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Briggs & Stratton 593357

Briggs & Stratton 593357 Carburetor Instruction Manual

For Optimal Performance of Outdoor Power Equipment

Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Briggs & Stratton 593357 Carburetor. This component is designed to ensure precise air-fuel blending for optimal engine performance in various outdoor power equipment. Please read this manual thoroughly before attempting any procedures.

Safety Information

Always prioritize safety when working with engine components and fuel. Failure to follow safety instructions can result in serious injury or property damage.

- Ensure the engine is turned off and cooled down before beginning any work.
- Disconnect the spark plug wire to prevent accidental starting.
- Work in a well-ventilated area to avoid inhaling fuel fumes.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Handle gasoline with extreme care. Store it in approved containers away from ignition sources.
- Keep children and pets away from the work area.

Setup and Installation

The Briggs & Stratton 593357 Carburetor is a direct replacement part for various Briggs & Stratton engines. Verify compatibility with your specific engine model before installation. Compatible engine series include: 12A102, 12A103, 12A105, 12A106, 12A107, 12A112, 12A113, 12A114, 12A116, 12A117, 12D105, 12D312, 12D313, 12D314, 12D332, 12D393.

Installation Steps:

1. **Preparation:** Ensure the engine is off, cool, and the spark plug wire is disconnected. Drain any fuel from the tank and fuel lines.
2. **Remove Air Filter Assembly:** Carefully detach the air filter housing and any associated components to access the carburetor.
3. **Disconnect Fuel Line:** Pinch off the fuel line and disconnect it from the old carburetor. Be prepared for minor fuel spillage.
4. **Disconnect Linkages:** Detach any throttle and choke linkages connected to the carburetor. Note their positions for reassembly.

5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine. Ensure all old gaskets are removed from the mounting surfaces.
6. **Install New Carburetor:** Place new gaskets (typically included with the carburetor) onto the mounting studs. Position the new Briggs & Stratton 593357 Carburetor, ensuring proper alignment.
7. **Secure Carburetor:** Fasten the carburetor bolts, tightening them evenly to prevent air leaks.
8. **Reconnect Linkages and Fuel Line:** Reattach the throttle and choke linkages in their original positions. Reconnect the fuel line securely.
9. **Reassemble Air Filter:** Reinstall the air filter assembly.
10. **Refuel and Test:** Refill the fuel tank. Reconnect the spark plug wire. Start the engine and check for proper operation and any fuel leaks.

If you are unsure about any step, it is recommended to consult a qualified service technician.



Image 1: The Briggs & Stratton 593357 Carburetor. This image displays the main component, highlighting its design and connection points for fuel and air intake.

