

# Briggs And Stratton Repower Guide

## RE-POWERING GUIDELINES

If replacing a Briggs & Stratton engine with a Briggs & Stratton engine, provide the original engine's model and type numbers to assure the correct replacement. If replacing a competitor's engine with a Briggs & Stratton engine, let the horsepower and features of the original engine plus the expected work cycle be a guide in selecting the correct replacement. Also consider these factors:

### 1. Engine Selection

Match the engine's performance and cost to your specific application to get the optimum performance at an affordable price. That means better value for you.

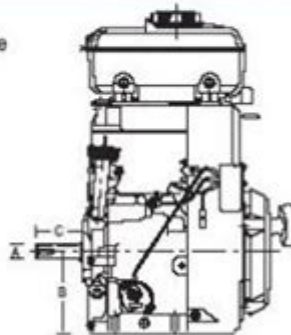
- **Vanguard™ OHV** (overhead valve) engines are maximum performance, cast iron cylinder sleeve engines – select for continuous heavy duty applications.
- **Industrial Plus™ and I/C®** (Industrial/Commercial) engines are cast iron cylinder sleeve, side valve engines – select for medium duty commercial, industrial and rental use.
- **Standard** engines are aluminum cylinder bore, side valve engines – select for general consumer use.

### 2. Safety Points

For many safe hours of operation, it is important to maintain the original engine's same horsepower, starter type and position, fuel tank location, fuel line routing, muffler location, exhaust direction and muffler accessories (i.e., deflector, spark arrestor, etc.). Reinstall all guards, shields and safety devices. Replace missing, worn or damaged parts.

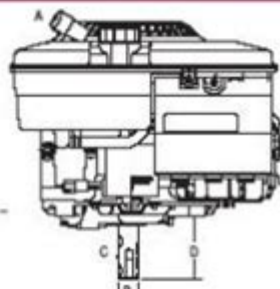
### 3. Horizontal Crankshaft Engines

- Compare overall engine size for possible mounting interference
- Match crankshaft's
  - Diameter "A"
  - Height "B" (distance from base to crankshaft center line)
  - Length "C" (distance from oil seal/cover's mounting face to end of crankshaft)
- Match crankshaft type, i.e., keyway, tapered or threaded
- Match crankcase cover's tapped holes for mounting accessories (if applicable)
- Match base mounting dimensions and bolt holes spacing



### 4. Vertical Crankshaft Engines

- Compare overall engine size for possible mounting interference
- Match starter type and starter grip position "A"
- Match crankshaft's
  - Diameter "B"
  - Keyway type "C"
  - Length "D" (distance from mounting face of sump – not oil seal – to end of crankshaft)
- Match mounting base dimensions and bolt holes spacing



Briggs and Stratton Repower Guide: If you own a lawn mower, generator, or any outdoor power equipment powered by a Briggs and Stratton engine, you may find yourself facing the decision to repower your machine. Repowering is not just a cost-saving measure; it can also breathe new life into an aging machine, improving its performance and efficiency. This comprehensive guide will walk you through the process of repowering your Briggs and Stratton engine, including when to consider it, how to choose the right replacement engine, and the steps involved in the repowering process.

## Understanding Repowering

Repowering is the process of replacing an old or malfunctioning engine with a new one. This is often a

more economical choice compared to purchasing a brand-new machine. Repowering can be particularly beneficial for equipment that still has a good chassis and other components but suffers from engine issues.

## **When to Consider Repowering**

There are several scenarios in which you might consider repowering your Briggs and Stratton equipment:

1. **Engine Failure:** If your engine has failed and repairing it would cost more than half the price of a new engine, repowering may be a wise option.
2. **Increased Efficiency:** Newer engines are often more fuel-efficient and environmentally friendly, making repowering a great way to reduce your carbon footprint.
3. **Enhanced Performance:** If your current engine is underpowered for your needs, a repower can provide the necessary boost.
4. **Longevity of Chassis:** If the rest of your equipment is in good shape, repowering can extend its lifespan significantly.

## **Choosing the Right Replacement Engine**

When considering a repower, selecting the right engine is crucial. Here are some factors to consider:

### **1. Compatibility**

- **Mounting Dimensions:** Ensure that the new engine fits the existing mounts on your equipment.
- **Shaft Size and Type:** Check the diameter and length of the crankshaft, as well as the type (vertical or horizontal) to ensure a proper fit.

### **2. Power Requirements**

- **Horsepower Rating:** Make sure the replacement engine has the same or greater horsepower than the original.
- **Torque Specifications:** Consider the torque ratings, especially for applications that require high starting power.

### **3. Fuel Type**

- **Gasoline vs. Diesel:** Most residential equipment uses gasoline, but some industrial machines may

operate on diesel. Ensure you choose an engine that matches your fuel type.

## 4. Brand and Model

- Genuine Briggs and Stratton Engines: Opt for genuine replacements for quality assurance and compatibility.
- Aftermarket Options: If considering aftermarket engines, ensure they have good reviews and warranties.

