

BDELI BD5777N

BDELI Briggs & Stratton Compatible Starter Replacement Manual

Model: BD5777N

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your new BD5777N starter replacement. Designed for compatibility with various Briggs & Stratton engines and specific models from Cub Cadet and John Deere, this starter ensures reliable engine starting. Please read this manual thoroughly before attempting any installation or operation.

2. COMPATIBILITY

This starter is designed as a direct replacement for several original equipment manufacturer (OEM) part numbers and is compatible with a range of engines and equipment. Always verify your existing part number and engine specifications before installation.

Replacement Part Numbers:

- 593934
- 693551
- 030221
- LG693551
- BS693551
- SBS0029
- SBS0047
- 410-22027
- 410-22051
- RS41082
- 71095777
- 206-07122

- MS-6007
- 113853
- 113017
- 5777N

Compatible Engines and Equipment:

Briggs & Stratton Engines:

- Air Cooled 7 through 18 HP

Cub Cadet Mowers:

- RZT17 Briggs & Stratton 17HP Gas (2004)
- RZT42 Briggs & Stratton 17.5HP Gas (2005-2006)
- Z-Force 42 Briggs & Stratton 18.5HP Gas (2004)

Cub Cadet Tractors:

- 1170 Briggs & Stratton 17HP Gas (Single/Twin, 2000-2001)
- 1600 Briggs & Stratton 16.5HP Gas (1999)
- 1800 Briggs & Stratton 18HP Gas (1999)
- LT1018 Briggs & Stratton 18.5HP Gas (2004)

John Deere Tractors:

- L100 1 Cyl. 0.5L 498cc 30cid (2002-2005)
- LA125 1 Cyl. 0.54L 540cc 33cid (2007-2009)
- Europa 1642HS Briggs & Stratton 16HP (1998-2002)
- L105 Briggs & Stratton 14.5HP
- L107 Briggs & Stratton 17HP
- LA105 Briggs & Stratton 19.5HP (2008-2010)
- LA115 Briggs & Stratton 19.5HP (2008-2010)
- Sabre 14.542GS Briggs & Stratton 14.5HP (2002)
- Sabre 1642HS Briggs & Stratton 16HP (1998-2002)
- Sabre 1742GS Briggs & Stratton 17HP (1998-2001)
- Sabre 1742HS Briggs & Stratton 17HP (1998-2001)

3. SAFETY INFORMATION

Always prioritize safety when working with engine components. Failure to follow these safety guidelines may result in injury or damage to equipment.

- **Disconnect Battery:** Before beginning any work, always disconnect the negative (-) battery cable first, then the positive (+) cable to prevent accidental starting or electrical shock.
- **Wear Protective Gear:** Use safety glasses, gloves, and appropriate clothing to protect against debris, sharp edges, and chemicals.
- **Ensure Ventilation:** Work in a well-ventilated area, especially if dealing with fuel or battery fumes.
- **Secure Equipment:** Ensure the equipment is stable and cannot move unexpectedly during the installation process.
- **Refer to Equipment Manual:** Consult your specific equipment's service manual for detailed instructions and torque

specifications.

- **Keep Area Clean:** Remove any tools or loose items from the engine area before reconnecting the battery and attempting to start.

4. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package.

- 1 x BDELI Starter Replacement (Model BD5777N)

5. INSTALLATION GUIDE

This section outlines the general steps for replacing a starter motor. Specific procedures may vary depending on your equipment model. Always refer to your equipment's service manual for precise instructions.

Tools Required:

- Socket Wrench Set
- Screwdriver Set
- Battery Terminal Wrench
- Wire Brush (for cleaning terminals)
- Dielectric Grease (optional, for terminals)

Step-by-Step Installation:

1. **Prepare Equipment:** Park the equipment on a level surface, engage the parking brake, and turn off the engine. Allow the engine to cool completely.
2. **Disconnect Battery:** Disconnect the negative (-) battery cable first, then the positive (+) cable. Secure the cables away from the battery terminals.
3. **Locate Old Starter:** Identify the existing starter motor on your engine. It is typically mounted to the engine block near the flywheel.
4. **Disconnect Wiring:** Carefully disconnect all electrical wiring from the old starter. Note the position of each wire for correct reinstallation. Take photos if necessary.
5. **Remove Mounting Bolts:** Remove the bolts securing the old starter to the engine block. Support the starter as you remove the last bolt to prevent it from falling.
6. **Remove Old Starter:** Carefully pull the old starter away from the engine.
7. **Inspect Mounting Area:** Clean any debris or corrosion from the starter mounting surface on the engine block.
8. **Install New Starter:** Position the new BDELI starter (Model BD5777N) into the mounting location. Ensure the gear aligns correctly with the flywheel.



