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Cardone 53-8005

Cardone 53-8005 Remanufactured Vacuum Power Brake Booster

Model: 53-8005

Introduction

The CARDONE Remanufactured Vacuum Power Brake Booster, model 53-8005, is engineered to restore original equipment (O.E.) performance to your vehicle's braking system. This unit undergoes a rigorous re-engineering process, with original designs carefully scrutinized for potential improvements. Where applicable, design upgrades are implemented to produce a part that is often more durable than the original. Each unit is 100% tested to ensure perfect fit and reliable function, providing consistent and effective braking assistance.
Key features include:

- Guaranteed perfect vehicle fit as a remanufactured Original Equipment part.
- Installation of O.E. quality seals and check valves for like-new performance and reliability.
- An exclusive rust-prohibitive finishing process to extend unit life.
- All units are thoroughly tested to ensure reliable performance.
- Master cylinder output rods are pre-adjusted (when included) for quick and easy installation.
- Environmentally friendly remanufacturing process, reducing energy and raw material needs by 80% compared to new part manufacturing.

Safety Information

Working on vehicle brake systems requires caution and proper safety procedures. Incorrect installation or handling can lead to serious injury or vehicle damage. Always adhere to the following safety guidelines:

- **Professional Installation Recommended:** Due to the critical nature of brake components, installation should ideally be performed by a certified automotive technician.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and closed-toe shoes.
- **Vehicle Support:** Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work. Never rely solely on a jack.
- **Brake Fluid:** Brake fluid is corrosive. Avoid contact with skin, eyes, and painted surfaces. If contact occurs, wash immediately with soap and water. Dispose of used brake fluid responsibly.
- **System Depressurization:** Before removing the brake booster, ensure the vacuum system is depressurized. Consult your vehicle's service manual for specific procedures.

- **Torque Specifications:** Always use a torque wrench to tighten fasteners to the manufacturer's specified torque settings. Overtightening or undertightening can lead to component failure.
- **Bleeding the Brake System:** After installation, the brake system must be properly bled to remove any air. Air in the brake lines can cause a spongy pedal and reduced braking effectiveness.

Setup and Installation

This section provides general guidance for the installation of the Cardone 53-8005 Remanufactured Vacuum Power Brake Booster. For detailed, vehicle-specific instructions, always refer to your vehicle's official service manual.

Pre-Installation Checks:

- Verify that the new brake booster matches the original unit in terms of mounting points, vacuum port location, and master cylinder rod length.
- Inspect the vacuum hose for cracks, hardening, or deterioration. Replace if necessary.
- Ensure the firewall gasket (if applicable) is in good condition or replace it.

Installation Steps (General):

1. **Disconnect Battery:** Disconnect the negative terminal of the vehicle's battery.
2. **Drain Brake Fluid:** If removing the master cylinder, drain brake fluid from the reservoir.
3. **Remove Master Cylinder:** Disconnect brake lines from the master cylinder and remove the master cylinder from the brake booster. Cap brake lines to prevent fluid loss and contamination.
4. **Disconnect Vacuum Hose:** Disconnect the vacuum hose from the brake booster.
5. **Remove Retaining Nuts:** From inside the vehicle, locate and remove the nuts securing the brake booster to the firewall.
6. **Disconnect Push Rod:** Disconnect the brake pedal push rod from the brake pedal assembly.
7. **Remove Old Booster:** Carefully remove the old brake booster from the vehicle.
8. **Install New Booster:** Position the new Cardone 53-8005 brake booster, ensuring the push rod aligns with the brake pedal. Secure it with the retaining nuts from inside the vehicle, tightening to vehicle manufacturer specifications.
9. **Reconnect Push Rod:** Reconnect the brake pedal push rod to the brake pedal assembly.
10. **Reconnect Vacuum Hose:** Reconnect the vacuum hose to the new booster.
11. **Reinstall Master Cylinder:** Reinstall the master cylinder onto the new booster, reconnecting brake lines.
12. **Bleed Brake System:** Thoroughly bleed the entire brake system to remove all air. This is a critical step for proper brake function.
13. **Test Brakes:** With the engine off, pump the brake pedal several times to build pressure. Start the engine and check for a firm pedal. Test drive the vehicle in a safe area to confirm proper brake operation before normal use.



Figure 1: Side view of the Cardone 53-8005 Remanufactured Vacuum Power Brake Booster. This image shows the main body of the booster with the push rod and mounting studs visible on the left, and the vacuum port on the right.

