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> 1409KMT Active Radiator Grille Shutter User Manual for Chevrolet Silverado 1500 (2019-2023), Model KMT-OT002450

## 1409KMT KMT-OT002450

# 1409KMT Active Radiator Grille Shutter User Manual

Model: KMT-OT002450 for Chevrolet Silverado 1500 (2019-2023)

## INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your 1409KMT Active Radiator Grille Shutter, Model KMT-OT002450. This product is designed as a direct replacement for the original active grille shutter in 2019-2023 Chevrolet Silverado 1500 and GMC Sierra 1500 models, specifically for Extended and Crew Cab configurations with 5.3L and 6.2L engines. It ensures proper fitment and functionality, contributing to your vehicle's optimal performance.

## SAFETY INFORMATION

Always observe the following safety precautions during installation and maintenance:

- Ensure the vehicle is turned off and the battery is disconnected before beginning any installation work to prevent electrical hazards.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Work in a well-lit and ventilated area.
- If you are unsure about any step of the installation process, consult a qualified automotive technician. Professional installation is highly recommended.
- Keep all tools and small parts away from children.

## PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- 1x 1409KMT Active Radiator Grille Shutter (Plastic Made AGS)

*Note: Additional fasteners or clips required for installation are typically reused from the original component or purchased separately if damaged.*

## SPECIFICATIONS

Brand	1409KMT
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<b>Model Number</b>	KMT-OT002450
<b>Vehicle Service Type</b>	Truck
<b>Installation Type</b>	Insert
<b>Color</b>	Black
<b>Material</b>	Plastic
<b>Compatible Vehicles</b>	<ul style="list-style-type: none"><li>• 2019-2023 Chevrolet Silverado 1500</li><li>• 2019-2023 GMC Sierra 1500</li><li>• 2022 Chevrolet Silverado 1500 LTD</li></ul> <p><i>Note: For Extended and Crew Cab, 5.3L and 6.2L engines only. For models equipped with "Active" and "Single Shutter" options.</i></p>
<b>OEM Part Numbers (Replacement For)</b>	84652494, 84481608, 87865757, GM1206103, 670-10020
<b>Item Weight</b>	Approximately 13.31 pounds
<b>Package Dimensions</b>	Approximately 48.43 x 22.83 x 7.48 inches

## SETUP AND INSTALLATION

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This active grille shutter is designed as a direct replacement part. The installation process typically involves removing the front bumper cover and the existing grille shutter assembly. Due to the complexity and the need for precise alignment, professional installation is strongly recommended.

### Tools and Materials (Not Included):

- Basic hand tools (sockets, wrenches, screwdrivers)
- Plastic trim removal tools
- Safety glasses and gloves
- Vehicle service manual (recommended for specific vehicle disassembly instructions)

### General Installation Steps (Consult a professional or vehicle service manual for detailed instructions):

- 1. Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and turn off the engine. Disconnect the negative terminal of the vehicle's battery.
- 2. Access the Grille Shutter:** Carefully remove the front bumper cover. This usually involves removing various clips, screws, and bolts located in the wheel wells, under the bumper, and along the top edge under the hood.
- 3. Remove the Old Grille Shutter:** Once the bumper cover is off, locate the existing active grille shutter assembly. Disconnect any electrical connectors attached to the shutter motor. Remove the mounting bolts or clips securing the old shutter assembly to the radiator support or vehicle frame. Carefully detach and remove the old unit.
- 4. Install the New Grille Shutter:** Position the new 1409KMT Active Radiator Grille Shutter into place. Ensure it aligns correctly with the mounting points. Secure it using the original mounting hardware. Reconnect any electrical connectors to the new shutter motor.
- 5. Test Functionality (Before Reassembly):** Reconnect the vehicle battery. Turn on the ignition (do not start the engine) and observe if the shutter blades move freely and respond to the vehicle's system. If possible, use a diagnostic tool to check for any error codes related to the grille shutter.
- 6. Reassemble the Vehicle:** Once functionality is confirmed, carefully reattach the front bumper cover, ensuring all clips, screws, and bolts are securely fastened.

7. **Final Check:** Start the vehicle and perform a final visual inspection to ensure proper fitment and operation.



