GENERAL MOTORS PIN & SLOT AUTOMATIC ADJUSTER

Chevette

DESCRIPTION

Brakes are hydraulic dual piston, single anchor, expanding shoe type brakes. Brake shoe anchor pins are fixed in backing plate and require no adjustment. Automatic adjusting mechanism consists of a slot in each brake shoe through which pin adjusting levers protrude.

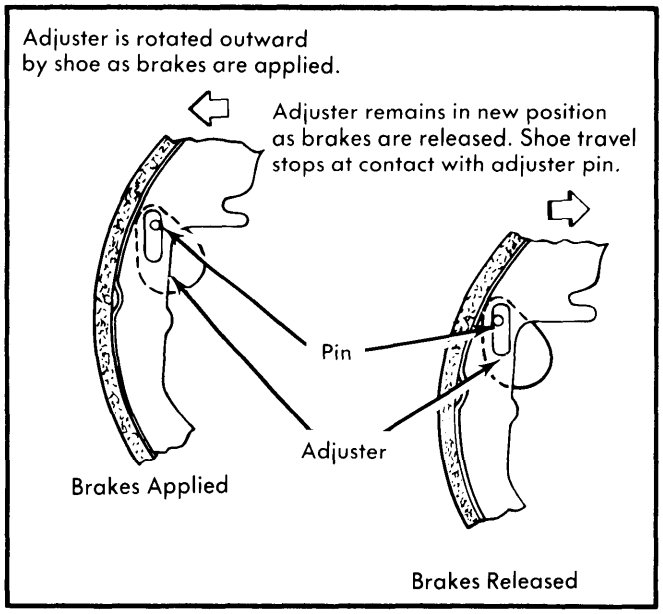

Fig. 1 Brake Shoe Adjusting Pin

OPERATION

As sufficient clearance between brake shoe and drum accumulates, the inboard side of brake shoe slot will contact adjuster pin and rotate it toward brake drum. As the brake shoe slot is wider than adjuster pin diameter, when brakes are released the shoe will retract until outboard side of slot rests against adjuster pin. Because the slot is wider than the pin diameter, brake shoe is allowed a small amount of clearance between lining and drum. When brake shoe clearance increases enough to again rotate adjuster pin, it will again rotate and automatically adjust brakes.

ADJUSTMENT

BRAKE SHOE ADJUSTMENT

Adjustment should be required only after shoe relining or replacement. Pump brake several times until a firm pedal is obtained. Adjustment will occur any time brakes are applied.

PARKING BRAKE ADJUSTMENT

Raise vehicle and apply parking brake one notch from fully released position. Tighten equalizer nut until a light drag is felt when rear wheels are rotated forward. Fully release parking brake and rotate rear wheels. No drag should be present. **Lower** vehicle to floor.

SERVICING

SHOE & LINING REPLACEMENT

NOTE – *Brake shoes should be replaced when any part of brake lining is worn to a thickness of 1/32".*

Removal – 1) Raise vehicle and remove rear wheels. Remove brake drum. NOTE – *It may be necessary to back-off automatic adjusters if brake drums are severly worn. Rotate both adjuster nuts toward axle housing to release brake shoes (located on rear side of backing plate).* Loosen equalizer nut to release all tension on parking brake cable. Disconnect parking brake cable from parking brake lever.

2) Using a pair of pliers, remove brake return spring and shoe hold-down springs. Spread brake shoes apart at wheel cylinder end and remove shoes, parking brake strut and shoe retaining spring as an assembly. Remove parking brake lever from brake shoe.

Installation – 1) Lightly lubricate parking brake lever pivot and install lever to trailing brake shoe. Connect brake shoes together with shoe retaining spring. Place shoe assembly onto backing plate and attach leading shoe (short lining faces forward) with hold-down spring and cup retainer. NOTE – *Make sure adjuster pin is located through slot in shoe web.*

2) Place strut in position and attach rear shoe with hold-down spring and cup retainer. NOTE – *Make sure adjuster pin is located through slot in shoe web.* With upper ends of shoes resting on wheel cylinder pistons and parking brake strut in position, install brake shoe return spring. Connect parking brake cable to lever. Install brake drum and wheel. Adjust brake shoe clearance by pumping brake pedal several times until pedal is firm.