Operating Principles

The Cardone 53-8005 Vacuum Power Brake Booster assists the driver in applying the brakes by using engine vacuum to multiply the force applied to the brake pedal. When the brake pedal is pressed, a valve inside the booster opens, allowing atmospheric pressure to push on one side of a diaphragm while engine vacuum pulls on the other. This pressure differential creates a significant force that aids the driver in pushing the master cylinder piston, reducing the effort required to stop the vehicle.

A properly functioning brake booster provides a consistent and firm brake pedal feel, making braking smooth and efficient.

If the pedal feels unusually hard or requires excessive force to stop the vehicle, it may indicate an issue with the brake booster or its vacuum supply.

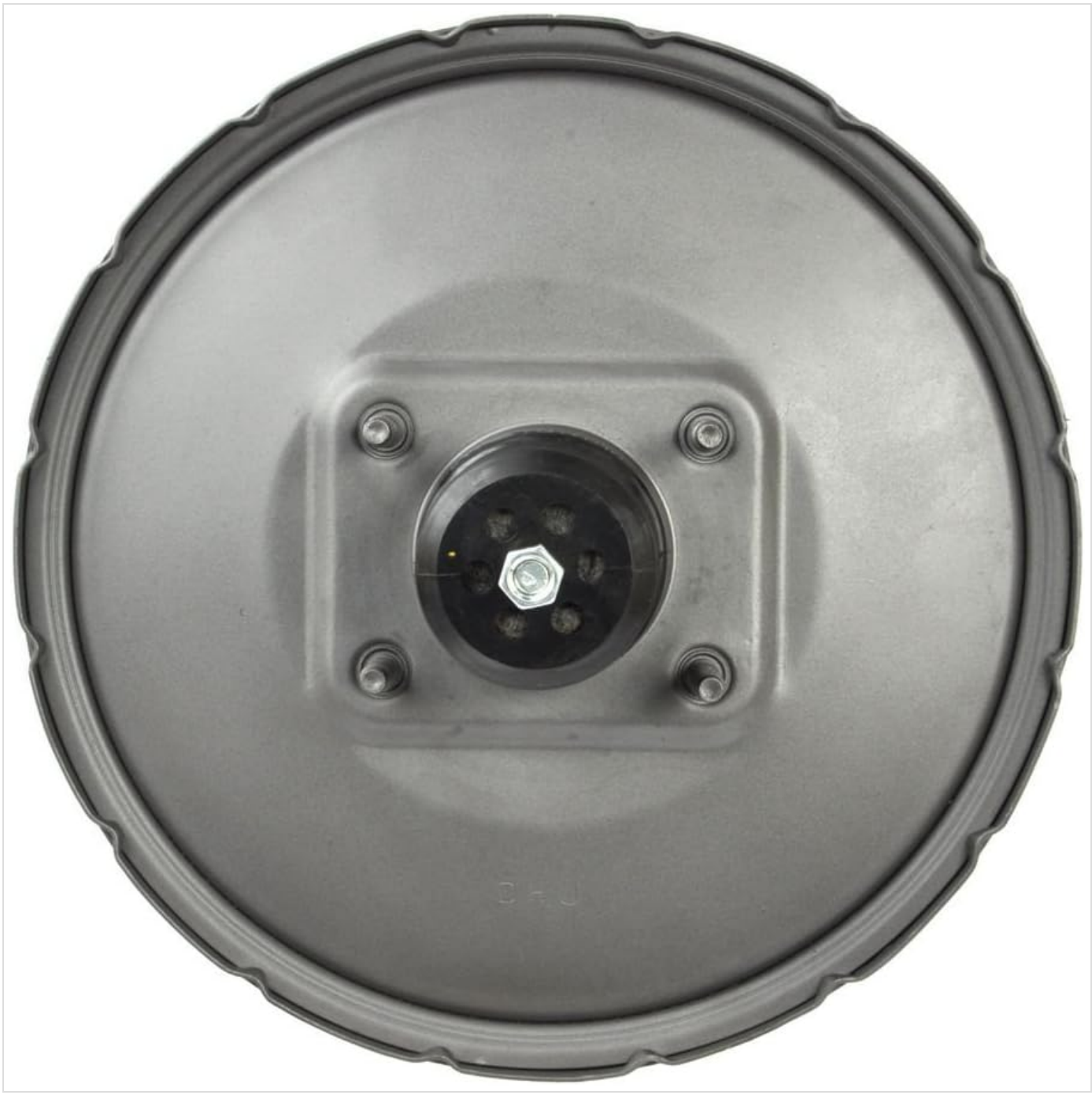


Figure 2: Top view of the Cardone 53-8005 Remanufactured Vacuum Power Brake Booster. This perspective highlights the circular shape and the central connection point for the master cylinder.

