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HOOAI 790845 799871 799866 796707 794304

HOOAI Carburetor Kit Instruction Manual

For Briggs & Stratton 6.25HP 6.75HP Push Mower Engines (Models 799866, 790845, 799871, 796707, 794304)

1. Introduction

This instruction manual provides detailed information for the installation, operation, and maintenance of your new HOOAI Carburetor Kit. This kit is designed as a replacement for various Briggs & Stratton, Toro, and Craftsman lawn mower engines, ensuring optimal performance and reliable starting.
The HOOAI Carburetor Kit is compatible with most 122000 Model Briggs & Stratton Engines, including specific models like 128L05, 128L07, 128M02, 128M05, 128M07, 128T02, 128T05, 128T07, 12F802, 12F805, 12F807, 12F809, 12F812, 12F882, 12F887, 12F889, 12H802, 12H805, 12H807, 12H809, 12H812, 12H882, and 12H887. It also fits Briggs & Stratton 790845, 799871, 799866, 796707, 794304 Quantum Engine 4 Cycle Mower, Lawn Mower, and Generator Quantum Engines.

2. Product Overview and Components

The HOOAI Carburetor Kit includes all necessary components for a complete replacement, ensuring a smooth installation process and restored engine performance.

2.1 Kit Contents

- 1x Carburetor
- 1x Fuel filter
- 1x O-ring
- 1x Fuel Line
- 2x Clamps
- 2x 790849 air vane spring
- 2x 699056 Governor Spring
- 1x Mounting Gasket

Please verify that the components shown in the product images match your existing parts before installation.



Figure 2.1: Complete HOOAI Carburetor Kit showing all included components: carburetor, fuel filter, O-ring, fuel line, clamps, air vane springs, governor springs, and mounting gasket.

