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Briggs & Stratton 594601

Briggs & Stratton 594601 Carburetor Instruction Manual

Model: 594601

1. Product Overview

The Briggs & Stratton 594601 Carburetor is a mechanical component designed to supply a consistent and steady flow of fuel to your engine. It precisely mixes fuel with air to ensure proper engine operation and optimal combustion. This carburetor is engineered to withstand the demands of engine operation, contributing to its longevity and reliable performance.



Image 1.1: Briggs & Stratton 594601 Carburetor, front view.

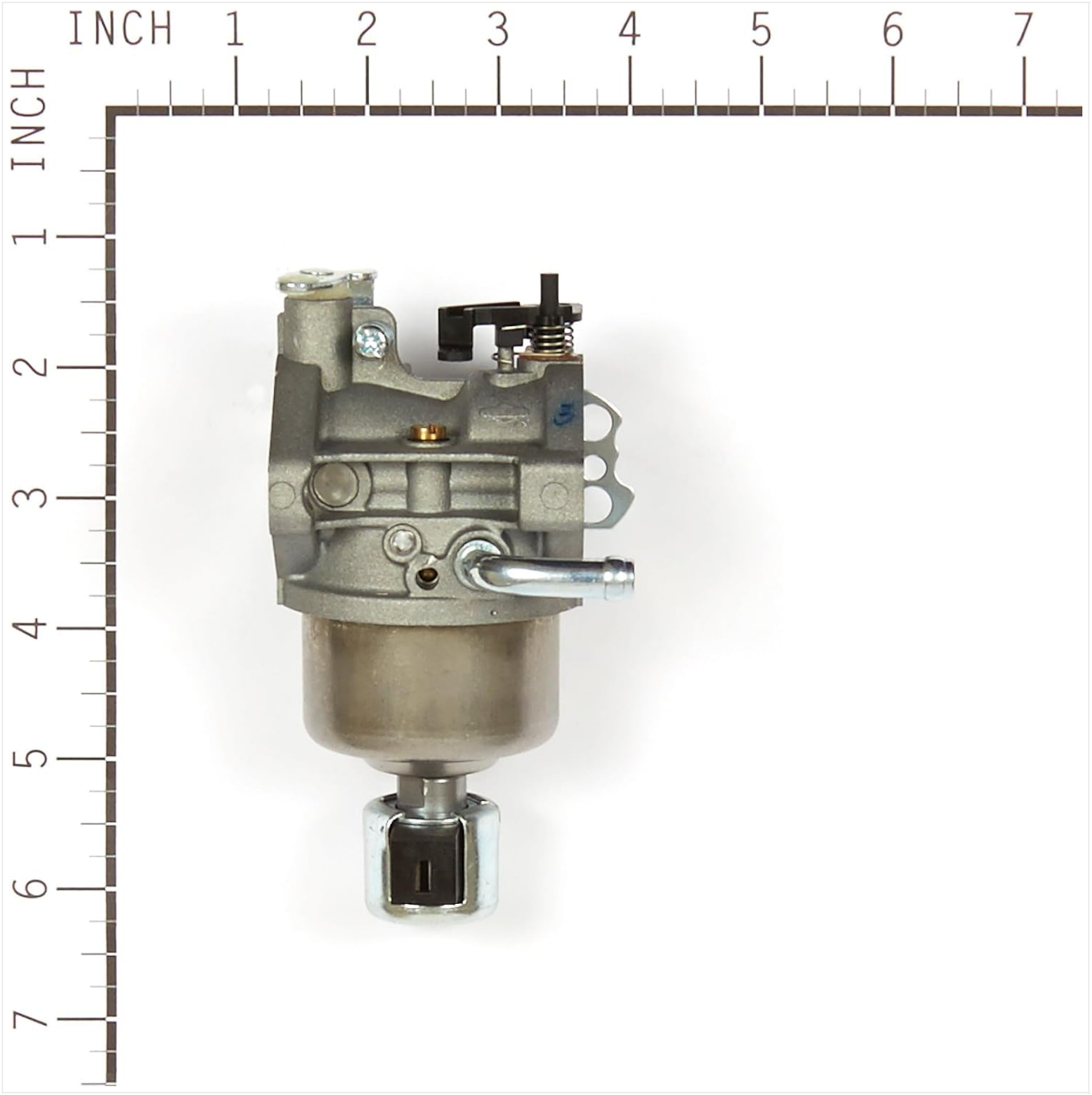

Image 1.2: Briggs & Stratton 594601 Carburetor, side view.

