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Cardone 19-1399

Cardone 19-1399 Remanufactured Brake Caliper Instruction Manual

Model: 19-1399 | Brand: Cardone

Product Overview

The Cardone 19-1399 Remanufactured Import Friction Ready (Unloaded) Brake Caliper is an expertly remanufactured automotive component designed to meet rigorous quality and performance standards. It is equipped with brand-new, premium components to ensure longevity and reliability. Each unit is 100% pressure-tested for consistent, industry-leading brake performance and includes new hardware for installation.

Key Features:

- **Guaranteed Vehicle Fit:** As a remanufactured Original Equipment part, this unit ensures a perfect vehicle fit.
- **Durable Pistons:** Pistons are designed to be durable, resistant to cracking or pitting, and capable of handling significant loads.
- **Rust Inhibitor Treatment:** Calipers are treated with a special formulated rust inhibitor and maintain the original equipment finish.
- **High-Temperature Seals:** Rubber seals are replaced with high-temperature EPDM rubber for extended life and optimum performance.
- **Trouble-Free Bleeding:** New bleeder screws provide trouble-free bleeding and a positive seal, with new washers included where applicable.
- **Eco-Friendly Remanufacturing:** The remanufacturing process reduces energy and raw material needed for new parts by 80%.



Figure 1: Front view of the Cardone 19-1399 Remanufactured Brake Caliper, showing the main body and mounting points.

Setup and Installation

Proper installation is crucial for the safe and effective operation of your brake caliper. Aluminum calipers, while functionally similar to cast iron calipers, require extra care during installation due to aluminum being a softer metal. Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

Important Considerations for Aluminum Calipers:

- **Banjo Bolt Installation:** The steel banjo bolt, which connects the brake hose to the caliper inlet, must be threaded in straight. Hand-tighten for the first 5 to 7 turns to ensure proper alignment before using a wrench.
- **Bleeder Valve Installation:** Similar care should be taken when installing or removing the steel bleeder valve.
- **Avoid Overtightening:** Overtightening steel components into the aluminum casting can lead to cross-threading and stripping of the aluminum, which voids the warranty. Always use a torque wrench and adhere to the manufacturer's specified torque values.

