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Briggs & Stratton 791502

Briggs & Stratton 791502 Main Jet Replacement Part User Manual

Official instructions for installation, maintenance, and specifications.

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1. INTRODUCTION

This manual provides essential information for the proper installation and maintenance of your Briggs & Stratton 791502 Main Jet replacement part. This genuine OEM part is designed to ensure your outdoor power equipment operates at peak performance and complies with applicable emission regulations. Always refer to your engine's specific service manual for detailed instructions and safety precautions before attempting any repairs or maintenance.

2. PRODUCT OVERVIEW

The Briggs & Stratton 791502 is a genuine OEM (Original Equipment Manufacturer) main jet designed for specific Briggs & Stratton engines. It is a critical component within the carburetor system, responsible for regulating the fuel-air mixture delivered to the engine.



Image: The Briggs & Stratton 791502 Main Jet. This small, precision-machined brass component features a conical opening at the top and a black rubber O-ring for sealing. It is essential for accurate fuel delivery in compatible carburetors.

Key Features:

- Genuine Briggs & Stratton replacement part.
- Designed to exact OEM standards for optimal performance.
- Ensures compliance with applicable EPA emission regulations.
- Essential for proper fuel-air mixture in the carburetor.

3. INSTALLATION

Safety First: Before beginning any work on your engine, ensure the engine is cool, the spark plug wire is disconnected to prevent accidental starting, and the fuel tank is empty or the fuel line is clamped off to prevent spills.

Required Tools:

- Appropriate wrench or screwdriver for carburetor disassembly.
- Clean rags.
- Carburetor cleaner (optional, for cleaning surrounding components).

Installation Steps:

1. **Locate the Carburetor:** Identify the carburetor on your engine.
2. **Drain Fuel:** If not already done, drain fuel from the carburetor bowl.
3. **Remove Carburetor Bowl:** Carefully remove the carburetor bowl, typically held by a bolt or screws at the bottom of the carburetor. Be mindful of any gaskets.
4. **Identify the Main Jet:** The main jet is usually located in the center post of the carburetor bowl or

within the main nozzle. It is a small, brass component. Note if your carburetor uses a left (L) or right (R) jet, as indicated by markings on the carburetor itself, to ensure correct replacement if multiple jets are present.

5. **Remove Old Main Jet:** Using the appropriate tool, carefully unscrew and remove the old main jet.
6. **Inspect and Clean:** Inspect the carburetor bowl and surrounding areas for debris or varnish. Clean as necessary with carburetor cleaner.
7. **Install New Main Jet:** Gently screw the new Briggs & Stratton 791502 Main Jet into its designated position. Do not overtighten, as this can damage the jet or carburetor threads.
8. **Reassemble Carburetor:** Reattach the carburetor bowl with a new gasket if necessary, ensuring a tight seal.
9. **Reconnect Components:** Reconnect the fuel line and spark plug wire.
10. **Test Engine:** Refill the fuel tank and start the engine to verify proper operation.

If you are unsure about any step, consult a qualified service technician or your engine's specific service manual.

4. FUNCTION OF THE MAIN JET

The main jet is a precisely calibrated orifice that controls the amount of fuel entering the engine's combustion chamber during mid-range to high-speed operation. It works in conjunction with the carburetor's venturi to create a vacuum that draws fuel from the float bowl and mixes it with air. A properly functioning main jet ensures the engine receives the correct fuel-air ratio for efficient combustion, optimal power output, and reduced emissions. The Briggs & Stratton 791502 is specifically designed to maintain these critical parameters for compatible engines.

5. MAINTENANCE

While the main jet itself does not require routine maintenance, its performance is directly affected by the overall condition of the carburetor and fuel system. Regular maintenance of these components will prolong the life and efficiency of your main jet and engine.

General Maintenance Tips:

- **Use Fresh Fuel:** Always use fresh, clean gasoline. Stale fuel can lead to varnish and deposits that clog jets.
- **Fuel Stabilizer:** Use a fuel stabilizer if storing equipment for extended periods.
- **Clean Air Filter:** A dirty air filter can restrict airflow, affecting the fuel-air mixture. Clean or replace as recommended by your engine manual.
- **Carburetor Cleaning:** Periodically clean the carburetor, especially if the equipment is used infrequently or experiences fuel-related issues.
- **Inspect Gaskets and O-rings:** Ensure all gaskets and O-rings in the carburetor are in good condition to prevent air leaks.

6. TROUBLESHOOTING

If your engine is experiencing performance issues after main jet replacement, consider the following common problems:

Symptom	Possible Cause	Solution
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Symptom	Possible Cause	Solution
Engine runs rough or stalls at high RPMs	Clogged main jet, incorrect jet size, or air leak.	Inspect and clean main jet. Verify correct jet for altitude. Check carburetor gaskets.
Engine lacks power or runs rich (excess fuel)	Main jet orifice too large, or float level too high.	Ensure correct main jet (791502) is installed. Check float level according to engine manual.
Engine will not start or starts with difficulty	Severely clogged main jet, no fuel, or other ignition issues.	Clean or replace main jet. Verify fuel supply. Check spark plug and ignition system.

For persistent issues, it is recommended to consult a certified Briggs & Stratton service center.

7. SPECIFICATIONS

- **Part Number:** 791502
- **Brand:** Briggs & Stratton
- **Type:** Main Jet (OEM Replacement)
- **Material:** Brass (with rubber O-ring)
- **Dimensions (L x W x H):** Approximately 4 x 4 x 0.25 inches (packaging dimensions, actual part is smaller)
- **Item Weight:** Approximately 0.176 ounces (5 grams)
- **UPC:** 024847117981
- **Manufacturer:** Briggs & Stratton

Note: Dimensions and weight refer to the product as packaged or approximate. The main jet itself is a small, precision component.

8. WARRANTY AND SUPPORT

As a genuine Briggs & Stratton part, the 791502 Main Jet is covered by the standard Briggs & Stratton warranty for replacement parts. For specific warranty terms and conditions, please refer to the documentation included with your engine or visit the official Briggs & Stratton website.

For technical assistance, parts inquiries, or to locate an authorized service dealer, please contact Briggs & Stratton customer support or visit their official website:

Briggs & Stratton Official Website: www.briggsandstratton.com

Customer Support: Refer to the website for contact information specific to your region.

Using genuine Briggs & Stratton parts ensures compatibility and maintains the integrity of your engine's performance and warranty.