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Briggs & Stratton 299437

Briggs & Stratton 299437 Carburetor Instruction Manual

Model: 299437 (Replaces 297599)

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Briggs & Stratton 299437 Carburetor. This genuine replacement part is designed to ensure optimal performance and compliance with emission regulations for compatible Briggs & Stratton engines. Please read all instructions carefully before proceeding with installation or maintenance.

Product Overview

The Briggs & Stratton 299437 Carburetor is a genuine OEM replacement part engineered for specific Briggs & Stratton engine series. It is crucial for mixing air and fuel in the correct proportions for combustion, ensuring efficient engine operation.



Image: The Briggs & Stratton 299437 Carburetor, a genuine replacement component.

Key Features:

- Genuine Briggs & Stratton Part Number 299437
- Fits Briggs & Stratton Engine Series 135200, 130200, 100200
- Replaces Old Briggs Part Number 297599
- Designed to OEM standards for optimum performance

Safety Information

Always prioritize safety when working with engine components. Failure to follow safety precautions can result in serious injury or damage to equipment.

- **Disconnect Spark Plug:** Before performing any service, disconnect the spark plug wire to prevent accidental engine starting.
- **Fuel Handling:** Gasoline is highly flammable. Handle fuel in a well-ventilated area, away from sparks, open flames, or other ignition sources.

- **Eye Protection:** Wear appropriate eye protection to shield against fuel splashes or debris.
- **Ventilation:** Ensure adequate ventilation when working with fuel or cleaning agents.
- **Hot Surfaces:** Engine components can be hot. Allow the engine to cool completely before servicing.
- **Professional Assistance:** If you are unsure about any step, consult a qualified service technician.

Setup and Installation

Replacing a carburetor requires careful attention to detail. Refer to your specific engine's service manual for detailed, step-by-step instructions, as procedures may vary slightly between models.

General Installation Steps:

1. **Preparation:** Ensure the engine is cool and the spark plug wire is disconnected. Drain the fuel tank if necessary.
2. **Access:** Remove any air filter assemblies, shrouds, or other components that obstruct access to the carburetor.
3. **Disconnect:** Carefully disconnect fuel lines, throttle linkages, and choke linkages from the old carburetor. Note their positions for reassembly.
4. **Remove Old Carburetor:** Unbolt the old carburetor from the engine. Be mindful of gaskets between the carburetor and the engine block/intake manifold.
5. **Install New Carburetor:** Install new gaskets (often sold separately or with the carburetor) and mount the new Briggs & Stratton 299437 Carburetor. Ensure it is seated correctly and tighten mounting bolts to the manufacturer's specifications.
6. **Reconnect:** Reconnect all fuel lines, throttle linkages, and choke linkages. Double-check that all connections are secure and correctly routed.
7. **Final Checks:** Reinstall any removed shrouds or air filter components. Reconnect the spark plug wire.



Image: A technician's hands performing work on an engine, likely during carburetor replacement or adjustment.

After installation, refill the fuel tank with fresh, clean fuel. Start the engine and allow it to warm up. Minor adjustments to the idle speed or mixture screws may be necessary, referring to your engine's service manual for specific procedures.

Operating Principles

The carburetor's primary function is to atomize fuel and mix it with air in precise ratios before it enters the engine's combustion chamber. This process is critical for efficient engine starting, smooth idling, and consistent power output across various engine speeds. The 299437 carburetor is designed to maintain these optimal fuel-air mixtures for the specified Briggs & Stratton engine series.

Maintenance

Regular maintenance of your carburetor and fuel system is essential for prolonging engine life and ensuring reliable operation.

Recommended Maintenance:

- **Fuel Quality:** Always use fresh, clean, unleaded gasoline. Stale fuel or fuel containing ethanol can cause deposits and corrosion within the carburetor. Consider using a fuel stabilizer, especially during storage.
- **Fuel Filter:** Inspect and replace the fuel filter regularly according to your engine's maintenance schedule. A clogged fuel filter can restrict fuel flow to the carburetor.
- **Air Filter:** A clean air filter is vital. A dirty air filter can restrict airflow, leading to a rich fuel mixture and poor engine performance. Clean or replace the air filter as recommended.
- **Carburetor Cleaning:** If the engine experiences rough running, hard starting, or loss of power, the carburetor may require cleaning. Use a specialized carburetor cleaner to remove varnish and deposits.

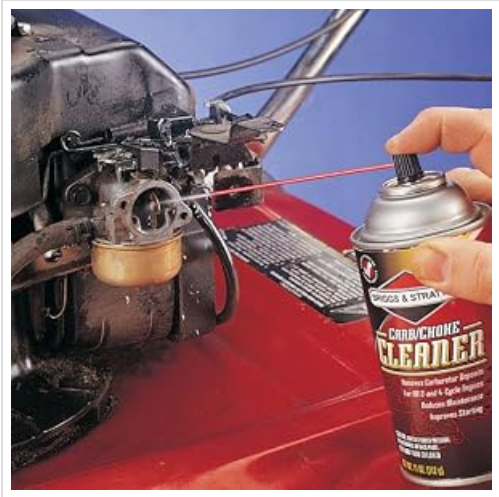

Image: A hand using a spray can of carburetor cleaner to clean an engine's carburetor, a common maintenance task.



Image: A collection of Briggs & Stratton tune-up kit components, including engine oil, an air filter, a spark plug, and fuel treatment, essential for comprehensive engine maintenance.

Troubleshooting

If your engine is experiencing issues related to fuel delivery, the carburetor may be a factor. Here are some common symptoms and potential solutions:

Symptom	Possible Cause	Solution

Symptom	Possible Cause	Solution
Engine will not start	No fuel to carburetor, clogged fuel filter, clogged carburetor jet, faulty primer bulb	Check fuel level, replace fuel filter, clean carburetor, replace primer bulb
Engine runs rough/surges	Dirty carburetor, incorrect fuel-air mixture, air leak at carburetor gaskets	Clean carburetor, adjust mixture (if applicable), replace gaskets
Engine lacks power	Clogged carburetor, dirty air filter, restricted exhaust	Clean carburetor, clean/replace air filter, check exhaust for blockages
Fuel leaks from carburetor	Damaged float, worn needle valve, cracked carburetor body, loose bowl screws	Inspect and replace float/needle valve, replace carburetor if cracked, tighten screws

For more complex issues, it is recommended to consult a Briggs & Stratton authorized service center or a qualified technician.

Specifications

- **Part Number:** 299437
- **Replaces Part Number:** 297599
- **Product Dimensions:** 5 x 4.25 x 8.06 inches
- **Item Weight:** 1.3 pounds
- **Manufacturer:** Briggs & Stratton
- **Compatible Engine Series:** 135200, 130200, 100200
- **Material:** Grey (as per product description)

Warranty and Support

As a genuine Briggs & Stratton part, this carburetor is manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Briggs & Stratton website. Using genuine Briggs & Stratton parts helps ensure your engine complies with applicable EPA emission regulations.

For technical assistance, service inquiries, or to locate an authorized service dealer, please visit the official Briggs & Stratton support website or contact their customer service department directly.

You can find more information and support at the Briggs & Stratton Store on Amazon.

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