

[Manuals.plus](#) /

› [Dorman](#) /

› Dorman M630881 Brake Master Cylinder Instruction Manual

Dorman M630881

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Model: M630881

PRODUCT OVERVIEW

This Dorman M630881 Brake Master Cylinder is engineered to match the design, function, and performance of the original master cylinder on specific vehicle years, makes, and models. It is manufactured using new, high-quality materials to ensure a safe and durable replacement for your vehicle's braking system.

Key Features

- **Precise Replacement:** The cylinder housing is constructed to match the casting material of the original part, ensuring similar performance and fit.
- **Durable Design:** All rubber components are made from high-quality EPDM compound, providing excellent resistance to glycol-based brake fluid.
- **100% New Construction:** This unit is made entirely of new materials, not remanufactured, to ensure the highest quality and safety standards.
- **Strict Specifications:** Manufactured to meet rigorous SAE International standards for reliability and performance.
- **Guaranteed Fitment:** Designed for specific vehicle applications. Always confirm compatibility using a vehicle fitment tool before purchase.



Image: Top view of the Dorman M630881 Brake Master Cylinder, showing the reservoir cap.

PRODUCT COMPONENTS

The Dorman M630881 Brake Master Cylinder package includes:

- One (1) New Brake Master Cylinder



Image: Angled view of the Dorman M630881 Brake Master Cylinder, showing the front and top.



Image: Angled view of the Dorman M630881 Brake Master Cylinder, highlighting the mounting points and fluid ports.

VEHICLE COMPATIBILITY

This brake master cylinder is compatible with a range of vehicles. It is crucial to verify fitment for your specific vehicle's year, make, and model before installation.

Compatible with:

- American Motors Ambassador: 1960, 1961
- American Motors American: 1961
- American Motors Classic: 1961
- American Motors Rebel: 1960
- Cadillac DeVille: 1959, 1960
- Cadillac Eldorado: 1959
- Cadillac Series 60 Fleetwood: 1959, 1960
- Cadillac Series 62: 1959, 1960
- Cadillac Series 75 Fleetwood: 1959, 1960
- Chevrolet Bel Air: 1959, 1960, 1961
- Chevrolet Biscayne: 1959, 1960, 1961

- Chevrolet Brookwood: 1959, 1960, 1961
- Chevrolet El Camino: 1959, 1960
- Chevrolet Impala: 1959, 1960, 1961
- Chevrolet Nomad: 1959, 1960, 1961
- Pontiac Bonneville: 1959, 1960
- Pontiac Catalina: 1959, 1960
- Pontiac Parisienne: 1959, 1960
- Pontiac Star Chief: 1959, 1960

Always use a vehicle fitment tool or consult your vehicle's service manual to confirm exact compatibility.

INSTALLATION INSTRUCTIONS

WARNING: Brake system work requires specialized knowledge and tools. Improper installation can lead to brake failure, serious injury, or death. If you are not confident in your ability to perform this installation safely, seek assistance from a qualified automotive technician.

For detailed, step-by-step installation procedures, please refer to the official Dorman installation manual available as a PDF: [Dorman M630881 Installation Manual \(PDF\)](#).

General Installation Steps (Summary - Refer to PDF for full details):

