

Briggs & Stratton 20585GS

Briggs & Stratton 20585GS Voltage Regulator Instruction Manual

Model: 20585GS

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the Briggs & Stratton 20585GS Voltage Regulator. This component is designed to maintain a stable voltage output in compatible generators, ensuring reliable power delivery. Please read these instructions carefully before proceeding with installation or maintenance.

SAFETY INFORMATION

Always prioritize safety when working with electrical equipment and generators. Failure to follow safety precautions can result in serious injury or death.

- **Disconnect Power:** Before performing any installation, maintenance, or inspection, ensure the generator is completely shut down and disconnected from any power source or load. Remove the spark plug wire to prevent accidental starting.
- **Electrical Hazards:** Be aware of electrical shock hazards. Do not touch live wires or components.
- **Proper Tools:** Use appropriate insulated tools for electrical work.
- **Ventilation:** Ensure adequate ventilation if the generator is operated in an enclosed space to prevent carbon monoxide poisoning.
- **Consult a Professional:** If you are unsure about any step or procedure, consult a qualified technician.

PRODUCT OVERVIEW

The Briggs & Stratton 20585GS Voltage Regulator is a critical component in a generator's electrical system. Its primary function is to regulate the output voltage, ensuring it remains within a safe and consistent range for connected devices. This helps protect sensitive electronics and ensures efficient operation of the generator.

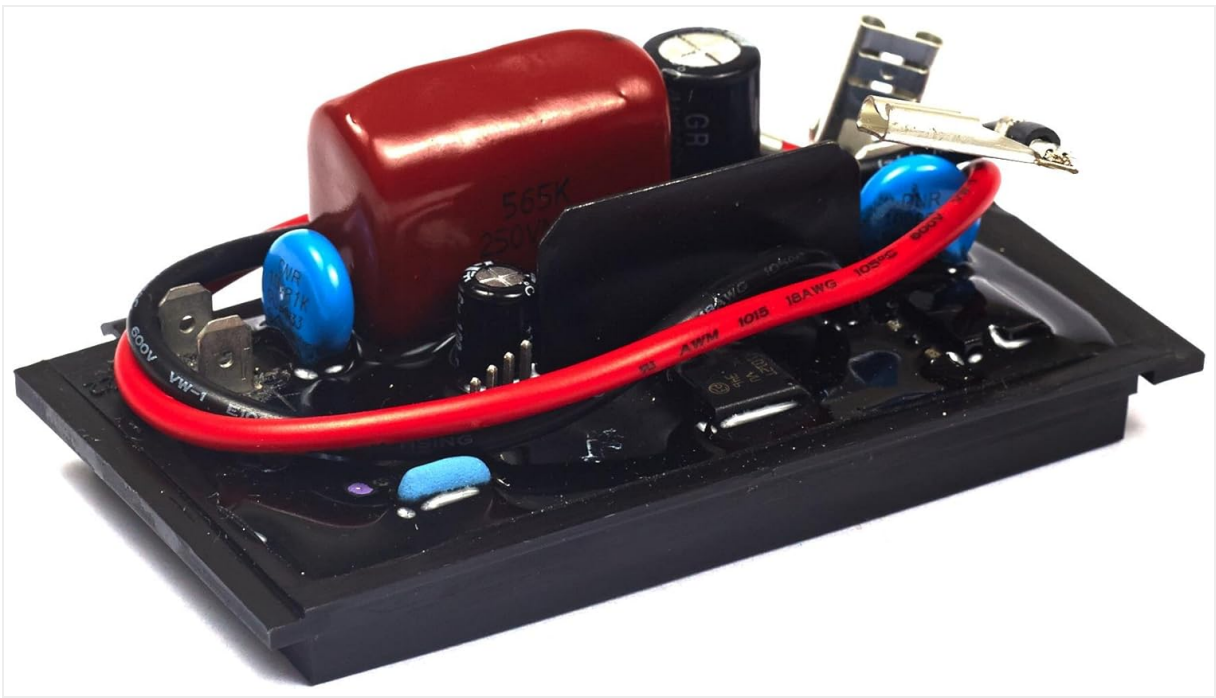


Image 1: The Briggs & Stratton 20585GS Voltage Regulator, showing its compact design and wiring connections.

