CMX KCX-100011

CMX Front Rear Ceramic Brake Pads Kit Instruction Manual

Model: KCX-100011 | Brand: CMX

1. Product Overview

The CMX Front Rear Ceramic Brake Pads Kit, model KCX-100011, is designed to provide optimal braking performance, reliability, and safety for your vehicle. This kit includes high-performance ceramic brake pads for both front and rear axles, engineered to meet the demands of various automotive applications. CMX brake components are developed with advanced materials and manufacturing processes to ensure durability, quiet operation, and consistent stopping power.

2. Compatibility and Fitment

This brake pad kit is specifically designed for the following vehicle applications:

- **2018-2022 Jeep Cherokee** (With Single Piston Front Caliper)
- **2015-2017 Chrysler 200** (With 330mm Diameter Front Rotor)

It is crucial to verify your vehicle's specific caliper type and rotor diameter to ensure proper fitment before installation. Refer to the image below for visual confirmation of compatible vehicles.

Figure 2.1: Vehicle Compatibility Notice. This image displays the specific vehicle models and their configurations that are compatible with the CMX KCX-100011 brake pad kit.

3. Key Features

The CMX Ceramic Brake Pads incorporate several advanced features for enhanced performance and longevity:

- **Exclusive CeramiX High-Density Ceramic Compound:** Provides optimal braking performance with stable friction and high-temperature stability. This compound is designed to maintain low dust and noise levels while offering extended lifetime durability.

Figure 3.1: CeramiX Compound. This image highlights the benefits of the exclusive CeramiX High-Density Ceramic compound, emphasizing optimal braking performance, low dust, and quiet operation.

- **Rubberized Multi-Layer Stainless Steel Shim:** An innovative shim design with a rubber core that significantly reduces noise, vibration, and harshness (NVH) for a quiet braking experience.