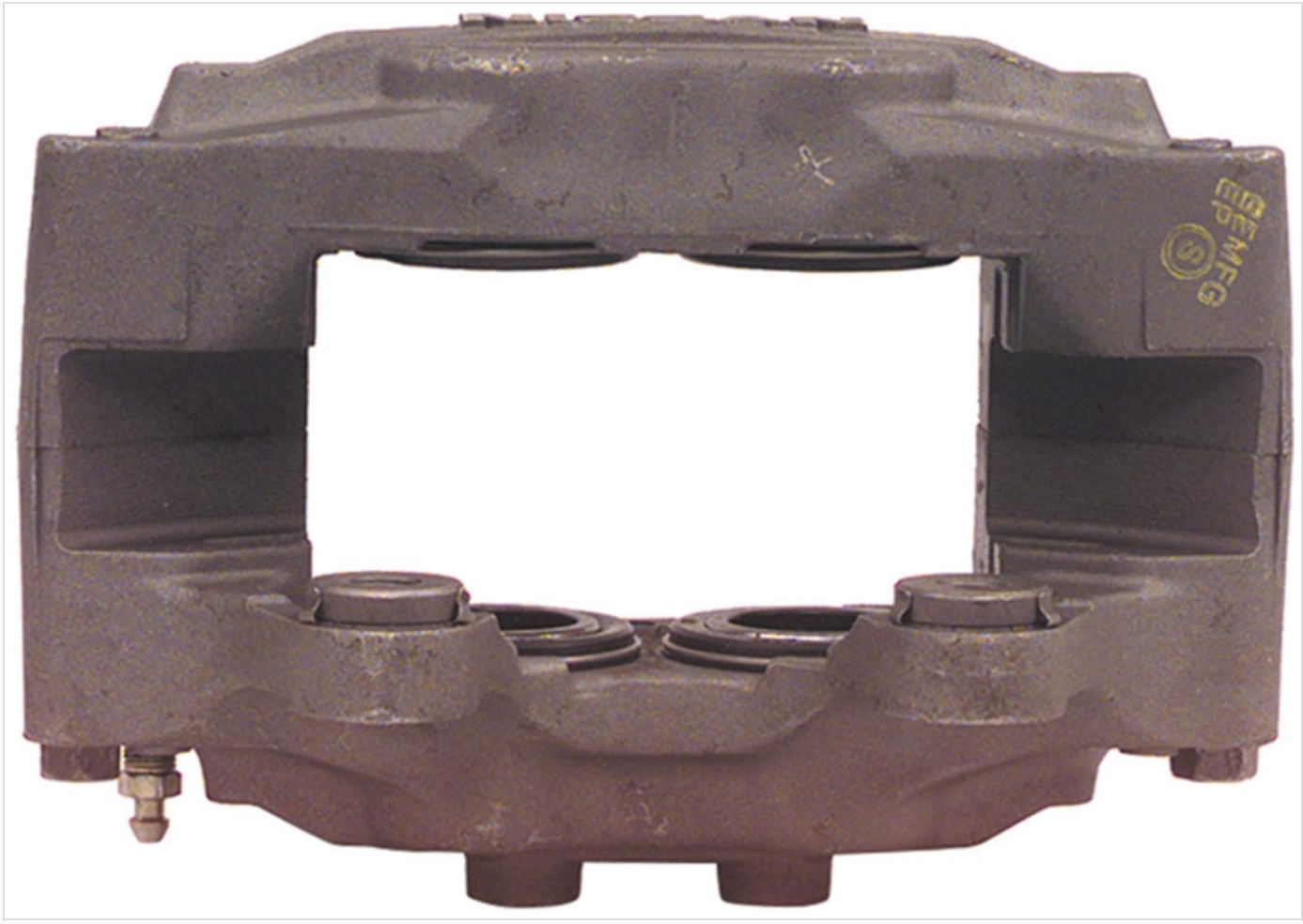


Figure 2: Side view of the brake caliper, highlighting the piston bore where brake pads engage.

