



**BRAKES**

# ENGINEERED SOLUTIONS

## Bulletin BES 04-17

**Subject:** Slow speed brake noise (Fix: caliper piston boot lubricant)

**Vehicle Involved:** 1999-2003 Chevrolet Malibu  
2004 Malibu Classic  
1999-2004 Oldsmobile Alero  
1999-2004 Pontiac Grand Am

**Condition:** A slow speed brake noise or creak may be caused by the caliper piston dust boot to caliper piston contact area being dry.

**Repair Procedure:** To repair the condition, GM has available a special lubrication part number 89022161. Lubricate the entire circumference of the dust seal at the caliper piston boot groove utilizing the following procedure.

- Do not replace the caliper
- Remove the wheel and re-install a couple of lug nuts. This will help to reduce the amount of debris that can fall between the rotor and hub, inducing lateral run-out.
- Do not push the caliper piston in at this time. Remove the lower caliper bolt and swing the caliper upward. (Figure 1)
- Clean the caliper piston boot and boot to piston contact area. Use an approved GM brake cleaner.
- With compressed air, dry the boot to piston area.
- From the topside of the piston area, inject the GM lubricant between the boot and piston...inward of the piston boot groove. Wait two minutes; allow the fluid to work its way around the seal. (Figure 2)
- Now push the caliper piston slowly into the seal. This ensures that the piston and seal surface are completely lubricated.
- Remove excessive fluid, and re-assemble the caliper to the vehicle
- Slowly pump the brake pedal to re-adjust the caliper piston to brake pad. Install and torque the wheels to specification. Test Drive.

Avoid comebacks. Be sure you have removed excessive fluid, use no more than one bottle of lubricant per side, excessive fluid, may give the caliper assembly the appearance of a hydraulic caliper leak.

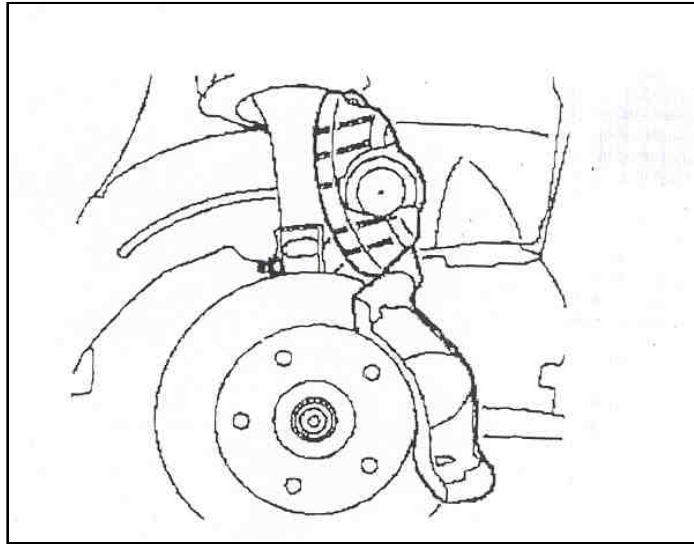


Figure 1.

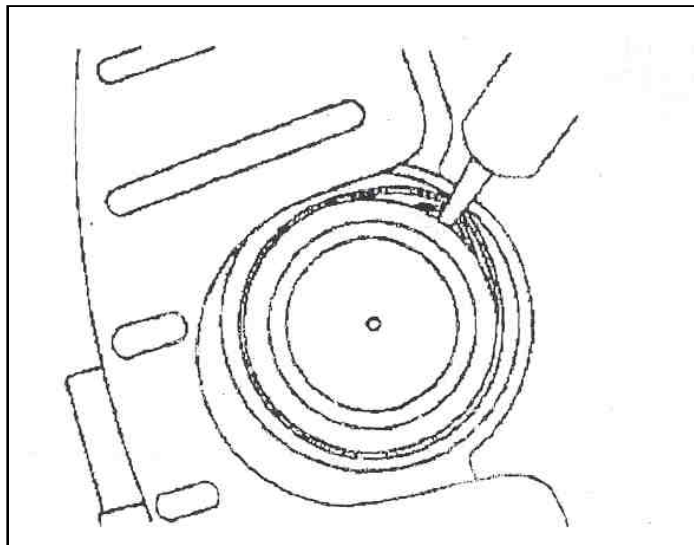


Figure 2.