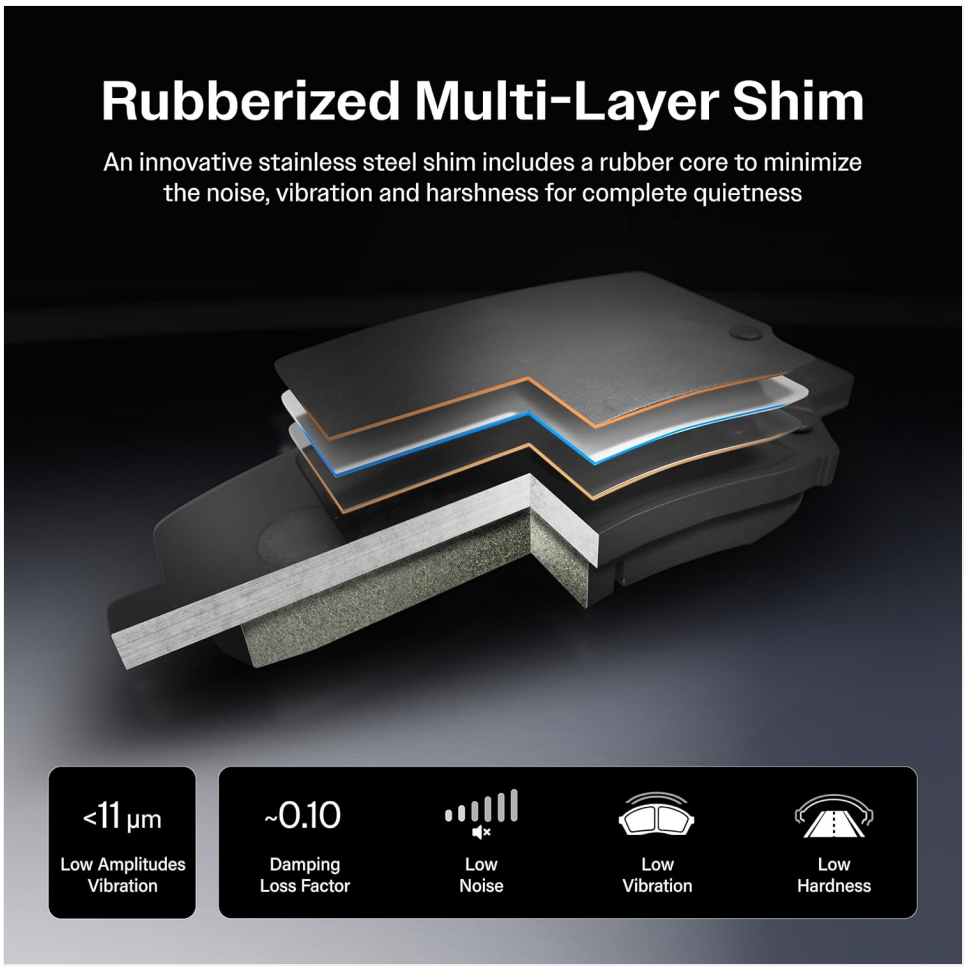

Figure 3.2: Multi-Layer Shim. This image illustrates the construction of the rubberized multi-layer stainless steel shim, designed to minimize noise, vibration, and harshness.

- **High Carbon SteelRX Alloy Plate with Anti-Rust Black Paint:** Engineered with a pressure-resistant and thermal conductive alloy, further protected by an anti-rust black paint for increased durability and corrosion protection.

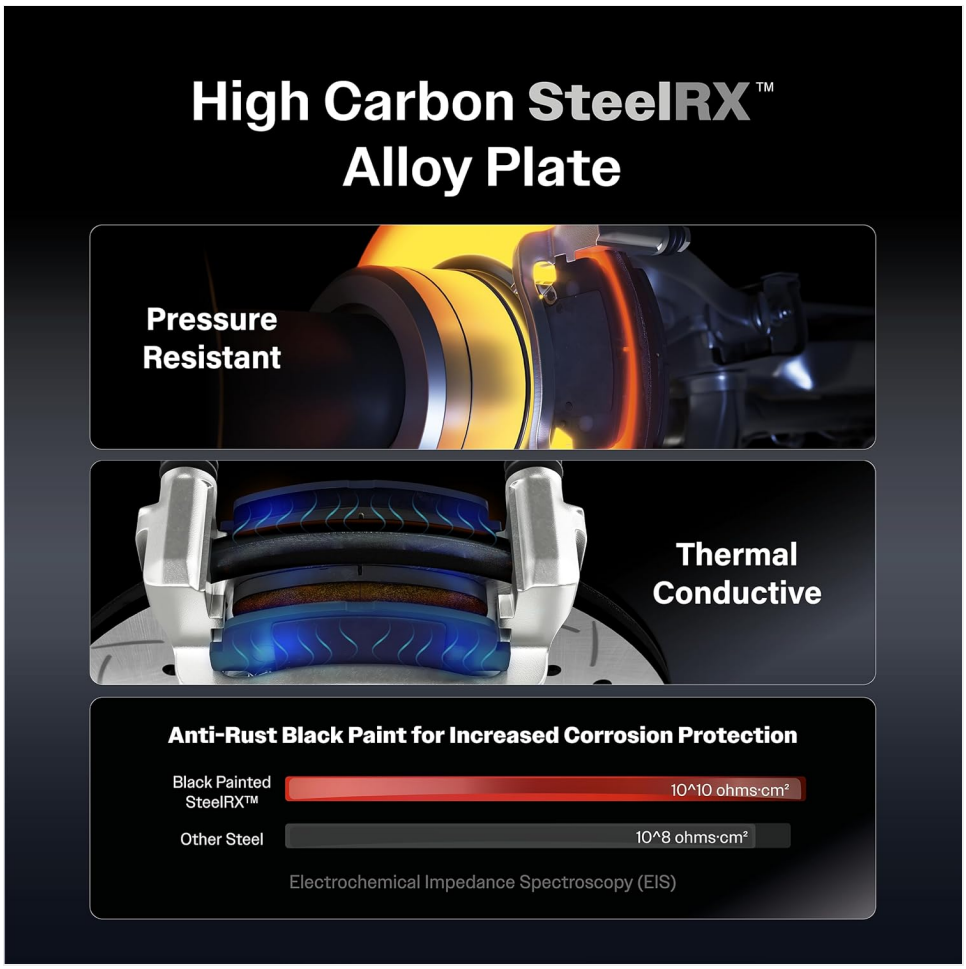

Figure 3.3: SteelRX Alloy Plate. This image details the High Carbon SteelRX alloy plate, highlighting its pressure resistance, thermal conductivity, and anti-rust black paint for enhanced durability.