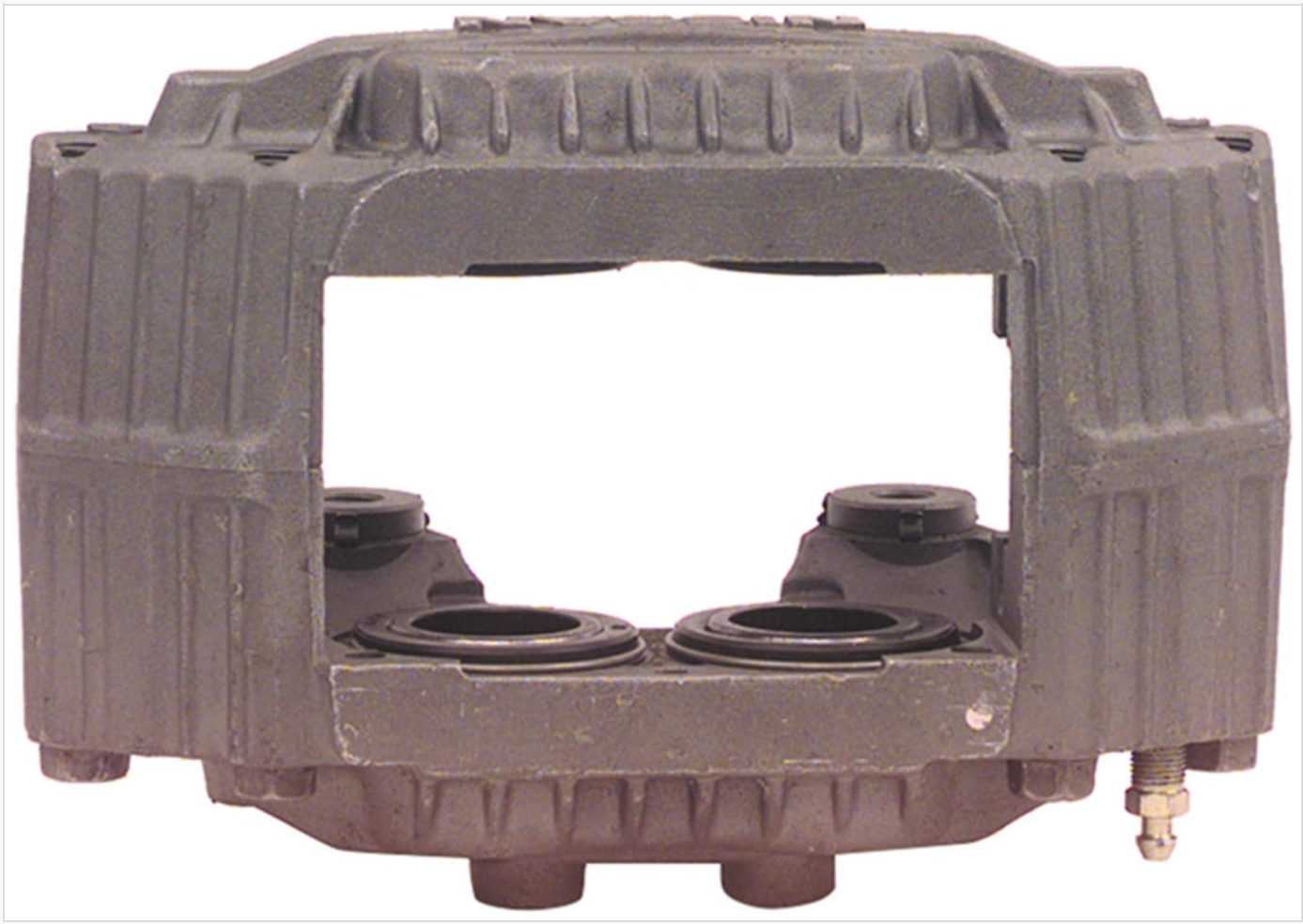


Figure 3: Opposite side view of the brake caliper, showing additional structural details.