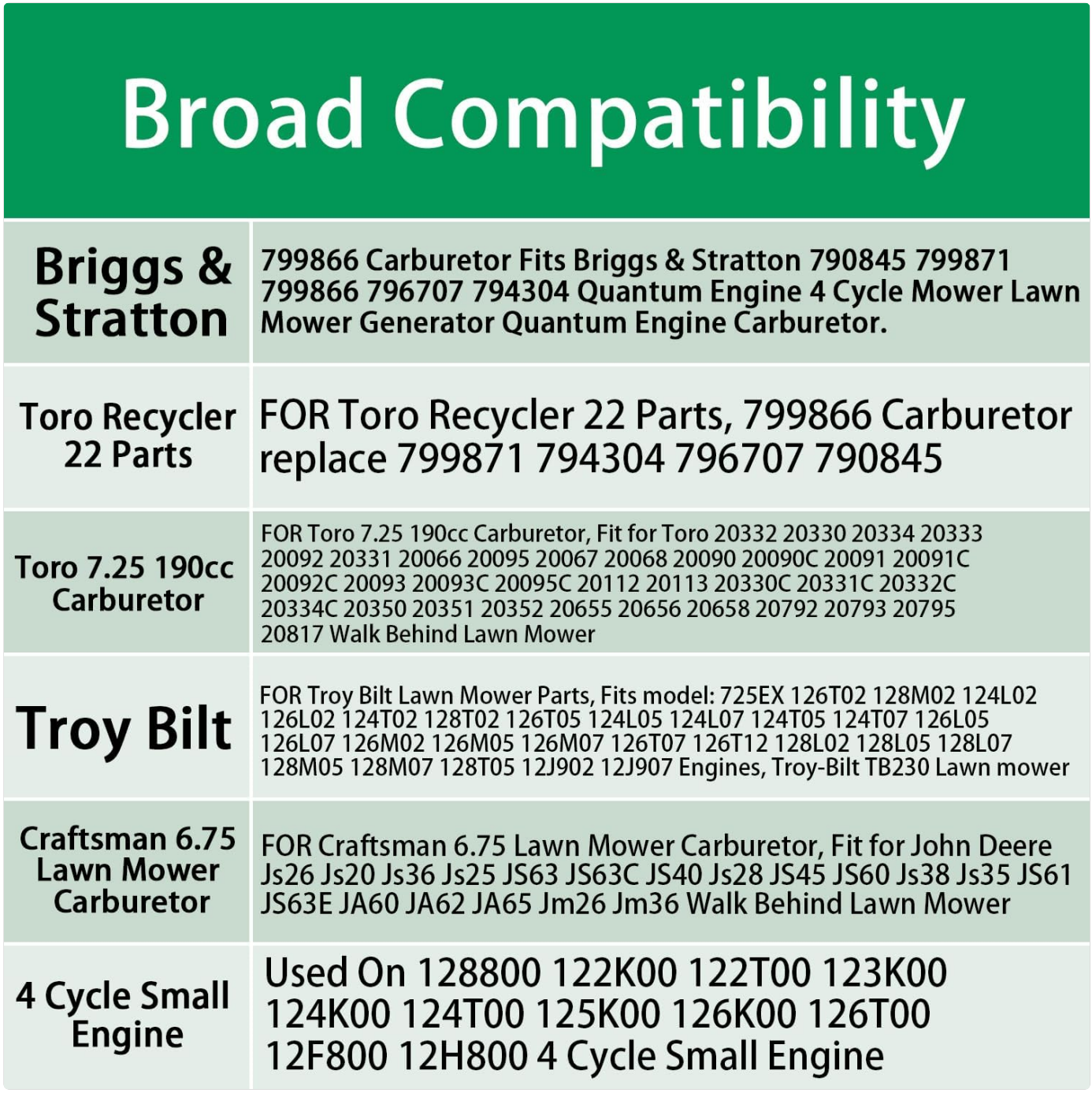


Figure 2.2: Broad compatibility chart for the HOOAI Carburetor, detailing compatible Briggs & Stratton, Toro, Troy-Bilt, and Craftsman engine models.



Figure 2.3: Detailed dimensions of the carburetor, including inlet and outlet measurements, crucial for fitment verification.

3. Safety Information

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

- Ensure the engine is cool and the spark plug wire is disconnected before beginning any work to prevent accidental starting.
- Work in a well-ventilated area to avoid inhaling fuel fumes.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Keep open flames, sparks, and other ignition sources away from fuel and fuel system components.
- Dispose of old fuel and parts according to local regulations.

4. Setup and Installation

Replacing the carburetor is a straightforward process for most users. Follow these general steps for successful installation. It is recommended to take photos of the original setup before disassembly to aid in reassembly.

4.1 Preparation

1. Ensure the engine is off and cool. Disconnect the spark plug wire.
2. Locate the existing carburetor on your engine.
3. Place a suitable container beneath the carburetor to catch any residual fuel.

4.2 Removal of Old Carburetor

1. Carefully disconnect the fuel line from the carburetor. You may need to pinch the fuel line or drain the fuel tank to prevent excessive leakage.
2. Remove any air filter housing components that obstruct access to the carburetor.
3. Disconnect any linkages or springs attached to the carburetor (e.g., throttle, choke, governor springs). Note their positions for reassembly.
4. Unbolt the carburetor from the engine manifold.
5. Remove the old carburetor and any old gaskets or O-rings.

4.3 Installation of New Carburetor

1. Install the new mounting gasket and O-ring onto the engine manifold.
2. Position the new HOOAI carburetor onto the manifold, aligning it with the bolt holes.
3. Secure the carburetor with the bolts, ensuring a snug fit. Do not overtighten.
4. Reconnect all linkages and springs to their correct positions on the new carburetor.
5. Connect the new fuel line (if replacing) and fuel filter, securing them with the provided clamps.
6. Reinstall the air filter housing and any other removed components.
7. Reconnect the spark plug wire.

After installation, check for any fuel leaks before attempting to start the engine.



Figure 4.1: Visual guide demonstrating the ease of installation and broad compatibility of the carburetor kit on various engine types.

4.4 Installation Video Guide

For a visual walkthrough of the installation process, please refer to the official product video provided by HOOAI-US Direct:

Your browser does not support the video tag.

