

1970-73 DATSUN 240Z

240Z (1970-73)

DESCRIPTION

Brake system is hydraulically operated, using a tandem master cylinder and a Master-Vac power brake unit. Front brakes are Girling-Sumitomo dual piston fixed caliper disc type, and rear brakes are leading-trailing shoe/drum type. Brake system is equipped with a proportioning valve to prevent premature locking of rear wheels. Parking brake is mechanically actuated, operating sliding wheel cylinders of rear brake assemblies.

ADJUSTMENT

BRAKE PEDAL

Loosen lock nut, turn push rod clevis, and adjust push rod length so that height of pedal, measured from pedal pad to floor, is 8.11". *NOTE* — Make sure pedal stop bolt does not contact pedal arm at this time. With push rod adjusted, adjust pedal stop bolt so that pedal height is reduced from 8.11" to 7.99".

FRONT DISC BRAKE PADS

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

REAR DRUM BRAKE SHOES

Rear drum brakes are self-adjusting (actuated by parking brake), therefore, no adjustment in service is required.

PARKING BRAKE

With parking brake lever fully released, make sure distance between wheel cylinder lever pin hole center and buffer plate on brake assembly backing plate is .453-.492". Reduce play in linkage by turning adjusting nut on front parking brake operating rod.

REMOVAL & INSTALLATION

FRONT DISC BRAKE PADS

Removal — Remove tire and wheel. Remove clip, retaining pin, damper spring and remove pad with shim.

Installation — Depress piston into cylinder so new pad may be inserted. Install pad, shim, damper spring and retaining pin securing with clip. Depress pedal several times to position new pads.

FRONT DISC BRAKE CALIPER

Removal - With disc pads removed, disconnect hydraulic line from caliper and plug openings. Remove caliper mounting bolts and separate caliper from steering knuckle and rotor.

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

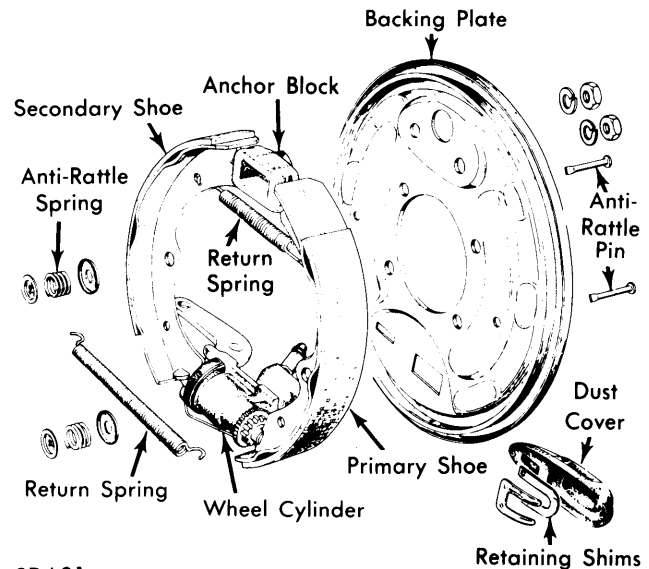
FRONT DISC BRAKE ROTOR

Removal — With caliper assembly removed, remove wheel hub dust cap, cotter pin, and adjusting nut. Remove wheel hub and rotor assembly, wheel bearing, and washer from spindle as an assembly. Remove bolts attaching rotor to wheel hub, and detach rotor.

Installation — Reverse removal procedure and adjust front wheel bearings. See *Wheel Bearing Adjustment* in *WHEEL ALIGNMENT* Section.

REAR BRAKE SHOES

Removal — Remove tire, wheel and drum. *NOTE* — Should drum be difficult to remove: Remove clevis pin from wheel cylinder lever and disconnect handbrake cable. Remove backing plate rubber boot and loosen brake shoes, (adjust star downward). Some difficulty may be incurred due to adjuster lever. Remove return springs, mounting springs, clips and pins.



REAR BRAKE ASSEMBLY

Installation — Apply brake grease (or equivalent) to adjuster and all pivot points on backing plate. Install brake shoe return springs and mounting springs, clips, and pins. Install brake drum and adjust brakes until they just contact drum. Reconnect handbrake cable and insert rubber backing plate boot.

REAR BRAKE WHEEL CYLINDER

Removal — With rear brake shoes removed, remove hydraulic line and dust cover. Drive out lock plate toward front of vehicle, withdraw adjusting plate rearward, and remove wheel cylinder from backing plate.

