

Brake Systems

CHRYSLER CORP. DUAL CYLINDER DUO-SERVO

Dodge
M500 & M600 (Rear Only)

BLEEDING SYSTEM

See Hydraulic Brake Bleeding in this Section.

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.

PARKING BRAKE ADJUSTMENT

NOTE — This adjustment procedure is for the transmission mounted type parking brake.

- 1) Disconnect propeller shaft at parking brake flange. Remove adjusting screw cover plate.
- 2) Loosen brake cable clamping bolt and back off cable adjusting nut.
- 3) Turn adjusting nut until drum slightly drags on parking brake shoes.
- 4) Now back adjusting nut off at least one full turn.

NOTE — Make sure both raised shoulders on adjusting nut are seated in grooves on adjusting sleeve.

- 5) The adjusting nut should be positioned against housing so that there is at least .050" clearance between operating lever and brake shoe cable.

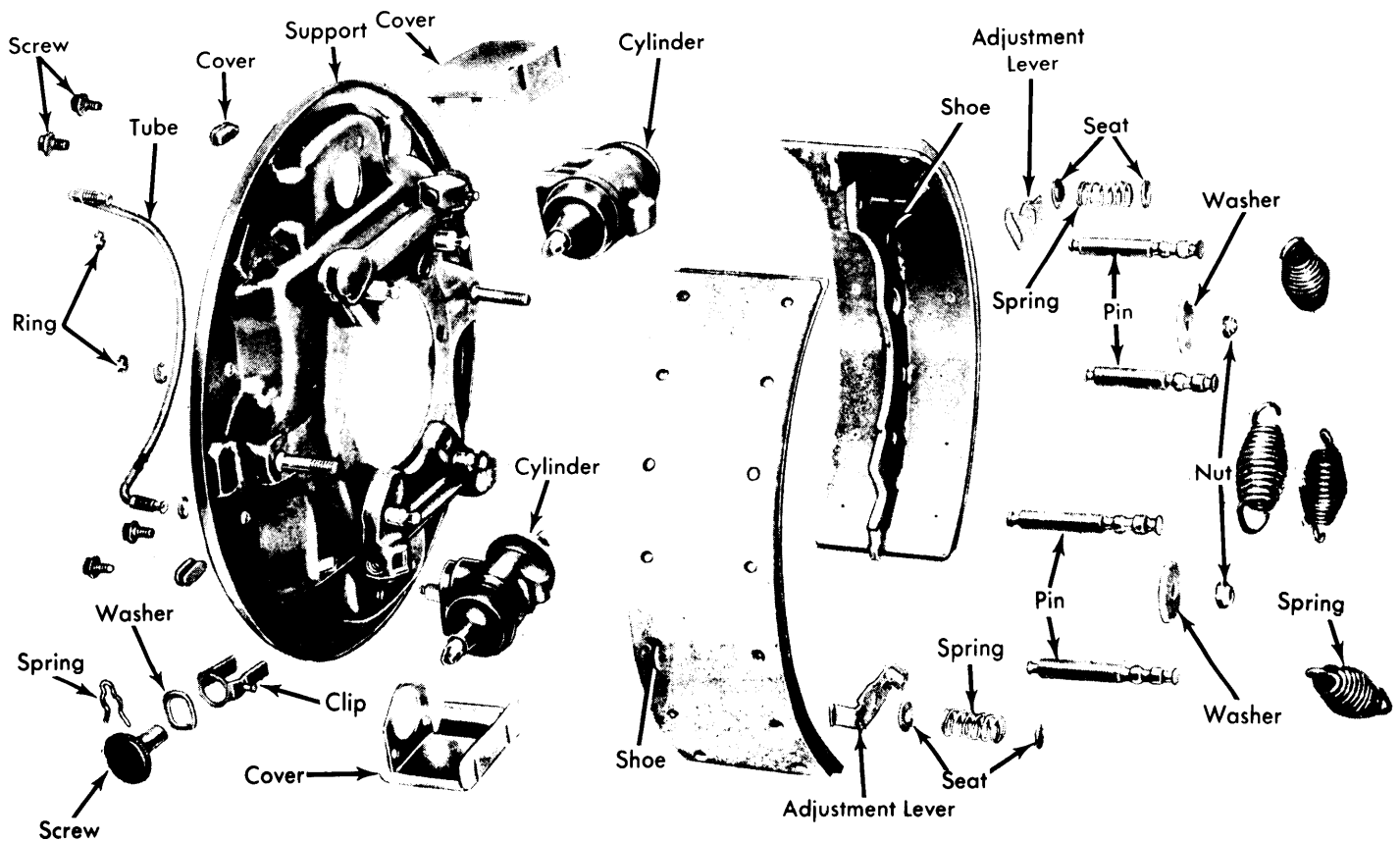


Fig. 1 Exploded View of Dual Cylinder Floating Brake Shoe Assembly

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

6) Tighten cable adjusting nut against housing. Check parking brake lever travel.

7) Install adjusting screw cover plate and propeller shaft. Check parking brake operation.

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.

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	15"	⓪	1.375"	1.31"
M600	15"	⓪	1.500"	1.31"

⓪ — Front disc brakes are standard equipment.