Maintenance

The Cardone 53-8005 brake booster is a sealed unit and generally requires no internal maintenance. However, regular inspection of the surrounding components is crucial for optimal brake system performance and longevity.

Recommended Inspection Points:

- **Vacuum Hose:** Periodically inspect the vacuum hose connecting the engine to the brake booster for cracks, kinks, or loose connections. A compromised vacuum hose can lead to reduced booster effectiveness.
- **Check Valve:** The check valve, typically located where the vacuum hose connects to the booster, should allow air to flow only in one direction (from booster to engine). Test its function if a vacuum leak is suspected.

- **Brake Fluid Level and Condition:** Regularly check the brake fluid level in the master cylinder reservoir. Ensure the fluid is clean and at the appropriate level. Low or contaminated fluid can indicate other brake system issues.
- **Brake Pedal Feel:** Pay attention to any changes in brake pedal feel, such as excessive hardness, sponginess, or unusual noises, as these can be early indicators of a problem.
- **Leaks:** Inspect the area around the brake booster and master cylinder for any signs of brake fluid leaks.



Figure 3: Bottom view of the Cardone 53-8005 Remanufactured Vacuum Power Brake Booster. This view shows the underside of the unit, including the mounting points.

Troubleshooting

If you experience issues with your brake system after installing the Cardone 53-8005 brake booster, consider the following common problems and their potential solutions. Always consult a qualified technician if you are unsure about diagnosis or repair.

Symptom	Possible Cause	Solution

Symptom	Possible Cause	Solution
Hard Brake Pedal: Requires excessive force to depress.	◦ Vacuum leak in hose or booster. ◦ Faulty check valve. ◦ Engine not producing sufficient vacuum. ◦ Internal booster diaphragm failure.	◦ Inspect vacuum hose and connections; replace if damaged. ◦ Test and replace check valve if faulty. ◦ Check engine vacuum source. ◦ Replace brake booster.
Spongy or Low Brake Pedal: Pedal goes too far down or feels soft.	◦ Air in the brake lines. ◦ Low brake fluid level. ◦ Master cylinder issue (less likely if new booster).	◦ Bleed the brake system thoroughly. ◦ Check and top off brake fluid; inspect for leaks. ◦ Inspect master cylinder if bleeding doesn't resolve.
Hissing Sound from Pedal Area: Audible noise when pressing brake pedal.	◦ Internal booster diaphragm leak. ◦ Loose connection at firewall.	◦ Replace brake booster. ◦ Check and tighten booster mounting nuts.
Engine Idles Rough or Stalls: Especially when brakes are applied.	◦ Large vacuum leak from booster or hose.	◦ Inspect vacuum hose and booster for leaks; replace as needed.

Specifications

The following specifications pertain to the Cardone 53-8005 Remanufactured Vacuum Power Brake Booster:

- **Manufacturer:** A1 Cardone
- **Brand:** Cardone
- **Item Model Number:** 53-8005
- **Manufacturer Part Number:** 53-8005
- **OEM Part Number:** 591102B000
- **Item Weight:** Approximately 9.88 pounds (4.48 kg)
- **Product Dimensions:** Approximately 15.38 x 12.13 x 12.13 inches (39.07 x 30.81 x 30.81 cm)
- **Country of Origin:** USA
- **Remanufacturing Process:** Reduces energy and raw material needed by 80%.



Figure 4: Infographic illustrating the environmental benefits of remanufacturing, highlighting that remanufacturing saves 85% of the energy and raw material required to make a new part.

Warranty and Support

For specific warranty information regarding the Cardone 53-8005 Remanufactured Vacuum Power Brake Booster, please refer to the documentation included with your purchase or visit the official Cardone website. Warranty terms typically cover defects in materials and workmanship for a specified period.

If you require technical assistance, have questions about installation, or need to address a warranty claim, please contact Cardone customer support directly. Their contact information can usually be found on their official website or on the product packaging.

Cardone Official Website: www.cardone.com (Please verify the current official website for the most accurate information.)

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