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Affected Models: Chief 2002/03

Technical Bulletin

Brembo Brake Caliper Shimming

Important

Read this service bulletin carefully and thoroughly before commencing work. If you do not understand the instructions or have questions, see your supervisor immediately. If you are unsure of any of the procedures, please contact your Indian Field Service Manager (FSM).

Brake Caliper Shimming

This technical bulletin describes the method for checking and adjusting the air gap between the brake rotor and caliper. This bulletin only applies to models with Brembo brake calipers.

Materials Required

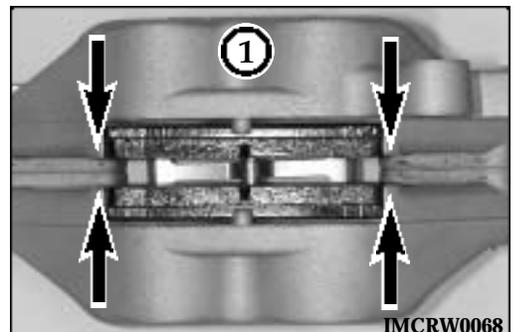
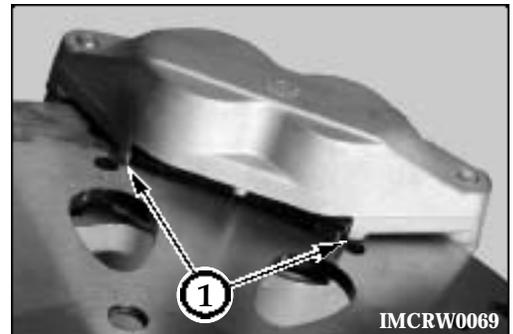
97-010 Shim, stainless steel, 0.396" x 812" x 0.010" thick
97-011 Shim, stainless steel, 0.396" x 812" x 0.030" thick
97-012 Shim, stainless steel, 0.396" x 812" x 0.060" thick
Blue Loctite 242

Tools Required

Feeler Gauge
Torque Wrench
Ratchet Driver
6mm Allen socket

Inspection

- 1 With a long feeler gauge, check the caliper to rotor clearance at the 4 measuring points (2 each side). There should be at least 0.015" clearance between the brake rotor and the caliper.
- 2 If the clearance is less than 0.015" on the inside measuring points (inner surface of the rotor, the wheel side), shim between the caliper and its bracket until the correct clearance is achieved.



Brake Shim Part Numbers:

97-010 Shim, 0.396"ID x 812"OD x 0.010" thick
97-011 Shim, 0.396"ID x 812"OD x 0.030" thick
97-012 Shim, 0.396"ID x 812"OD x 0.060" thick

- If the clearance is less than 0.015" on the outside measuring points (the outer surface of the rotor "A", not the wheel side), check to see if the caliper is already shimmed and re-adjust.

WARNING: If the caliper is not already shimmed and the clearance cannot be increased to 0.015" there is a misalignment; contact your Field Service Manager (FSM) immediately

- If the clearance between the two measuring points on the same side of the brake rotor differ, you may shim up to 0.010" difference to correct the mis-alignment. Any further shimming will compromise the clamping torque of the two surfaces.

WARNING: A mis-aligned caliper might be evidence of a more serious problem and should be investigated for a possible cause; contact your Field Service Manager (FSM) immediately.

- When the correct clearance is achieved, apply Blue Loctite 242 to the caliper mounting screws and tighten to 23-30 foot-pounds

- Thoroughly test the brakes before carrying out a full road test.

