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› GM Genuine Parts 22744241 Parking Assist Control Module User Manual

GM 22744241

GM Genuine Parts 22744241 Parking Assist Control Module User Manual

Model: 22744241 | Brand: GM Genuine Parts

PRODUCT OVERVIEW

The GM Genuine Parts 22744241 Parking Assist Control Module is an original equipment (OE) component designed, engineered, and tested to rigorous standards by General Motors. This module is a critical part of your vehicle's parking assist system, ensuring proper functionality and integration with other vehicle systems. It is validated by General Motors for use in GM vehicles, providing the true OE quality expected for reliable performance.



Image: Front view of the GM Genuine Parts 22744241 Parking Assist Control Module, showing the GM and Bosch branding, part number 22744241, and manufacturing details.

Key Features:

- Designed, engineered, and tested to rigorous GM standards.
- True Original Equipment (OE) part for GM vehicles.
- Ensures proper function of the vehicle's parking assist system.
- May have formerly appeared as ACDelco GM Original Equipment (OE).
- Engineered and validated by GM for Chevrolet, Buick, GMC, or Cadillac vehicles.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged.

- 1 x GM Genuine Parts 22744241 Parking Assist Control Module

No additional accessories or installation hardware are typically included as this is a replacement part designed to integrate with existing vehicle systems.

SETUP AND INSTALLATION

Installation of the Parking Assist Control Module requires specialized automotive knowledge and tools. It is highly recommended that installation be performed by a certified automotive technician.

Pre-Installation Steps:

1. **Safety First:** Disconnect the vehicle's battery to prevent electrical shorts or damage during installation.
2. **Locate Existing Module:** Refer to your vehicle's service manual for the exact location of the existing parking assist control module. Locations can vary by vehicle model and year.
3. **Inspect Wiring:** Before removal, inspect the wiring harness and connectors for any signs of damage, corrosion, or wear. Address any issues before proceeding.

Installation Procedure:

1. **Remove Old Module:** Carefully disconnect the electrical connectors from the old module. Unmount the module from its bracket or mounting points.
2. **Install New Module:** Align the new GM Genuine Parts 22744241 module with the mounting points and secure it.
3. **Connect Wiring:** Reconnect all electrical connectors to the new module. Ensure connections are secure and properly seated.
4. **Reconnect Battery:** Reconnect the vehicle's battery.
5. **System Initialization (if required):** Some vehicle systems may require re-initialization or diagnostic scanning after module replacement. Consult your vehicle's service manual or a diagnostic tool for specific procedures.



Image: Close-up view of the electrical connectors on the GM Genuine Parts 22744241 Parking Assist Control Module, showing the pin configurations.

Warning: Improper installation can lead to system malfunction, vehicle damage, or personal injury. Always follow vehicle manufacturer's specific repair procedures.

OPERATING PRINCIPLES

The Parking Assist Control Module is an integral part of your vehicle's parking assist system, which typically uses ultrasonic sensors to detect obstacles around the vehicle. The module processes data from these sensors and communicates with other vehicle systems to provide audible warnings or visual displays to the driver when obstacles are detected during parking maneuvers.

Once installed and properly initialized, the module operates automatically when the vehicle is in reverse gear or when the parking assist system is manually activated (if applicable to your vehicle model). Its primary function is to ensure accurate and timely detection of objects to aid in safe parking.

System Activation:

- The system typically activates automatically when the transmission is shifted into reverse.
- Some vehicles may have a dedicated button to manually activate or deactivate the parking assist system. Refer to your vehicle's owner's manual for specific controls.

Indicators and Warnings:

- **Audible Tones:** As the vehicle approaches an obstacle, the frequency of the audible tone will increase. A continuous tone usually indicates very close proximity.
- **Visual Displays:** Many vehicles provide a visual representation on the infotainment screen or instrument cluster, showing the distance and location of detected obstacles.

Important: The parking assist system is an aid and does not replace the driver's responsibility to constantly monitor surroundings and exercise caution during parking maneuvers.

MAINTENANCE

The GM Genuine Parts Parking Assist Control Module is a sealed electronic component and does not require routine maintenance. However, proper care of the surrounding vehicle systems can help ensure its longevity and optimal performance.

General Care:

- **Keep Sensors Clean:** Ensure that the parking assist sensors (usually located on the bumpers) are kept clean and free from dirt, ice, snow, or mud. Blocked sensors can impair system performance.
- **Avoid Physical Damage:** Protect the module and its wiring from physical impact or exposure to excessive moisture.
- **Regular Vehicle Servicing:** Adhere to your vehicle's recommended service schedule to ensure all electrical systems are functioning correctly.

If the module or its connectors become wet, allow them to dry completely before reconnecting power to prevent electrical damage.

TROUBLESHOOTING

If you experience issues with your parking assist system after module replacement, consider the following

common troubleshooting steps. For complex issues, professional diagnostic assistance is recommended.

Problem	Possible Cause	Solution
Parking assist system not working.	Module not properly connected. Blown fuse. System not initialized. Damaged sensors or wiring.	Check all electrical connections to the module. Inspect the relevant fuse in your vehicle's fuse box (refer to owner's manual). Perform system initialization using a diagnostic tool if required. Inspect parking sensors and wiring for visible damage.
Inaccurate or false warnings.	Dirty or obstructed sensors. Environmental factors (heavy rain, snow). Sensor misalignment or damage.	Clean all parking assist sensors thoroughly. Be aware that system performance can be affected by severe weather. Have sensors inspected and recalibrated by a professional.
Diagnostic Trouble Code (DTC) related to parking assist.	Module fault. Wiring issue. Sensor fault.	Use an OBD-II scanner to retrieve the specific DTC. Consult a professional technician for diagnosis and repair based on the DTC.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified GM service center or a qualified automotive technician.

SPECIFICATIONS

Attribute	Detail
Part Number	22744241
Brand	GM Genuine Parts
Manufacturer	GM Genuine Parts
Model	GM Original Equipment
Item Weight	3.2 ounces
Product Dimensions	6.1 x 4.1 x 2.3 inches
Exterior Finish	Machined
First Available Date	June 17, 2021

WARRANTY AND SUPPORT

GM Genuine Parts are backed by General Motors. For specific warranty information regarding your GM Genuine Parts 22744241 Parking Assist Control Module, please refer to the warranty documentation provided with your purchase or consult an authorized GM dealership or service center.

Warranty Coverage: Typically, GM Genuine Parts come with a limited warranty covering defects in material and workmanship. The duration and terms of the warranty may vary.

Technical Support: For technical assistance, installation guidance, or warranty claims, it is recommended to contact an authorized GM service center or a certified automotive technician. They have access to the latest diagnostic tools and service information for GM vehicles.

You can find more information about GM Genuine Parts and ACDelco products on the official GM or ACDelco websites. [Visit GM Official Website](#)

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