

CHRYSLER CORP. DUAL PISTON — CAST IRON

Dodge, Plymouth

DESCRIPTION

This tandem dual piston master cylinder is the venting type with reservoirs in a single casting and one outlet for each reservoir. Rear piston is operated by push rod connected to brake pedal. Front piston is operated by rear piston.

REMOVAL & INSTALLATION

MASTER CYLINDER

Removal

Disconnect front and rear hydraulic brake lines at master cylinder. Remove bolt attaching push rod to pedal linkage. Remove master cylinder attaching bolts and lift master cylinder from vehicle.

Installation

Position master cylinder on vehicle and install cylinder attaching bolts. Tighten to 200 INCH lbs. (22.7 N.m). Connect front and rear hydraulic brake lines and connect push rod to brake pedal linkage. Fill reservoir with clean brake fluid and bleed entire brake system. See *Hydraulic Brake Bleeding in this Section*.

OVERHAUL

MASTER CYLINDER

Disassembly

1) Clean outside of cylinder and remove cover.

Drain brake fluid. Use screw extractor to remove tube

seats. Remove snap ring from open end of cylinder and slide washer out.

2) Carefully remove primary piston assembly, then slide secondary piston from cylinder. Wash all parts in clean solvent and blow dry with compressed air.

Inspection

1) Inspect cylinder bore for scoring or pitting. Light scratches or minor corrosion can usually be removed with crocus cloth. Deep scratches or scoring may be honed, provided bore diameter is not increased more than .002" (.05 mm). If limit is exceeded, master cylinder must be replaced.

2) Check pistons for scoring, scratches and corrosion. Pistons must be replaced if any of these conditions exist. ALWAYS replace all rubber parts when overhauling master cylinder.

Reassembly

1) Dip all components in brake fluid before reassembly. Carefully slide secondary piston assembly into cylinder bore. Slide primary piston into bore, hold washer in position and install snap ring. Install tube seats. Clamp master cylinder in a vise, being careful not to damage housing.

2) Bleed cylinder as follows: Attach bleeding tubes (C-4029) to outlet ports of cylinder, with ends of tubes in master cylinder reservoirs. Fill reservoirs with clean brake fluid and depress push rod slowly. Allow pistons to return to normal position under spring pressure. Repeat procedure until all air bubbles are expelled. Remove bleeding tubes. Install cylinder cover and diaphragm. Remove cylinder from vise.

Fig. 1: Exploded View of Cast Iron Master Cylinder