- **Proprietary One-Piece Integral Molding Technology:** This manufacturing process improves the overall durability of the brake pads and extends their service life.

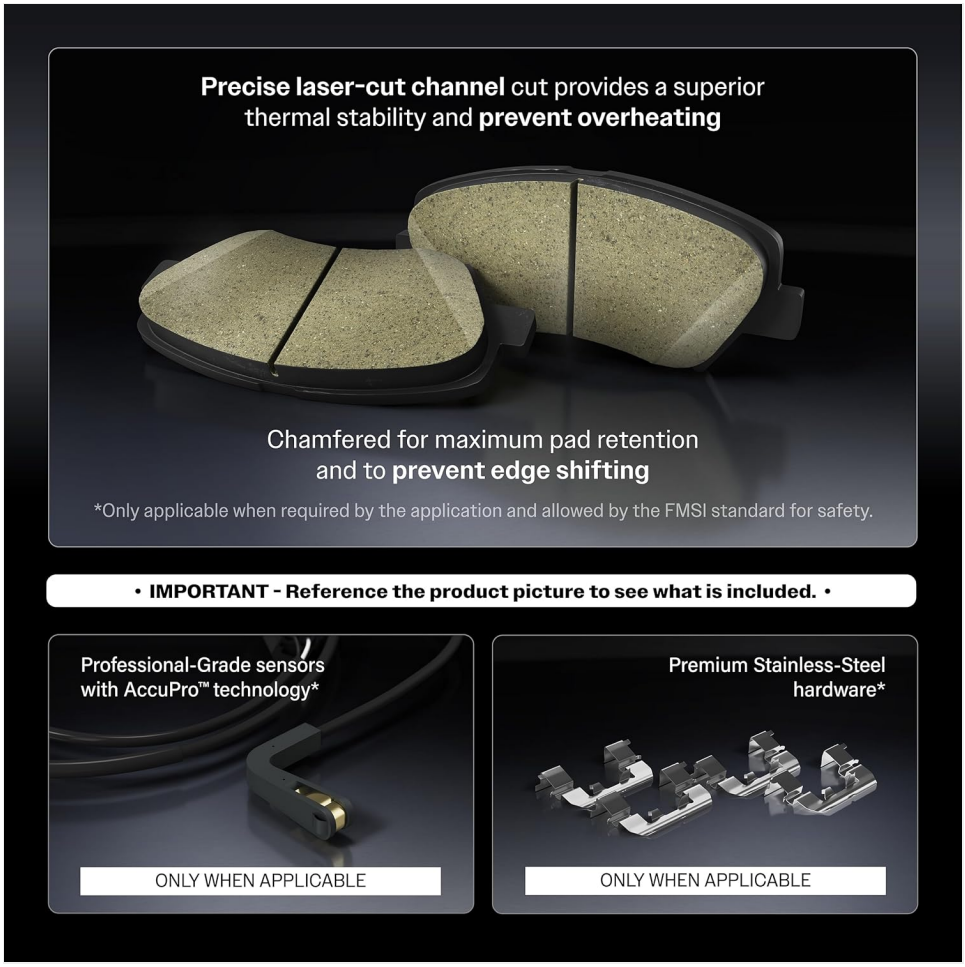

Figure 3.4: Integral Molding Technology. This image explains the proprietary One-Piece Integral Molding Technology, which contributes to increased durability and extended service life of the brake pads.

- **Scorched Contact Surface:** The pre-scorched surface reduces the required break-in process, raises initial cold effectiveness, and enhances pad-to-rotor contact for immediate optimal performance.