Figure 1: Front view of the BDELI starter replacement, showing the 14-tooth gear and mounting points.

9. **Secure Mounting Bolts:** Install the mounting bolts and tighten them to the manufacturer's specified torque. Do not overtighten.
10. **Reconnect Wiring:** Reconnect all electrical wiring to the new starter, ensuring each wire is attached to its correct terminal. Ensure connections are secure and free of corrosion.



Figure 2: Side view of the BDELI starter replacement, highlighting the motor housing and electrical connection points.

11. **Reconnect Battery:** Reconnect the positive (+) battery cable first, then the negative (-) cable. Ensure terminals are clean and tight.
12. **Test Operation:** Attempt to start the engine to verify proper starter function. Listen for any unusual noises.

6. OPERATION

Once the starter is installed, operate your equipment as per its manufacturer's instructions. The starter engages the engine's flywheel to initiate combustion. Avoid prolonged cranking to prevent overheating the starter motor and draining the battery.

- Ensure the equipment is in neutral or park before starting.
- Turn the ignition key to the 'START' position. Release the key once the engine starts.
- If the engine does not start immediately, wait a few seconds before attempting to crank again.

7. MAINTENANCE

Regular maintenance helps prolong the life of your starter and ensures reliable performance.

- **Battery Condition:** Ensure your battery is fully charged and in good condition. A weak battery can overwork the starter.
- **Terminal Connections:** Periodically check battery and starter cable connections for tightness and corrosion. Clean as necessary with a wire brush and apply dielectric grease.
- **Engine Condition:** A well-maintained engine that starts easily reduces the strain on the starter motor.
- **Avoid Over-Cranking:** Do not crank the engine for more than 5-10 seconds at a time. Allow the starter to cool for at least 30 seconds between attempts.

8. TROUBLESHOOTING

If you encounter issues with your starter, consult the table below for common problems and potential solutions.

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Starter does not engage or click	Dead or weak battery; Loose or corroded battery cables; Faulty ignition switch; Faulty starter solenoid.	Check battery charge and terminals; Inspect and clean cable connections; Test ignition switch and solenoid.
Starter cranks slowly	Low battery charge; Corroded battery cables; Engine oil too thick (cold weather); Internal engine issue.	Charge or replace battery; Clean battery terminals and cables; Use appropriate oil for temperature; Consult engine manual.
Starter spins but engine does not crank	Bendix drive (starter gear) not engaging flywheel; Damaged flywheel teeth.	Inspect starter gear and flywheel for damage; Ensure proper installation.
Starter makes grinding noise	Misalignment of starter gear and flywheel; Damaged starter gear or flywheel teeth.	Recheck starter alignment; Inspect gear and flywheel for wear or damage.

9. SPECIFICATIONS

Feature	Detail
Brand	BDELI
Model	BD5777N
Part Number	BDSTOD8540
Voltage	12 Volts
Material	OE Gear
Phase Type	Three Phase
Included Components	100% New Starter x 1

10. WARRANTY AND SUPPORT

BDELI is committed to providing high-quality products and customer satisfaction.

Warranty:

This product comes with a **1-Year Free Replacement Warranty**. If you encounter any quality issues within one year from the date of purchase, please contact our customer support for assistance.

Customer Support:

For technical assistance, warranty claims, or any questions regarding your BDELI starter, please contact our professional support team. We value every customer's experience and are dedicated to providing premium service. You can typically find contact information on the product packaging or through the retailer where the product was purchased. Please have your model number (BD5777N) and purchase date ready when contacting support.

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