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Cardone 18-B5303

Cardone 18-B5303 Remanufactured Unloaded Disc Brake Caliper with Bracket

Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Cardone 18-B5303 Remanufactured Unloaded Disc Brake Caliper with Bracket. Please read this manual thoroughly before beginning any work to ensure safe and effective use of the product.
The Cardone 18-B5303 is an expertly remanufactured brake caliper designed to meet rigorous quality and performance standards. It is equipped with new, premium components for longevity and reliability, and is 100% pressure-tested for consistent brake performance.

Product Features:

- Guaranteed perfect vehicle fit as a remanufactured Original Equipment part.
- Durable pistons resistant to cracking or pitting, capable of handling significant loads.
- Calipers treated with a special rust inhibitor, maintaining original equipment finish.
- High-temperature EPDM rubber seals for extended life and optimum performance.
- New bleeder screws for trouble-free bleeding and a positive seal.
- Includes new washers where applicable for complete installation.
- Environmentally friendly remanufacturing process, reducing energy and raw material needs by 80%.

2. Safety Information

Always prioritize safety when working with automotive components. Improper installation or maintenance of brake systems can lead to serious injury or death. If you are unsure about any step, consult a qualified automotive technician.

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and closed-toe shoes.
- Ensure the vehicle is securely supported on jack stands before working underneath it. Never rely solely on a jack.
- Disconnect the vehicle's battery before beginning work to prevent accidental electrical shorts.
- Handle brake fluid with care. It is corrosive and can damage paint and skin. Dispose of used brake fluid properly.
- Do not reuse old brake fluid. Always use new, clean brake fluid of the correct type specified by your vehicle manufacturer.

- Ensure all brake lines and fittings are clean and free of debris before installation.
- After installation, thoroughly bleed the brake system to remove all air. Air in the brake lines can cause brake failure.
- Test the brakes in a safe area at low speed before driving the vehicle normally.

3. Setup and Installation

This section outlines the general steps for installing the Cardone 18-B5303 brake caliper. Specific procedures may vary by vehicle model. Refer to your vehicle's service manual for detailed instructions.

Required Tools and Materials:

- Socket/Wrench Set
- Torque Wrench
- Brake Line Wrench
- Brake Fluid (new, correct type)
- Brake Cleaner
- Bleeder Wrench/Kit
- Drain Pan
- Wire Brush
- Shop Rags
- Personal Protective Equipment (PPE)

Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Loosen the lug nuts on the wheel where the caliper will be replaced. Raise the vehicle using a jack and secure it with jack stands. Remove the wheel.
2. **Remove Old Caliper:** Place a drain pan under the caliper to catch brake fluid. Using a brake line wrench, carefully disconnect the brake line from the old caliper. Be prepared for fluid to leak. Remove the caliper mounting bolts and slide the old caliper off the rotor.
3. **Inspect Components:** Inspect the brake hose for any cracks, bulges, or damage. Replace if necessary. Clean the caliper mounting bracket and ensure the slide pins move freely.
4. **Install New Caliper:** Ensure the new Cardone caliper is clean. Install new brake pads (not included with this unloaded caliper) into the caliper if applicable. Position the new caliper over the rotor and align it with the mounting bracket. Install the caliper mounting bolts and torque them to the vehicle manufacturer's specifications.
5. **Connect Brake Line:** Remove the plastic cap plug protecting the brake port thread on the new caliper. Carefully connect the brake line to the new caliper, ensuring it is not cross-threaded. Tighten the banjo bolt (if applicable) and brake line fitting to the specified torque. New banjo bolts are included where applicable.
6. **Bleed the Brake System:** This is a critical step. With the brake fluid reservoir full, open the bleeder screw on the new caliper. Have an assistant slowly press the brake pedal. Close the bleeder screw before the pedal reaches the floor. Repeat this process until no air bubbles are visible in the fluid exiting the bleeder screw. Maintain fluid level in the reservoir throughout the process.
7. **Final Assembly:** Reinstall the wheel and torque the lug nuts to specification. Lower the vehicle.

