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› Briggs & Stratton 707157 Automatic Voltage Regulator Instruction Manual

## Briggs & Stratton 707157

# Briggs & Stratton 707157 Automatic Voltage Regulator Instruction Manual

Model: 707157

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of the Briggs & Stratton Model 707157 Automatic Voltage Regulator (AVR). The AVR is a critical component designed to maintain a stable output voltage from your generator, ensuring consistent power delivery to connected equipment. This genuine replacement part ensures proper fit and performance, helping to extend the life of your equipment.

Please read this manual thoroughly before attempting any installation or service. Keep this manual for future reference.

## SAFETY INFORMATION

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### **WARNING: Electrical Shock Hazard**

- Always disconnect the power source from the generator before performing any service or installation. Failure to do so can result in serious injury or death.
- Only qualified personnel should perform electrical work. If you are unsure about any procedure, consult a certified technician.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Ensure all connections are secure and properly insulated to prevent short circuits.

### **WARNING: Moving Parts Hazard**

- Ensure the generator engine is completely off and cooled down before working on any components.

## PRODUCT OVERVIEW

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The Briggs & Stratton 707157 is an Automatic Voltage Regulator designed for specific generator models. It

is a circuit board assembly responsible for regulating the output voltage of the generator's alternator, ensuring a stable power supply regardless of load changes.

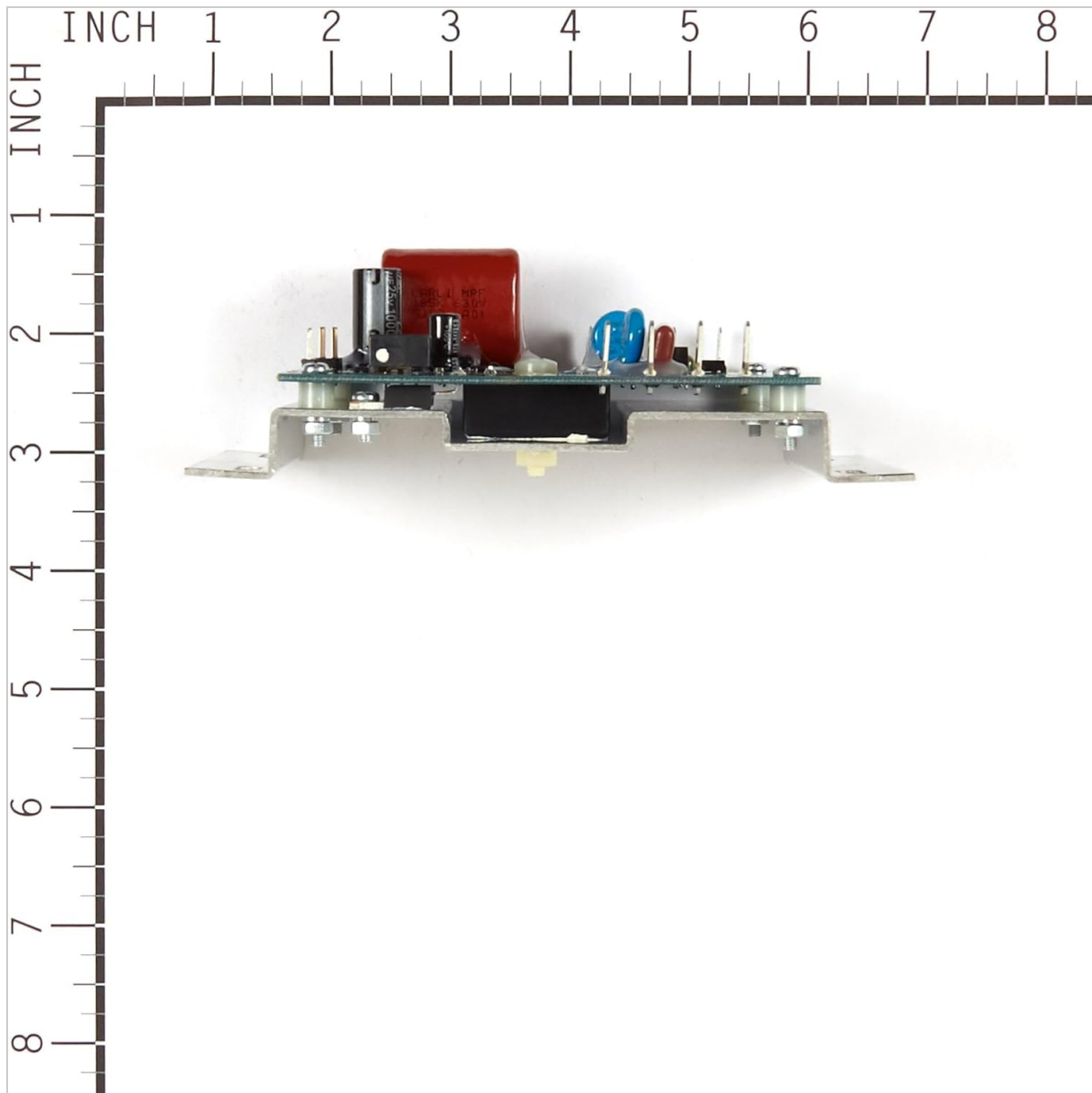


Figure 1: Front view of the Briggs & Stratton 707157 Automatic Voltage Regulator. This image shows the electronic components mounted on the circuit board, including capacitors and resistors, which are crucial for voltage regulation.