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Disconnect the negative battery terminal.
2. **Access:** Locate the brake master cylinder, typically mounted on the firewall in the engine bay.
3. **Fluid Drainage:** Carefully drain the brake fluid from the reservoir using a suitable syringe or pump.
4. **Disconnect Lines:** Disconnect the brake lines from the master cylinder. Be prepared for residual fluid leakage. Cap the lines to prevent contamination.
5. **Remove Mounting Nuts:** Remove the nuts securing the master cylinder to the brake booster.
6. **Remove Old Unit:** Carefully remove the old master cylinder from the vehicle.
7. **Bench Bleeding (Crucial Step):** Before installing the new master cylinder, it is critical to bench bleed it. This involves filling the reservoir with new brake fluid and using a bleeding kit to remove air from the master cylinder's internal passages. Follow the instructions provided in the PDF manual precisely.
8. **Install New Unit:** Mount the new, bench-bled master cylinder onto the brake booster. Secure with mounting nuts.
9. **Connect Lines:** Reconnect the brake lines to the new master cylinder. Tighten to specifications.
10. **Bleed Brake System:** Perform a full brake system bleed to remove all air from the brake lines. Start with the wheel furthest from the master cylinder and work your way closer.
11. **Fluid Level Check:** Fill the master cylinder reservoir to the MAX line with new, recommended brake fluid.
12. **Test Brakes:** With the engine off, pump the brake pedal several times to ensure a firm pedal. Start the engine and re-test. Drive slowly in a safe area to confirm proper brake function.
13. **Final Checks:** Inspect for any fluid leaks around the master cylinder and brake lines. Reconnect the battery.



Image: Side view of the Dorman M630881 Brake Master Cylinder, showing the mounting flange and fluid outlet ports.

MAINTENANCE

Regular maintenance of your vehicle's brake system is essential for safety and longevity.

- **Check Brake Fluid Level:** Periodically inspect the brake fluid level in the master cylinder reservoir. It should be between the MIN and MAX lines. Low fluid can indicate a leak or worn brake pads.
- **Inspect Fluid Condition:** Brake fluid should be clear or light amber. Dark or cloudy fluid may indicate contamination or degradation and should be flushed.
- **Brake Fluid Flush:** Follow your vehicle manufacturer's recommendations for brake fluid flush intervals, typically every 2-3 years or 30,000-45,000 miles.
- **Inspect for Leaks:** Regularly check around the master cylinder, brake lines, calipers, and wheel cylinders for any signs of brake fluid leaks.
- **Use Correct Fluid:** Always use the type of brake fluid specified by your vehicle manufacturer (e.g., DOT 3, DOT 4). Mixing fluid types or using incorrect fluid can damage the system.

TROUBLESHOOTING COMMON ISSUES

Soft or Spongy Brake Pedal

- **Possible Cause:** Air in the brake lines.
Solution: Bleed the entire brake system thoroughly.
- **Possible Cause:** Low brake fluid level.
Solution: Check and top up fluid. Inspect for leaks.
- **Possible Cause:** Faulty master cylinder (internal leak).
Solution: If bench bleeding and system bleeding do not resolve the issue, the master cylinder may be defective and require replacement.

Brake Pedal Goes to the Floor

- **Possible Cause:** Severe brake fluid leak.
Solution: Immediately inspect the entire brake system for leaks and repair as necessary. Do not drive the vehicle until repaired.
- **Possible Cause:** Master cylinder failure.
Solution: Replace the master cylinder.

Brake Fluid Leaks Around Master Cylinder

- **Possible Cause:** Loose brake line fittings.
Solution: Tighten fittings to specification.
- **Possible Cause:** Damaged seals or housing.
Solution: Inspect the master cylinder for cracks or damaged seals. Replace if necessary.

PRODUCT SPECIFICATIONS

Feature	Detail
Brand	Dorman
Model	Brake Master Cylinder
Item Model Number	M630881
Manufacturer Part Number	M630881
OEM Part Numbers	130.62102; MC31999; 5459092; 5459187
Item Weight	4.17 pounds
Product Dimensions	12.13 x 6.5 x 4.63 inches
Exterior Finish	Painted
ASIN	B01ID39WMM
Date First Available	July 13, 2016

WARRANTY AND SUPPORT

Dorman products are designed for quality and reliability. For specific warranty information regarding your M630881 Brake Master Cylinder, please refer to the documentation included with your purchase or visit the official Dorman website.

For technical assistance or support, please contact Dorman customer service.

Dorman Store: [Visit the Dorman Store on Amazon](#)