

Carlson 16055

Carlson Quality Brake Parts 16055 Front Pin Boot Kit

Instruction Manual

1. INTRODUCTION

The Carlson Quality Brake Parts 16055 Front Pin Boot Kit is designed to replace worn or damaged rubber boots on your vehicle's front brake caliper slide pins. These boots are critical components that protect the slide pins from contaminants like dirt, moisture, and road salt, ensuring smooth caliper movement and proper brake function. Regular inspection and replacement of these boots are essential for maintaining brake system integrity and safety.

2. SAFETY INFORMATION

Always prioritize safety when working on vehicle brake systems. Improper installation or maintenance can lead to brake failure and serious injury. If you are unsure about any step, consult a qualified automotive technician.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before beginning any work. Do not rely solely on a jack.
- Allow brake components to cool completely before handling.
- Use only brake-specific lubricants that are compatible with rubber components. Petroleum-based greases can damage rubber boots.
- Keep all brake fluids and chemicals away from skin and eyes. Dispose of them responsibly.

3. PRODUCT OVERVIEW AND COMPONENTS

The Carlson 16055 kit includes the necessary rubber boots for your front brake caliper slide pins. The exact number and type of boots may vary slightly depending on the specific caliper design, but typically includes accordion-style boots for the main slide pins and potentially smaller cylindrical seals.



Image 1: Carlson Quality Brake Parts 16055 Front Pin Boot Kit components.

This image displays the complete set of components included in the Carlson Quality Brake Parts 16055 Front Pin Boot Kit. It features four larger, accordion-shaped rubber boots designed to protect brake caliper slide pins, and two smaller, cylindrical rubber pieces, likely for additional sealing or specific pin types. These parts are crucial for maintaining the integrity and smooth operation of the brake caliper system.

Included Components:

- Rubber Boots for Front Brake Caliper Slide Pins
- Associated Hardware (as specified by Carlson)

4. SETUP AND INSTALLATION

This section outlines the general procedure for replacing front brake caliper pin boots. Specific steps may vary by vehicle make and model. Refer to your vehicle's service manual for detailed instructions.

Required Tools and Materials:

- Socket/Wrench Set
- Brake Caliper Grease (rubber-compatible)
- Wire Brush or Abrasive Pad
- Clean Rags
- Jack and Jack Stands
- Wheel Chocks

Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and chock the rear wheels. Loosen the lug nuts on the front wheel(s) to be serviced. Raise the front of the vehicle using a jack and secure it with jack stands. Remove the wheel.
2. **Access Caliper:** Locate the brake caliper. Depending on your vehicle, you may need to remove the caliper mounting

bolts to access the slide pins.

- 3. **Remove Old Boots and Pins:** Carefully remove the old, deteriorated rubber boots from the caliper and slide pins. Extract the slide pins from the caliper. Note the orientation of the old boots, as new boots may be directional.
- 4. **Clean Components:** Thoroughly clean the slide pins and the bores within the caliper where the pins reside. Use a wire brush or abrasive pad to remove any rust, corrosion, or old grease. Ensure all surfaces are clean and smooth.
- 5. **Lubricate Pins and Bores:** Apply a generous amount of brake caliper grease (specifically designed for rubber components) to the slide pins and inside the caliper bores. This lubrication is crucial for smooth caliper movement and preventing future seizing.
- 6. **Install New Boots:** Carefully slide the new Carlson 16055 boots onto the slide pins. Ensure the boots are correctly oriented and seated tightly over the grooves or edges of both the pin and the caliper housing. The boots must form a complete seal to prevent contamination.
- 7. **Reassemble Caliper:** Insert the lubricated slide pins with the new boots into the caliper bores. Ensure the caliper can slide freely on the pins. Reinstall the caliper mounting bolts and torque them to the manufacturer's specifications.
- 8. **Final Steps:** Reinstall the wheel, lower the vehicle, and torque the lug nuts to specification. Pump the brake pedal several times to ensure proper caliper engagement before driving. Test the brakes at low speed in a safe area.

5. FUNCTION AND PURPOSE

The Carlson 16055 Front Pin Boot Kit serves a vital role in the proper functioning of your vehicle's disc brake system. The rubber boots act as protective seals for the brake caliper slide pins. These pins allow the brake caliper to float and move freely, ensuring that both inner and outer brake pads make even contact with the rotor when the brakes are applied. Without intact boots, dirt, water, and road debris can enter the slide pin bores, leading to corrosion and seizing of the pins. Seized pins can cause uneven brake pad wear, reduced braking efficiency, pulling to one side during braking, and premature brake component failure.

6. MAINTENANCE

Proper maintenance of your brake caliper pin boots is crucial for longevity and performance.

- **Regular Inspection:** Inspect the brake caliper boots for cracks, tears, or signs of deterioration during every brake service or tire rotation. Any damage compromises their sealing ability.
- **Lubrication:** It is recommended to pull and lubricate the slide pins with appropriate brake caliper grease during every brake pad replacement or at least annually. This prevents seizing and ensures smooth operation.
- **Prompt Replacement:** If any boot shows signs of damage, replace the entire kit promptly. Do not attempt to repair damaged boots.

7. TROUBLESHOOTING

Issues related to brake caliper slide pin boots often manifest as brake performance problems.

Symptom	Possible Cause	Solution
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Symptom	Possible Cause	Solution
Uneven brake pad wear (one pad worn more than the other)	Seized or sticking caliper slide pins due to damaged boots or lack of lubrication.	Inspect and replace damaged boots. Clean and lubricate slide pins. Replace seized pins if necessary.
Vehicle pulls to one side during braking	One caliper not functioning correctly due to seized slide pins.	Inspect and replace damaged boots. Clean and lubricate slide pins. Ensure caliper moves freely.
Squealing or grinding noise from brakes	Uneven pad contact or excessive wear due to caliper issues.	Check slide pins and boots. Address any seizing or damage. Replace brake pads if worn.
Rubber boots appear cracked, torn, or swollen	Age, exposure to elements, or incompatible lubricants.	Replace the entire boot kit. Ensure proper, rubber-compatible grease is used for new installation.

8. SPECIFICATIONS

Attribute	Detail
Brand	Carlson
Model Number	16055
Item Weight	0.01 ounces (approximately 0.025 kilograms)
Product Dimensions	3.5 x 3 x 1.5 inches (approximately 9.2 x 8.0 x 4.0 cm)
Position	Front
Included Components	HARDWARE (Brake Pin Boots)
Country of Origin	China
Assembly Required	No (refers to the kit itself, installation is required)

9. WARRANTY AND SUPPORT

For specific warranty information regarding the Carlson Quality Brake Parts 16055 Front Pin Boot Kit, please refer to the packaging or contact Carlson directly through their official website or customer service channels. Keep your proof of purchase for any warranty claims.

For technical support or further assistance with installation, it is recommended to consult a certified automotive technician or refer to your vehicle's specific service manual.

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