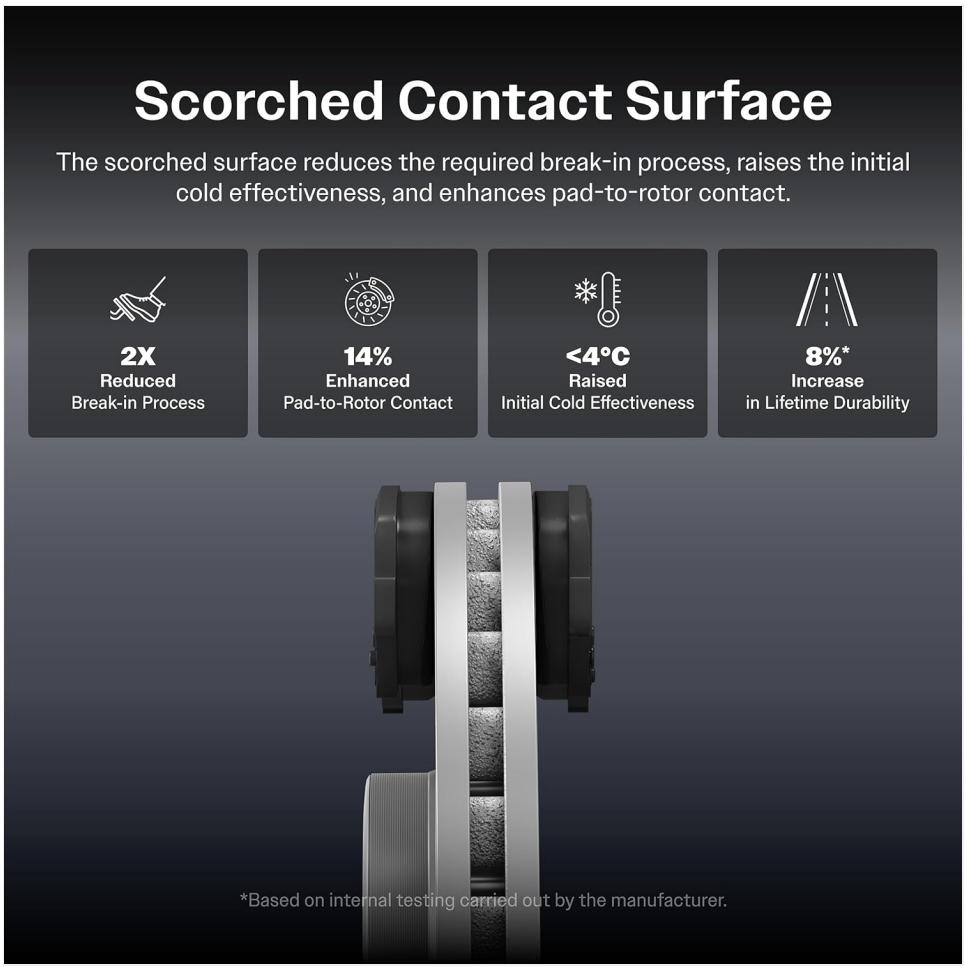

Figure 3.5: Scorched Contact Surface. This image demonstrates the advantages of the scorched surface, including reduced break-in time, enhanced pad-to-rotor contact, and improved cold effectiveness.

- **Precise Laser-Cut Channel Cut and Chamfered Edges:** Provides superior thermal stability and prevents overheating. Chamfered edges ensure smooth and gradual initial engagement on the rotor surface, preventing edge shifting.

