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› ACDelco Professional 18K1863 Front Disc Brake Caliper Bolt Instruction Manual

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Model: 18K1863

1. PRODUCT OVERVIEW

The ACDelco Professional 18K1863 Front Disc Brake Caliper Bolt is a high-quality replacement component designed for your vehicle's braking system. This bolt is crucial for securing the brake caliper hose in place, ensuring proper brake function and safety.

Key features include:

- Performs to standards required by OE manufacturers, ensuring optimal protection, service life, and safety.
- Includes necessary hardware for easy installation.
- Thoroughly manufactured to meet expectations for fit, form, and function.



Figure 1: ACDelco Professional 18K1863 Front Disc Brake Caliper Bolt.

2. SPECIFICATIONS

Brand	ACDelco
Model Number	18K1863
Part Number	19264073
Material	Alloy Steel
Thread Size	16 mm
Exterior Finish	Cadmium, Silver
Head Style	Hex

Fastener Type	Hexagon Bolt
Thread Type	Unc
Thread Style	Right Hand
Item Hardness	Grade 2
Item Weight	0.43 Pounds
Included Components	Brake Caliper Bolt

3. SETUP AND INSTALLATION

This section provides general guidance for installing the ACDelco Professional 18K1863 Front Disc Brake Caliper Bolt. Professional installation is recommended for brake system components.

3.1 Safety Precautions

- Always wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before working underneath.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- Do not work on hot brake components. Allow the system to cool down.

3.2 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 brake caliper bolt will be replaced.
2. **Lift and Secure:** Safely lift the vehicle and support it with jack stands. Remove the wheel.
3. **Access the Caliper:** Locate the existing brake caliper bolts. Depending on your vehicle, you may need to remove other components to gain access.
4. **Remove Old Bolt:** Carefully remove the old caliper bolt. Be prepared for the caliper to shift slightly once the bolt is removed.
5. **Inspect Components:** Inspect the caliper, caliper bracket, and brake hose for any signs of wear, damage, or corrosion. Replace any worn components as necessary.
6. **Install New Bolt:** Insert the new ACDelco Professional 18K1863 Front Disc Brake Caliper Bolt. Ensure it is properly aligned with the caliper and mounting points.
7. **Torque to Specification:** Tighten the caliper bolt to the torque specification provided in your vehicle's service manual. **Do not overtighten.**
8. **Reassemble:** Reinstall any components removed for access, reattach the wheel, and lower the vehicle.
9. **Test Brakes:** Before driving, pump the brake pedal several times to ensure proper brake pressure. Test the brakes at low speed in a safe area.

Your browser does not support the video tag.

Video 1: Product Overview of ACDelco Caliper Bolts. This video demonstrates the physical characteristics and general application of ACDelco caliper bolts, including the 16mm thread size variant.

