

Pad and Plate Replacement — Delco-Moraine Disc Brakes

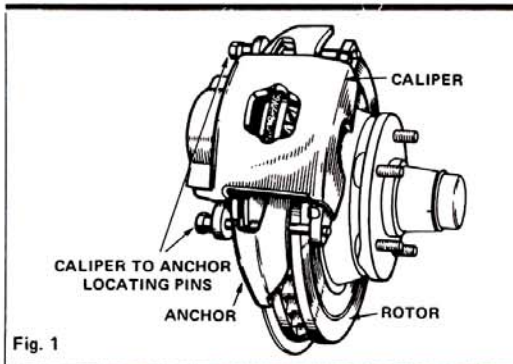


Fig. 1

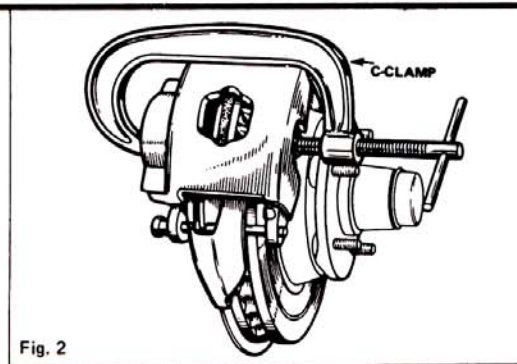


Fig. 2

REMOVAL

NOTE: Whenever new pads and plates are installed, a disc brake hardware kit also should be installed.

1. Siphon or dip part of brake fluid out of front reservoir. This is to prevent overflow when fluid returns from the caliper cylinders. Discard the fluid removed.
2. Raise the car, and remove tire and wheel.
3. Position a 7-inch C-Clamp on the caliper as shown in Fig. 2. Tighten clamp until caliper moves out far enough to bottom caliper piston in cylinder bore. Then remove C-Clamp.
4. Remove the two caliper to anchor locating pins (Fig. 1). Do not disconnect hydraulic hose from caliper.
5. Slide caliper off rotor. Be careful to avoid placing strain on brake hose.
6. Remove outer pad and plate from caliper. Then remove inner pad and plate and pad support spring as shown in Fig. 3.

NOTE: A bullet-nosed, sleeve remover and installer tool may be used to remove the sleeves from the inboard ears of the caliper.

7. Remove sleeves from inboard ears of caliper as shown in Fig. 4.
8. Remove O-Rings from inside caliper ears.

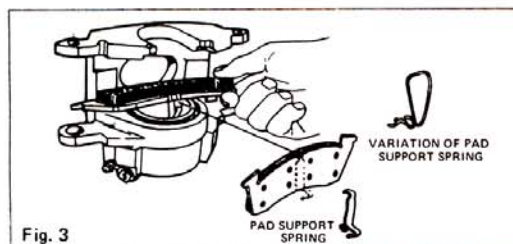


Fig. 3

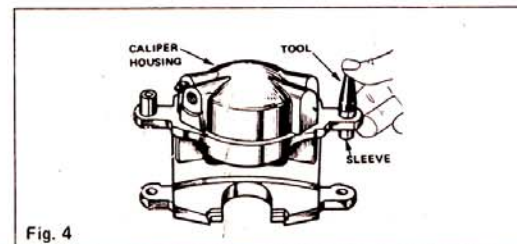


Fig. 4

CLEANING AND INSPECTION

Clean the inside of the caliper and the caliper ears. Inspect the area around the boot for fluid leakage, and check the boot for damage. If leakage is present or the boot is damaged, overhaul the caliper.

Clean the caliper mounting bolts and the grooves inside the caliper ears. Do NOT use an abrasive on the bolts. (The bolts have a protective plating.)

CAUTION: Do NOT use compressed air to clean inside the caliper, since this may unseat the dust boot.

Check the machine areas at the end of the caliper and on the anchor where the caliper slides in the anchor. Be sure that all rust and deposits are removed from these areas.

INSTALLATION

1. Apply silicone lubricant to the O-Rings and to grooves inside each caliper ear. Assemble an O-Ring in each groove.
2. Apply silicone lubricant to the inside and outside of the sleeves and to the outside of the sleeve installer tool, if used. Push the sleeves in the inboard ears of the caliper as shown in Fig. 6 until the end of the sleeves toward the pads and plates is flush with the machined surface of the caliper.

3. Assemble pad support spring on inner plate as shown in Fig. 3. Then assemble pad and plate in caliper. Press down on pad to set pad support spring inside piston.

4. Position outer pad and plate in caliper. The ear on each end of the plate fits over a caliper ear.

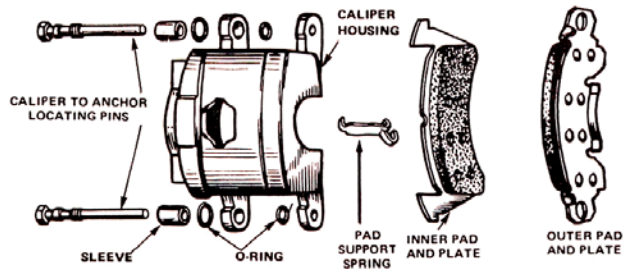


Fig. 5

5. Place caliper on rotor with outer pad resting on rotor. Be sure that flange on the plate is tightly against caliper. Use a metal bar across the caliper cutout, and install a C-Clamp to secure the outer pad and plate to the caliper as shown in Fig. 7. Do not use excessive force as this may deform the lining.

6. Use vise-grip type pliers to clinch ear on each end of the plate to the caliper. Position pliers 1/8" to 1/4" from outer edge of plate during clinching operation.

7. After clinching, measure clearance between flat side of each ear and the caliper, and between narrow side of each ear and the caliper. If either clearance exceeds .005", re-adjust pliers and repeat clinching procedure.

8. Remove C-Clamp, and position caliper on rotor. Be sure that brake hose is not twisted.

9. Apply silicone lubricant to end of caliper to anchor locating pins (approximately 1"). Insert pins through sleeves in inboard ears of caliper and through anchor. Be sure that pins, pass under retaining ears on inner pad and plate.

10. Press pins on through holes in ears of outer pad and plate (if outer pad and plate has a hole in each ear) and into holes in outboard ears of caliper. Start threaded portion of pins into anchor. Tighten both locating pins to 25-35 ft. lbs.

11. Install wheel and tire.

NOTE: Repeat above procedures to install new pads and plates in other caliper.

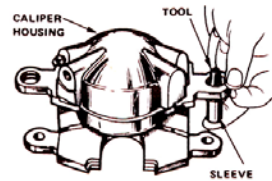


Fig. 6

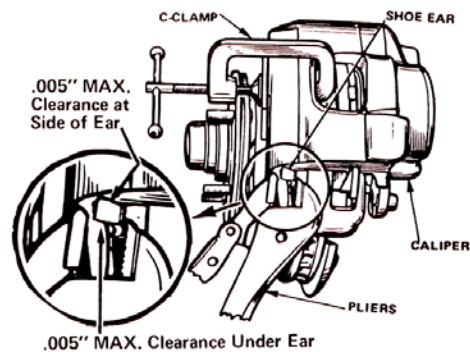


Fig. 7

FINAL CHECKS

After the new pads and plates have been installed on both front wheels, check the master cylinder fluid level. Fill the reservoirs, if necessary.

Depress the brake pedal firmly several times to seat the new pads on the rotor.

CAUTION: Do not move vehicle until a firm brake pedal is obtained.