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› [FTYHFEFH Carburetor Instruction Manual for Briggs & Stratton 31R507, 31R577, 31R607, 31X707 Engines](#)

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FTYHFEFH Carburetor Instruction Manual for Briggs & Stratton 31R507, 31R577, 31R607, 31X707 Engines

Brand: FTYHFEFH | Model: FTYHFEFH

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of the FTYHFEFH Carburetor, designed as a direct replacement for specific Briggs & Stratton engines. Please read this manual thoroughly before proceeding with any installation or maintenance to ensure proper function and safety.



Image 1.1: The FTYHFEFH Carburetor kit, including the main carburetor unit, fuel filter, fuel shut-off valve, spark plug, fuel line, and gaskets.

2. ENGINE COMPATIBILITY

This carburetor is specifically designed for the following Briggs & Stratton engine models. It is crucial to verify your engine model matches one of the listed models for proper fit and function.

- Briggs & Stratton 31R507 Engine
- Briggs & Stratton 31R577 Engine
- Briggs & Stratton 31R607 Engine
- Briggs & Stratton 31X707 Engine

3. PACKAGE CONTENTS

The package includes all items shown in the product images. Please verify that all components are present and undamaged upon receipt.

- 1x Carburetor Unit
- 1x Fuel Filter
- 1x Fuel Shut-off Valve
- 1x Spark Plug
- Gaskets and Clamps
- Fuel Line



Image 3.1: Close-up view of the FTYHFEFH Carburetor and included accessories, such as the fuel line, gasket, and clamps.

4. SAFETY INFORMATION

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

damage to equipment. Adhere to the following guidelines:

- Disconnect the spark plug wire before performing any service to prevent accidental engine starting.
- Work in a well-ventilated area to avoid inhaling fuel fumes.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Ensure the engine is cool before handling carburetor components.
- Keep flammable materials away from the work area.
- Refer to your engine's specific service manual for additional safety guidelines.

5. INSTALLATION INSTRUCTIONS

This carburetor is designed for straightforward installation. While no special tools are typically required, basic mechanical knowledge is recommended. If you are unsure about any step, consult a professional technician.

1. **Preparation:** Ensure the engine is completely off and cool. Disconnect the spark plug wire. It is advisable to drain the fuel tank if significant fuel spillage is anticipated.
2. **Remove Old Carburetor:** Carefully disconnect the fuel line, throttle linkage, and choke linkage from the existing carburetor. Remove the mounting bolts and any old gasket material.
3. **Clean Mounting Surface:** Thoroughly clean any remaining old gasket material or debris from the engine's intake manifold and the air filter base to ensure a proper seal.
4. **Install New Gasket:** Place the new gasket (provided in the kit) onto the engine's intake manifold, aligning the bolt holes.
5. **Mount New Carburetor:** Carefully position the new FTYHFEFH carburetor onto the gasket and align it with the mounting studs/holes. Secure it with the mounting bolts. Tighten bolts evenly, but do not overtighten to avoid damaging the carburetor or manifold.
6. **Connect Linkages:** Reconnect the throttle and choke linkages to their respective points on the new carburetor. Ensure they move freely and operate correctly.
7. **Connect Fuel Line:** Attach the new fuel line (if replacing) and install the new fuel filter and shut-off valve as appropriate. Ensure all fuel connections are secure and free from leaks.
8. **Install Spark Plug:** If replacing, install the new spark plug provided. Tighten it to the engine manufacturer's specified torque.
9. **Final Checks:** Reconnect the spark plug wire. Refill the fuel tank with fresh fuel. Inspect all connections for any signs of fuel leaks before attempting to start the engine.



Image 5.1: Side view of the FTYHFEFH Carburetor, highlighting the fuel inlet and linkage points for installation reference.

Your browser does not support the video tag.

Video 5.1: This video, provided by The ROP Shop, offers a product overview of a carburetor, which can provide visual guidance for identifying components and understanding the general installation process.

6. OPERATING INSTRUCTIONS

After successful installation, follow your engine manufacturer's guidelines for starting and operating your equipment. The carburetor's primary function is to mix air and fuel in the correct proportions for efficient combustion.

- **Choke Operation:** For cold starts, engage the choke fully. As the engine warms up, gradually disengage the choke until it runs smoothly.

- **Throttle Control:** Use the throttle lever to control engine speed as required for your task.
- **Fuel Shut-off:** If your setup includes a fuel shut-off valve, ensure it is in the 'ON' position during operation and moved to the 'OFF' position for storage or maintenance.

7. MAINTENANCE

Regular maintenance is essential for ensuring optimal performance and extending the service life of your FTYHFEFH Carburetor and the engine it serves.

- **Fuel Quality:** Always use fresh, clean fuel. Stale or contaminated fuel can lead to deposits and clogging within the carburetor.
- **Fuel Filter:** Inspect and replace the fuel filter periodically (e.g., annually or as recommended by your engine manufacturer) to prevent contaminants from reaching the carburetor.
- **Air Filter:** Ensure the air filter is clean and properly installed. A dirty or obstructed air filter can restrict airflow, leading to an overly rich fuel mixture and affecting carburetor performance.
- **Spark Plug:** Inspect and replace the spark plug as part of routine engine maintenance. A fouled or worn spark plug can cause poor engine performance and starting difficulties.
- **Storage:** Before long-term storage, it is recommended to run the engine until the fuel tank is empty, or use a high-quality fuel stabilizer to prevent fuel degradation and carburetor clogging.



Image 7.1: An angled view of the FTYHFEFH Carburetor, useful for identifying various components during maintenance or troubleshooting.

8. TROUBLESHOOTING COMMON ISSUES

If your engine experiences issues after carburetor replacement, consider the following common troubleshooting steps. Always ensure basic checks like fuel level and spark plug connection are made first.

Problem	Possible Cause	Solution
Engine won't start	No fuel flow, clogged fuel filter, incorrect choke setting, faulty spark plug.	Check fuel level, replace fuel filter, adjust choke, inspect/replace spark plug.

Problem	Possible Cause	Solution
Engine runs rough/stalls	Dirty carburetor, air leak, incorrect fuel mixture.	Clean carburetor, check for loose connections/gaskets, ensure proper fuel/air ratio.
Engine lacks power	Clogged air filter, restricted fuel flow, incorrect engine timing.	Clean/replace air filter, check fuel lines and filter, consult engine manual for timing.

If issues persist after performing these troubleshooting steps, it is recommended to consult a qualified service technician or refer to your engine's comprehensive service manual.

9. PRODUCT SPECIFICATIONS

- **Brand:** FTYHFEFH
- **Model:** FTYHFEFH
- **Item Weight:** 1 pound
- **Product Dimensions:** 1 x 1 x 1 inches
- **Manufacturer Part Number:** 1
- **UPC:** 779603351764
- **Compatibility:** Briggs & Stratton 31R507, 31R577, 31R607, 31X707 Engines



Warranty and Support

For warranty information or technical support regarding your FTYHFEFH Carburetor, please contact the manufacturer directly. It is advisable to keep your purchase receipt for any warranty claims.

Note: This manual is for informational purposes only. Always refer to your engine's specific service manual for detailed instructions and safety warnings.