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Cardone 19-1388

Cardone 19-1388 Remanufactured Import Friction Ready (Unloaded) Brake Caliper Instruction Manual

Model: 19-1388

1. Introduction

This instruction manual provides essential information for the proper handling, installation, and maintenance of your Cardone 19-1388 Remanufactured Import Friction Ready (Unloaded) Brake Caliper. Adherence to these guidelines will ensure optimal performance and longevity of the product. This caliper is designed as a direct replacement for specific import vehicle applications.

2. Product Overview

The Cardone 19-1388 is a remanufactured brake caliper, engineered to meet or exceed original equipment (OE) standards. It is supplied as a friction-ready (unloaded) unit, meaning brake pads are not included and must be purchased separately. Key features include:

- **OE Fit:** Expertly remanufactured to guarantee a perfect vehicle fit.
- **Durability:** Pistons are designed for strength, resisting cracking or pitting under heavy loads. Calipers are treated with a rust inhibitor and maintain the original equipment finish.
- **Enhanced Seals:** Rubber seals are replaced with high-temperature EPDM rubber for extended life and optimal performance.
- **Complete Hardware:** New bleeder screws provide trouble-free bleeding and a positive seal. New washers and banjo bolts are included where applicable. Plastic cap plugs protect brake port threads.
- **Environmental Responsibility:** The remanufacturing process significantly reduces energy and raw material consumption compared to manufacturing new parts.



Image 2.1: Front view of the Cardone 19-1388 Remanufactured Brake Caliper, showing the bleeder screw and main body.

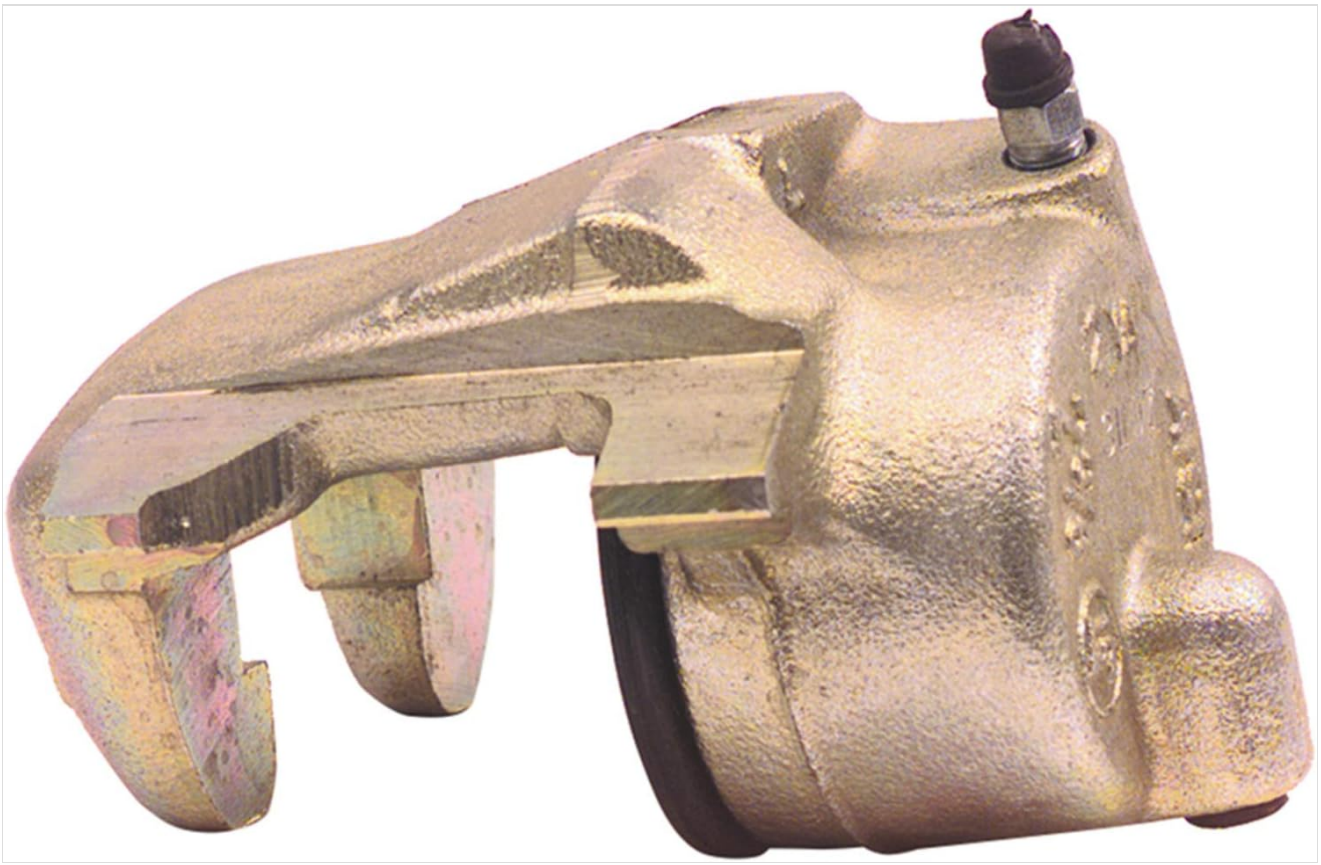


Image 2.2: Side view of the Cardone 19-1388 Remanufactured Brake Caliper, illustrating its overall shape and mounting points.

