.
  - Insert (2) M10 x 1.5 bolts (jack screws) into the threaded holes of the rotor.
  - Tighten both bolts evenly to force the rotor from the hub.

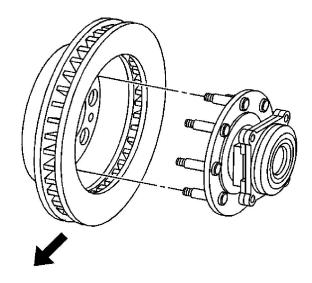
#### **Installation Procedure**

**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.

- 1. Use the <u>J 42450-A</u> to clean all rust and contaminants from the mating surface of the hub flange.
- 2. Use the <u>J 41013</u> 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.

**Important:** If the rotor was removed using the jack screw method you must ensure that the hub flange is free of nicks or marks caused by this procedure. Remove all raised nicks or marks before installing the rotor.

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- 3. Align the rotor to its original position on the hub (if applicable) and install the rotor.
- 4. Install the caliper and caliper bracket assembly.
- 5. Perform the following procedure before installing the brake caliper bracket mounting bolts.
  - Remove all traces of the original adhesive patch.
  - Clean the threads of the bolt with brake parts cleaner or the equivalent and allow to dry.
  - Apply Threadlocker GM P/N 12345493 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.

6. Install the caliper bracket mounting bolts.

### **Tighten**

- Tighten the brake caliper bracket mounting bolts to 175 N·m (121 lb ft) (15 Series).
- Tighten the brake caliper bracket mounting bolts to 300 N·m (221 lb ft) (25 and 35 Series).
- 7. Install the front wheel hub extension (dual wheel vehicles only).
  - Insert a drift or large screwdriver through the brake caliper into one of the brake rotor vanes in order to prevent the rotor from turning.
  - Align and install the front wheel hub extension to the original position on the hub.

**Important:** Follow the same tightening sequence for the front wheel hub extension that is used on an eight lug wheel. Refer to <u>Tire and Wheel Removal and Installation</u> in Tires and Wheels.

Install the front wheel hub extension nuts.

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## **Tighten**

Tighten the front wheel hub extension nuts to 130 N⋅m (96 lb ft).

8. Install the tire and wheel assembly. Refer to <u>Tire and Wheel Removal and Installation</u> in Tires and Wheels.

- 9. Lower the vehicle.
- 10. With the engine OFF, gradually apply the brake pedal to approximately 2/3 of it's travel distance.
- 11. Slowly release the brake pedal.
- 12. Wait 15 seconds, then repeat steps 10-11 until a firm pedal is obtained. This will properly seat the brake caliper pistons and brake pads.
- 13. Fill the master cylinder reservoir to the proper level with clean brake fluid. Refer to <u>Master Cylinder Reservoir Filling</u> in Hydraulic Brakes.