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Briggs & Stratton 397135

Briggs & Stratton 397135 Carburetor Instruction Manual

For Engine Series 135200, 130200, 133200

1. Introduction and Overview

This manual provides essential information for the proper installation, operation, and maintenance of your Briggs & Stratton 397135 Carburetor. This genuine Briggs & Stratton replacement part is designed to meet exact OEM standards, ensuring optimal performance and compliance with applicable emission regulations for compatible engines. The carburetor is a critical component in your outdoor power equipment, responsible for mixing air and fuel in the correct proportions for combustion. Proper functioning of the carburetor is vital for engine starting, smooth operation, and overall efficiency.

2. Product Features

- Genuine Briggs & Stratton Part Number 397135.
- Specifically designed to fit Briggs & Stratton Engine Series 135200, 130200, and 133200.
- Manufactured and tested to OEM standards for reliable performance.

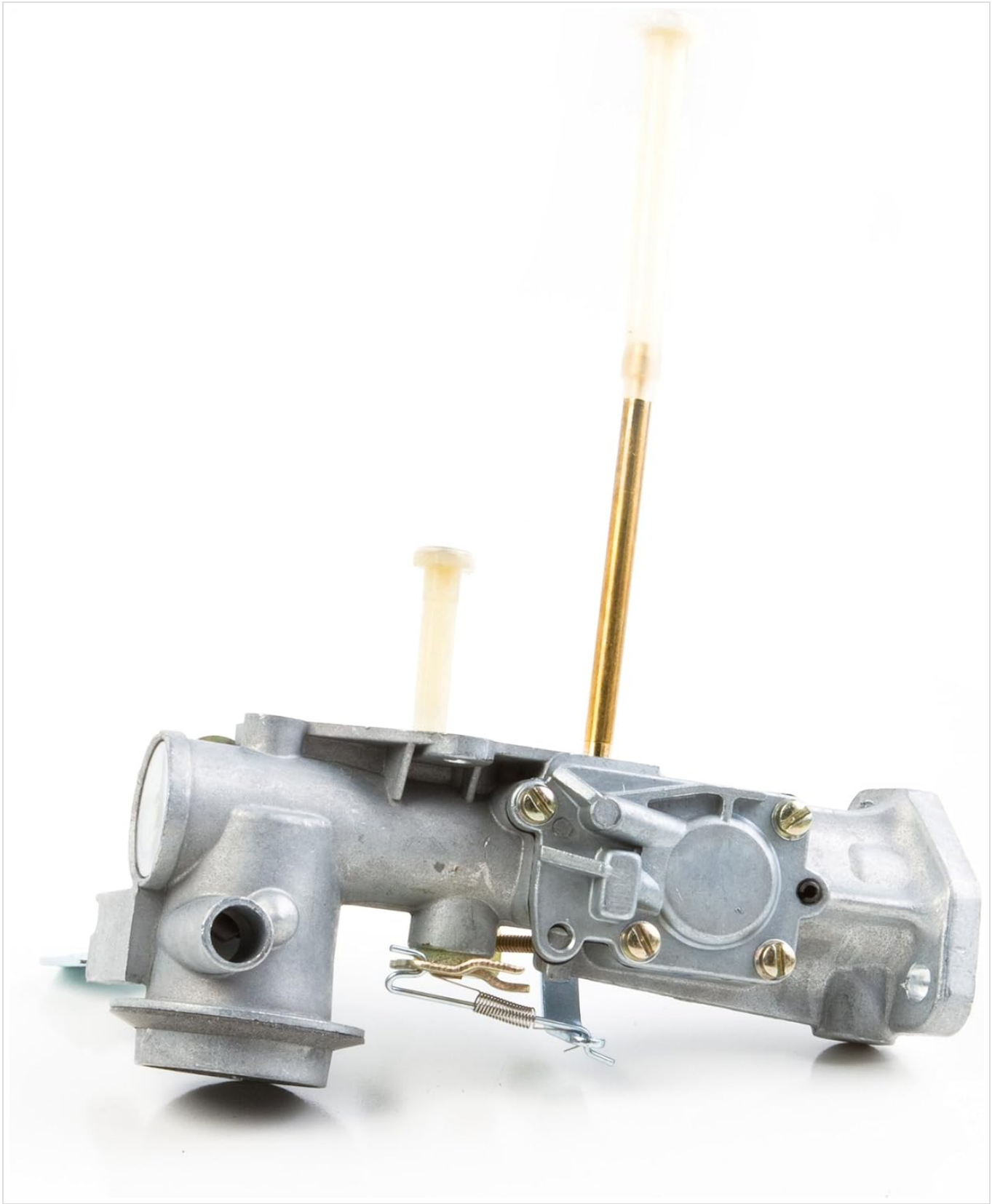
3. Setup and Installation

Safety First: Before beginning any installation or maintenance, always ensure the engine is turned off, cool, and the spark plug wire is disconnected to prevent accidental starting. Wear appropriate personal protective equipment.
General Installation Steps:

