

1967-72 FIAT 850

850 (1967-73)

DESCRIPTION

Fiat 850 hydraulic drum brake system consists of a master cylinder, four dual piston hydraulic cylinders, (one on each wheel). All brake lines are connected to master cylinder where fluid is pressurized. All wheel cylinders, when activated by hydraulic pressure, expand both shoes equally, locking drum. Brake system also includes a mechanical handbrake; when engaged it locks rear brake shoes against brake drums. 850 Coupe and Roadster brake systems use same drum brakes on rear wheels and same handbrake system as Sedan. Front brakes, however, consist of a rotor (disc), a plate attached to steering knuckle securing caliper mounting bracket, and a one-piece caliper (housing a piston and two pads).

ADJUSTMENT

DISC BRAKES

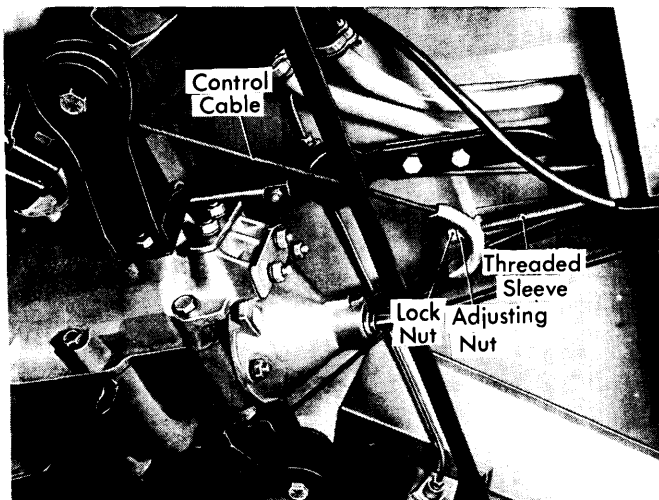
Disc brakes are self adjusting, therefore, no adjustment in service is required.

DRUM BRAKES

Raise and support vehicle. Apply brakes until shoes are in firm contact with brake drum. Turn adjusting cams outward to last stop, then back off cam approximately 20°. Release brake pedal pressure, and ensure drum turns freely.

PARKING BRAKE

Place parking brake lever in fully released position, then apply lever two notches. Adjust nut on adjusting clevis, until rear wheels just lock. Tighten lock nut and check that wheels turn freely with parking brake fully released.



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MECHANICAL HANDBRAKE ADJUSTMENT

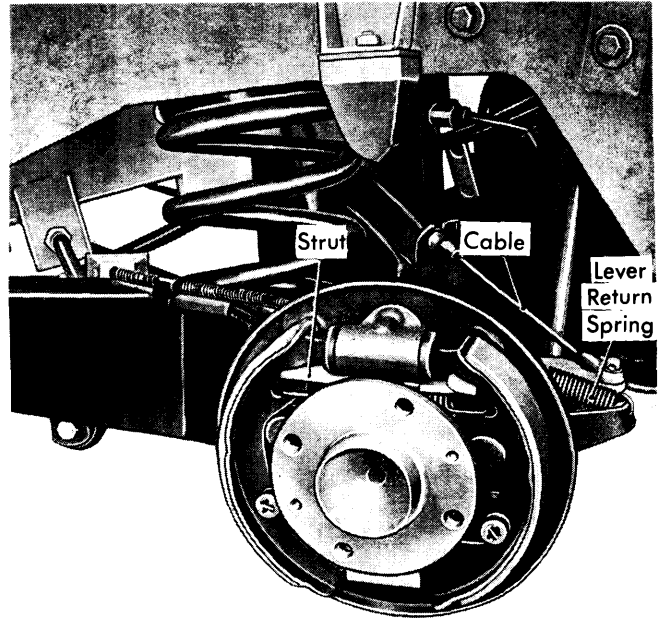
BLEEDING SYSTEM

With pressure on pedal, open bleed fitting and push pedal its full travel. When pedal is fully depressed, close fitting and let pedal return to fully released position. Repeat operation at each wheel until all air is bled from system.

REMOVAL & INSTALLATION

LINING INSPECTION (DRUM BRAKES)

Remove tire, wheel and drum. Check shoes for cracks or distortion and replace if necessary. Guide pin should slide freely in its seat. Ensure guide spring is free of any damage. Check shoe return springs and ensure they are serviceable. If any grease or dirt build up exists on shoes, clean with suitable solvent. If shoe lining has worn .006", replace it.