Video 4.1: Official HOOAI Carburetor installation guide for Briggs & Stratton, Toro, and Craftsman Engines. This video demonstrates the steps for replacing the carburetor and its components.

5. Operating Instructions

Once the new carburetor is installed, your engine should start and run smoothly. Ensure all connections are secure and there are no fuel leaks before starting.

- Fill the fuel tank with fresh, clean fuel appropriate for your engine.
- Prime the carburetor if your engine has a primer bulb, following your engine's specific instructions.

- Engage the choke (if applicable) for cold starts.
- Pull the starter cord firmly or engage the electric start.
- Once the engine starts, gradually disengage the choke as the engine warms up.



Figure 5.1: A lawnmower in operation, demonstrating the intended use of the carburetor kit to restore engine functionality.

6. Maintenance

Regular maintenance of your carburetor and fuel system will ensure long-lasting performance and prevent common issues.

- **Fuel Quality:** Always use fresh, clean fuel. Stale fuel can cause deposits that clog the carburetor. Consider using a fuel stabilizer, especially during off-season storage.
- **Fuel Filter:** Regularly inspect and replace the fuel filter as needed to prevent contaminants from reaching the carburetor.
- **Air Filter:** Ensure your engine's air filter is clean and free of debris. A clogged air filter can affect carburetor

performance.

- **Leak Checks:** Periodically inspect the fuel lines and carburetor for any signs of leaks. Address any leaks immediately.
- **Storage:** Before long-term storage, run the engine until it runs out of fuel, or drain the fuel system to prevent gumming and varnish buildup in the carburetor.

7. Troubleshooting

If you encounter issues after installing the new carburetor, consider the following common troubleshooting steps:

7.1 Engine Not Starting or Hard Starting

- **Fuel Supply:** Check if there is enough fresh fuel in the tank. Ensure the fuel line is not kinked or blocked.
- **Primer Bulb:** If equipped, ensure the primer bulb is functioning and priming the carburetor correctly.
- **Choke:** Verify the choke is engaged for cold starts and disengaged once the engine warms up.
- **Spark Plug:** Inspect the spark plug. A fouled or old spark plug can prevent starting. Replace if necessary.
- **Air Filter:** A severely clogged air filter can restrict airflow, making starting difficult. Clean or replace the air filter.

7.2 Engine Runs Rough or Dies Quickly

- **Fuel Quality:** Stale or contaminated fuel is a common cause of rough running. Drain old fuel and refill with fresh fuel.
- **Fuel Filter:** A partially clogged fuel filter can restrict fuel flow, leading to inconsistent engine performance. Replace the fuel filter.
- **Linkages/Springs:** Ensure all throttle, choke, and governor linkages and springs are correctly connected and moving freely. Incorrect tension or connection can cause erratic engine speed.
- **Gaskets/Seals:** Check for air leaks around the carburetor mounting gaskets. Improperly sealed gaskets can lead to a lean fuel mixture and rough running.

7.3 Fuel Leaks

- **Connections:** Verify all fuel line connections are tight and secure with clamps.
- **O-ring/Gasket:** Ensure the O-ring and mounting gasket are properly seated and not damaged. Replace if necessary.
- **Float Bowl:** Check the carburetor's float bowl for proper sealing.

8. Specifications

Attribute	Value
Brand	HOOAI
Vehicle Service Type	Lawn Mower
Exterior Finish	Zinc
Recommended Uses For Product	Lawn Mower
Item Weight	7.4 ounces
Package Dimensions	3.74 x 3.11 x 2.95 inches
Item Model Number	122000 Model B&S Engines

Manufacturer Part Number	790845 799871 799866 796707 794304

9. Warranty and Support

For any questions regarding the HOOAI Carburetor Kit, installation assistance, or troubleshooting, please contact HOOAI customer support. Refer to your purchase documentation for specific warranty details.
For additional information and product updates, visit the official HOOAI store on Amazon:HOOAI Store

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