## Preparing for the Repower Process

Before you start the repowering process, you need to gather the necessary tools and materials. Here's a checklist:

- Tools Needed:
  - Socket set
  - Wrenches
  - Screwdrivers
  - Pliers
  - Torque wrench
  - Engine hoist or lifting device (for larger engines)
- Materials Needed:
  - Replacement engine
  - Mounting hardware (if not included with the engine)
  - Fuel line (if needed)
  - New oil and oil filter
  - Gaskets and seals (if required)

## Step-by-Step Repowering Process

Follow these steps to successfully repower your Briggs and Stratton engine:

### Step 1: Remove the Old Engine

1. Disconnect the Battery: If your equipment has an electric start, disconnect the battery to avoid accidental starts.
2. Drain Fluids: Drain the fuel and oil from the old engine to prevent spills.
3. Disconnect Components: Remove the throttle linkage, fuel line, and any electrical connections.
4. Unbolt the Engine: Remove the bolts securing the engine to the chassis. Use a lifting device if the

engine is heavy.

5. Remove the Engine: Carefully lift the old engine out of the chassis.

## **Step 2: Prepare the Chassis for the New Engine**

1. Clean the Mounting Surface: Remove any old gaskets and debris from the mounting area.
2. Inspect Components: Check the condition of the frame, fuel tank, and other components. Replace anything that appears worn or damaged.

## **Step 3: Install the New Engine**

1. Position the New Engine: Place the new engine onto the chassis, aligning it with the mounting holes.
2. Secure the Engine: Use the appropriate bolts and torque them to the manufacturer's specifications.
3. Reconnect Components: Reattach the throttle linkage, fuel lines, and electrical connections. Make sure all connections are secure.

## **Step 4: Fill Fluids**

1. Add Oil: Fill the new engine with oil according to the specifications found in the owner's manual.
2. Add Fuel: Fill the fuel tank with the appropriate type of fuel.

## **Step 5: Testing the New Engine**

1. Reconnect the Battery: If applicable, reconnect the battery.
2. Start the Engine: Attempt to start the engine and listen for any unusual noises.
3. Check for Leaks: Inspect all connections for fuel or oil leaks.
4. Perform a Test Run: Take your equipment for a test run to ensure everything is functioning correctly.

## **Maintenance Tips After Repowering**

To ensure the longevity of your new engine, follow these maintenance tips:

- Regular Oil Changes: Change the oil and filter regularly, following the manufacturer's recommendations.
- Keep It Clean: Regularly clean the engine and surrounding areas to prevent debris buildup.
- Check Air Filters: Replace air filters as needed to ensure optimal performance.
- Inspect Spark Plugs: Regularly check and replace spark plugs to maintain efficient combustion.
- Monitor Performance: Keep an eye on how the engine runs and address any issues immediately.

## **Conclusion**

Repowering your Briggs and Stratton engine can be a rewarding project that saves you money and enhances the performance of your equipment. By understanding the process, choosing the right replacement engine, and adhering to proper maintenance practices, you can extend the life of your outdoor power equipment significantly. Whether you're a DIY enthusiast or a casual user, this Briggs and Stratton Repower Guide will help you navigate the repowering process with confidence. Happy repowering!

## **Frequently Asked Questions**

### **What is a Briggs and Stratton repower guide?**

A Briggs and Stratton repower guide provides instructions and recommendations for replacing an old engine with a new Briggs and Stratton engine on various types of equipment, such as lawn mowers, generators, and other power tools.

### **Why should I consider repowering with a Briggs and Stratton engine?**

Repowering with a Briggs and Stratton engine can improve performance, increase fuel efficiency, and extend the lifespan of your equipment, making it a cost-effective alternative to purchasing new machinery.

### **What are the key steps in the repowering process?**

The key steps in the repowering process include selecting the right engine, removing the old engine, preparing the mounting area, installing the new engine, and ensuring proper alignment and connection of components.

### **How do I choose the right Briggs and Stratton engine for my equipment?**

To choose the right engine, consider the power requirements, engine type (2-stroke or 4-stroke), mounting dimensions, and compatibility with the existing equipment, referring to the manufacturer's

specifications.

## **Are there any specific tools required for repowering?**

Basic tools such as wrenches, screwdrivers, pliers, and possibly a torque wrench are typically required for the repowering process, along with safety equipment like gloves and goggles.

## **Can I repower my equipment myself, or should I hire a professional?**

If you have mechanical skills and experience with small engines, you can repower your equipment yourself. However, if you're unsure or lack experience, hiring a professional is recommended to ensure proper installation.

## **What maintenance is required after repowering?**

After repowering, regular maintenance includes checking oil levels, changing the oil as needed, inspecting air filters, and ensuring all bolts and connections remain tight to ensure optimal performance of the new engine.

## **Is repowering with a Briggs and Stratton engine environmentally friendly?**

Yes, repowering can be environmentally friendly as it reduces waste by extending the life of existing equipment and newer Briggs and Stratton engines often have improved emissions and fuel efficiency.

## **Where can I find a Briggs and Stratton repower guide?**

You can find a Briggs and Stratton repower guide on the official Briggs and Stratton website, through authorized dealers, or in repair manuals specific to your equipment type.

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