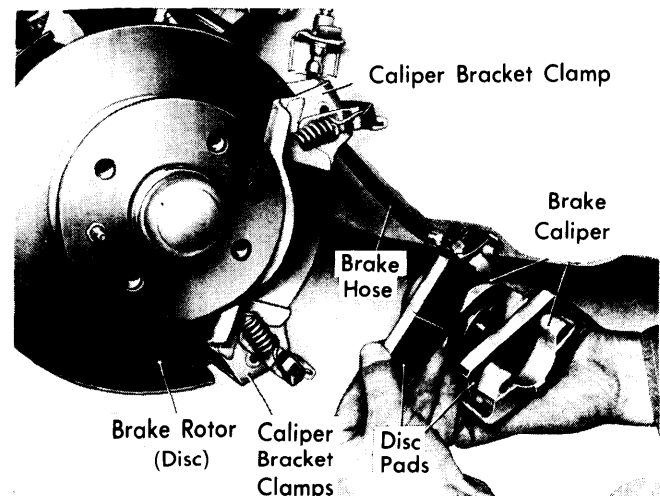


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REAR BRAKE ASSEMBLY

LINING REPLACEMENT (DISC BRAKES)

Removal - Remove caliper from mounting brackets. Remove retaining plates and disconnect pins. Lift caliper from bracket and remove pads.

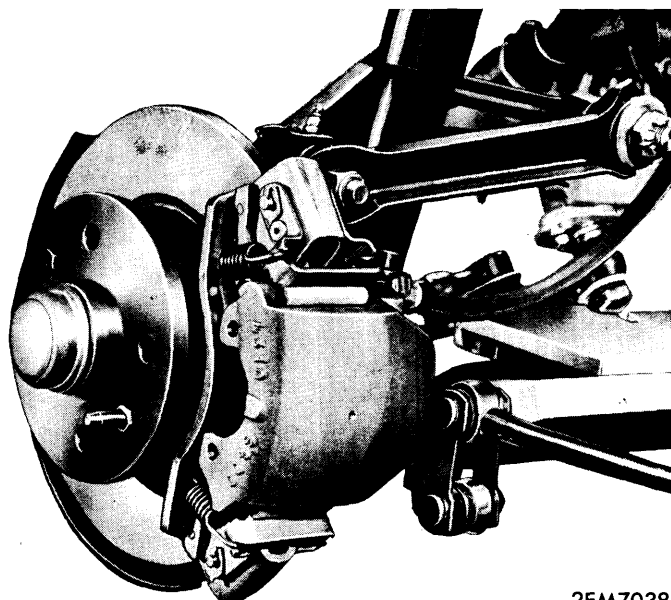


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DISC PAD REPLACEMENT

1967-72 FIAT 850 (Cont.)

Installation — Push piston to bottom of cylinder bore and ensure piston index mark is toward bleed screw. Measure distance between new pads, ensuring it is not less than .417".



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FRONT DISC BRAKE ASSEMBLY

BRAKE ROTOR (DISC) & CALIPER

Removal — Remove tire and wheel. Disconnect brake fluid hose at caliper and plug open end. Remove caliper bracket clamp pin clips and withdraw pins. Using suitable tool

(A.72238), tip caliper bracket and remove caliper unit. Pull wheel bearing dust cover cap and remove nut, thrust washer and bearing. Remove screws from brake rotor. Lift off wheel hub and brake rotor assembly.

Installation — To install, reverse removal procedure, noting the following: When fitting pistons into calipers, ensure index marks face bleed screw and gap between lining pads is not less than .429".

BRAKE DRUM INSPECTION

Remove tire, wheel and drum. If drums are found to be out-of-round or scored, use suitable lathe (M.1004) to turn them. Turned drums must not exceed 7.434" diameter.

OVERHAUL

MASTER CYLINDER INSPECTION

After removing and disassembling, examine cylinder bore for signs of rust, rough surfaces or excessive piston play. Minor imperfections in cylinder bore can be eliminated by honing. Replace seals, rubber boots and piston return spring. Before installation, clean all components in brake fluid.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Caliper-to-Steering Knuckle	16 (2.2)
Caliper-to-Caliper Plate.....	39 (4.4)

BRAKE SYSTEM SPECIFICATIONS

Application	Drum Diam. In. (mm)	Wheel Cylinder Diameter		Master Cylinder
		Front In. (mm)	Rear In. (mm)	Diameter In. (mm)
All Models	7.30 (185.5)	.875 (22.22)	.750 (19.05)	.750 (19.05)

BRAKE LINING SPECIFICATION

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)
All Models	7.30 (185.5)	1.18 (30.0)	1.18 (30.0)	7.08 (179.8)	7.08 (179.8)	.170 (4.3)	.170 (4.3)

BRAKE DRUM SPECIFICATIONS

Application	Drum Diameter In. (mm)	Original Diameter In. (mm)	Maximum Refinish Diameter In. (mm)	Discard Diameter In. (mm)
All Models	7.30 (185.5)	7.30 (185.5)	7.62 (193.5)	⓪

⓪ — Larger diameter than Maximum Refinish Diameter.