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› [Carlson](#) /

› Carlson Caliper Bolt and Pin - 14181 Instruction Manual

Carlson 14181

Carlson Caliper Bolt and Pin - 14181 Instruction Manual

Model: 14181 | Brand: Carlson

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of the Carlson Caliper Bolt and Pin, Model 14181. Please read these instructions thoroughly before proceeding with any installation or service to ensure safety and optimal performance.

2. PRODUCT OVERVIEW

The Carlson Caliper Bolt and Pin (Model 14181) is a critical component designed for automotive brake systems. These parts secure the brake caliper, ensuring its correct alignment and function. Proper installation is vital for vehicle safety and braking efficiency.



Figure 2.1: Image showing the Carlson Caliper Bolt and Pin set. The set includes two silver-colored pins and two gold-colored bolts, each with a hexagonal head.

2.1. Package Contents

- Carlson Caliper Bolt and Pin (Model 14181)

- Quantity: Typically includes a set for one caliper (e.g., two bolts and two pins).



Figure 2.2: Underside view of the Carlson Caliper Bolt and Pin set, showing the threaded ends of the bolts and the internal threading of the pins.

2.2. Product Dimensions and Weight

- Item Weight: 6.8 ounces
- Product Dimensions: 3.5 x 3 x 1.5 inches
- Package Dimensions: 4.064 H x 9.652 L x 7.874 W (centimetres)
- Package Weight: 0.45 pounds



Figure 2.3: Image showing the Carlson product packaging, a black box with the Carlson logo, held in a hand to illustrate its compact size. Dimensions are indicated as 3.2 inches or 8 cm.

3. SPECIFICATIONS

Feature	Detail
Brand	Carlson
Model Number	14181
Fastener Type	Hexagon Bolt
Head Style	Hex
Thread Size	3/8"-16 UNC
Size	3/8 in
Exterior Finish	Machined

Feature	Detail
Manufacturer Grade	Grade 2
Item Hardness	Grade 2
Metal Type	Alloy Steel, Carbon Steel
Thread Type	Unc
Thread Style	Right Hand
Thread Class	1A
Position	Front
Country of Origin	China

4. INSTALLATION

Important Safety Notice: Brake system components are critical for vehicle safety. Improper installation can lead to serious injury or vehicle damage. It is highly recommended that installation be performed by a qualified automotive technician. If you are not experienced with brake system repairs, consult a professional.

4.1. Required Tools and Materials

- Vehicle service manual for specific torque specifications and procedures
- Appropriate wrenches or sockets
- Torque wrench
- Brake cleaner
- High-temperature grease (specific for brake components)
- Jack and jack stands
- Wheel chocks
- Safety glasses and gloves

4.2. General Installation Steps

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and place wheel chocks. Loosen lug nuts, then raise the vehicle with a jack and secure it with jack stands. Remove the wheel.
2. **Access the Caliper:** Consult your vehicle's service manual for specific instructions on how to safely access and remove the brake caliper. This typically involves removing the caliper mounting bolts.
3. **Remove Old Components:** Carefully remove the old caliper bolts and pins. Inspect the caliper and mounting bracket for any damage or wear. Clean the mounting surfaces thoroughly with brake cleaner.
4. **Lubricate New Components:** Apply a thin, even coat of high-temperature brake grease to the new Carlson Caliper Bolts and Pins where they slide within the caliper bracket. Ensure not to get grease on the brake pads or rotor.
5. **Install New Components:** Insert the new Carlson Caliper Bolts and Pins into their respective positions. Ensure they slide freely without binding.
6. **Reassemble Caliper:** Reattach the brake caliper to the mounting bracket. Tighten the caliper bolts to the torque specifications provided in your vehicle's service manual using a torque wrench. **Do not overtighten.**
7. **Final Checks:** Reinstall the wheel, lower the vehicle, and tighten lug nuts to factory specifications. Pump the brake pedal several times to restore pressure before driving. Test the brakes at low speed in a safe area.

Always refer to your vehicle's specific service manual for detailed, model-specific instructions and torque values.

5. MAINTENANCE

Regular inspection of your brake system components, including caliper bolts and pins, is crucial for safety and longevity. During routine brake service (e.g., pad replacement), inspect these components for:

- **Corrosion:** Rust or corrosion can impede movement and lead to premature wear.
- **Wear:** Check for any signs of bending, scoring, or excessive wear on the pins and bolts.
- **Lubrication:** Ensure that the slide pins are properly lubricated and move freely. Re-lubricate with appropriate high-temperature brake grease as needed.
- **Damage:** Look for any cracks, stripped threads, or other physical damage.

Replace any damaged or excessively worn components immediately. Adhere to your vehicle manufacturer's recommended service intervals for brake system checks.

6. TROUBLESHOOTING

Issues related to caliper bolts and pins often manifest as brake noise or uneven pad wear.

- **Brake Noise (e.g., clunking, rattling):** This can indicate loose or improperly lubricated caliper pins, allowing the caliper to move excessively. Inspect and re-lubricate or replace as necessary. Ensure all bolts are torqued to specification.
- **Uneven Brake Pad Wear:** Sticking or seized caliper pins can prevent the caliper from floating correctly, leading to uneven pressure on the brake pads. This requires immediate inspection, cleaning, lubrication, or replacement of the pins.
- **Difficulty Installing:** If the bolts or pins do not thread or slide smoothly, do not force them. Check for correct part application, damaged threads on the caliper or bracket, or manufacturing defects.

If you experience any brake system issues, consult a qualified automotive technician immediately.

7. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation included with your purchase or visit the official Carlson website. For technical support or inquiries, please contact Carlson customer service directly.

Carlson Official Website: [Visit the Carlson Store on Amazon](#)

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