

COLT

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DESCRIPTION

Brake system employs a single piston, floating caliper front disc brake and a self-adjusting, leading-trailing, shoe/drum brake on rear wheels. All models are equipped with a tandem master cylinder consisting of independent front and rear hydraulic systems; a pressure differential warning switch, actuating an indicator light on instrument panel in event of pressure drop; and a cable actuated parking brake assembly, acting on rear wheels.

ADJUSTMENT

FRONT DISC BRAKE PADS

Front disc brakes are self-adjusting, therefore, no adjustment in service is required.

REAR BRAKE SHOES

Rear drum brakes are self-adjusting, therefore, no adjustment is necessary.

PARKING BRAKE

1) Release parking brake lever. Loosen cable attaching bolt and adjusting nut, and move cable lever to right. Adjust clearance of left cable to .04" (1.0 mm), then tighten attaching bolt. Clearance is measured between extension lever and stopper.

2) With left cable adjusted, turn adjusting nut until same clearance is obtained on right extension lever. With parking brake properly adjusted, lever stroke should be 4-6 notches (8-12 clicks).

HYDRAULIC SYSTEM BLEEDING

Attach a bleed tube to wheel cylinder bleeder screw and immerse opposite end of tube in a container partially filled with brake fluid. Depress and release pedal several times, hold in applied position, loosen bleeder screw, allow air to escape, and tighten bleeder screw. Continue operation until air bubbles are no longer seen in discharged fluid. Repeat procedure at remaining brake lines until all air is bled from system. Bleeding sequence is right-rear, left-rear, left-front, and right-front.

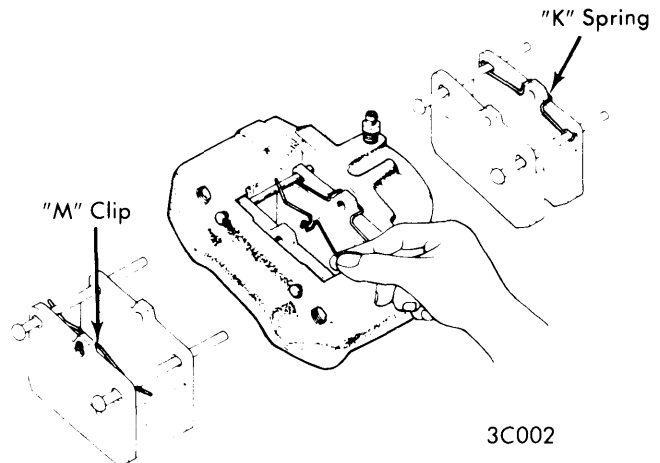
REMOVAL & INSTALLATION

FRONT DISC BRAKE PADS

Removal — Raise and support vehicle and remove front wheel. Remove pad protector by prying up edge of clip at center of protector. Hold center of "M" clip, detach "M" clip from pad and its ends from retaining pins, remove clip. Remove retaining pins from caliper and remove "K" spring. Remove pads from caliper by grasping backing plate area of pads with pliers.

Installation — Press piston to bottom of bore using a suitable tool, install disc pads and retaining pins. Install "K"

spring and "M" clip, making sure positions are not reversed. See illustration. Install pad protector, making sure clips face outward.



SPRING & CLIP INSTALLATION

FRONT DISC BRAKE CALIPER

Removal — With disc pads removed, disconnect hydraulic line and remove bolts attaching caliper assembly to steering knuckle, and remove caliper assembly.

Installation — Reverse removal procedure, tighten caliper mounting bolts evenly, and bleed hydraulic system.

FRONT DISC BRAKE ROTOR

Removal — With caliper assembly removed, remove hub dust cap, cotter pin, lock nut, and adjustment nut. Pull hub and rotor assembly from spindle, taking care not to drop outer wheel bearing. Remove bolts attaching rotor to hub, then separate.

Installation — Reverse removal procedure, tighten rotor-to-hub bolts evenly, and adjust wheel bearings. See *Wheel Bearing Adjustment* in WHEEL ALIGNMENT Section.