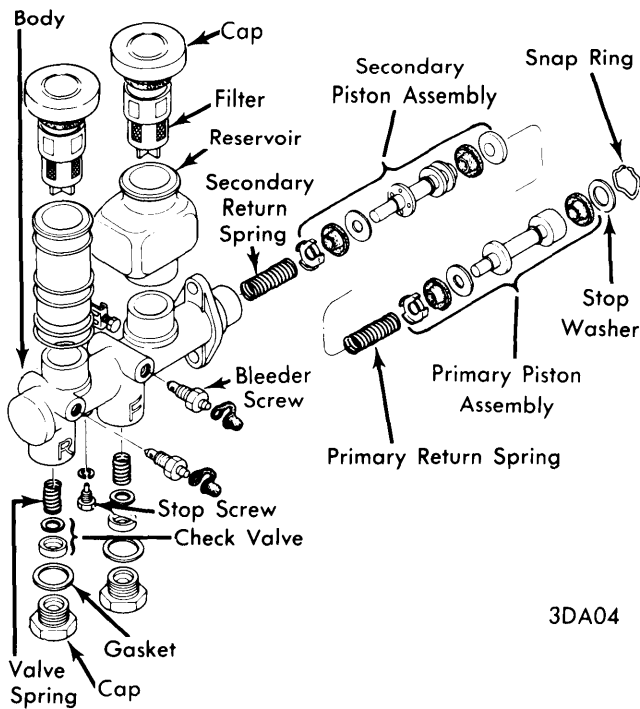
Installation — Reverse removal procedure and note the following: Apply brake grease (or equivalent) to wheel cylinder, backing plate, and adjusting plate sliding surfaces; also lubricate wheel cylinder lever fulcrum and ensure wheel cylinder assembly operates freely.

MASTER CYLINDER

Removal — Disconnect hydraulic lines from master cylinder, remove nuts attaching cylinder to power unit, and separate master cylinder from power brake unit.

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

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MASTER CYLINDER ASSEMBLY

POWER BRAKE UNIT

Removal - Disconnect power unit push rod from brake pedal by removing clevis pin. Disconnect hydraulic lines from master cylinder, vacuum line from power unit, remove master cylinder mounting nuts, and remove master cylinder. Remove nuts attaching power unit to firewall, and remove power unit from engine compartment.

Installation - Reverse removal procedure, adjust brake pedal height, and bleed hydraulic system.

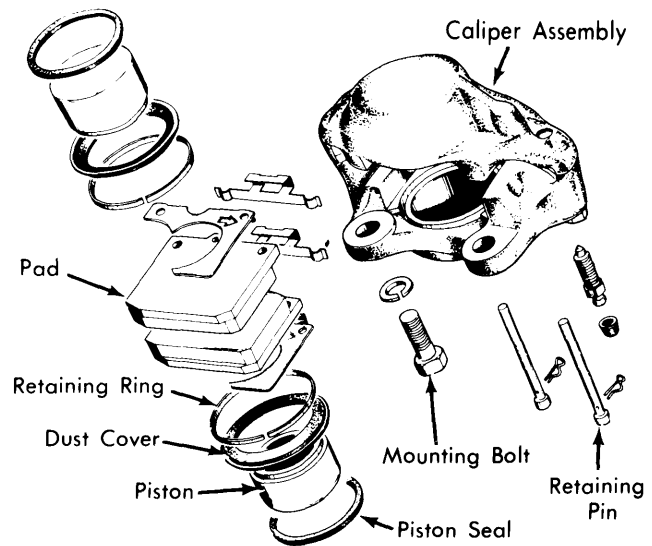
Check Valve Replacement - Check valve is located in vacuum line between intake manifold and power unit on firewall. To remove, disconnect retaining clip from firewall, remove hose clamps, separate hoses from valve, and remove check valve. To install, reverse removal procedure.

OVERHAUL

FRONT DISC BRAKE CALIPER

Disassembly - Clean exterior of brake caliper. Remove retaining ring and dust seal. Using a small block of wood, (or equivalent), hold one piston and blow air into brake line inlet to force piston from bore. Remove piston seal from cylinder bore. Remove other piston in similar manner.

Cleaning & Inspection - Clean all parts in alcohol or brake fluid. **CAUTION** - DO NOT use mineral based solvents. Inspect caliper bores for wear, rust, corrosion, or other damage; minor deposits or scratches may be removed with fine emery cloth. Check piston for wear or damage. **NOTE** - DO NOT use abrasives on piston plated surfaces.

