

## CHRYSLER CORP. DUAL CYLINDER DUO-SERVO

**DODGE**  
M500 & M600 (Rear Only)

### DESCRIPTION

Dual cylinder, floating shoe, rear brake assembly consists of a support plate, two brake shoes, return springs, two adjusting screws and two wheel cylinders. Shoes are anchored at either toe or heel, depending on direction of drum rotation, thus they are always forward acting. Double piston wheel cylinders are equally effective in both forward and reverse direction. This brake system uses a dual hydraulic system and rear wheel cylinders are interconnected.

### ADJUSTMENT & SERVICING

#### BRAKE SHOE ADJUSTMENT

With brake drums cool and vehicle raised so that wheels do not contact floor, fill master cylinder to  $\frac{1}{4}$ " below filler cap. Adjust brake pedal until  $\frac{1}{8}$ " free play, measured at pedal, is obtained. Bleed brake system if necessary. Remove brake adjustment slot covers. Using a suitable tool, rotate star wheel until brake shoe drags on brake drum. Press brake pedal to recenter shoes. Rotate star wheel again until brake shoe drags on brake drum. Back off star wheel until shoe just stops dragging. Adjust all remaining brake shoes using same procedure.

#### BLEEDING SYSTEM

See *Hydraulic Brake Bleeding* in this Section.

#### PARKING BRAKE ADJUSTMENT

See *Chrysler Corp. Single Anchor Parking Brake Adjustment* in this Section.

### REMOVAL & INSTALLATION

#### BRAKE SHOES

**Removal & Installation** — Remove wheels and brake drums and install wheel cylinder clamps to retain pistons in cylinders. Remove brake shoe return springs, shoe hold down wires or cotter pins and nuts, and remove shoes from support plate. Disassemble adjuster assembly. To install, reverse removal procedure, making sure all contact points of support plate are properly lubricated, and there is .025" clearance between center shoe edge and rim of shoe.

#### WHEEL CYLINDERS

**Removal & Installation** — Remove wheel, brake drum, and brake shoes. Remove cylinder connecting links, and disconnect hydraulic brake lines from cylinders. **NOTE** — *Mark tubing ports to avoid error in assembly.* Remove brake cylinder retaining bolts and remove cylinders from support. To install, reverse removal procedure, making sure long end of wheel cylinder faces adjustment slot.

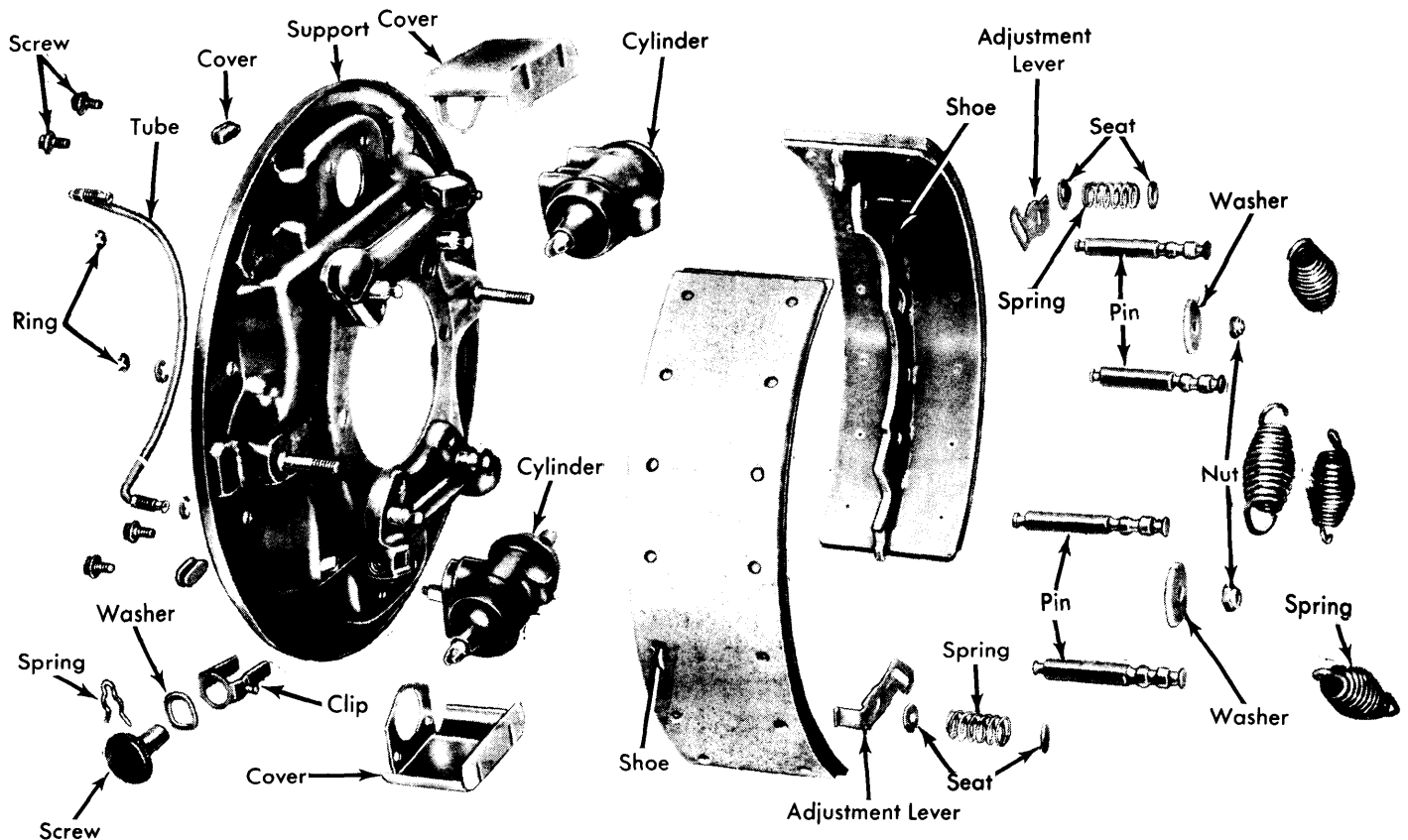


Fig. 1 Exploded View of Dual Cylinder Floating Shoe Brake Assembly

# Brake Systems

## CHRYSLER CORP. DUAL CYLINDER DUO-SERVO (Cont.)

### OVERHAUL

#### WHEEL CYLINDER

**Disassembly** — With wheel cylinder removed from vehicle, remove rubber boots from ends of cylinder. Remove piston return spring, cylinder cups, and pistons from cylinder. Remove bleeder screw and inspect cylinder bore for damage.

**Reassembly** — If bore of cylinder is pitted or scratched, hone or replace as necessary. Soak all parts in suitable brake fluid or assembly lubricant and reverse disassembly procedure. Clamp brake cylinder pistons against ends of cylinder.

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Hydraulic Brake Hose.....	25
Wheel Cylinder Mounting Bolts.....	15
Application	Inch Lbs.
Hydraulic Brake Tubing.....	95
Bleeder Screw.....	95

### BRAKE SYSTEM SPECIFICATIONS

Application	Drum Diam.	Wheel Cylinder Diameter		Master Cylinder Diameter
		Front	Rear	
M500 & M600	15"	.....	1 3/8 "	1 1/4 "