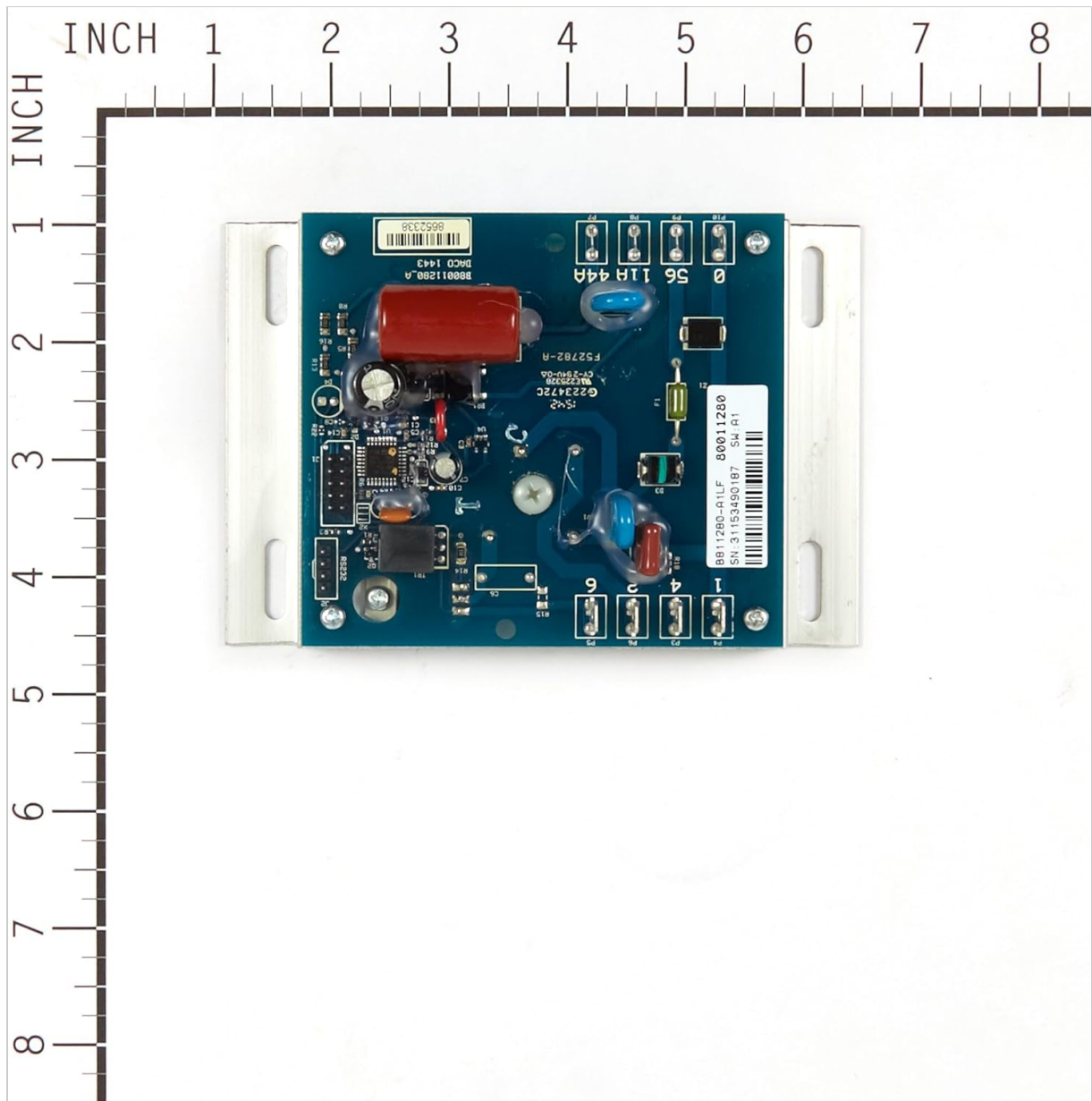


Figure 2: Back view of the Briggs & Stratton 707157 Automatic Voltage Regulator. The reverse side of the circuit board is visible, displaying solder points and the part number/serial number 31153490187, which helps in identifying the genuine part.