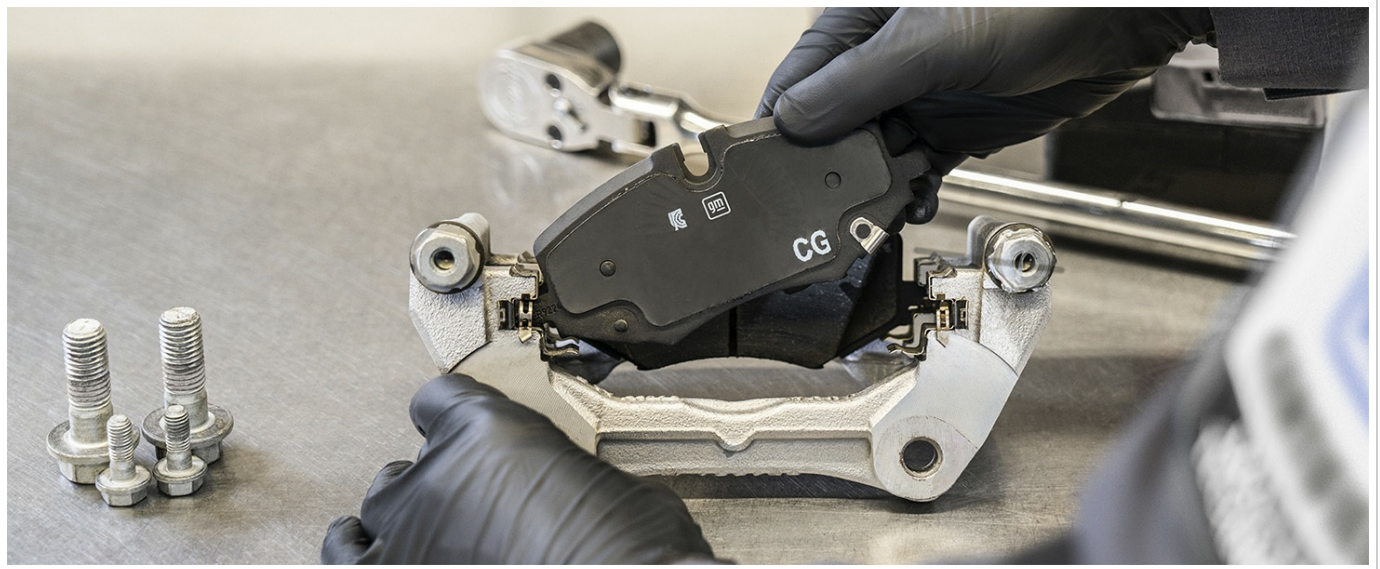


Figure 2: Illustration of brake calipers, where the caliper bolt is installed.

4. OPERATING PRINCIPLES

The disc brake caliper bolt secures the brake caliper to the vehicle's steering knuckle or caliper bracket. This connection is vital for the proper functioning of the disc brake system. When the brake pedal is pressed, hydraulic pressure forces the caliper piston(s) to push the brake pads against the rotor, creating friction that slows or stops the vehicle. The caliper bolt ensures the caliper remains in its correct position, allowing for consistent and effective braking.



Figure 3: A brake caliper, which the bolt secures.

5. MAINTENANCE

Regular inspection of brake components, including caliper bolts, is essential for vehicle safety and performance. While the caliper bolt itself requires minimal maintenance, its surrounding components do.

- **Periodic Inspection:** During routine brake inspections or tire rotations, check caliper bolts for tightness, corrosion, or damage.
- **Lubrication:** Ensure that caliper slide pins (if applicable to your caliper design) are properly lubricated with high-temperature brake grease to allow the caliper to float freely.
- **Cleanliness:** Keep brake components free from excessive dirt, rust, and brake dust, which can impede proper function.
- **Replacement:** If a caliper bolt shows signs of wear, stretching, or damage, replace it immediately with a new, appropriate part like the ACDelco Professional 18K1863.

6. TROUBLESHOOTING

Issues related to brake caliper bolts often manifest as brake noise or improper braking. If you experience any of the following, inspect your caliper bolts and the entire brake system:

- **Clunking or Rattling Noise:** Loose caliper bolts can cause the caliper to move excessively, leading to noise, especially over bumps or during braking.
- **Uneven Brake Pad Wear:** If a caliper bolt is seized or damaged, it can prevent the caliper from moving correctly, leading to uneven brake pad wear.
- **Reduced Braking Performance:** A compromised caliper bolt can affect the caliper's ability to apply even pressure to the brake pads, resulting in reduced braking efficiency.
- **Brake Fluid Leaks:** While less common for the bolt itself, if the bolt secures a brake hose, a loose or damaged bolt could contribute to a leak.

If you suspect a problem with your brake caliper bolts or any other brake component, it is recommended to have your vehicle inspected by a qualified mechanic.

7. WARRANTY AND SUPPORT

The ACDelco Professional 18K1863 Front Disc Brake Caliper Bolt comes with a **24 Month / Unlimited Mile Limited Warranty** on parts sold on or after 04/01/18. This warranty covers parts only.

For more detailed warranty information and support, please visit the official ACDelco website: [ACDelco.com](https://www.acdelco.com).

For technical assistance or inquiries, please contact ACDelco customer support.

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