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## Briggs & Stratton 381573EN

# Briggs & Stratton Engine Repair Manual

MODEL 130000 SERIES (OEM PART NUMBER 381573EN)

### Introduction

This manual provides comprehensive repair and maintenance instructions for Briggs & Stratton Model 130000 series engines. It is an Official Equipment Manufacturer (OEM) product, part number 381573EN, ensuring accuracy and reliability for servicing your engine. Adherence to the procedures outlined in this manual is crucial for proper engine function and longevity.



This image displays the cover of the Briggs & Stratton OEM 381573EN Engine Repair Manual, featuring the brand logo and model information.

### Safety Information

Always prioritize safety when performing any maintenance or repair on your engine. Failure to follow safety precautions can result in serious injury or damage to the equipment.

- **Disconnect Spark Plug:** Before performing any service, always disconnect the spark plug wire to prevent

accidental starting.

- **Fuel Handling:** Handle fuel in a well-ventilated area, away from sparks or open flames. Store fuel in approved containers.
- **Hot Surfaces:** Engines can remain hot for a significant time after operation. Allow the engine to cool before servicing.
- **Protective Gear:** Wear appropriate personal protective equipment, including safety glasses and gloves.
- **California Proposition 65 Warning:** This product can expose you to chemicals including engine exhaust, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Preparation for Service

Before beginning any repair or maintenance task, proper preparation is essential.

1. **Clean the Engine:** Remove dirt, debris, and grass clippings from the engine exterior to prevent contamination during service.
2. **Gather Tools:** Ensure all necessary tools and replacement parts are readily available. Refer to the manual's specific section for required tools for each procedure.
3. **Drain Fluids:** For certain repairs, it may be necessary to drain fuel and engine oil. Follow instructions for proper disposal of fluids.
4. **Stabilize Equipment:** Ensure the equipment the engine is mounted on is stable and cannot move unexpectedly.

## Repair Procedures

This manual details various repair procedures for the Model 130000 series engines. Each section is dedicated to specific components or systems, providing step-by-step instructions, diagrams, and specifications.

- **Engine Disassembly and Assembly:** Detailed steps for taking apart and reassembling engine components.
- **Fuel System Service:** Instructions for carburetor cleaning, fuel line replacement, and fuel filter service.
- **Ignition System Service:** Procedures for spark plug inspection, ignition coil testing, and flywheel key replacement.
- **Lubrication System:** Guidance on oil changes, oil filter replacement, and oil pump service.
- **Valve Train Service:** Adjustments and replacement procedures for valves, pushrods, and lifters.

Always refer to the specific chapter or section relevant to the repair you are undertaking for precise instructions and torque specifications.

## Maintenance Schedule

Regular maintenance is vital for the performance and longevity of your Briggs & Stratton engine. Follow the recommended schedule for optimal operation.

Service Item	Frequency
Check Engine Oil Level	Before each use
Clean Air Filter	Every 25 hours or annually
Change Engine Oil	Every 50 hours or annually
Inspect Spark Plug	Every 100 hours or annually
Replace Spark Plug	Every 100 hours or annually
Clean Cooling Fins	Every 100 hours or annually
Inspect/Clean Fuel Filter	Annually

*Note:* Service intervals may vary based on operating conditions. Refer to the full manual for detailed maintenance procedures and specific recommendations for your engine model.

## Troubleshooting Guide

This section provides a general guide to common engine problems and their potential solutions. For detailed diagnostic steps, consult the specific troubleshooting chapter within the manual.

- **Engine Will Not Start:**
  - Check fuel level and quality.
  - Ensure spark plug wire is connected and spark plug is clean/gapped correctly.
  - Verify air filter is clean and not obstructed.
  - Check for proper choke operation.
- **Engine Runs Rough or Misfires:**
  - Inspect spark plug for fouling or damage.
  - Check fuel system for contamination or restrictions.
  - Ensure air filter is clean.
- **Engine Smokes:**
  - **Blue Smoke:** Indicates oil burning; check oil level and engine wear.
  - **Black Smoke:** Indicates rich fuel mixture; check air filter and carburetor settings.
  - **White Smoke:** Often steam from condensation, especially in cold weather. Persistent white smoke may indicate internal coolant leak (if applicable).

## Specifications

This repair manual (part number 381573EN) contains detailed specifications for the Briggs & Stratton Model 130000 series engines, including torque values, clearances, and component dimensions. Below are the physical specifications for the manual itself:

- **Part Number:** 381573EN
- **Brand:** Briggs & Stratton

- **Material:** Stainless Steel (referring to binding/fasteners, not paper)
- **Color:** Black (cover)
- **Item Weight:** Approximately 0.16 ounces
- **Product Dimensions:** Approximately 1 x 1 x 1 inches
- **UPC:** 047282138618
- **Specific Uses:** Lawn Mower Operation, Lawn Mower Maintenance (as a guide)

## Warranty and Support

For information regarding product warranty, please refer to the documentation included with your Briggs & Stratton engine or visit the official Briggs & Stratton website. This repair manual itself is an OEM part and typically does not carry a separate warranty beyond its intended purpose as a guide.

For additional support, parts ordering, or to locate an authorized service dealer, please visit the official Briggs & Stratton website or contact their customer service department. You can find more information at the [Briggs & Stratton Store](#).