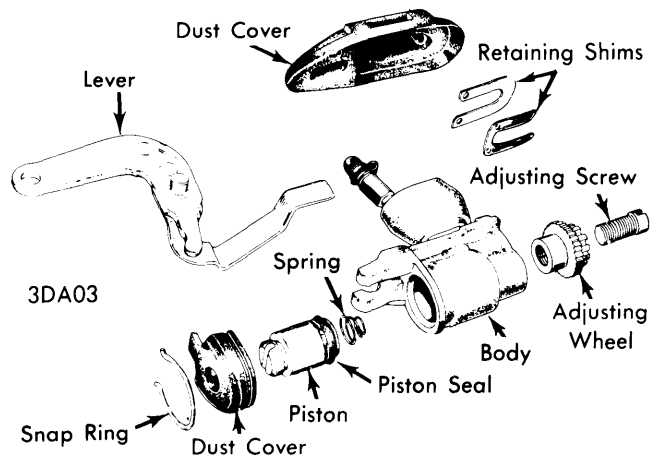


FRONT BRAKE ASSEMBLY 2EM7067

Reassembly - **NOTE** - Manufacturer recommends replacing rubber parts whenever caliper is being overhauled. Coat piston seal with rubber grease and install into caliper bore. Install dust seal on piston, insert piston into caliper, and install retaining ring. Install opposite piston assembly in same manner.

REAR WHEEL CYLINDER

Disassembly - Remove snap ring and dust cover. Withdraw piston and seal assembly, adjuster wheel, adjuster screw, and spring.



WHEEL CYLINDER ASSEMBLY

Cleaning & Inspection - Clean all parts in alcohol or brake fluid. **CAUTION** - DO NOT use mineral based solvents. Check all parts for wear or damage; replace parts as necessary. Check clearance between cylinder bore and piston; if clearance exceeds .006", replace cylinder or piston as necessary. Check spring for damage or distortion. **NOTE** - Manufacturer recommends replacing seal whenever wheel cylinder has been disassembled.

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Reassembly — Reverse disassembly procedure and note the following: Apply rubber grease to all parts when reassembling to prevent damage.

Reassembly — Reverse disassembly procedure and note the following: Apply rubber grease to all rubber parts and brake fluid to remaining parts when assembling to prevent damage.

MASTER CYLINDER

Disassembly — Remove reservoir filler caps, drain brake fluid, and remove secondary piston stop bolt. Remove snap ring and withdraw primary piston, secondary piston and return springs. Remove valve caps and withdraw check valve assemblies. **NOTE** — Do not remove reservoirs unless necessary.

Cleaning & Inspection — Clean all parts in alcohol or brake fluid and inspect for wear or damage. Check clearance between cylinder bore and pistons; if clearance exceeds .006", replace cylinder or pistons as necessary. **NOTE** — *Manufacturer recommends replacing piston cups, gaskets, and valves whenever master cylinder has been disassembled.*

TIGHTENING SPECIFICATIONS	
Application	Ft. Lbs. (mkg)
Caliper-to-Knuckle Flange	63 (8.7)
Rotor-to-Hub	32 (4.4)
Hydraulic Lines	12 (1.7)
Master Cylinder	
Piston Stop Screw	5 (0.7)
Check Valve Caps	60 (8.3)
Anchor Block-to-Backing Plate	13 (1.8)

BRAKE SYSTEM SPECIFICATIONS				
Application	Drum Diam. In. (mm)	Wheel Cylinder Diameter		Master Cylinder
		Front In. (mm)	Rear In. (mm)	Diameter In. (mm)
All Models	①9.0 (228.6)	②2.13 (54.0)	.875 (22.2)	.875 (22.2)

- ① — Rear Drum.
- ② — Caliper Bore Diameter.

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)
All Models	10.67 (271.0)	.006 (.150)	①.003 (.071)	.492 (12.49)	.414 (10.51)	②

- ① — Maximum allowable.
- ② — Less than Minimum Refinish Thickness.

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 (Rear)	9.0 (228.6)	①	1.575 40	8.64 (219.5)	8.64 (219.5)	.161 (4.0)	.161 (4.0)

- ① — Front disc brake equipped.

BRAKE DRUM SPECIFICATIONS				
Application	Drum Diameter In. (mm)	Original Diameter In. (mm)	Maximum Refinish Diameter In. (mm)	Discard Diameter In. (mm)
All Models (Rear)	9.0 (228.6)	9.0 (228.6)	9.055 (230.0)	①

- ① — More than Maximum Refinish Diameter.