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Briggs & Stratton 691370

Briggs & Stratton 691370 Fuel Strainer User Manual

For Models 190000, 235400, 245400, and V-Twin Engines with 9-quart Fuel Tank

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Briggs & Stratton 691370 Fuel Strainer. This component is designed to filter fuel, preventing debris from entering the engine's fuel system, thereby ensuring optimal performance and longevity for compatible Briggs & Stratton engines.
The 691370 Fuel Strainer is specifically compatible with Briggs & Stratton engine Models 190000, 235400, 245400, and V-Twin Engines equipped with a 9-quart fuel tank.

2. Safety Information

Always observe safety precautions when working with fuel systems. Failure to do so can result in serious injury or property damage.

- **Fuel is Flammable:** Work in a well-ventilated area, away from open flames, sparks, or other ignition sources. Do not smoke.
- **Eye Protection:** Always wear safety glasses or goggles to protect your eyes from fuel splashes or debris.
- **Skin Protection:** Wear appropriate gloves to prevent skin contact with fuel.
- **Fuel Spills:** Have absorbent materials readily available to clean up any fuel spills immediately. Dispose of contaminated materials properly.
- **Engine Cool Down:** Allow the engine to cool completely before performing any maintenance or installation procedures.
- **Disconnect Battery:** For engines with an electric start, disconnect the battery cables before working on the fuel system to prevent accidental starting.

3. Installation

This section outlines the general procedure for installing the Briggs & Stratton 691370 Fuel Strainer. Specific engine models may have slight variations; always refer to your engine's service manual for detailed instructions.

3.1 Tools and Materials Required

- New Briggs & Stratton 691370 Fuel Strainer
- Appropriate wrenches or sockets (if needed for fuel tank removal)

- Drain pan or container for fuel
- Clean rags
- Safety glasses and gloves

3.2 Installation Steps

1. **Prepare the Engine:** Ensure the engine is cool and the area is well-ventilated. Disconnect the spark plug wire to prevent accidental starting. If applicable, disconnect the battery.
2. **Drain Fuel Tank:** Place a suitable drain pan beneath the fuel tank. Open the fuel shut-off valve (if present) or disconnect the fuel line at the lowest point to drain all fuel from the tank. Dispose of fuel responsibly.
3. **Access Fuel Tank Opening:** Depending on your engine model, you may need to remove the fuel tank from the equipment or access the fuel tank opening directly.
4. **Remove Old Strainer (if applicable):** Carefully reach into the fuel tank opening and locate the existing fuel strainer. Gently pull or unclip the old strainer from its position. Note its orientation for correct installation of the new part.
5. **Install New Strainer:** Insert the new Briggs & Stratton 691370 Fuel Strainer into the fuel tank opening. Ensure it is securely seated at the bottom of the tank or in its designated position. The strainer should sit firmly to prevent movement and ensure proper filtration.
6. **Reassemble:** Reconnect any fuel lines or components that were disconnected. Secure the fuel tank if it was removed.
7. **Refill Fuel:** Carefully refill the fuel tank with fresh, clean fuel.
8. **Check for Leaks:** After refilling, inspect all connections for any fuel leaks. Tighten connections as necessary.
9. **Reconnect Spark Plug/Battery:** Reconnect the spark plug wire and battery (if disconnected).



Figure 1: Briggs & Stratton 691370 Fuel Strainer. This image shows the cylindrical fuel strainer with a fine mesh screen designed to filter debris from fuel before it enters the engine's fuel system. The strainer has a black plastic base and top, with the mesh forming the main body.

4. Operation

The Briggs & Stratton 691370 Fuel Strainer operates passively as an integral part of the fuel system. Its primary function is to prevent contaminants such as dirt, rust, and other particles from entering the fuel line and carburetor or fuel injectors. Once installed, the strainer continuously filters fuel as it is drawn from the tank to the engine.
No user interaction is required for its operation beyond proper installation and periodic maintenance.

5. Maintenance

Regular inspection and maintenance of the fuel strainer are crucial for maintaining engine performance and preventing fuel system issues.

5.1 Inspection Frequency

It is recommended to inspect the fuel strainer at least once per season or every 50 hours of engine operation, whichever comes first. More frequent inspection may be necessary if operating in dusty environments or with fuel of questionable quality.

5.2 Cleaning and Replacement

1. **Access the Strainer:** Follow the steps outlined in Section 3.2 "Installation Steps" to access and remove the fuel strainer from the tank.
2. **Inspect for Debris:** Visually inspect the mesh screen for any accumulated dirt, rust, or other foreign particles.
3. **Cleaning:** If the strainer is only lightly soiled, it may be possible to gently clean it. Rinse the strainer with clean fuel or a suitable carburetor cleaner. Use a soft brush if necessary, but avoid damaging the mesh. Allow it to air dry completely.
4. **Replacement:** If the strainer is heavily clogged, damaged, or the mesh is torn, it must be replaced with a new Briggs & Stratton 691370 Fuel Strainer. Attempting to use a damaged or improperly cleaned strainer can lead to engine damage.
5. **Reinstall:** Reinstall the clean or new strainer following the steps in Section 3.2.

6. Troubleshooting

If you experience fuel delivery issues, the fuel strainer may be a contributing factor. Here are some common symptoms and solutions:

Symptom	Possible Cause	Solution
Engine runs poorly or stalls	Clogged fuel strainer restricting fuel flow.	Inspect, clean, or replace the fuel strainer (refer to Section 5.2).
Engine fails to start	Severely clogged fuel strainer preventing fuel delivery.	Inspect, clean, or replace the fuel strainer (refer to Section 5.2). Ensure fuel tank is not empty.
Visible debris in fuel tank	Contaminated fuel or deteriorating fuel tank.	Drain and clean the fuel tank thoroughly. Replace the fuel strainer. Use fresh, clean fuel.

If troubleshooting steps do not resolve the issue, consult a qualified service technician or refer to your engine's specific service manual.

7. Specifications

Part Number: 691370

Product Type: Fuel Strainer

Brand: Briggs & Stratton

Compatibility: Briggs & Stratton Models 190000, 235400, 245400, and V-Twin Engines with 9-quart Fuel Tank

Product Dimensions: 1 x 7 x 8 inches

Item Weight: 0.8 ounces

Manufacturer: Briggs & Stratton

8. Warranty Information

For detailed warranty information regarding the Briggs & Stratton 691370 Fuel Strainer, please refer to the documentation included with your original engine purchase or visit the official Briggs & Stratton website. Warranty terms and conditions may vary.

9. Support

If you require further assistance or have questions not covered in this manual, please contact Briggs & Stratton customer support or visit their official website:

Briggs & Stratton Official Website: www.briggsandstratton.com

Customer Service: Refer to the website for current contact information, including phone numbers and online support options.

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