

Polaris 4012812

Polaris GEM Vehicle Control Module (Part 4012812) Instruction Manual

Genuine OEM Part for Polaris GEM Vehicles

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Polaris GEM Vehicle Control Module, Part 4012812. This genuine OEM part is designed to deliver unmatched performance and fit for your Polaris GEM vehicle. Each module undergoes extensive field testing and meticulous crafting to ensure compatibility and reliability.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the vehicle or module:

- Disconnect the vehicle's battery before installing or removing the Vehicle Control Module (VCM).
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is turned off and secured to prevent accidental movement.
- Refer to the complete Polaris GEM service manual for detailed vehicle-specific safety procedures.
- Do not attempt to modify the VCM. Unauthorized modifications can lead to malfunction and void the warranty.

3. PRODUCT OVERVIEW

The Polaris GEM Vehicle Control Module (VCM) is a critical electronic component responsible for managing various vehicle functions. It is engineered to integrate seamlessly with your Polaris GEM vehicle's existing systems.

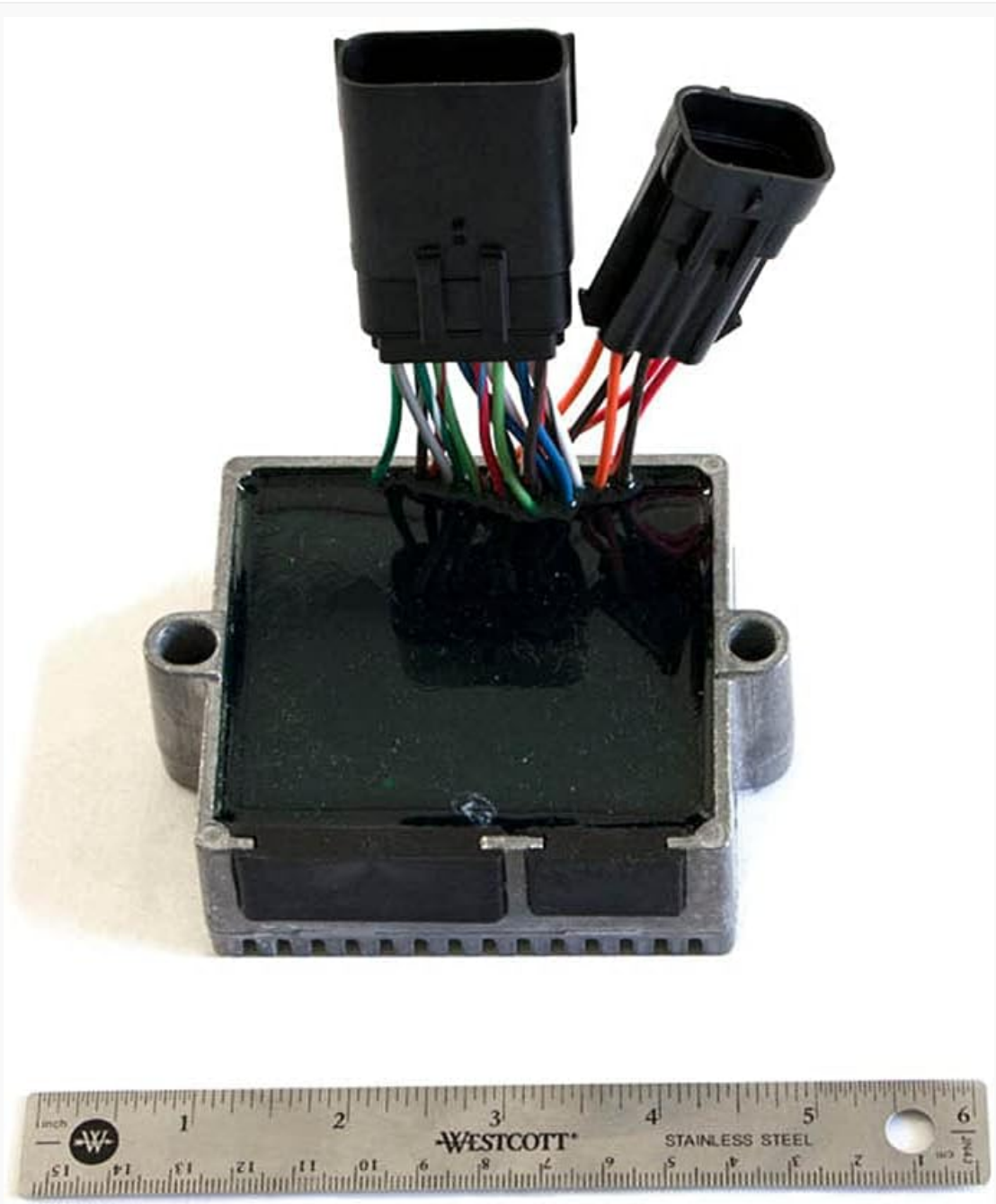
3.1 Key Features

- Genuine Polaris OEM part, ensuring precise fit and function.
- Extensively tested for durability and performance in various conditions.
- Designed to maximize the operational life of your vehicle.

3.2 Package Contents

- 1 x Polaris GEM Vehicle Control Module (Part 4012812)

