

Owifit 8BSXS.5002VP

Owifit Starter Motor Replacement Manual

For Briggs & Stratton Engines (Models 8BSXS.5002VP, 278021)

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Owifit Starter Motor, model 8BSXS.5002VP. This replacement starter motor is designed for specific Briggs & Stratton engines, including 15.5Hp and 17.5Hp models, and is compatible with Briggs & Stratton Family 8BSXS.5002VP and part number 278021. Please read this manual thoroughly before attempting any installation or service to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING:

- Always disconnect the battery's negative terminal before working on the engine's electrical system to prevent accidental starting or electrical shock.
- Wear appropriate personal protective equipment, including safety glasses and gloves, during installation and maintenance.
- Ensure the engine is cool before beginning any work to avoid burns.
- Working with electrical components can be hazardous. If you are unsure about any step, consult a qualified technician.
- Keep children and pets away from the work area.

3. PACKAGE CONTENTS

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

- 1 x Owifit Starter Motor (Model 8BSXS.5002VP)
- (Optional: Mounting hardware, if included by the manufacturer)



Figure 1: Front view of the Owigift Starter Motor, showing the drive gear and mounting plate.



Figure 2: Side view of the Owigift Starter Motor, illustrating its compact cylindrical design and mounting bracket.

4. SPECIFICATIONS

Feature	Specification
Brand	Owigift
Model Number	8BSXS.5002VP
Compatible Engine Family	Briggs & Stratton 8BSXS.5002VP
Compatible Engine Horsepower	15.5Hp, 17.5Hp
Material	Metal
Voltage	12 Volts (DC)
Wattage	1.4 KW
UPC	718997298323

5. SETUP AND INSTALLATION

This section outlines the general procedure for replacing a starter motor. Specific steps may vary depending on your engine model. Refer to your engine's service manual for detailed instructions.

1. **Preparation:** Ensure the engine is off and cool. Disconnect the negative (-) terminal of the battery first, then the positive (+) terminal.
2. **Locate the Old Starter Motor:** Identify the existing starter motor on your Briggs & Stratton engine. It is typically mounted near the flywheel.
3. **Disconnect Wiring:** Carefully disconnect all electrical connections from the old starter motor. Note their positions for reinstallation.
4. **Remove Mounting Bolts:** Unscrew the bolts securing the old starter motor to the engine block. Support the motor as you remove the last bolt to prevent it from falling.
5. **Remove Old Starter:** Carefully extract the old starter motor from its mounting position.
6. **Inspect Mounting Area:** Clean any debris or corrosion from the mounting surface on the engine block.
7. **Install New Starter Motor:** Position the new Owigift starter motor (8BSXS.5002VP) into place. Ensure the drive gear aligns correctly with the flywheel.
8. **Secure Mounting Bolts:** Insert and hand-tighten the mounting bolts. Then, tighten them to the manufacturer's specified torque (refer to your engine manual). Do not overtighten.
9. **Reconnect Wiring:** Reconnect the electrical wires to the new starter motor. Ensure all connections are clean and secure.
10. **Reconnect Battery:** Reconnect the positive (+) battery terminal first, then the negative (-) terminal.
11. **Test Functionality:** Attempt to start the engine to verify the new starter motor is functioning correctly.

If you are not comfortable performing this installation, it is recommended to seek assistance from a certified mechanic or service professional.

6. OPERATING INSTRUCTIONS

The starter motor is an integral component of your engine's starting system. Its operation is automatic when the ignition key is turned to the "START" position or the start button is pressed. It engages the engine's flywheel to initiate combustion.

- Ensure the battery is fully charged and in good condition.
- Follow your engine manufacturer's specific starting procedures (e.g., choke settings, throttle position).
- Avoid prolonged cranking (more than 5-10 seconds) to prevent overheating the starter motor. Allow a brief cool-down period between attempts.

7. MAINTENANCE

The Owigift Starter Motor is designed for durability and requires minimal maintenance. However, periodic checks can help ensure its longevity:

- **Electrical Connections:** Periodically inspect all electrical connections to the starter motor and battery for cleanliness, tightness, and corrosion. Clean any corrosion with a wire brush and battery terminal cleaner.
- **Mounting Bolts:** Ensure the starter motor's mounting bolts remain securely tightened.
- **General Cleanliness:** Keep the area around the starter motor free from excessive dirt, oil, and debris.

8. TROUBLESHOOTING

If you experience issues with your engine's starting system, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Engine does not crank or cranks very slowly.	<ul style="list-style-type: none">◦ Dead or weak battery.◦ Loose or corroded battery terminals/cables.◦ Faulty ignition switch.◦ Starter motor solenoid issue.◦ Internal starter motor failure.	<ul style="list-style-type: none">◦ Charge or replace battery.◦ Clean and tighten battery terminals and cables.◦ Test ignition switch continuity.◦ Check solenoid connections and function.◦ If other checks pass, starter motor may need replacement (if not already replaced).
Starter motor spins but engine does not engage.	<ul style="list-style-type: none">◦ Bendix drive (starter gear) not engaging flywheel.◦ Damaged flywheel teeth.	<ul style="list-style-type: none">◦ Inspect starter drive gear for damage or sticking.◦ Inspect flywheel teeth for wear or damage.◦ Replacement of starter or flywheel may be necessary.
Clicking sound, but no crank.	<ul style="list-style-type: none">◦ Low battery voltage.◦ Faulty starter solenoid.◦ Loose electrical connections.	<ul style="list-style-type: none">◦ Charge or replace battery.◦ Check solenoid connections and function.◦ Ensure all electrical connections are tight.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional mechanic.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Owigift Starter Motor, please refer to the documentation provided at the time of purchase or contact your seller directly. Owigift is committed to providing quality products. For technical support or inquiries, please reach out to the manufacturer or authorized dealer.

Keep your purchase receipt as proof of purchase for any warranty claims.

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