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> [Akebono ACT1089A Ultra-Premium Ceramic Front Disc Brake Pads Installation and Maintenance Guide](#)

Akebono ACT1089A

Akebono ACT1089A Ultra-Premium Ceramic Front Disc Brake Pads

Installation and Maintenance Guide

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Akebono ACT1089A Ultra-Premium Ceramic Front Disc Brake Pads. Adhering to these instructions will help ensure optimal performance and longevity of the product. These brake pads are designed for specific vehicle applications and are intended for use as front disc brake components.



Image 1.1: Akebono ACT1089A Ultra-Premium Ceramic Front Disc Brake Pads. This image displays the brake pads and associated hardware included in the package.

2. SAFETY INFORMATION

WARNING: Brake system work should only be performed by qualified personnel. Improper installation can lead to brake failure, resulting in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning work.
- Never work under a vehicle supported only by a jack.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- Brake dust may contain asbestos or other hazardous materials. Avoid inhaling dust and use appropriate cleaning methods.
- Do not reuse old brake hardware unless explicitly stated by the manufacturer.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- Akebono ACT1089A Ultra-Premium Ceramic Front Disc Brake Pads (set for one axle)
- Installation hardware (e.g., shims, clips, grease) -*Contents may vary; refer to packaging.*



Image 3.1: Example of Akebono ProAct Brakes packaging. The package contains the brake pads and necessary hardware for installation.

4. INSTALLATION

This section outlines general steps for front disc brake pad replacement. Always consult your vehicle's specific service manual for detailed instructions and torque specifications.

Required Tools:

- Jack and jack stands
- Lug wrench
- Socket set and ratchet
- C-clamp or brake caliper piston compression tool
- Wire brush
- Brake cleaner
- High-temperature brake lubricant (included or purchased separately)

Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the rear wheels. Loosen the front wheel lug nuts slightly.
2. **Lift and Secure:** Jack up the front of the vehicle and support it securely with jack stands. Remove the front wheels.
3. **Remove Caliper:** Locate the brake caliper. Remove the two caliper guide pin bolts (or slide bolts) that secure the caliper to the caliper bracket. Carefully lift the caliper off the rotor and support it with a wire or bungee cord to avoid stressing the brake hose. *Do not let the caliper hang by the brake hose.*
4. **Remove Old Pads:** Remove the old brake pads from the caliper bracket. Note their orientation.
5. **Inspect and Clean:** Inspect the brake rotor for excessive wear, scoring, or warping. Replace if necessary. Clean the caliper bracket thoroughly with a wire brush and brake cleaner, removing any rust or debris.
6. **Lubricate Hardware:** Apply a thin layer of high-temperature brake lubricant to the new caliper guide pins and any contact points on the caliper bracket where the brake pads slide. Install new hardware clips if provided.

7. **Compress Piston:** Use a C-clamp or brake caliper piston compression tool to slowly push the caliper piston(s) back into the caliper bore. This creates space for the new, thicker brake pads.
8. **Install New Pads:** Install the new Akebono ACT1089A brake pads into the caliper bracket, ensuring they are correctly seated and oriented.
9. **Reinstall Caliper:** Carefully lower the caliper over the new pads and rotor. Reinstall the caliper guide pin bolts and tighten them to the manufacturer's specified torque.
10. **Repeat for Other Side:** Repeat the process for the other front wheel.
11. **Final Steps:** Reinstall the wheels and tighten lug nuts hand-tight. Lower the vehicle and torque the lug nuts to the manufacturer's specifications.
12. **Pump Brakes:** Before driving, slowly pump the brake pedal several times until a firm pedal feel is achieved. This seats the pads against the rotor and restores proper brake fluid pressure. Check the brake fluid reservoir and top off if necessary.



Image 4.1: Automotive wrenches, representing the tools required for brake pad installation.

5. OPERATING (BRAKE PAD BREAK-IN PROCEDURE)

Proper break-in (also known as bedding-in) is crucial for optimal performance and longevity of your new brake pads. Follow these steps carefully:

1. **Initial Stops:** Perform 10-15 moderate stops from approximately 30 mph (50 km/h) down to about 5 mph (8 km/h). Allow a short cooling period between each stop. Avoid coming to a complete stop during this phase.
2. **Cool Down:** Drive for several minutes at a moderate speed without heavy braking to allow the pads and rotors to cool down.
3. **Avoid Hard Braking:** For the first 200-300 miles (320-480 km) after installation, avoid sudden, hard braking or prolonged heavy braking (e.g., towing, mountain driving). This allows the pad material to fully transfer to the rotor surface, creating an even friction layer.

During the break-in period, you may notice a slight odor or reduced braking performance. This is normal. If excessive smoke or a burning smell persists, pull over safely and allow the brakes to cool before proceeding.

6. MAINTENANCE

Regular inspection and maintenance of your brake system are vital for safety and performance.

- **Routine Inspection:** Inspect brake pads, rotors, calipers, and brake fluid levels at least twice a year or every 10,000 miles (16,000 km), whichever comes first.

- **Pad Wear:** Replace brake pads when the friction material wears down to the minimum thickness specified by your vehicle manufacturer (typically 2-3 mm). Akebono pads often include wear indicators that will produce a squealing sound when replacement is needed.
- **Rotor Condition:** Check rotors for excessive wear, deep grooves, cracks, or warping. Replace or resurface rotors as needed.
- **Brake Fluid:** Ensure brake fluid is at the proper level and is clean. Consult your vehicle manual for recommended brake fluid type and replacement intervals.
- **Caliper Operation:** Ensure calipers slide freely and pistons retract properly. Lubricate guide pins as part of routine maintenance.

7. TROUBLESHOOTING

This section addresses common issues that may arise with brake pads.

Symptom	Possible Cause	Solution
Squealing/Grinding Noise	Worn brake pads (wear indicator) Improper installation (lack of lubrication, incorrect shims) Contamination (dirt, debris) Rotor surface issues	Inspect and replace pads if worn Re-lubricate contact points and guide pins Clean brake components Inspect/replace rotors
Vibration/Pulsation	Warped or unevenly worn rotors Improper break-in Loose wheel bearings or suspension components	Inspect/replace rotors Ensure proper break-in procedure was followed Inspect suspension components
Soft/Spongy Brake Pedal	Air in the brake lines Low brake fluid level Faulty master cylinder or caliper	Bleed the brake system Check and top off brake fluid Inspect and replace faulty components

If you encounter persistent issues or are unsure about any troubleshooting steps, consult a certified automotive technician.

8. SPECIFICATIONS

- **Brand:** Akebono
- **Model:** ACT1089A (Ultra-Premium)
- **Material:** Ceramic
- **Auto Part Position:** Front
- **Vehicle Service Type:** Car
- **Specification Met:** OEM
- **Item Weight:** Approximately 3 pounds
- **Product Dimensions:** Approximately 8 x 5 x 3.75 inches (packaging)
- **UPC:** 821726005205
- **Automotive Fit Type:** Vehicle Specific Fit

9. WARRANTY AND SUPPORT

Akebono stands behind the quality of its products. For specific warranty information, please refer to the documentation included with your purchase or visit the official Akebono website. For technical support or inquiries, please contact Akebono customer service through their official channels.

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