3. Safety Information

Working on vehicle braking systems requires specialized knowledge and tools. Improper installation or maintenance can lead to brake failure, resulting in serious injury or death. Always observe the following safety precautions:

- **Professional Installation Recommended:** If you are not experienced with automotive brake systems, it is strongly recommended to have this component installed by a certified professional mechanic.
- **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, flush immediately with water. Dispose of used brake fluid responsibly.
- **Cleanliness:** Maintain a clean work environment. Contaminants can compromise brake system integrity.
- **Torque Specifications:** Always use a torque wrench to tighten fasteners to the manufacturer's specified torque values.

4. Setup and Installation

This section provides general steps for installing a brake caliper. Refer to your vehicle's specific service manual for detailed instructions and torque specifications.

1. **Preparation:**
    - Park the vehicle on a level surface and engage the parking brake.
    - Loosen the lug nuts on the wheel to be serviced.
    - Raise the vehicle and secure it with jack stands. Remove the wheel.
    - Place a drain pan beneath the caliper to catch brake fluid.
2. **Removal of Old Caliper:**
    - Disconnect the brake line from the old caliper. Be prepared for fluid leakage.
    - Remove the caliper mounting bolts.
    - Carefully remove the old caliper and brake pads.
3. **Installation of New Caliper:**
    - Install new brake pads into the caliper bracket (pads are not included with this caliper).
    - Mount the new Cardone 19-1388 caliper onto the vehicle's mounting points.
    - Install and tighten the caliper mounting bolts to the vehicle manufacturer's specified torque.
    - Connect the brake line to the new caliper using the new banjo bolt and washers provided (if applicable). Tighten to specified torque.
    - Ensure all connections are secure and free from leaks.
4. **Bleeding the Brake System:**
    - Bleed the brake system to remove any air introduced during the installation process. Follow your vehicle's specific bleeding procedure.
    - Refill the master cylinder with new, clean brake fluid to the appropriate level.
5. **Final Checks:**

- Reinstall the wheel and tighten lug nuts.
- Lower the vehicle.
- Pump the brake pedal several times to ensure a firm pedal feel before driving.
- Test drive the vehicle in a safe area at low speed to confirm proper brake function.