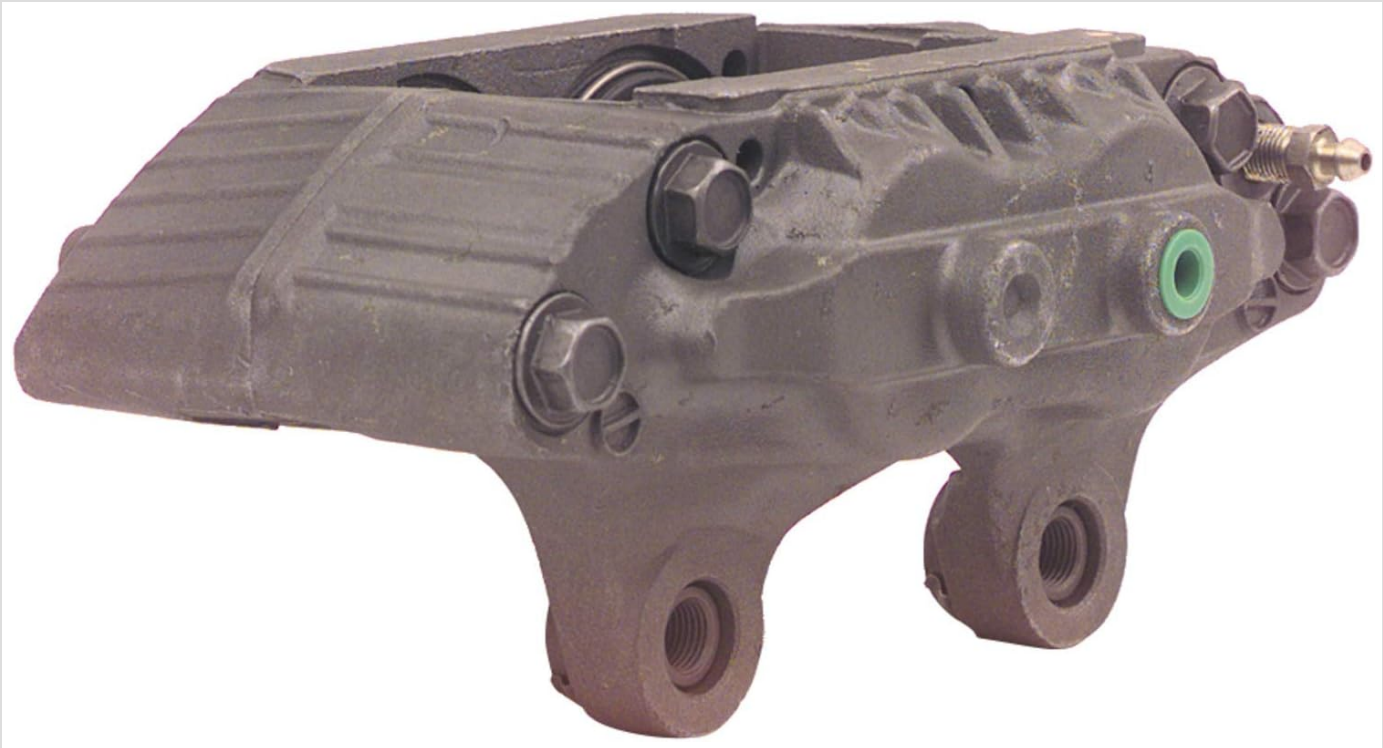


Figure 4: Angled view of the brake caliper, providing a comprehensive look at its design.

Installation Video:

For a visual guide on installing aluminum brake calipers and important tips to avoid common issues, please refer to the official video below:

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Video: Tips for Installing Aluminum Brake Calipers by Cardone Industries Inc. This video provides essential guidance on handling and installing aluminum brake calipers, emphasizing proper threading and torque to prevent damage.

Operating Principles

The Cardone 19-1399 brake caliper is 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's piston(s) to extend. This extension pushes the brake pads against the rotor, creating friction that slows or stops the vehicle. The remanufactured caliper is designed to restore original equipment performance and ensure reliable braking.

Maintenance

Regular inspection and maintenance of your vehicle's braking system are essential for safety and longevity. While the caliper itself is a sealed unit, its performance relies on the overall health of the brake system.

- **Brake Fluid Checks:** Periodically check brake fluid levels and condition. Replace fluid according to your vehicle manufacturer's recommendations.
- **Brake Pad Inspection:** Inspect brake pads for wear during tire rotations or at least annually. Replace pads when they reach their minimum thickness.
- **Rotor Inspection:** Check brake rotors for excessive wear, warping, or scoring.
- **Hose and Line Inspection:** Inspect brake hoses and lines for cracks, leaks, or damage.
- **Bleeder Valve Integrity:** Ensure the bleeder valve remains sealed and free from leaks.

Troubleshooting

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

- **Soft Brake Pedal / Spongy Brakes:** This often indicates air in the brake lines. Ensure proper bleeding procedures were followed.
- **Brake Fluid Leakage:** Check all connections, especially the banjo bolt and bleeder valve. Leaks can occur if these components are cross-threaded or not properly torqued. Refer to the installation section for proper handling of aluminum caliper threads.
- **Uneven Brake Wear:** Could indicate a sticking caliper piston or improper installation.
- **Noise (Squealing, Grinding):** Often related to brake pads or rotors, but can sometimes be a sign of a caliper issue if the pads are not moving freely.

Warning: Any issues with braking performance should be addressed immediately by a qualified technician. Do not operate the vehicle with compromised brakes.

Specifications

Attribute	Value
Manufacturer	A1 Cardone
Brand	Cardone
Model	Brake Caliper
Item Model Number	19-1399
Item Weight	6.78 pounds
Product Dimensions	9.56 x 7.25 x 5.25 inches
Position	Rear (Note: Product title specifies Front Passenger Side, please verify for your application)
OEM Part Number	4100140P00RE, 4100145P00RE
What's in the Box	Brake Caliper

Warranty Information

Cardone remanufactured products are backed by a warranty. Please note that damage to the aluminum casting due to cross-threading or overtightening of steel components (such as banjo bolts or bleeder valves) will **VOID THE WARRANTY**. Always follow proper installation procedures and torque specifications to ensure warranty coverage.
For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official Cardone website.

Support

For further assistance, technical support, or to inquire about specific vehicle applications, please contact Cardone customer service or visit their official website. Always provide your product model number (19-1399) when seeking support.
Online Resources: Refer to official Cardone ProTech videos and guides for additional installation tips and product information.

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