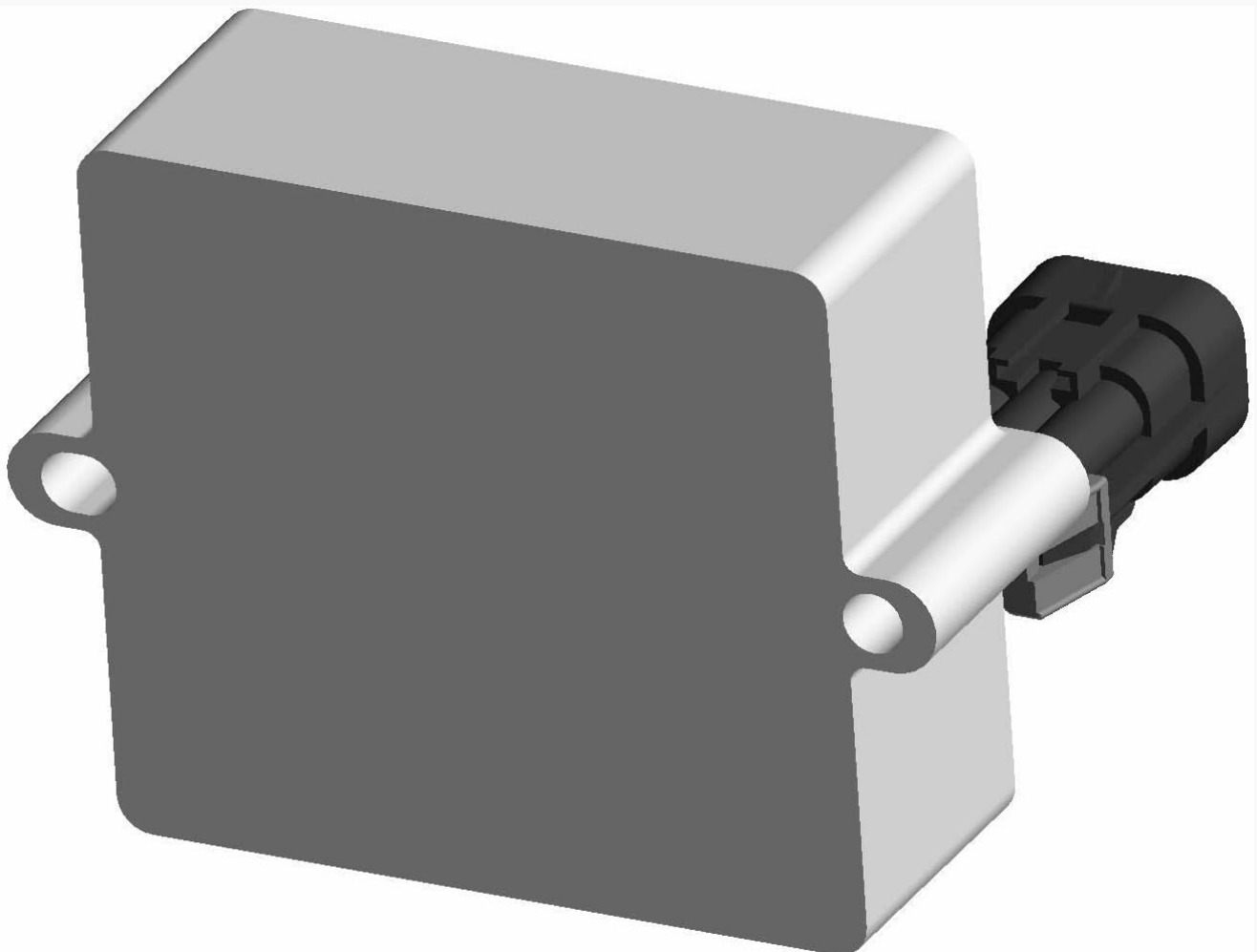
3.3 Product Images



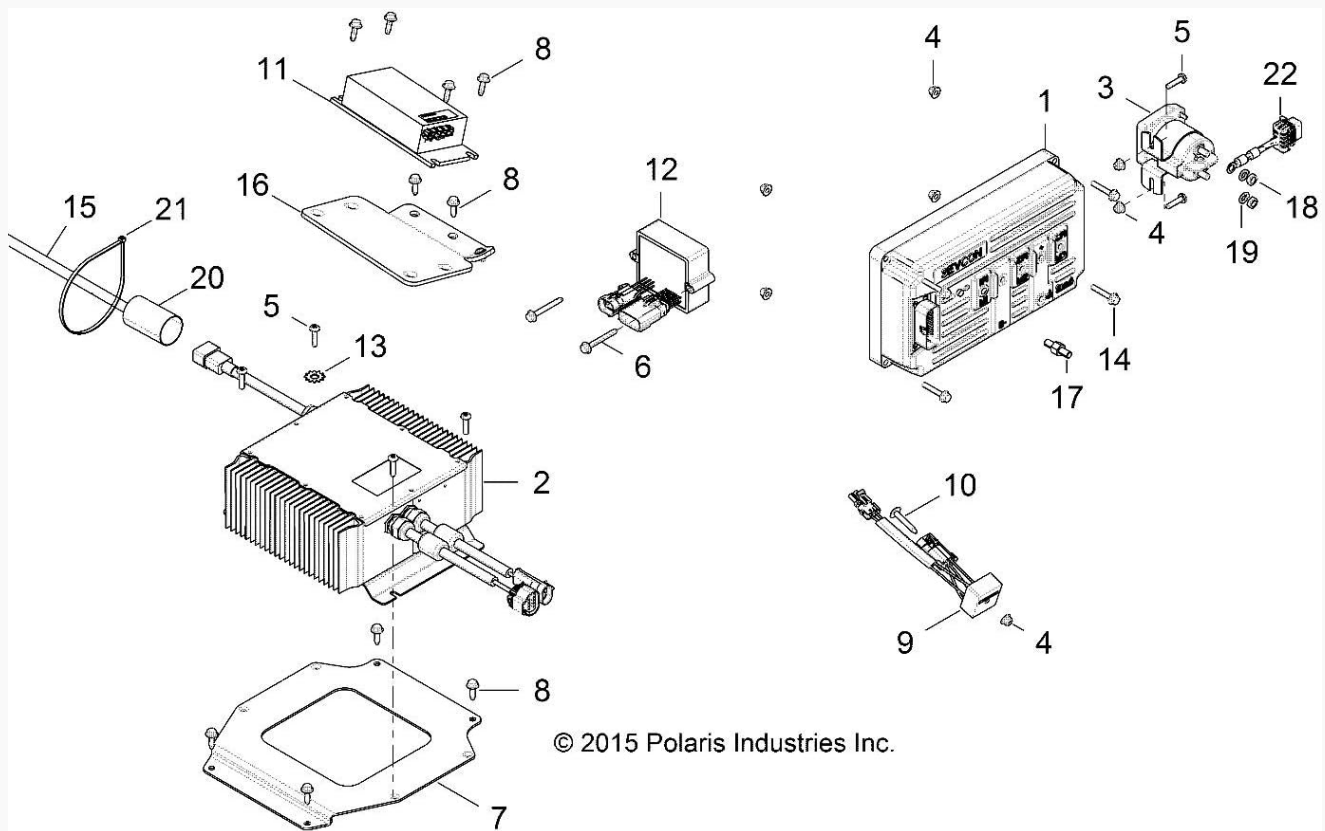
Top view of the Polaris GEM Vehicle Control Module (Part 4012812) with its integrated wiring harnesses.



Angled view of the VCM, highlighting the connector ports and module casing.



Computer-aided design (CAD) rendering of the VCM, showing mounting points.



700327

Exploded diagram illustrating the VCM (labeled as item 11) and its surrounding components within the vehicle's electrical system.