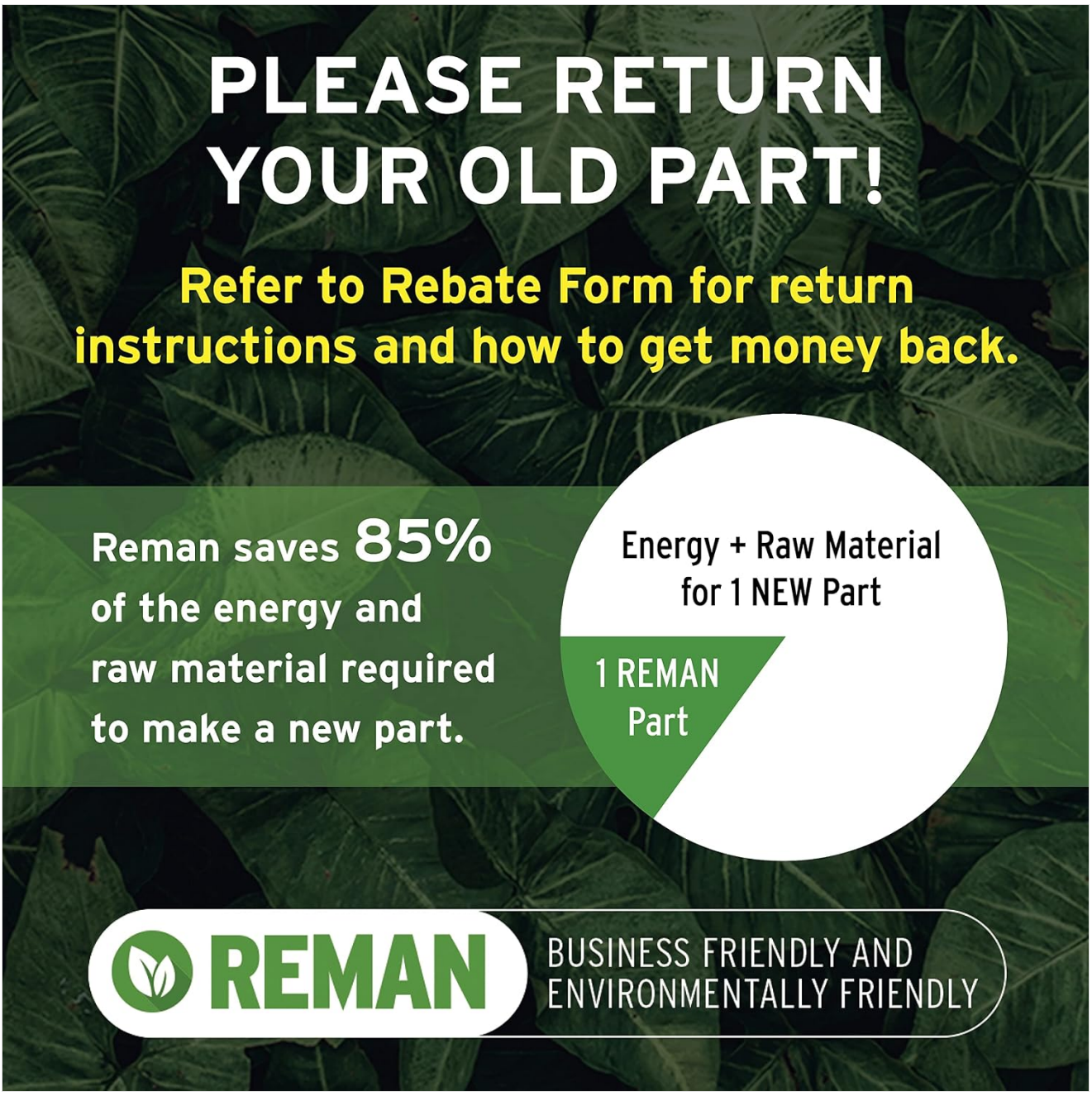


Image 4.1: Information regarding the environmental benefits of remanufactured parts and the importance of returning the old core.

5. Operation

Once properly installed, the brake caliper functions as a critical component of your vehicle's hydraulic braking system. When the brake pedal is pressed, hydraulic pressure from the master cylinder forces the caliper piston(s) to clamp the brake pads against the brake rotor, creating friction that slows or stops the vehicle. Proper operation relies on a fully bled system, correctly installed pads, and a healthy brake fluid level.

6. Maintenance

Regular inspection and maintenance of your braking system are crucial for safety and performance. While the

Cardone 19-1388 caliper is designed for durability, other components require attention:

- **Brake Pad Inspection:** Regularly check brake pad thickness. Replace pads when they reach their minimum specified thickness.
- **Brake Fluid Level:** Check the brake fluid level in the master cylinder reservoir periodically and top up with the correct fluid type as needed.
- **Brake Fluid Condition:** Brake fluid absorbs moisture over time, which can reduce braking performance and corrode internal components. Consult your vehicle's service manual for recommended brake fluid flush intervals.
- **Rotor Inspection:** Inspect brake rotors for excessive wear, scoring, or warping. Replace or resurface as necessary.
- **Leak Detection:** Periodically inspect brake lines, hoses, and calipers for any signs of fluid leaks. Address leaks immediately.
- **Caliper Movement:** Ensure the caliper slides freely on its pins (if applicable) and that the piston operates smoothly. Lubricate slide pins with appropriate brake grease during pad changes.

7. Troubleshooting

If you experience issues with your braking system after caliper installation, consider the following common problems and potential solutions:

Symptom	Possible Cause	Solution
Soft or Spongy Brake Pedal	Air in the brake lines; low brake fluid level.	Bleed the brake system thoroughly; check and refill master cylinder.
Brake Noise (Squealing, Grinding)	Worn brake pads; improper pad installation; contaminated pads/rotors; worn rotors.	Inspect and replace pads; ensure proper installation; clean components; inspect rotors.
Vehicle Pulls to One Side During Braking	Uneven brake pad wear; sticking caliper piston or slide pins; contaminated brake fluid.	Inspect pads and calipers; lubricate slide pins; flush brake fluid.
Brake Fluid Leakage	Loose brake line connection; damaged brake hose; faulty caliper seal.	Tighten connections; inspect and replace damaged components.

If troubleshooting steps do not resolve the issue, consult a qualified mechanic.

8. Specifications

The following specifications apply to the Cardone 19-1388 Remanufactured Import Friction Ready (Unloaded) Brake Caliper:

- **Model Number:** 19-1388
- **Brand:** Cardone
- **Type:** Remanufactured Import Friction Ready (Unloaded) Brake Caliper
- **Position:** Rear (as per OEM Part Number 4775026010, 4775026030)
- **Item Weight:** Approximately 6.43 pounds (2.92 kg)
- **Product Dimensions:** Approximately 7.88 x 6.13 x 5.25 inches (20.02 x 15.57 x 13.34 cm)

- **Manufacturer:** A1 Cardone

9. Warranty Information

For specific warranty terms and conditions applicable to the Cardone 19-1388 Remanufactured Brake Caliper, please refer to the documentation provided with your purchase or visit the official Cardone website. Warranty coverage typically addresses defects in materials and workmanship under normal use and service.

10. Support

If you require technical assistance, have questions regarding installation, or need to report a product issue, please contact Cardone customer support directly. Contact information can typically be found on the product packaging or the official Cardone website. When contacting support, please have your product model number (19-1388) and purchase details readily available.

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