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› FTYHFEFH Carburetor Instruction Manual for BRIGGS & STRATTON Engines (Models 21B807-0239, 21B807-0289, 21B807-0290, 21B807-0296, 21B807-0326, 21B807-0372-E1)

FTYHFEFH 21B807-0239/0289/0290/0296/0326/0372-E1

FTYHFEFH Carburetor Instruction Manual

For BRIGGS & STRATTON Engines: Models 21B807-0239, 21B807-0289, 21B807-0290, 21B807-0296, 21B807-0326, 21B807-0372-E1

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your new FTYHFEFH carburetor. Designed as a direct replacement for specific BRIGGS & STRATTON engine models, this carburetor ensures stable performance and smooth engine operation. Please read these instructions thoroughly before proceeding with installation or use to ensure safety and optimal performance.

2. PRODUCT OVERVIEW AND COMPATIBILITY

The FTYHFEFH carburetor is engineered to meet original equipment specifications, providing a reliable solution for maintaining your engine's fuel system. It is a compatible replacement for BRIGGS & STRATTON Part Numbers 796109 and 591731.

This carburetor is specifically designed for the following BRIGGS & STRATTON engine models:

- 31A507-0111-B1 Engine
- 31A507-0111-E1 Engine
- 31A507-0113-B1 Engine
- 31A507-0113-E1 Engine
- 31A507-0114-B1 Engine
- 31A507-0114-E1 Engine
- 31A507-0116-B1 Engine
- 31A507-0116-E1 Engine

3. SAFETY INFORMATION

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

- Ensure the engine is turned off and cooled down before beginning any work.

- Disconnect the spark plug wire to prevent accidental starting.
- Work in a well-ventilated area to avoid inhaling fuel fumes.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Handle gasoline with extreme care. It is highly flammable.
- Keep fire extinguishers readily available.
- Refer to your engine's original service manual for specific safety guidelines and procedures.

4. PACKAGE CONTENTS

The package includes the FTYHFEFH carburetor and associated components necessary for installation. Please verify that all items shown in the product images are present and undamaged before proceeding.



Front view of the FTYHFEFH carburetor kit, showing the main carburetor unit, a black fuel line, two hose clamps, a small nut, and a gasket.



Rear view of the FTYHFEFH carburetor, displaying the intake opening with brass components, alongside the fuel line, clamps, nut, and gasket.



Side view of the FTYHFEFH carburetor, highlighting the throttle linkage mechanism, with

the fuel line, clamps, nut, and gasket visible.



Another side view of the FTYHFEFH carburetor, showing the fuel inlet pipe, accompanied by the fuel line, clamps, nut, and gasket.



Close-up view of the FTYHFEFH carburetor's electrical connector, showing the two-prong design, with other components in the background.

5. SETUP AND INSTALLATION

This carburetor features a simplified design for easy installation, often requiring no special tools. However, basic mechanical knowledge is recommended. Always refer to your engine's specific service manual for detailed removal and installation procedures.

General Installation Steps:

1. **Preparation:** Ensure the engine is cool and the spark plug wire is disconnected. Place a drip pan under the carburetor area to catch any spilled fuel.
2. **Fuel Drainage:** Close the fuel shut-off valve (if present) and drain any remaining fuel from the fuel tank and fuel lines.
3. **Disconnect Components:** Carefully disconnect the fuel line, throttle linkage, choke linkage, and any electrical connections from the old carburetor. Note their positions for reassembly.
4. **Remove Old Carburetor:** Unbolt the old carburetor from the engine manifold. Remove and discard the old gaskets.
5. **Install New Carburetor:** Place new gaskets (included in the package) onto the manifold studs. Mount the new FTYHFEFH carburetor, ensuring it sits flush. Secure it with the bolts, tightening them evenly to prevent air leaks.
6. **Reconnect Components:** Reattach the fuel line, throttle linkage, choke linkage, and any electrical connections to the new carburetor. Ensure all connections are secure. Use the new hose clamps for the fuel line.
7. **Refill Fuel:** Open the fuel shut-off valve (if applicable) and refill the fuel tank with fresh, appropriate fuel for your engine.
8. **Initial Start-up:** Reconnect the spark plug wire. Start the engine and allow it to warm up. Check for any fuel leaks or

abnormal operation.

Note: The carburetor is factory-tuned for optimal performance. No adjustments should be necessary upon initial installation.

6. OPERATING INSTRUCTIONS

Once the FTYHFEFH carburetor is correctly installed, the engine should start and run smoothly. The carburetor's primary function is to mix air and fuel in the correct ratio for combustion. No specific operational adjustments are typically required by the user after installation.

- Ensure the fuel tank contains fresh, clean fuel.
- Follow your engine manufacturer's starting procedure (e.g., choke setting, throttle position).
- Allow the engine to warm up for a few minutes before applying a load.

7. MAINTENANCE

Regular maintenance of your engine's fuel system, including the carburetor, is crucial for longevity and consistent performance.

- **Fuel Quality:** Always use fresh, clean, and appropriate fuel for your engine. Stale or contaminated fuel is a common cause of carburetor issues.
- **Fuel Filter:** Regularly inspect and replace the fuel filter according to your engine's maintenance schedule to prevent debris from reaching the carburetor.
- **Air Filter:** Ensure the air filter is clean and properly installed. A dirty air filter can restrict airflow, leading to a rich fuel mixture and poor engine performance.
- **Storage:** If storing the engine for an extended period, drain the fuel system or use a fuel stabilizer to prevent gum and varnish buildup in the carburetor.
- **Cleaning:** If performance issues arise due to fuel contamination, the carburetor may need to be cleaned by a qualified technician.

8. TROUBLESHOOTING

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

Symptom	Possible Cause	Solution
Engine will not start	No fuel, stale fuel, clogged fuel filter, spark plug issue, incorrect choke setting.	Check fuel level and quality. Replace fuel filter. Inspect spark plug. Verify choke operation.
Engine runs rough or stalls	Dirty air filter, fuel contamination, vacuum leak, incorrect idle speed.	Clean/replace air filter. Drain and refill with fresh fuel. Check carburetor mounting bolts for tightness. Consult engine manual for idle adjustment.
Loss of power	Dirty air filter, restricted fuel flow, engine overload.	Clean/replace air filter. Check fuel lines and filter for obstructions. Ensure engine is not overloaded.

Symptom	Possible Cause	Solution
Fuel leaks	Loose fuel line connections, damaged gasket, float bowl issue.	Tighten fuel line clamps. Inspect and replace gaskets if damaged. If leak persists, professional inspection is recommended.

If problems persist after attempting these solutions, it is recommended to consult a qualified small engine technician.

9. SPECIFICATIONS

- **Brand:** FTYHFEFH
- **Manufacturer:** FTYHFEFH
- **Manufacturer Part Number:** 1
- **Compatible BRIGGS & STRATTON Part Numbers:** 796109, 591731
- **Compatible BRIGGS & STRATTON Engine Models:** 31A507-0111-B1, 31A507-0111-E1, 31A507-0113-B1, 31A507-0113-E1, 31A507-0114-B1, 31A507-0114-E1, 31A507-0116-B1, 31A507-0116-E1

10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your FTYHFEFH carburetor, please refer to the documentation provided at the time of purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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