2. Engine Compatibility

This carburetor is compatible with various Briggs & Stratton engine models. To ensure correct fitment, always verify the engine's model number. The 594601 carburetor fits many engines in the following series:

- 331707
- 331777
- 331807
- 331877
- 331977
- 33M677
- 33M777
- 33M977
- 33R777

- 33R877
- 33S777
- 33S877

For specific compatibility questions, refer to your engine's operator manual or contact Briggs & Stratton customer support.

3. Installation Instructions

Proper installation of the carburetor is crucial for optimal engine performance. Always refer to your engine's specific service manual for detailed, step-by-step instructions. The following is a general guide:

1. **Safety First:** Disconnect the spark plug wire to prevent accidental engine starting. Ensure the engine is cool.
2. **Fuel Drainage:** Drain the fuel tank and carburetor bowl.
3. **Remove Air Filter Assembly:** Carefully detach the air filter housing and any associated components to access the carburetor.
4. **Disconnect Linkages and Hoses:** Disconnect the fuel line, throttle linkage, choke linkage, and any other hoses or wires connected to the old carburetor. Note their positions for reassembly.
5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine manifold.
6. **Install New Carburetor:** Place the new Briggs & Stratton 594601 Carburetor, ensuring new gaskets are properly seated between the carburetor and the engine manifold. Secure with bolts.
7. **Reconnect Components:** Reattach all fuel lines, linkages, and wires to their correct positions.
8. **Reinstall Air Filter Assembly:** Reassemble the air filter housing and related components.
9. **Refuel and Test:** Refill the fuel tank with fresh fuel. Reconnect the spark plug wire. Start the engine and check for leaks or unusual operation.



Image 3.1: General illustration of carburetor installation on an engine.

4. Operating Principles

The carburetor's primary function is to atomize fuel and mix it with air in the correct ratio for combustion. This precise mixture is then delivered to the engine's cylinders. The Briggs & Stratton 594601 Carburetor is designed to provide an optimal fuel-air mixture across various engine speeds and loads, ensuring efficient power delivery and smooth operation. It allows for fine-tuning of the fuel and air mixture to adapt to different operating conditions, thereby improving overall engine efficiency.

5. Maintenance and Care

Regular maintenance of your carburetor helps ensure long-term reliability and peak engine performance. Always consult your engine's operator manual for specific maintenance schedules and procedures.

5.1. Fuel Quality

Use fresh, clean gasoline. Stale or contaminated fuel can lead to deposits and blockages within the carburetor, affecting its performance. Consider using a fuel stabilizer, especially during storage periods.

5.2. Cleaning

If the engine experiences issues like surging or rough idling, the carburetor may require cleaning. This typically involves disassembling the carburetor and cleaning its components with a specialized carburetor cleaner. Pay close attention to jets and passages to ensure they are free of debris.



Image 5.1: Detailed view of the carburetor components.

5.3. Gasket Replacement

When performing maintenance or cleaning, always replace old gaskets with new ones to ensure a proper seal and prevent fuel leaks or air intake issues.

6. Troubleshooting Common Issues

If your engine is experiencing performance problems, the carburetor may be a contributing factor. Here are some common issues and potential solutions:

Symptom	Possible Cause	Solution
Engine Surging or Hunting	Clogged fuel passages or jets in the carburetor.	Clean the carburetor thoroughly. Ensure all passages are clear.
Hard Starting or No Start	Clogged carburetor, improper choke operation, or fuel delivery issues.	Check fuel lines for blockages. Clean or replace the carburetor. Verify choke mechanism.

Symptom	Possible Cause	Solution
Rough Running or Stalling	Incorrect fuel-air mixture, dirty carburetor, or worn gaskets.	Clean the carburetor. Inspect and replace gaskets if necessary.
Fuel Leaks	Damaged float bowl gasket, loose screws, or cracked carburetor body.	Inspect and replace gaskets. Tighten screws. If body is cracked, replace carburetor.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified service technician or refer to your engine's detailed service manual.

7. Product Specifications

- **Brand:** Briggs & Stratton
- **Model Number:** 594601
- **Flange Type:** Bolt On
- **Fuel Type:** Gasoline
- **Product Dimensions:** 2.63 x 3.13 x 4.75 inches
- **Item Weight:** 12 ounces
- **GTIN (Global Trade Identification Number):** 047282087107
- **ASIN:** B01L1HUHSK

8. Warranty and Support

For information regarding the warranty of your Briggs & Stratton 594601 Carburetor, please refer to the documentation included with your engine or contact Briggs & Stratton customer service directly. You can find contact information and additional support resources on the official Briggs & Stratton website: www.briggsandstratton.com.

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