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Briggs & Stratton 801308

Briggs & Stratton 801308 Pilot Jet Instruction Manual

Model: 801308

1. Product Overview

The Briggs & Stratton 801308 Pilot Jet is a genuine replacement part designed for specific Briggs & Stratton engines. This component is crucial for maintaining proper fuel mixture at idle and low-speed operation, ensuring efficient engine performance and compliance with emission standards. It is engineered to fit most 084000 model Briggs & Stratton engines.

2. Product Visual



Image: A close-up view of the Briggs & Stratton 801308 Pilot Jet. It is a small, brass-colored, cylindrical component with threading on one end and small orifices on the other, designed to regulate fuel flow within a carburetor.

3. Installation Guide

3.1. Before You Begin

- Ensure the engine is cool and disconnected from any power source (e.g., spark plug wire removed).
- Work in a well-ventilated area.
- Have appropriate tools ready, including screwdrivers, wrenches, and a clean work surface.

- Refer to your specific engine's service manual for detailed carburetor disassembly and reassembly instructions.

3.2. Installation Steps

1. **Locate the Carburetor:** Identify the carburetor on your Briggs & Stratton engine.
2. **Drain Fuel:** Safely drain any fuel from the carburetor float bowl.
3. **Disassemble Carburetor (as needed):** Depending on your carburetor model, you may need to remove the float bowl or other components to access the pilot jet.
4. **Remove Old Pilot Jet:** Carefully unscrew or extract the existing pilot jet. Note its orientation if applicable.
5. **Install New Pilot Jet:** Insert the new Briggs & Stratton 801308 Pilot Jet into its designated position. Ensure it is seated correctly and tightened to the manufacturer's specifications. Avoid overtightening.
6. **Reassemble Carburetor:** Reassemble all carburetor components, ensuring all gaskets and seals are properly in place.
7. **Refill Fuel:** Refill the fuel tank and check for any leaks.
8. **Test Engine:** Reconnect the spark plug wire and start the engine to verify proper operation.

4. Operation

The pilot jet is an integral part of the carburetor's fuel delivery system, specifically controlling the fuel flow during engine idle and low-speed operation. When the engine is idling or running at low RPMs, fuel is drawn through the pilot jet and mixed with air before entering the engine's combustion chamber. A properly functioning pilot jet ensures a stable idle and smooth transition to higher speeds. This component does not require user interaction during engine operation; its function is automatic once installed correctly.

5. Maintenance and Care

5.1. Cleaning

- Periodically inspect the pilot jet for blockages or debris, especially if the engine exhibits poor idle or surging.
- If cleaning is necessary, carefully remove the jet from the carburetor.
- Use a carburetor cleaner spray or compressed air to clear any obstructions from the jet's orifices. Do not use wire or hard objects that could damage the precision-machined holes.
- Ensure the jet is completely dry before reinstallation.

5.2. Storage

- If storing the engine for an extended period, it is recommended to drain the fuel system or use a fuel stabilizer to prevent fuel degradation, which can lead to pilot jet clogging.

6. Troubleshooting

Problem	Possible Cause	Solution
Engine surges at idle or low speed	Clogged or partially obstructed pilot jet; lean fuel mixture.	Clean or replace the pilot jet. Ensure proper fuel flow to the carburetor.
Poor or rough idle	Pilot jet not providing adequate fuel; incorrect idle mixture.	Inspect and clean the pilot jet. Verify carburetor settings.
Difficulty starting (cold or warm)	Pilot jet obstruction affecting initial fuel delivery.	Clean or replace the pilot jet. Check other ignition and fuel system components.

7. Technical Specifications

Specification	Detail
Product Dimensions	4.6 x 4 x 0.1 inches
Item Weight	0.16 ounces
Manufacturer	Briggs & Stratton
ASIN	B00D6FFOKW
Item Model Number	801308
Compatibility	Fits Most 084000 Model Briggs & Stratton Engines

8. Warranty Information & Support

Briggs & Stratton genuine parts are designed and tested to deliver optimum performance and are guaranteed to fit. Using genuine parts ensures that your Briggs & Stratton engine complies with applicable EPA emission regulations.

8.1. Customer Support

For specific warranty details, technical assistance, or further support regarding your Briggs & Stratton product, please refer to the documentation provided with your engine or visit the official Briggs & Stratton website. You can also contact their customer service directly for expert guidance.

Briggs & Stratton Official Website: www.briggsandstratton.com

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