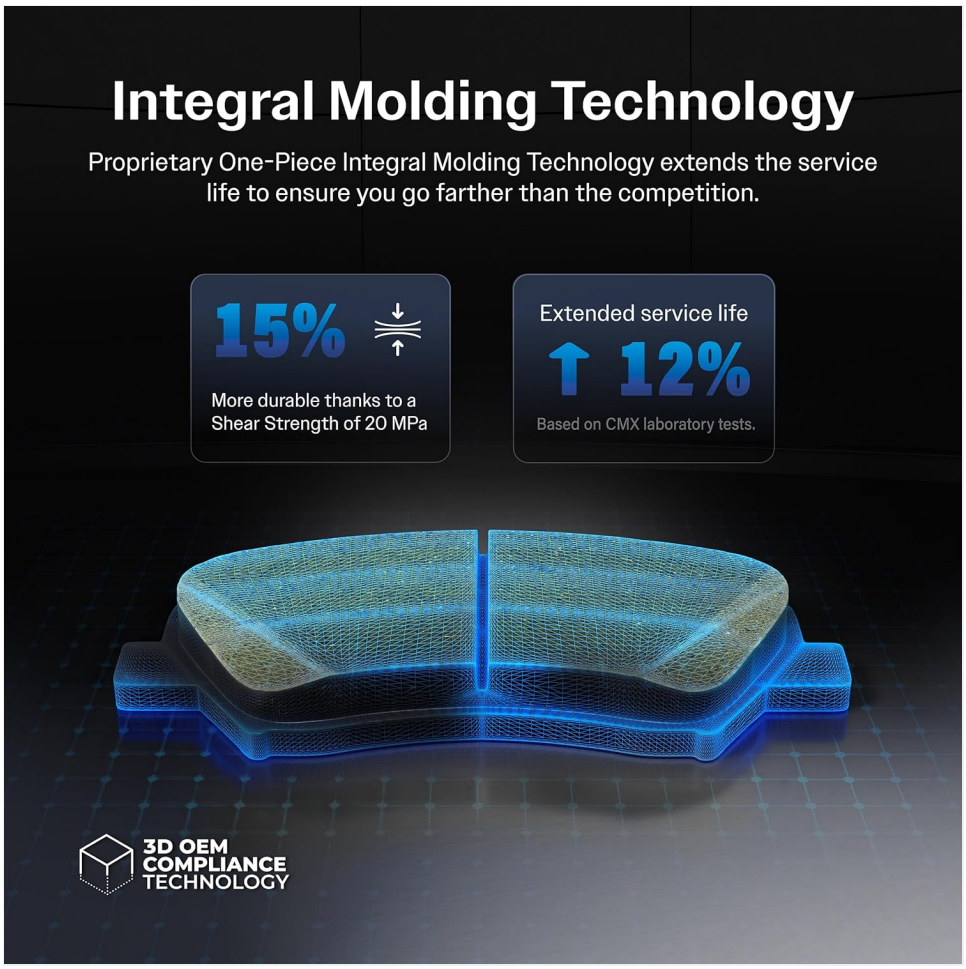

Figure 3.6: Laser-Cut and Chamfered Design. This image illustrates the precise laser-cut channel and chamfered edges of the brake pads, which contribute to superior thermal stability and smooth rotor engagement.

4. What's Included (Kit Contents)

The CMX Front Rear Ceramic Brake Pads Kit KCX-100011 includes the following components:

- 1x Front Ceramic Brake Pad Set (Hardware Included)
- 1x Rear Ceramic Brake Pad Set (Hardware Included)

The included hardware typically consists of clips and shims necessary for installation. Refer to the image below for a visual representation of the kit contents.