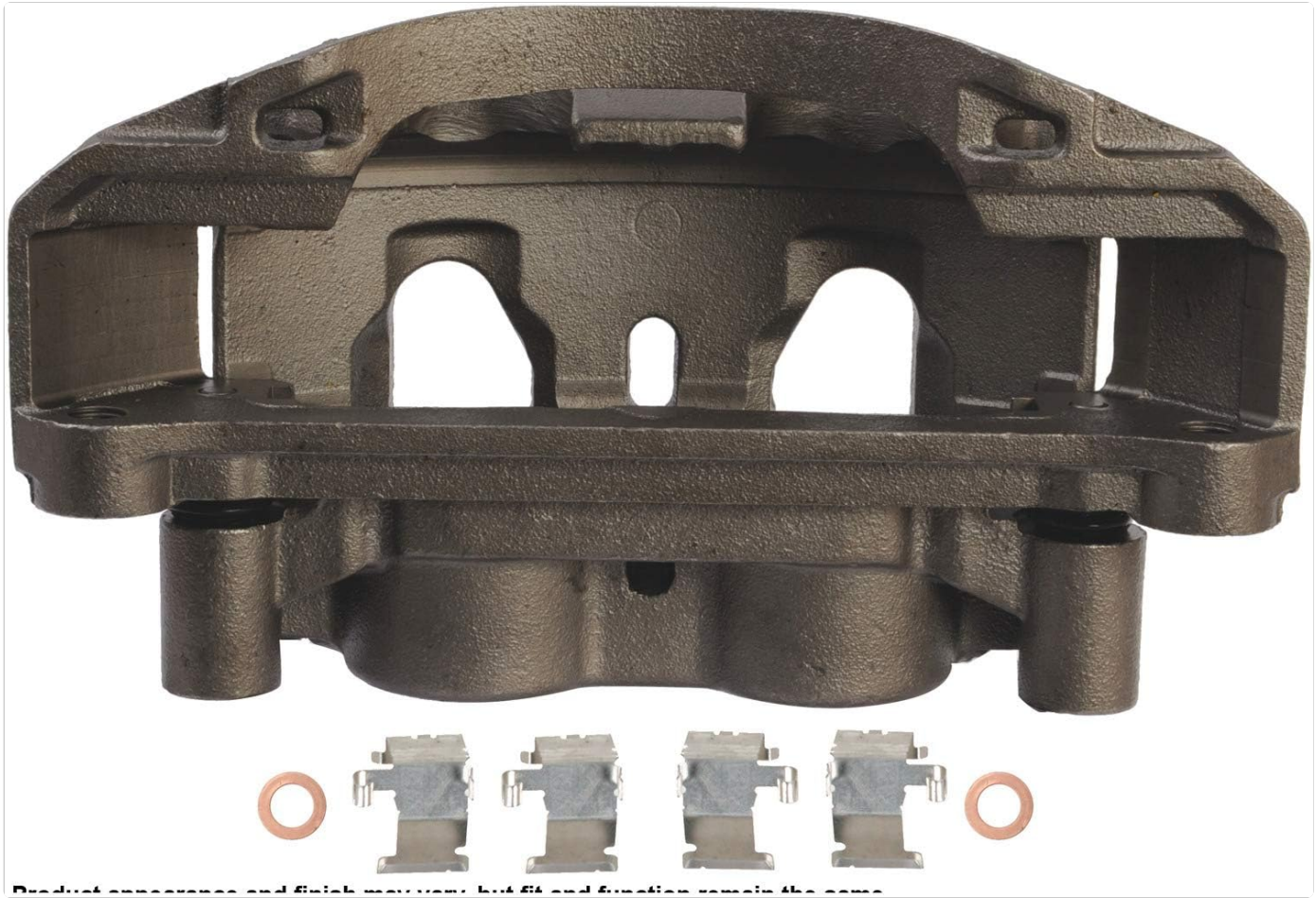


Figure 3.1: Front view of the Cardone 18-B5303 caliper, showing the main body and included hardware such as clips and washers.



Figure 3.2: Side view of the Cardone 18-B5303 caliper, highlighting the mounting points and the bleeder screw location.

4. Operating Considerations

Once installed, the Cardone 18-B5303 caliper operates as part of your vehicle's hydraulic brake system. Proper operation relies on a fully bled system and compatible brake pads.

Post-Installation Check:

- After installation and bleeding, pump the brake pedal several times to ensure a firm pedal feel.
- Check for any brake fluid leaks around the caliper, brake line connections, and bleeder screw.
- Drive the vehicle slowly in a safe, open area and test the brakes. The pedal should feel firm and the vehicle should stop smoothly and predictably.
- Avoid hard braking for the first 100-200 miles to allow new brake pads to properly bed-in with the rotor.

5. Maintenance

Regular inspection and maintenance of your brake system, including the calipers, are crucial for safety and longevity.

Recommended Maintenance Schedule:

- **Every Oil Change (or 5,000-7,500 miles):** Visually inspect brake pads for wear, rotors for scoring or warping, and calipers for leaks or damage. Check brake fluid level.
- **Every 2 Years (or 30,000 miles):** Consider flushing and replacing brake fluid. Brake fluid absorbs moisture over time, which can lead to corrosion and reduced braking performance.
- **As Needed:** If you notice any changes in braking performance (e.g., spongy pedal, pulling to one side, grinding noises), inspect the brake system immediately.

Cleaning:

Keep the exterior of the caliper clean to prevent buildup of dirt and road grime. Use a brake cleaner designed for automotive use. Avoid using harsh chemicals that could damage rubber components.

6. Troubleshooting

This section provides guidance for common issues that may arise with brake calipers. Always consult a qualified technician if you are unable to diagnose or resolve a problem safely.

Symptom	Possible Cause	Solution
Spongy Brake Pedal	Air in the brake lines; low brake fluid; faulty master cylinder.	Bleed the brake system thoroughly; check and top off brake fluid; inspect master cylinder.
Brake Pulls to One Side	Sticking caliper piston/slide pin; uneven brake pad wear; contaminated brake pad.	Inspect caliper for free movement; replace brake pads; clean or replace contaminated pads.
Grinding/Squealing Noise	Worn brake pads; foreign object; rotor damage.	Inspect and replace brake pads; remove foreign objects; inspect and replace rotors if damaged.
Brake Fluid Leak	Loose brake line fitting; damaged brake hose; faulty caliper seal.	Tighten fittings; inspect and replace brake hose; inspect caliper for damage (if new, contact support).

7. Specifications

Key specifications for the Cardone 18-B5303 Remanufactured Unloaded Disc Brake Caliper with Bracket.

- **Model Number:** 18-B5303
- **Brand:** Cardone

- **Manufacturer:** A1 Cardone
- **Item Weight:** 22.6 pounds
- **Product Dimensions:** 12.2 x 8.5 x 7.9 inches
- **Country of Origin:** China
- **Position:** Rear (as per product specifications)
- **Type:** Remanufactured Unloaded Disc Brake Caliper with Bracket

8. Warranty and Support

For information regarding warranty coverage or technical support for your Cardone 18-B5303 brake caliper, please refer to the warranty documentation included with your purchase or visit the official Cardone website. You may also contact Cardone customer service directly for assistance.
Manufacturer: A1 Cardone
Website: www.cardone.com
Contact: Refer to manufacturer's website for current contact information.

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