



BRAKES

ENGINEERED SOLUTIONS

Bulletin BES 04-15

Subject: Accelerated pad wear, brake induced pull, brake pulsation.

Vehicle Involved: 1997-2002 Ford Expedition
1999-2002 Ford F150
1997-1999 Ford F200/250
1998-2002 Lincoln Navigator

Condition: Build-up of rust and debris underneath caliper mounting pin bushings.

Repair Procedure: The accumulation of rust build-up within the caliper mounting pin bushings reduces the diameter of the caliper-bushing bore. The build-up of rust and debris “squeezes” the rubber bushing around the caliper slide bushing. The floating caliper becomes fixed or very resistant to movement. Accelerated outer pad wear is usually evident. Similar conditions may also result from the use of petroleum-based lubrication applied to the bushings during brake service. Petroleum lubricants eventually swell the rubber bushings, restricting the caliper movement.

While performing disc brake service, begin by removing the caliper pins, steel bushings, and rubber bushings. Hone, sand or wire brush any rust and debris out of the caliper bushing bores. See illustration. Replace the bushings and hardware with NAPA part number 83188. Use NAPA Sil-Glide Brake Lubricant part number 751-1351. Lightly coat the caliper-bushing bore, and apply a light coat of silicone to the rubber bushings. When necessary replace the caliper pin and steel bushings with NAPA part number 83187. Lubricate the steel bushing as well, and reassemble. Please refer to bulletin 03-08 for additional brake service lubrication points.

Caliper rubber components are subjected to tremendous temperature variations. Internal rubber parts of the caliper (the square cut seal) become brittle and weak. External rubber components that are ripped, broken, swollen, drastically reduce caliper function.

The goal of brake service is to restore the vehicle to like new performance. “Pad Slapping” a vehicle is a common industry practice that results in customer complaints and comebacks. Eliminate any doubt regarding caliper integrity, replace caliper assemblies with professionally remanufactured calipers from NAPA.