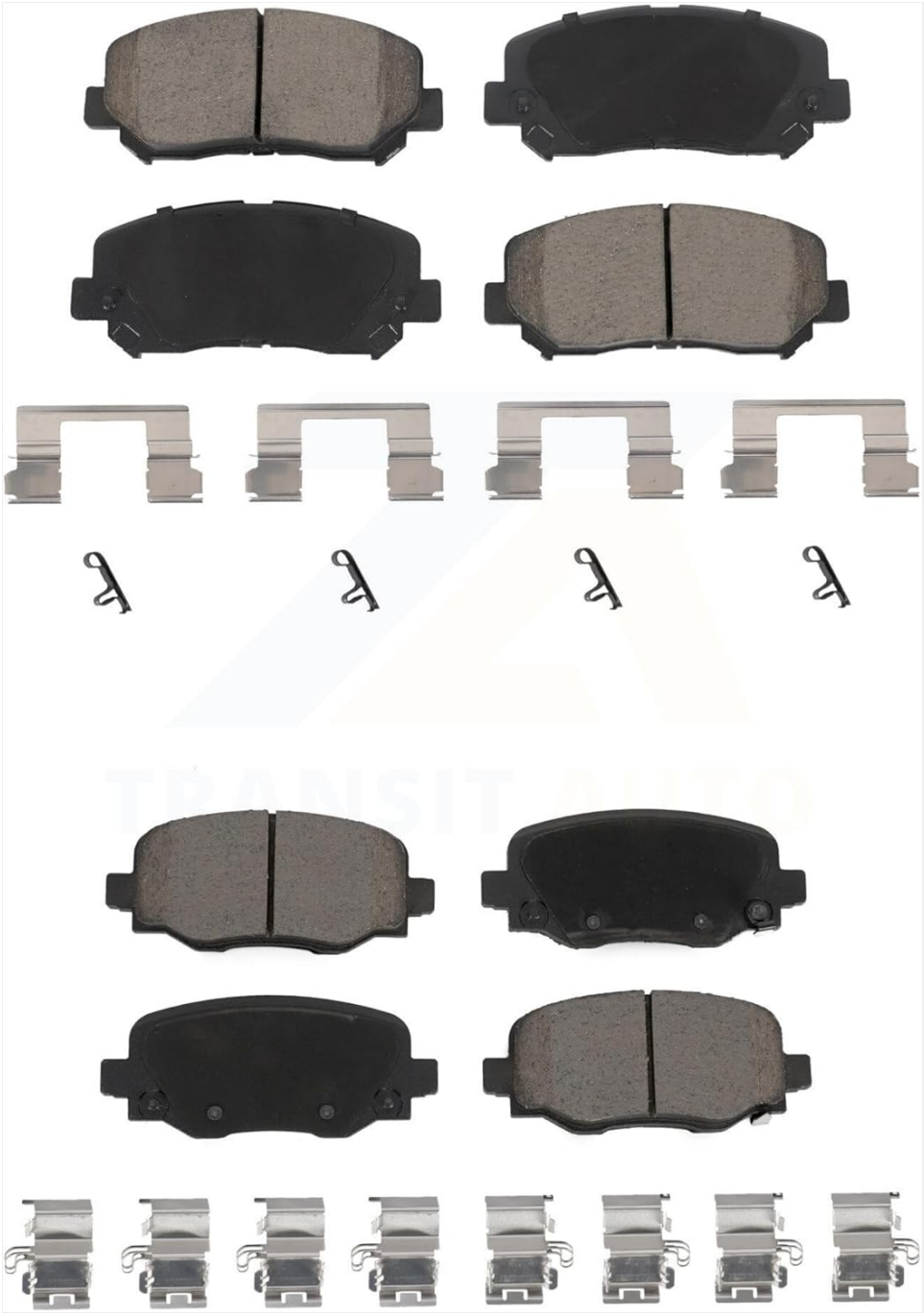

Figure 4.1: Kit Contents. This image displays the full contents of the CMX Front Rear Ceramic Brake Pads Kit, including both front and rear pad sets and associated hardware.

5. Installation Instructions

Disclaimer: Brake system work requires specialized knowledge and tools. Improper installation can lead to brake failure, serious injury, or death. If you are not confident in your ability to perform this installation safely and correctly, it is highly recommended to seek assistance from a certified automotive technician.

5.1. Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely lifted and supported on jack stands on a level surface. Never rely solely on a jack.
- Allow the brake system to cool down before beginning work.
- Do not open the brake fluid reservoir cap unless necessary to avoid contamination.

5.2. General Installation Steps (Consult a Service Manual for Your Specific Vehicle)

1. **Preparation:**

- Park the vehicle on a level surface and engage the parking brake.
- Loosen lug nuts on the wheels to be serviced.
- Lift the vehicle and secure it with jack stands. Remove the wheels.

