



# ENGINEERED SOLUTIONS

## Bulletin BES 04-11

- Subject:** Jeep Original Equipment Caliper and Friction Upgrade
- Vehicle Involved:** 1999-2002 Grand Cherokee
- Condition:** Brake Pedal Pulsation, under light to moderate pedal application may be caused by excessive thickness variation of the brake rotor surface. Determine if the front brake pulsation is caused by excessive thickness variation of either front rotor. If either front rotor is at fault, perform the following repair procedure to both sides of the vehicle.
- Repair Procedure:** Jeep recommends replacing the original equipment caliper (Teves) with a revised, new style Akebono caliper. The original brake rotor dimensionally remains the same, however Jeep recommends replacing the front rotors. NAPA brake rotor part number 86793 may be utilized.
- Vehicles that have received the updated Akebono caliper may utilize NAPA part number AE 7846 M pad set.
- To prevent excessive lateral run-out, thoroughly clean the surface of the wheel hub/bearing assembly where it mates to the brake rotor. Using a dial indicator match mount the new NAPA rotor to the hub, until the minimum lateral run-out is obtained. The rotor, hub/bearing assembly combined should not exceed a revised total indicated run-out (TIR) specification of 0.025mm (0.001 in.) Refer to Bulletin 03-02 to review this critical procedure. In most cases, if necessary TIR can be reduced with lateral run-out correction plates. Refer to Bulletin 03-01 for details.