1. **Preparation:** Gather necessary tools. Ensure you have new gaskets for installation, as they are typically required and may not be included with the carburetor.
2. **Fuel System:** Drain the fuel tank and fuel lines to prevent spills. Disconnect the fuel line from the old carburetor.
3. **Removal of Old Carburetor:** Carefully disconnect any linkages (throttle, choke) and mounting bolts securing the old carburetor to the engine. Remove the old carburetor and any old gasket material.
4. **Inspection:** Inspect the engine's intake manifold and surrounding areas for any debris or damage. Ensure the fuel tank is clean and free of contaminants, as this can affect the new carburetor's performance.

5. **Installation of New Carburetor:** Place new gaskets in their correct positions. Mount the Briggs & Stratton 397135 Carburetor onto the engine, ensuring all mounting bolts are securely fastened according to the engine manufacturer's torque specifications.
6. **Connect Linkages and Fuel Line:** Reconnect the throttle and choke linkages. Reattach the fuel line, ensuring a secure, leak-free connection.
7. **Final Checks:** Refill the fuel tank with fresh, clean fuel. Reconnect the spark plug wire. Before starting, visually inspect all connections for leaks or loose parts.

Important Note: For detailed, model-specific installation instructions, always refer to the service manual for your specific Briggs & Stratton engine model. This carburetor is compatible with engine series 135200, 130200, and 133200.



This image displays the Briggs & Stratton 397135 Carburetor from a front-side perspective. Key components visible include the fuel inlet, throttle linkage, and various adjustment screws, providing a clear view of its external structure.



This image presents the Briggs & Stratton 397135 Carburetor from a rear-side angle. It highlights the mounting points, additional linkages, and the general assembly of the carburetor, offering a different perspective of its design.

4. Operating Principles

Once installed, the carburetor will regulate the air-fuel mixture delivered to the engine. When the engine is started, the carburetor draws fuel from the tank and mixes it with air, creating a combustible vapor. The throttle control on your equipment adjusts the amount of this mixture, thereby controlling engine speed.
Ensure your engine's air filter is clean and properly installed, as a restricted air filter can negatively impact carburetor performance and fuel efficiency.

5. Maintenance

Regular maintenance of your carburetor and associated engine components is crucial for longevity and optimal performance.

- **Fuel Quality:** Always use fresh, clean fuel. Stale or contaminated fuel is a primary cause of carburetor issues. Consider using a fuel stabilizer, especially during storage periods, to prevent fuel degradation and gumming.

- **Fuel Filter:** Regularly check and replace the fuel filter (if equipped) to prevent debris from reaching the carburetor.
- **Air Filter:** Clean or replace the engine's air filter as recommended by your engine's service manual. A dirty air filter can cause the engine to run rich, leading to poor performance and potential carburetor issues.
- **Storage:** Before long-term storage, either run the engine until it runs out of fuel or drain the fuel system completely to prevent fuel-related issues in the carburetor.

6. Troubleshooting

If your engine experiences issues after carburetor installation, consider the following common troubleshooting steps:

- **Engine Not Starting:**
  - Check for proper fuel supply to the carburetor.
  - Ensure the choke is functioning correctly.
  - Verify the spark plug is clean and producing a spark.
- **Engine Runs Rough or Stalls:**
  - Inspect the air filter for cleanliness.
  - Check for any vacuum leaks around the carburetor mounting.
  - Ensure fuel is fresh and free of water or debris.
- **Fuel Leaks:**
  - Tighten all fuel line connections.
  - Inspect gaskets for proper seating and integrity.
  - Check the carburetor bowl for cracks or loose screws.

If issues persist, it is recommended to consult a qualified service technician or refer to your engine's specific service manual for advanced diagnostics.

7. Specifications

Specification	Detail
Product Dimensions	5 x 4.25 x 8.06 inches
Item Weight	0.01 ounces
Manufacturer	Briggs & Stratton
ASIN	B002WO013S
Item Model Number	397135
Brand	Briggs & Stratton
Global Trade Identification Number (GTIN)	00024847824889
UPC	024847824889

8. Warranty and Support

As a genuine Briggs & Stratton part, this carburetor is covered by the manufacturer's standard warranty for replacement parts. For specific warranty terms, conditions, and to register your product, please refer to the official Briggs & Stratton website or contact their customer support directly.
For further assistance, technical support, or to locate authorized service centers, visit the official Briggs & Stratton website or consult your engine's service manual.

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