2. **Brake Disassembly:**
   - Locate the brake caliper and remove the caliper mounting bolts.
   - Carefully remove the caliper from the rotor and suspend it using a wire or bungee cord to avoid stressing the brake hose. Do not let it hang by the hose.
   - Remove the old brake pads and any existing hardware (shims, clips).
   - Inspect the brake rotor for wear, scoring, or warping. Replace or resurface if necessary.
3. **Caliper Preparation:**
   - Clean the caliper and caliper bracket thoroughly, removing any rust or debris.
   - Compress the caliper piston(s) back into the caliper bore. For vehicles with rear disc brakes, a special tool (e.g., a brake caliper piston tool) may be required to screw the piston back in, as noted in user experiences.
   - Apply a thin layer of high-temperature brake lubricant to caliper slide pins and contact points where the pads will rest.
4. **New Pad Installation:**
   - Install the new hardware (clips/shims) provided with the CMX kit onto the caliper bracket. Ensure they are seated correctly.
   - Insert the new CMX ceramic brake pads into the caliper bracket, ensuring they slide freely.
   - Reinstall the brake caliper onto the bracket and tighten the mounting bolts to the manufacturer's specified torque.
5. **Final Steps:**
   - Reinstall the wheels and tighten lug nuts hand-tight.
   - Lower the vehicle and torque the lug nuts to the vehicle manufacturer's specifications.
   - Before driving, pump the brake pedal several times until it feels firm. This will seat the caliper pistons against the new pads.
   - Check the brake fluid level and top off if necessary.
6. **Brake Pad Break-in (Bedding-in) Procedure:**

   Although CMX pads are scorched for a reduced break-in, a proper bedding-in procedure is still recommended to optimize performance and longevity. Consult your vehicle's service manual or a reputable brake bedding guide for detailed steps. A common procedure involves a series of moderate stops from varying speeds, allowing the brakes to cool between cycles.

6. Maintenance

Regular inspection and maintenance of your brake system are crucial for safety and performance. It is recommended to:

- Inspect brake pads, rotors, and calipers during tire rotations or at least every 12,000 miles (20,000 km).
- Check brake fluid level and condition regularly.
- Listen for unusual noises (squealing, grinding) which may indicate worn pads or other brake issues.
- Address any changes in brake pedal feel (spongy, hard, pulsating) immediately.

7. Troubleshooting

This section addresses common issues that may arise after brake pad installation. If problems persist, consult a qualified mechanic.

Symptom	Possible Cause	Solution
Squealing/Grinding Noise	Improper break-in, missing/incorrect hardware, caliper issues, rotor issues, or foreign debris.	Perform proper break-in procedure. Verify all hardware is correctly installed. Inspect calipers and rotors for damage or wear. Clean brake components.
Vibration/Pulsation during Braking	Warped rotors, uneven pad wear, or loose caliper components.	Inspect rotors for runout or warping; replace if necessary. Ensure caliper bolts are torqued correctly.
Poor Braking Performance	Improper break-in, air in brake lines, contaminated pads, or incorrect installation.	Re-perform break-in. Bleed brake lines. Inspect pads for contamination (oil, grease). Recheck installation steps.
Hardware Fitment Issues	Variations in vehicle models or manufacturing tolerances.	Ensure correct part number for your specific vehicle configuration. If minor discrepancies, compare with original hardware and use original if superior fit. Contact CMX support if significant issues.

8. Specifications

Attribute	Detail
Brand	CMX
Model	KCX-100011
Material	Ceramic
Auto Part Position	Front and Rear
Specification Met	OEM
Manufacturer	Transit
Item Weight	6.71 pounds
UPC	827098992068
Part Reference Numbers	1640C D1640C 8966 9003 SG8966X PF8966X AD8966 SS8966X D1640A 1640A 8958 SG8958X PF8958X AD8958 SS8958X D1734 1734

9. Warranty and Support

9.1. Warranty Information

CMX provides a **Limited Lifetime Warranty** against manufacturer defects for this product. This warranty covers defects in materials and workmanship under normal use and service. For specific terms, conditions, and limitations of the warranty, please refer to the official CMX warranty policy or contact CMX customer support.

9.2. Customer Support

For technical assistance, warranty claims, or any questions regarding your CMX brake pads, please contact CMX customer

support through their official website or the retailer from whom the product was purchased. When contacting support, please have your product model number (KCX-100011) and purchase information readily available.