Figure 1: Front view of the active grille shutter, showing the blades in an open configuration.



Figure 2: Front view of the active grille shutter, showing the blades in a closed configuration.



Figure 3: Angled perspective of the active grille shutter with blades open.



Figure 4: Angled perspective of the active grille shutter with blades closed.



Figure 5: Rear view of the active grille shutter, showing the reverse side of the closed blades.



Figure 6: Rear view of the active grille shutter, showing the reverse side of the open blades.



Figure 7: Detailed view of the internal mechanism of the active grille shutter.

## OPERATING INSTRUCTIONS

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The 1409KMT Active Radiator Grille Shutter operates automatically, controlled by the vehicle's engine control unit (ECU). It is designed to optimize aerodynamic efficiency and engine temperature management.

- **Aerodynamic Efficiency:** At higher speeds, the shutters may close to reduce aerodynamic drag, improving fuel efficiency.
- **Engine Temperature Management:** The shutters open to allow airflow to the radiator when the engine requires cooling (e.g., during heavy loads, high ambient temperatures, or low speeds). They may close to help the engine warm up faster or maintain optimal operating temperature in colder conditions.
- **Automatic Operation:** No manual intervention is required for the operation of the active grille shutter. The system is fully automated based on various sensor inputs.

## MAINTENANCE

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Regular inspection and basic maintenance can help ensure the longevity and proper function of your active grille shutter.

- **Visual Inspection:** Periodically inspect the grille shutter for any signs of physical damage, cracks, or obstructions (e.g., debris, leaves, insects) that might impede the movement of the blades.

- **Cleaning:** If accessible, gently clean the shutter blades and mechanism with a soft cloth and mild automotive cleaner. Avoid using high-pressure washers directly on the mechanism.
- **Functionality Check:** If possible, observe the shutter blades opening and closing during vehicle operation (e.g., after starting the engine from cold, or after a drive). They should move smoothly without binding.
- **Avoid Obstruction:** Do not attempt to manually force the shutter blades open or closed, as this can damage the motor or mechanism.

## TROUBLESHOOTING

If you experience issues with your active radiator grille shutter, consider the following common problems and solutions:

Problem	Possible Cause / Solution
Shutters not opening or closing	<ul style="list-style-type: none"> <li>• <b>Obstruction:</b> Check for debris (leaves, dirt, ice) blocking the shutter blades. Carefully remove any obstructions.</li> <li>• <b>Electrical Issue:</b> Inspect electrical connectors for secure connection. A blown fuse or wiring issue could be a cause.</li> <li>• <b>Motor Malfunction:</b> The shutter motor may be faulty. This typically requires professional diagnosis and replacement.</li> <li>• <b>Sensor Issue:</b> Vehicle sensors providing incorrect data to the ECU can affect shutter operation. Professional diagnosis is required.</li> </ul>
Check Engine Light (CEL) related to grille shutter	<ul style="list-style-type: none"> <li>• <b>Faulty Shutter:</b> The vehicle's diagnostic system has detected an issue with the shutter's operation or its components.</li> <li>• <b>Wiring/Connector Issue:</b> Loose or damaged wiring to the shutter motor.</li> <li>• <b>Professional Diagnosis:</b> Use an OBD-II scanner to retrieve diagnostic trouble codes (DTCs). Consult a qualified technician for accurate diagnosis and repair.</li> </ul>
Unusual noises from the grille area	<ul style="list-style-type: none"> <li>• <b>Loose Components:</b> Ensure all mounting hardware is secure.</li> <li>• <b>Debris:</b> Check for foreign objects lodged within the shutter mechanism.</li> <li>• <b>Damaged Blades/Mechanism:</b> Inspect for physical damage to the shutter blades or the internal mechanism.</li> </ul>

For issues that cannot be resolved with basic troubleshooting, it is recommended to seek assistance from a certified automotive technician.

## WARRANTY AND SUPPORT

For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact the seller directly. Warranty coverage typically addresses manufacturing defects.

If you require technical assistance or have questions regarding your 1409KMT Active Radiator Grille Shutter, please contact the manufacturer or your point of purchase. When contacting support, have your product model number (KMT-OT002450) and purchase details readily available.



