

Master Cylinders

DELCO QUICK TAKE-UP

Chevrolet, GMC, Jeep

DESCRIPTION

The Delco Quick Take-Up master cylinder is a 2 piece unit with cast master cylinder body and plastic fluid reservoir. It is designed for use with systems utilizing low drag calipers.

This master cylinder includes a quick take-up valve. This valve delivers a large volume of fluid, at low pressure, upon initial application of brakes. The fluid quickly displaces retracted calipers, placing brake linings in contact with brake rotors and drums.

ADJUSTMENT

System is adjusted at power booster. See *Power Brake Units* in this section.

REMOVAL & INSTALLATION

MASTER CYLINDER

Removal

Depress and release brake pedal several times, with engine off, to release any vacuum in power unit. Clean dirt and grease from brake line connections. Disconnect brake lines from master cylinder. Plug open end of lines. Remove 2 master cylinder-to-power unit retaining nuts. Remove master cylinder.

Installation

Reverse removal procedures to install. Bleed hydraulic system. See *Hydraulic Brake Bleeding* in this section.

OVERHAUL

MASTER CYLINDER

Disassembly

1) Remove reservoir cover and diaphragm. Discard remaining brake fluid in reservoir. Push in on primary piston and remove snap ring. Apply compressed air at forward brake line hole while plugging rear hole. Pistons will be forced out at open end of master cylinder.

2) Remove spring retainer and seals from secondary piston. Discard seals. Clamp mounting ear of master cylinder in vise and pry off reservoir. DO NOT attempt to remove take-up valve from master cylinder. It is not a serviceable component. Remove reservoir grommets and discard.

Inspection

Inspect cylinder bore for scoring or corrosion. If signs of corrosion are evident, master cylinder MUST be replaced. No abrasives, of any kind, are to be used on cylinder bore.

Reassembly

1) Lubricate new reservoir grommets with silicone brake lube and press into master cylinder. Make sure grommets are properly seated. Lay reservoir on flat, hard surface. Rock master cylinder body onto reservoir until completely seated.

2) Lubricate new piston seals and install on secondary piston, with lip of seals towards ends of piston.

Install spring retainer. Install secondary piston spring and secondary piston assembly in master cylinder.

3) Lubricate primary piston seals with clean brake fluid. Install primary piston in master cylinder. Press in piston and install snap ring. Fit diaphragm in reservoir cover and install cover.

Fig. 1: Exploded View of Quick Take-Up Master Cylinder

