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Briggs & Stratton 594593

Briggs & Stratton 594593 Carburetor Instruction Manual

1. OVERVIEW

This manual provides essential information for the proper installation, operation, and maintenance of your Briggs & Stratton 594593 Carburetor. The carburetor is a critical component in your outdoor power equipment's engine, responsible for mixing fuel and air to ensure efficient combustion. Using genuine Briggs & Stratton parts helps maintain optimal engine performance and compliance with emission regulations.



Image 1.1: Front view of the Briggs & Stratton 594593 Carburetor.

2. KEY FEATURES

- **Genuine Briggs & Stratton Part:** Ensures compatibility and performance as designed by the original equipment manufacturer (OEM).
- **Optimized Performance:** Specifically engineered and tested to deliver the best performance in Briggs & Stratton engines.
- **Emission Compliance:** Guarantees that the engine adheres to applicable EPA emission regulations when installed correctly.
- **Durable Construction:** Built to withstand the demands of outdoor power equipment operation.

3. SETUP AND INSTALLATION

Proper installation of the carburetor is crucial for engine safety and performance. Always refer to the specific operator's manual for your engine model for detailed, step-by-step instructions and safety precautions. If you are unsure about any step, it is recommended to seek assistance from a qualified service technician.

General Installation Steps:

1. **Safety First:** Ensure the engine is cool, spark plug wire is disconnected, and fuel supply is shut off before beginning any work.
2. **Drain Fuel:** Safely drain any remaining fuel from the fuel tank and carburetor bowl.
3. **Remove Air Filter Assembly:** Disconnect and remove the air filter housing and any associated components to access the carburetor.
4. **Disconnect Linkages and Hoses:** Carefully disconnect the throttle and choke linkages, as well as fuel lines and any vacuum hoses attached to the old carburetor. Note their positions for reassembly.
5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine intake manifold. Be mindful of gaskets and spacers.
6. **Install New Carburetor:** Place new gaskets (if required and not included, acquire separately) and spacers, then mount the new Briggs & Stratton 594593 Carburetor onto the engine. Secure with bolts to the manufacturer's specified torque.
7. **Reconnect Components:** Reattach all linkages, fuel lines, and vacuum hoses to their correct positions.
8. **Reinstall Air Filter Assembly:** Reassemble the air filter housing and ensure all connections are secure.
9. **Refuel and Test:** Refill the fuel tank with fresh, appropriate fuel. Reconnect the spark plug wire. Start the engine and check for leaks or abnormal operation.