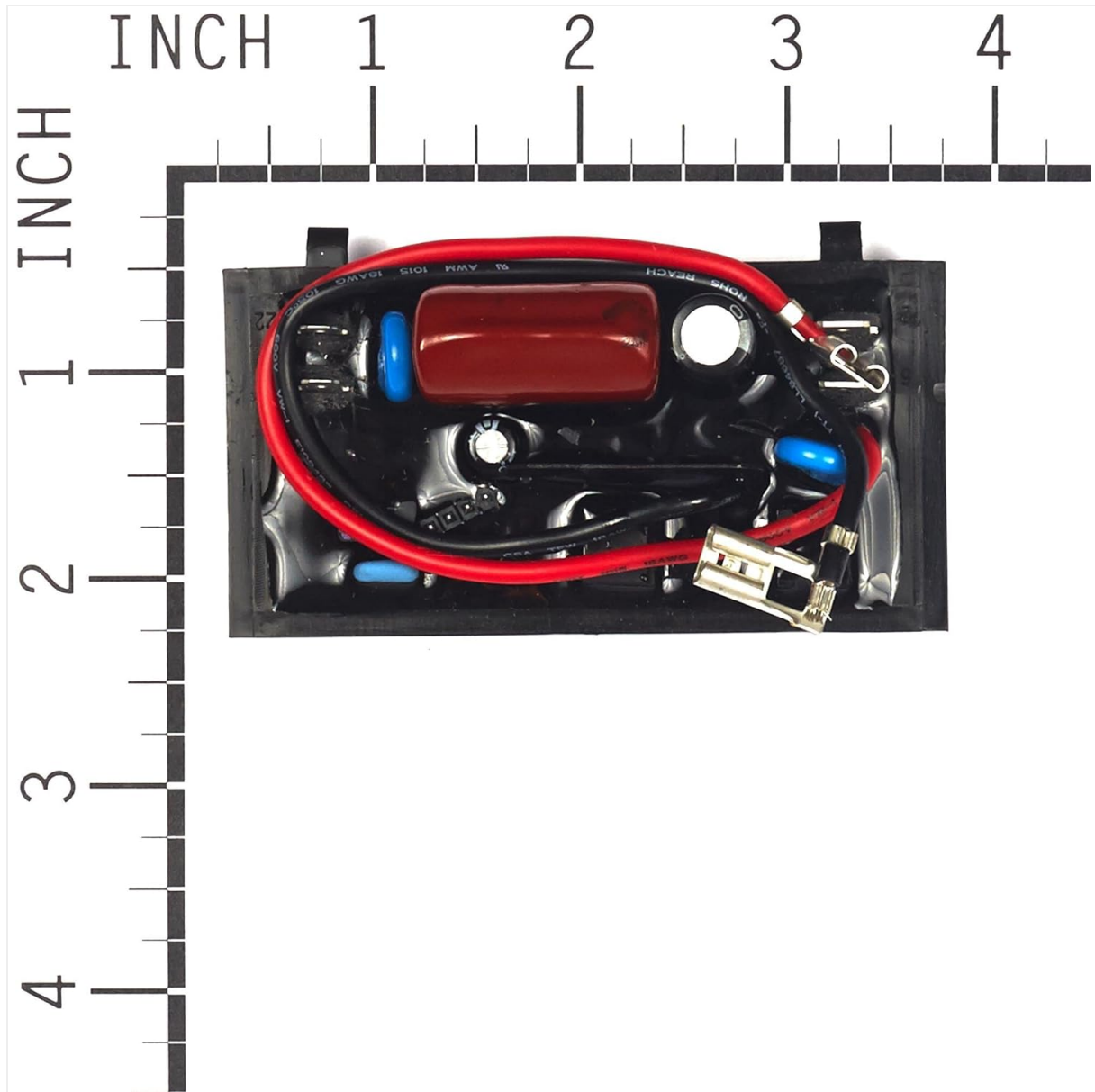


Image 2: The Briggs & Stratton 20585GS Voltage Regulator displayed with a ruler for scale, indicating its approximate

SETUP AND INSTALLATION

Follow these general steps for replacing a voltage regulator. Specific generator models may have variations.

1. **Preparation:** Ensure the generator is turned off, cooled down, and the spark plug wire is disconnected.
2. **Access:** Locate the existing voltage regulator. This may require removing a side panel or cover from the generator.
3. **Disconnect Wiring:** Carefully disconnect all electrical connectors attached to the old voltage regulator. Note the position and color of each wire for correct reinstallation. Taking a photograph before disconnecting can be helpful.
4. **Remove Old Regulator:** Unmount the old voltage regulator from its housing. It is typically secured with screws or bolts.
5. **Install New Regulator:** Position the new Briggs & Stratton 20585GS Voltage Regulator in the same location and secure it using the original fasteners.
6. **Reconnect Wiring:** Connect the electrical wires to the new regulator, ensuring each wire is attached to its corresponding terminal as noted during disassembly.
7. **Reassemble:** Replace any covers or panels that were removed.
8. **Initial Test:** Reconnect the spark plug wire. Start the generator and observe the voltage output. If the generator does not produce power, refer to the troubleshooting section regarding 'flashing the field brushes'.