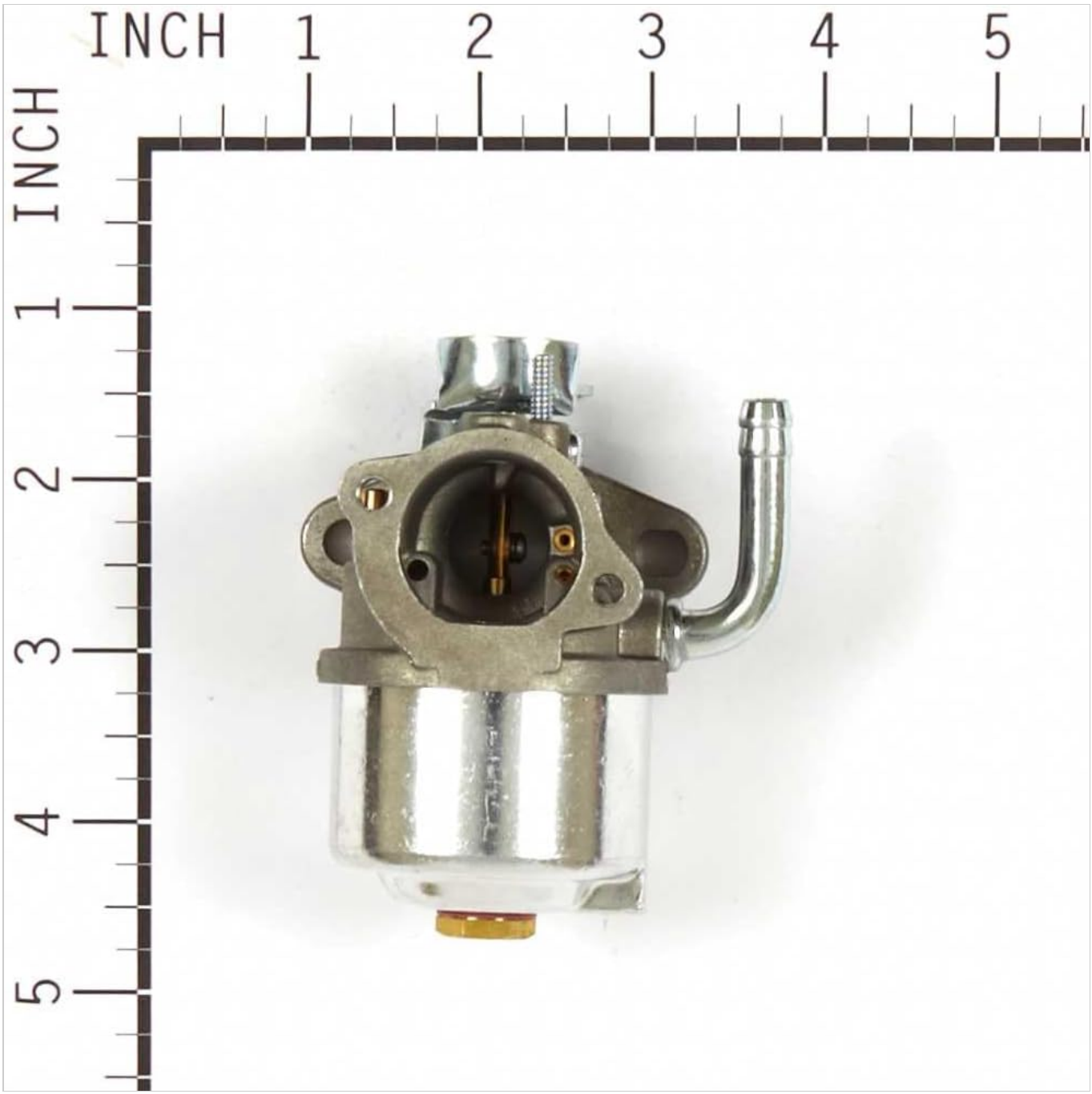


Image 2: The Briggs & Stratton 593357 Carburetor shown with a ruler for scale. This view provides a clear indication of the component's dimensions, aiding in identification and fitment.

Operating Principles

The carburetor's primary function is to mix air and fuel in the correct proportions for combustion within the engine. The Briggs & Stratton 593357 Carburetor is engineered for:

- **Precise Air-Fuel Blending:** Ensures the optimal ratio for efficient combustion and power output.
- **Consistent Power and Smooth Operation:** Maintains a stable fuel supply to the engine, contributing to reliable performance.
- **Adjustable Fuel-Air Mixture:** Allows for fine-tuning to adapt to varied operating conditions, though factory settings are typically optimized.

Maintenance

Regular maintenance of your carburetor is crucial for extending the lifespan of your outdoor power equipment and ensuring

consistent performance.

- **Fuel Quality:** Always use fresh, clean gasoline. Stale or contaminated fuel is a common cause of carburetor issues. Consider using a fuel stabilizer if equipment is stored for extended periods.
- **Air Filter:** Regularly inspect and clean or replace the air filter. A clogged air filter can restrict airflow, leading to an overly rich fuel mixture and poor engine performance.
- **Carburetor Cleaning:** If performance issues arise, the carburetor may require cleaning. This typically involves disassembling the carburetor, cleaning jets and passages with carburetor cleaner, and replacing gaskets. This procedure should only be performed by individuals with mechanical aptitude or a qualified technician.
- **Inspection:** Periodically inspect fuel lines for cracks or leaks and ensure all connections are secure.

Troubleshooting

This section addresses common issues related to carburetor function. Always refer to the engine's specific service manual for detailed troubleshooting steps.

Symptom	Possible Cause	Solution
Engine will not start	No fuel, clogged fuel filter, clogged carburetor jet, faulty spark plug.	Check fuel level. Replace fuel filter. Clean or replace carburetor. Inspect/replace spark plug.
Engine runs rough or stalls	Dirty carburetor, incorrect air-fuel mixture, old or contaminated fuel, air leak.	Clean carburetor. Adjust mixture (if applicable). Drain and replace fuel. Check for loose connections/gaskets.
Engine lacks power	Clogged air filter, dirty carburetor, incorrect valve clearance (engine issue).	Clean/replace air filter. Clean carburetor. Consult engine manual for valve adjustment.
Fuel leaks from carburetor	Damaged float, worn needle valve, loose bowl screw, damaged gasket.	Inspect and replace float/needle valve. Tighten bowl screw. Replace gaskets.

Specifications

- **Brand:** Briggs & Stratton
- **Model Number:** 593357
- **Compatible Engine Series:** 12A102, 12A103, 12A105, 12A106, 12A107, 12A112, 12A113, 12A114, 12A116, 12A117, 12D105, 12D312, 12D313, 12D314, 12D332, 12D393
- **Fuel Type:** Gasoline
- **Item Weight:** Approximately 0.01 ounces (0.28 grams)
- **Product Dimensions:** Approximately 5 x 3 x 4 inches (12.7 x 7.6 x 10.2 cm)
- **Manufacturer Part Numbers (Cross-reference):** 498260, 398188, 594058, 692189, 694395, 795083, 692187, 691859, 594593, 694394, 591299, 398187
- **UPC:** 047282022849

Warranty Information

Warranty coverage for the Briggs & Stratton 593357 Carburetor is typically provided by the manufacturer. Specific terms and conditions, including duration and coverage details, are usually included with your purchase documentation or can be found on the official Briggs & Stratton website. Please retain your proof of purchase for any warranty claims.

Support

For further assistance, technical support, or to locate authorized service centers, please visit the official Briggs & Stratton website or contact their customer service department. You can also find more information and products at the Briggs & Stratton Store.

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