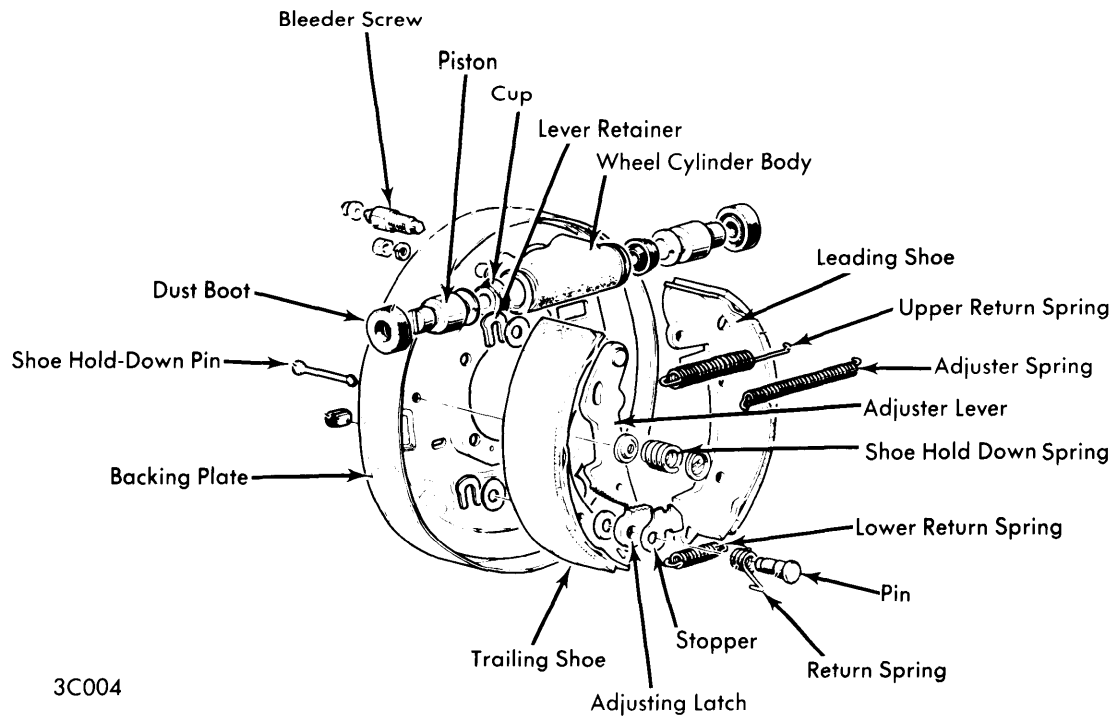
REAR BRAKE SHOES

Removal — Raise and support vehicle and remove brake drum. Remove shoe hold-down springs. Disconnect strut-to-shoe spring and upper shoe return spring end from trailing shoe. Remove trailing shoe and lower return spring. Hold adjusting latch downward, pull adjusting lever toward center of brake, and remove leading shoe assembly. Remove upper shoe return spring and strut-to-shoe spring.

Installation — Reverse removal procedure and note the following: Apply brake grease to all shoe contact points of backing plate, adjuster assembly, and wheel cylinder. Adjust amount of engagement of adjusting lever with strut only after pulling lever fully toward center of brake. Note that adjusting lever and latch spring differ between right and left sides.

Brakes

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REAR BRAKE ASSEMBLY

REAR WHEEL CYLINDER

Removal — With rear drum and brake shoes removed, disconnect hydraulic line from wheel cylinder at rear of backing plate, remove bolts attaching cylinder, and remove wheel cylinder.

Installation — Reverse removal procedure, tighten mounting bolts evenly, and bleed hydraulic system.

MASTER CYLINDER

Removal — Disconnect hydraulic lines from master cylinder, then depress pedal slowly several times to discharge fluid. Remove clevis bolt retaining master cylinder push rod to pedal, remove cylinder mounting bolts, and remove master cylinder.

Installation — Reverse removal procedure, check and adjust pedal height, and bleed hydraulic system.

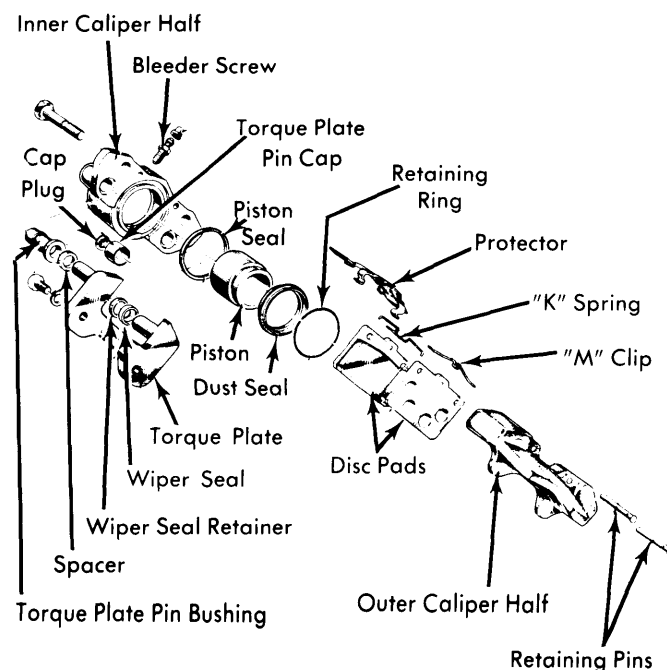
OVERHAUL

FRONT DISC BRAKE CALIPER

Disassembly — Remove caliper attaching bridge bolts and separate outer and inner halves. Remove retaining ring and dust seal, apply compressed air to fluid inlet, and remove piston. Remove piston. Remove piston seal taking care not to damage caliper bore or seal groove.