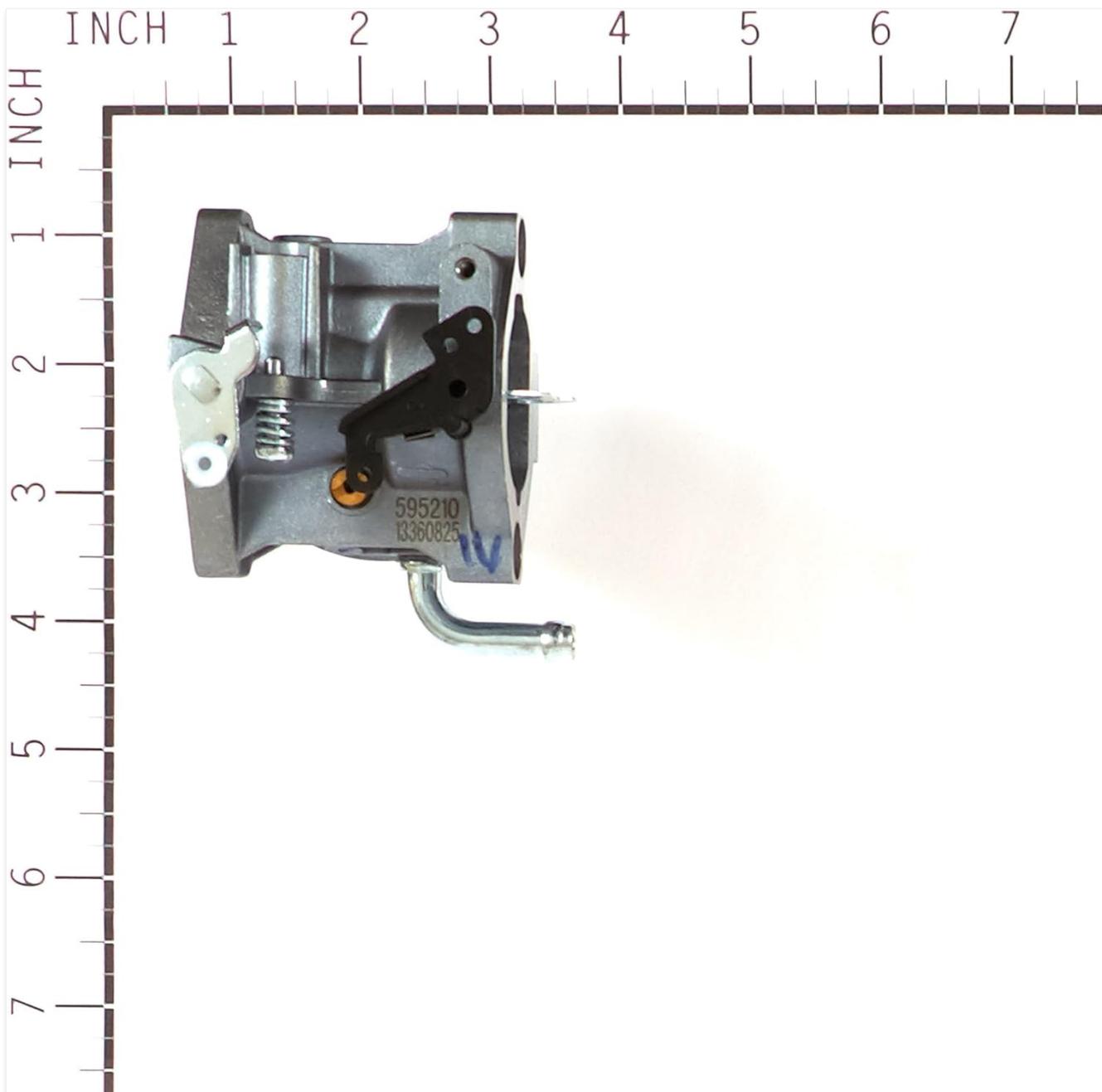


Image 3.1: Side view of the Briggs & Stratton 594593 Carburetor, showing linkage points.

4. OPERATING INSTRUCTIONS

The Briggs & Stratton 594593 Carburetor is designed to work seamlessly with compatible Briggs & Stratton engines. Once properly installed, its operation is integrated with the engine's overall system. For specific engine starting procedures, choke settings, and throttle control, always refer to the operator's manual provided with your outdoor power equipment.

The carburetor's primary function is to atomize fuel and mix it with air in precise ratios, delivering this mixture to the engine's combustion chamber. This process is automatically managed by the engine's governor and choke mechanisms, which are typically controlled by the equipment's user interface.

5. MAINTENANCE

Regular maintenance of your carburetor and fuel system is essential for prolonging engine life and ensuring reliable performance. Always consult your engine's operator's manual for recommended maintenance schedules and procedures.

General Maintenance Tips:

- **Fuel Quality:** Use fresh, clean, and appropriate fuel as specified by your engine manufacturer. Stale or contaminated fuel is a common cause of carburetor issues.
- **Fuel Stabilizer:** If storing equipment for extended periods, use a fuel stabilizer to prevent fuel degradation and gumming in the carburetor.
- **Air Filter:** Regularly inspect and clean or replace the air filter. A clogged air filter can affect the air-fuel mixture and engine performance.
- **Carburetor Cleaning:** If performance issues arise, the carburetor may require cleaning. This often involves disassembling the carburetor, cleaning jets and passages with carburetor cleaner, and replacing gaskets. This task may require specialized tools and knowledge.
- **Fuel Filter:** Check and replace the fuel filter periodically to prevent debris from reaching the carburetor.



Image 5.1: Example of a Briggs & Stratton maintenance kit, including components vital for engine and carburetor health.

6. TROUBLESHOOTING

If your engine experiences issues after carburetor installation or during operation, consider the following common troubleshooting steps. For detailed diagnostics and repair, always refer to your engine's operator's manual or consult a certified technician.

Common Issues and Potential Solutions:

- **Engine Not Starting:**
 - Check fuel level and ensure fresh fuel is used.
 - Verify spark plug is clean and properly gapped.
 - Ensure choke is functioning correctly.
 - Check for proper fuel flow to the carburetor.
- **Engine Runs Rough or Surges:**
 - Inspect air filter for clogs.
 - Check for loose connections or air leaks around the carburetor.
 - Ensure fuel is clean and free of water or debris.
 - Carburetor jets may be partially clogged and require cleaning.
- **Engine Lacks Power:**

- Verify air filter is clean.
- Check for proper throttle linkage operation.
- Ensure carburetor is receiving adequate fuel.

Note: The provided videos are user-generated and do not meet the criteria for official product video embedding. For official troubleshooting guides, please refer to the Briggs & Stratton website or your engine's operator manual.

7. SPECIFICATIONS

Specification	Detail
Brand	Briggs & Stratton
Model Number	594593
Fuel Type	Gasoline
Product Dimensions (D x W x H)	2.65" x 5.25" x 4"
Item Weight	0.75 Pounds
Included Components	Carburetor
UPC / GTIN	047282087053

8. WARRANTY INFORMATION

As a genuine Briggs & Stratton part, this carburetor is covered by the manufacturer's standard warranty for replacement parts. Specific warranty terms, conditions, and duration may vary. Please refer to the official Briggs & Stratton website or contact their customer service for detailed warranty information applicable to your region and product.

9. SUPPORT

For further assistance, technical support, or to locate authorized service centers, please visit the official Briggs & Stratton website or contact their customer support line. When contacting support, have your engine model number and the carburetor part number (594593) readily available.

Briggs & Stratton Official Website: www.briggsandstratton.com