4. SETUP AND INSTALLATION

Installation of the Vehicle Control Module should only be performed by a qualified technician or an authorized Polaris service center. Incorrect installation can lead to vehicle malfunction, damage to the module, or personal injury.

4.1 Pre-Installation Steps

1. Ensure the vehicle is parked on a level surface with the parking brake engaged.
2. Turn off the ignition and remove the key.
3. Disconnect the negative (-) battery terminal first, then the positive (+) terminal to prevent electrical shorts.
4. Locate the existing VCM in your Polaris GEM vehicle. Refer to your vehicle's specific service manual for the exact location.

4.2 Removal of Old Module

1. Carefully disconnect all wiring harnesses from the old VCM. Note the orientation and connection points for reassembly.
2. Unfasten any mounting bolts or clips securing the old VCM.
3. Remove the old VCM from the vehicle.

4.3 Installation of New Module

1. Position the new Polaris GEM VCM (Part 4012812) in the designated mounting location.
2. Secure the module using the appropriate mounting hardware. Ensure it is firmly attached and does not vibrate loose.
3. Reconnect all wiring harnesses to the new VCM. Ensure each connector is fully seated and locked into place.
4. Reconnect the positive (+) battery terminal, then the negative (-) battery terminal.
5. Perform a functional check of the vehicle to ensure all systems controlled by the VCM are operating correctly.

5. OPERATING THE VEHICLE CONTROL MODULE

The Vehicle Control Module is an internal electronic component that operates automatically as part of your Polaris GEM vehicle's system. It does not require direct user interaction for its function. Its operation is integrated with the vehicle's ignition, drive system, and other electronic controls.

For information on operating your Polaris GEM vehicle, please refer to your vehicle's owner's manual.

6. MAINTENANCE

The Polaris GEM Vehicle Control Module is designed for long-term reliability and typically requires minimal maintenance. However, regular inspection of its connections and surrounding area is recommended.

- **Visual Inspection:** Periodically check the VCM and its wiring harnesses for any signs of damage, corrosion, or loose connections.
- **Cleaning:** Keep the area around the VCM clean and free from excessive dust, dirt, or moisture. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive materials.
- **Environmental Protection:** Ensure the VCM is protected from extreme temperatures and direct exposure to water or other liquids, as specified in the vehicle's design.

7. TROUBLESHOOTING

If you suspect an issue with your Vehicle Control Module, consider the following basic troubleshooting steps. For complex issues, always consult a qualified technician or an authorized Polaris service center.

- **No Power/Intermittent Power:** Check all electrical connections to the VCM for tightness and corrosion. Verify battery voltage and fuse integrity.
- **Vehicle Warning Lights:** If warning lights related to the electrical system or engine appear, it may indicate a VCM issue. Consult your vehicle's service manual for diagnostic codes.
- **Vehicle Performance Issues:** Erratic vehicle behavior, such as inconsistent acceleration or power delivery, could be related to the VCM.

Important: Do not attempt to repair the VCM yourself. Internal components are not user-serviceable. Replacement is typically required if the module is faulty.

8. SPECIFICATIONS

Attribute	Specification
Brand	Polaris
Model Number	4012812
Product Dimensions (L x W x H)	6.5" x 6.5" x 4.5"

Attribute	Specification
Unit Count	1 Count
UPC	194722557444
Display Type	Basic Indicators/Simple LED (Refers to vehicle integration)

9. WARRANTY INFORMATION

The Polaris GEM Vehicle Control Module (Part 4012812) comes with a **1 Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

For full details regarding warranty terms, conditions, and claim procedures, please refer to the official Polaris warranty documentation provided with your vehicle or contact Polaris customer support.

10. SUPPORT AND RESOURCES

For additional assistance, technical support, or to locate an authorized service center, please use the following resources:

- Official Polaris Website:** Visit the [Polaris official website](#) for product information, service manuals, and dealer locators.
- Customer Service:** Contact Polaris customer service for direct support regarding your VCM or vehicle.
- Authorized Dealers:** Consult an authorized Polaris dealer for professional installation, diagnostics, and repairs.

10.1 Related Video Resources

Your browser does not support the video tag.

Video: Polaris Engineered Parts Precision in Motion. This video provides an overview of the engineering and testing processes behind Polaris genuine parts, including components like the Vehicle Control Module, ensuring quality and performance.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question