Figure 3: Briggs & Stratton genuine service parts packaging. This packaging indicates that the component is an original equipment manufacturer (OEM) part, ensuring compatibility and quality.

## INSTALLATION INSTRUCTIONS

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This section outlines the general steps for replacing an existing Automatic Voltage Regulator. Specific generator models may have variations. Always refer to your generator's service manual for detailed, model-specific instructions.

### 1. Preparation:

- Ensure the generator is completely shut down, the engine is cool, and the spark plug wire is disconnected to prevent accidental starting.
- Disconnect the battery terminals (negative first, then positive) if applicable.
- Locate the existing Automatic Voltage Regulator on your generator. It is typically mounted near the alternator or control panel.

### 2. Removal of Old AVR:

- Carefully disconnect all wiring harnesses and individual wires connected to the old AVR. Note the position and color of each wire for correct reinstallation. Taking photos can be helpful.
- Unscrew and remove the mounting hardware securing the old AVR to the generator frame.

- Gently remove the old AVR.

### 3. Installation of New AVR:

- Position the new Briggs & Stratton 707157 AVR in the same location as the old one.
- Secure the new AVR using the original mounting hardware. Do not overtighten.
- Reconnect all wiring harnesses and individual wires to the new AVR, ensuring they match the connections noted during removal. Double-check all connections for security.

### 4. Post-Installation Check:

- Reconnect the battery terminals (positive first, then negative).
- Reconnect the spark plug wire.
- Start the generator and allow it to warm up.
- Monitor the output voltage using a multimeter to ensure it is stable and within the specified range for your generator model.
- If the voltage is unstable or incorrect, shut down the generator immediately and recheck all connections.

*Note: This AVR is a genuine Briggs & Stratton part (Part # 707157) designed for specific equipment. Using non-genuine parts may void your warranty or lead to improper operation.*

## OPERATION

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Once correctly installed, the Automatic Voltage Regulator operates automatically. Its primary function is to sense the generator's output voltage and adjust the excitation current to the alternator to maintain a constant voltage level, typically 120V or 240V, depending on the generator configuration. This ensures that sensitive electronics and appliances receive a stable power supply, preventing damage from voltage fluctuations.

There are no user-adjustable settings on this specific AVR model. Its operation is entirely internal and automatic.

## MAINTENANCE

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The Briggs & Stratton 707157 Automatic Voltage Regulator is a sealed electronic component and requires no routine maintenance. However, periodic inspection of its connections and surrounding area is recommended as part of your generator's overall maintenance schedule.

- **Visual Inspection:** Annually, or during other generator service, visually inspect the AVR for any signs of damage, corrosion, loose wires, or discoloration from overheating.
- **Connection Check:** Ensure all electrical connections to the AVR are clean, tight, and free from corrosion.
- **Environmental Protection:** Keep the area around the AVR clean and free from dirt, debris, and moisture.

*Do not attempt to open or repair the AVR. If it is faulty, it must be replaced as a complete unit.*

## TROUBLESHOOTING

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If your generator is experiencing voltage-related issues, the AVR may be a contributing factor. Below are common symptoms of a faulty AVR and general troubleshooting steps.

Symptom	Possible Cause	Action
No AC output voltage	Faulty AVR, open circuit in windings, tripped breaker.	Check circuit breakers. Inspect wiring. Test AVR (requires specialized equipment or replacement).
Unstable or fluctuating AC voltage	Faulty AVR, loose connections, engine speed instability.	Check engine speed. Inspect all AVR connections. Replace AVR if other causes are ruled out.
Over-voltage or Under-voltage	Faulty AVR, incorrect wiring.	Verify correct wiring. Replace AVR.
Generator runs but no power to outlets	Tripped circuit breaker, faulty AVR, wiring issue.	Reset breakers. Check wiring. Consider AVR replacement.

If troubleshooting does not resolve the issue, it is recommended to consult a qualified service technician or contact Briggs & Stratton customer support.

## SPECIFICATIONS

Attribute	Detail
Product Name	Automatic Voltage Regulator
Model Number	707157
Brand	Briggs & Stratton
Part Type	Genuine Replacement Part
Product Dimensions	5 x 2 x 4 inches
Item Weight	7.5 ounces
Manufacturer	Briggs and Stratton

## WARRANTY AND SUPPORT

As a genuine Briggs & Stratton replacement part, this Automatic Voltage Regulator (Model 707157) is designed to meet the highest standards of quality and performance. Genuine parts help maintain the original warranty of your Briggs & Stratton equipment.

For specific warranty details, please refer to the warranty statement provided with your original Briggs & Stratton equipment or visit the official Briggs & Stratton website. For technical support or assistance with part identification, please contact Briggs & Stratton customer service directly or visit their official Briggs & Stratton Store on Amazon.