OPERATING INSTRUCTIONS

Once the Briggs & Stratton 20585GS Voltage Regulator is correctly installed, the generator should operate as designed, providing a stable and regulated electrical output. No specific operational steps are required for the voltage regulator itself, as it functions automatically within the generator's electrical system.

- Always follow the operating instructions provided with your specific generator model.
- Monitor the generator's voltage output if your model includes a voltmeter to ensure stable operation.

MAINTENANCE

The Briggs & Stratton 20585GS Voltage Regulator is a sealed unit and typically requires no direct maintenance. However, regular inspection of its connections and the surrounding area is recommended as part of your generator's overall maintenance schedule.

- **Inspect Connections:** Periodically check all wiring connections to the voltage regulator for tightness and signs of corrosion or damage.
- **Keep Clean:** Ensure the area around the regulator is free from dirt, debris, and moisture.
- **Environmental Factors:** Avoid operating or storing the generator in excessively hot environments, as prolonged exposure to high temperatures can affect the lifespan of electronic components.

TROUBLESHOOTING

If your generator experiences issues after installing or while using the Briggs & Stratton 20585GS Voltage

Regulator, consider the following troubleshooting steps:

- **No Voltage Output:**
 - Verify all wiring connections to the regulator are secure and correct.
 - Ensure the generator's engine is running at the correct RPM.
 - **Flashing the Field Brushes:** If the generator produces no voltage after a new regulator installation or after a power surge, the generator's field may need to be 'flashed'. This process re-establishes residual magnetism in the rotor. Consult your generator's specific manual for instructions on how to safely perform this procedure, which typically involves briefly applying a small DC voltage to the exciter windings.
- **Unstable or Incorrect Voltage:**
 - Check for loose or corroded connections.
 - Ensure the generator is not overloaded.
 - If the issue persists, the regulator itself may be faulty, or there could be other underlying problems with the generator's alternator or engine.
- **Generator Shuts Down Under Load:** This could indicate an issue with the regulator not maintaining voltage under demand, or it could be an engine-related problem. Check fuel levels, air filter, and spark plug.

If troubleshooting steps do not resolve the issue, it is recommended to seek assistance from a qualified service technician.

SPECIFICATIONS





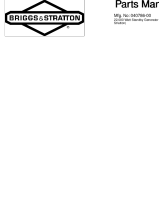

Product Dimensions	3.5 x 3 x 4.5 inches
Item Weight	3.04 ounces
Manufacturer	Briggs & Stratton
Item Model Number	20585GS

WARRANTY INFORMATION

Briggs & Stratton products are manufactured to high-quality standards. For specific warranty details regarding the 20585GS Voltage Regulator, please refer to the warranty documentation included with your purchase or visit the official Briggs & Stratton website. Keep your proof of purchase for warranty claims.

SUPPORT AND CONTACT

For further assistance, technical support, or to locate authorized service centers, please visit the official Briggs & Stratton website or contact their customer service department. When contacting support, have your product model number (20585GS) and any relevant generator information readily available.

	<p>Briggs & Stratton Inverter Generator Operator's Manual</p> <p>This operator's manual provides comprehensive guidance for the Briggs & Stratton Inverter Generator. It details essential safety precautions, assembly procedures, operational instructions, maintenance schedules, and troubleshooting tips to ensure optimal performance and longevity.</p>
	<p>Briggs & Stratton 12kW Fortress Standby Generator Product Overview & Specs</p> <p>Detailed information on the Briggs & Stratton 12kW Fortress Standby Generator, including features, specifications, fuel consumption, dimensions, and certifications. Ideal for home backup power.</p>
	<p>Briggs & Stratton Series 14000 Home Generator Installation Instructions</p> <p>Comprehensive installation guide for the Briggs & Stratton Series 14000 home generator system, covering safety, setup, operational procedures, and equipment specifications.</p>
	<p>Briggs & Stratton Portable Generator Operator's Manual - Safety, Operation, and Maintenance Guide</p> <p>Comprehensive operator's manual for Briggs & Stratton portable generators, covering safety guidelines, operating procedures, maintenance schedules, troubleshooting tips, and warranty information. Essential guide for safe and effective use.</p>
	<p>Briggs & Stratton 22,000 Watt Standby Generator Parts Manual 040786-00</p> <p>Official parts manual for the Briggs & Stratton 22,000 Watt Standby Generator (Mfg. No: 040786-00). This guide details all components, part numbers, and assembly diagrams necessary for maintenance and repair of the generator.</p>
	<p>Briggs & Stratton P3000i Inverter Generator Operator's Manual</p> <p>This operator's manual provides comprehensive instructions for the Briggs & Stratton P3000i Inverter Generator, covering safety precautions, assembly, features, operation, maintenance, troubleshooting, and warranty information. Learn how to safely operate and maintain your generator for reliable power.</p>