BLEEDING SYSTEM

See Hydraulic Brake Bleeding in this section.

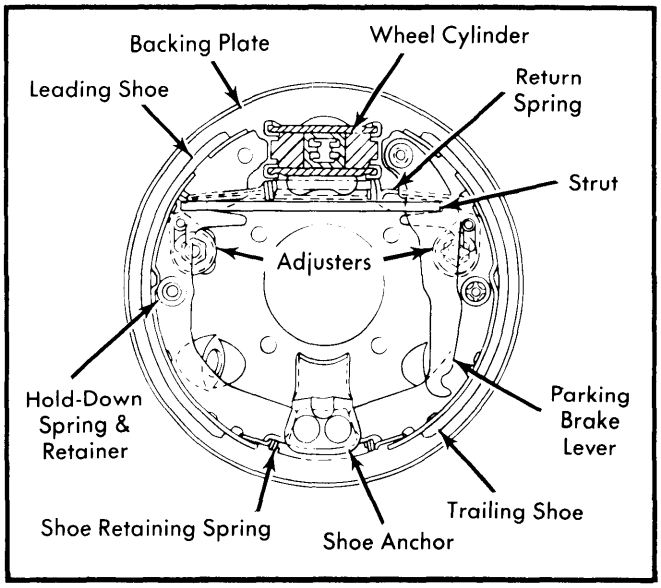

Fig. 2 Brake Assembly

GENERAL MOTORS PIN & SLOT AUTOMATIC ADJUSTER (Cont.)

WHEEL CYLINDER

Removal – Raise and support vehicle. Remove tire and wheel. Back off brake adjuster. Remove drum. Disconnect and cap brake line. Remove brake shoe return spring. Remove bolts and remove cylinder.

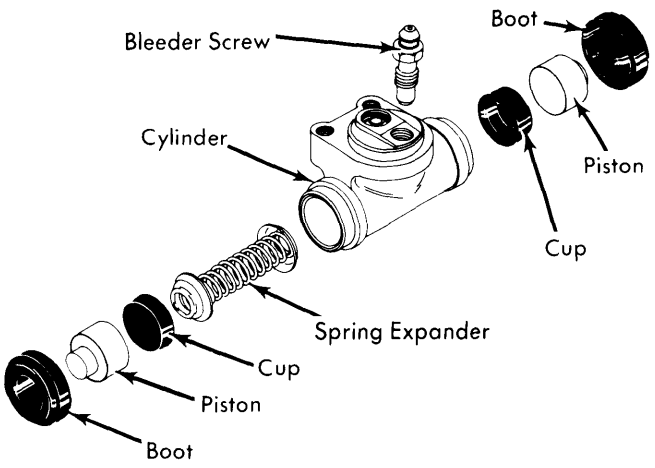

Fig. 3 Exploded View of Wheel Cylinder

Disassembly – Remove boots from both ends of wheel cylinder. Remove internal components. *See Fig. 3.*

Inspection – Check cylinder bore for corrosion. Replace cylinder at first signs of corrosion. Minor staining and discoloration can be honed out.

Reassembly – Lubricate cylinder bore with brake fluid. Slide spring expander into place. Install NEW cup, flat side out, in cylinder bore. Fit NEW boots to pistons. Install pistons into cylinder with flat sides leading.

Installation – To install wheel cylinder, reverse removal procedure and bleed brake system. *See Hydraulic Brake Bleeding in this Section.*

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Brake Hose-to-Wheel Cylinder	150 INCH Lbs.
Bleeder Screw	70 INCH Lbs.
Wheel Lug Nuts	70

BRAKE SYSTEM SPECIFICATIONS

Application	Drum Diam.	Wheel Cylinder Diameter		Master Cylinder Diameter
		Front	Rear	
Chevette	7.87″	①	.750″	.750″

① – Front Disc Brake Equipped.

BRAKE LINING SPECIFICATION

Application	Drum Dia.	Width		Length		Thickness	
		Front	Rear	Primary	Secondary	Primary	Secondary
Chevette	7.87″	①	1.75″	.....	7.48″	.252″	.252″

① – Front Disc Brake Equipped.

BRAKE DRUM SPECIFICATIONS

Application	Drum Diameter	Original Diameter	Maximum Refinish Diameter	Discard Diameter
Chevette	7.87″	7.87″	7.899″	7.929″