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Briggs & Stratton 594287

Briggs & Stratton 594287 Carburetor Instruction Manual

MODEL: 594287 (REPLACES 799248)

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your genuine Briggs & Stratton 594287 carburetor. This component is a critical part of your lawn and garden equipment engine, ensuring optimal fuel delivery and performance. Please read this manual thoroughly before attempting any installation or maintenance procedures.

Safety Information

Always prioritize safety when working with engine components. Disconnect the spark plug wire before performing any service to prevent accidental starting. Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves. Ensure the work area is well-ventilated and free from ignition sources when handling fuel.

- **Fuel Handling:** Gasoline is highly flammable. Store in approved containers and handle with extreme care.
- **Hot Surfaces:** Engine components can become very hot. Allow the engine to cool before servicing.
- **Tools:** Use the correct tools for each task to prevent damage to the carburetor or engine.

Product Overview

The Briggs & Stratton 594287 carburetor is an Original Equipment Manufacturer (OEM) part designed to precisely mix air and fuel for combustion in your engine. It is a direct replacement for part number 799248.



Image: The Briggs & Stratton 594287 carburetor, a genuine OEM replacement part for lawn and garden equipment engines.

Installation Instructions

Proper installation is crucial for the carburetor's function. If you are unsure about any step, consult a qualified service technician.

Tools Required:

- Socket Wrench Set
- Screwdriver Set
- Pliers
- New Gaskets (often included with new carburetor or sold separately)

Installation Steps:

1. **Preparation:** Ensure the engine is cool and the spark plug wire is disconnected. Drain the fuel tank.
2. **Remove Air Filter Assembly:** Carefully detach the air filter housing and any associated hoses.
3. **Disconnect Fuel Line:** Pinch off the fuel line and disconnect it from the old carburetor. Be prepared for minor fuel spills.
4. **Remove Old Carburetor:** Unbolt the old carburetor from the engine manifold. Note the position of any linkages, springs, or gaskets.
5. **Clean Mounting Surface:** Ensure the engine mounting surface is clean and free of old gasket material.
6. **Install New Gaskets:** Place new gaskets in their correct positions between the engine, carburetor, and air filter base.
7. **Mount New Carburetor:** Carefully position the new Briggs & Stratton 594287 carburetor and secure it with the mounting bolts. Do not overtighten.
8. **Connect Linkages and Fuel Line:** Reattach all throttle and choke linkages, ensuring they move freely. Reconnect the fuel line securely.
9. **Reassemble Air Filter:** Reinstall the air filter assembly.
10. **Refill Fuel and Test:** Refill the fuel tank, reconnect the spark plug wire, and start the engine to check for proper operation and leaks.

Carburetor Function

The carburetor's primary role is to atomize fuel and mix it with air in the correct ratio for efficient combustion. It uses the Venturi effect to create a low-pressure area, drawing fuel from the float bowl into the airstream. The choke and throttle plates control the air and fuel flow to match engine demands.

- **Float Bowl:** Stores a small reservoir of fuel, maintained at a constant level by a float and needle valve.
- **Main Jet:** Controls the amount of fuel entering the engine at higher speeds.
- **Idle Jet:** Controls fuel delivery at low engine speeds.
- **Choke:** Restricts airflow to enrich the fuel mixture for cold starting.
- **Throttle:** Controls the amount of air-fuel mixture entering the engine, thereby regulating engine speed.

Maintenance

Regular maintenance extends the life of your carburetor and ensures reliable engine performance.

- **Fuel Quality:** Always use fresh, clean gasoline. Stale or contaminated fuel is a leading cause of carburetor issues.
- **Fuel Stabilizer:** Use a fuel stabilizer if the equipment will be stored for more than 30 days.
- **Fuel Filter:** Inspect and replace the fuel filter regularly to prevent debris from reaching the carburetor.
- **Air Filter:** Keep the air filter clean to ensure proper airflow to the carburetor. A dirty air filter can cause a rich fuel mixture.
- **Carburetor Cleaning:** If performance issues arise, the carburetor may need cleaning. This typically involves disassembling, cleaning jets and passages with carburetor cleaner, and replacing gaskets. This procedure should only be performed by individuals with mechanical experience.

Troubleshooting Common Issues

Symptom	Possible Cause	Solution
Engine won't start	Clogged fuel line/filter, dirty carburetor, stale fuel	Check fuel supply, clean/replace fuel filter, clean carburetor, use fresh fuel
Engine runs rough/surges	Partially clogged jet, air leak, incorrect idle adjustment	Clean carburetor, check for loose connections, adjust idle screw
Engine lacks power	Clogged main jet, dirty air filter	Clean carburetor, replace air filter
Fuel leaks from carburetor	Damaged float, worn needle valve, loose bowl screw, damaged gasket	Inspect/replace float and needle valve, tighten screws, replace gaskets

If these steps do not resolve the issue, professional service may be required.

Specifications

Part Number: 594287

Replaces Part Number: 799248

Type: Genuine Original Equipment Manufacturer (OEM) Carburetor

Compatibility: Specific Briggs & Stratton Engine Models (refer to engine manual for exact fitment)

Dimensions: Approximately 48"D x 48"W x 48"H *(Note: These dimensions typically refer to shipping packaging, not the carburetor itself.)*

Item Weight: Approximately 51 pounds *(Note: This weight typically refers to shipping weight, not the carburetor itself.)*

Manufacturer: Briggs & Stratton

Warranty and Support

As a genuine Briggs & Stratton OEM part, this carburetor is covered by the manufacturer's standard warranty for original equipment parts. For specific warranty terms and conditions, please refer to the documentation provided with your engine or contact Briggs & Stratton customer support directly.

For technical assistance or further inquiries, please visit the official Briggs & Stratton website or contact their authorized service centers.

Briggs & Stratton Official Website: www.briggsandstratton.com

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