Cleaning & Inspection — Clean all metal parts in trichloroethylene, alcohol, or brake fluid; clean piston seal in brake fluid or alcohol; clean dust seal and other rubber parts in alcohol only. Inspect caliper bore and piston for wear, damage, or rust; replace parts as necessary.

NOTE — Manufacturer recommends replacing piston seal and dust seal whenever piston has been removed.



3C006

FRONT DISC BRAKE ASSEMBLY

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Reassembly — Reverse disassembly procedure and note the following: Apply rubber grease to piston seal and brake fluid to piston when reassembling. If torque plate was removed from inner caliper half, clean torque plate shaft and shaft bore in caliper, then apply special rubber grease to rubber bushing, wiper seal inner surface, and torque plate shaft before reassembly. Tighten bridge bolts of caliper halves evenly.

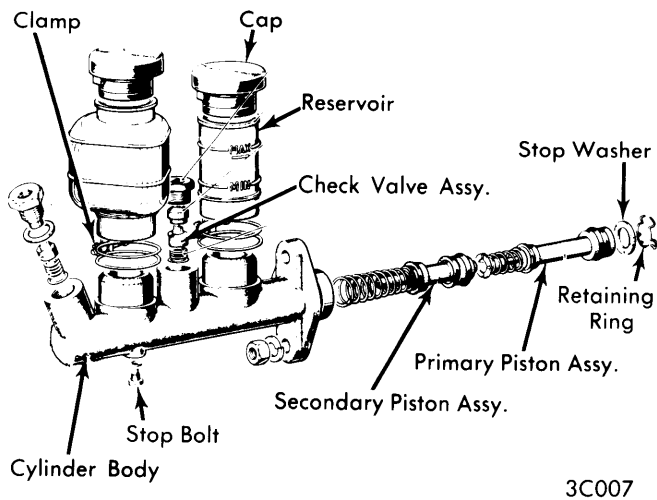
MASTER CYLINDER

Disassembly — Remove dust boot, retaining ring, stop washer, and piston stop bolt, and withdraw primary piston assembly, secondary piston assembly, and secondary return

spring from master cylinder. **NOTE** — Do not disassemble primary piston assembly. Remove check valve caps, tube seats, check valves, and check valve springs.

Inspection — Check master cylinder bore and piston for wear or other damage and replace as necessary. Check clearance between cylinder bore and piston; if clearance exceeds .006", replace parts as necessary. Check all parts of secondary piston assembly; if any parts are found defective, replace complete secondary piston assembly.

Reassembly — Reverse disassembly procedure and note the following: Apply rubber grease to all parts (except boots) before reassembly. When assembled, check that return port is not blocked by piston cup when piston is located at return position.



MASTER CYLINDER ASSEMBLY

3C007

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs (mkg)
Master Cylinder	
Check Valve Caps.....	18-25 (2.5-3.5)
Piston Stop Bolt.....	1-2 (.14-.28)
Retaining Nuts.....	6-9 (.83-1.2)
Hydraulic Lines.....	9-12 (1.2-1.7)
Caliper Mounting Bolts.....	51-65 (7.0-8.9)
Caliper Bridge Bolts.....	58-69 (8.0-9.5)
Rotor-to-Hub Bolts.....	25-29 (3.5-4.0)
Hydraulic Line-to-Caliper.....	9-12 (1.2-1.7)
Wheel Cylinder Bolts.....	4-7 (.55-.97)

BRAKE LINING SPECIFICATIONS

Application	Drum Dia. In. (mm)	Width		Length		Thickness	
		Front In. (mm)	Rear In. (mm)	Primary In. (mm)	Secondary In. (mm)	Primary In. (mm)	Secondary In. (mm)
Colt	9 (229)	①	1.57 (39.8)	9.57 (243)	9.57 (243)	.169 (4.29)	.169 (4.29)

① — Front disc brake equipped.

BRAKE SYSTEM SPECIFICATIONS

Application	Drum Diam. In. (mm)	Wheel Cylinder Diameter		Master Cylinder
		Front In. (mm)	Rear In. (mm)	Diameter In. (mm)
Colt	9 ① (229)	②	.750 (19.1)	.687 (17.4)

① — Rear Drum.

② — Caliper Bore Diameter — 2.012" (51.1 mm).

Brakes

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DISC BRAKE ROTOR SPECIFICATIONS						
Application	Disc Diameter In. (mm)	Lateral Runout In. (mm)	Parallelism In. (mm)	Original Thickness In. (mm)	Minimum Refinish Thickness In. (mm)	Discard Thickness In. (mm)
Colt006 (.152)51 (12.9)45 (11.4)

BRAKE DRUM SPECIFICATIONS				
Application	Drum Diameter In. (mm)	Original Diameter In. (mm)	Maximum Refinish Diameter In. (mm)	Discard Diameter In. (mm)
Colt	9 (229)	9.000 (229)	9.079 (230.6)