Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

LiGuVCY Alla-USF7-451

Instruction Manual for LiGuVCY Carburetor Replacement Kit

Model: Alla-USF7-451

Product Overview

This manual provides essential information for the installation, operation, and maintenance of your new LiGuVCY Carburetor Replacement Kit. This kit is designed as a direct replacement for specific Briggs & Stratton engines, ensuring proper fuel delivery and engine performance.

It is crucial to verify compatibility with your engine model before proceeding with installation. Refer to the "Compatibility" section for a detailed list of supported engine models and part numbers.

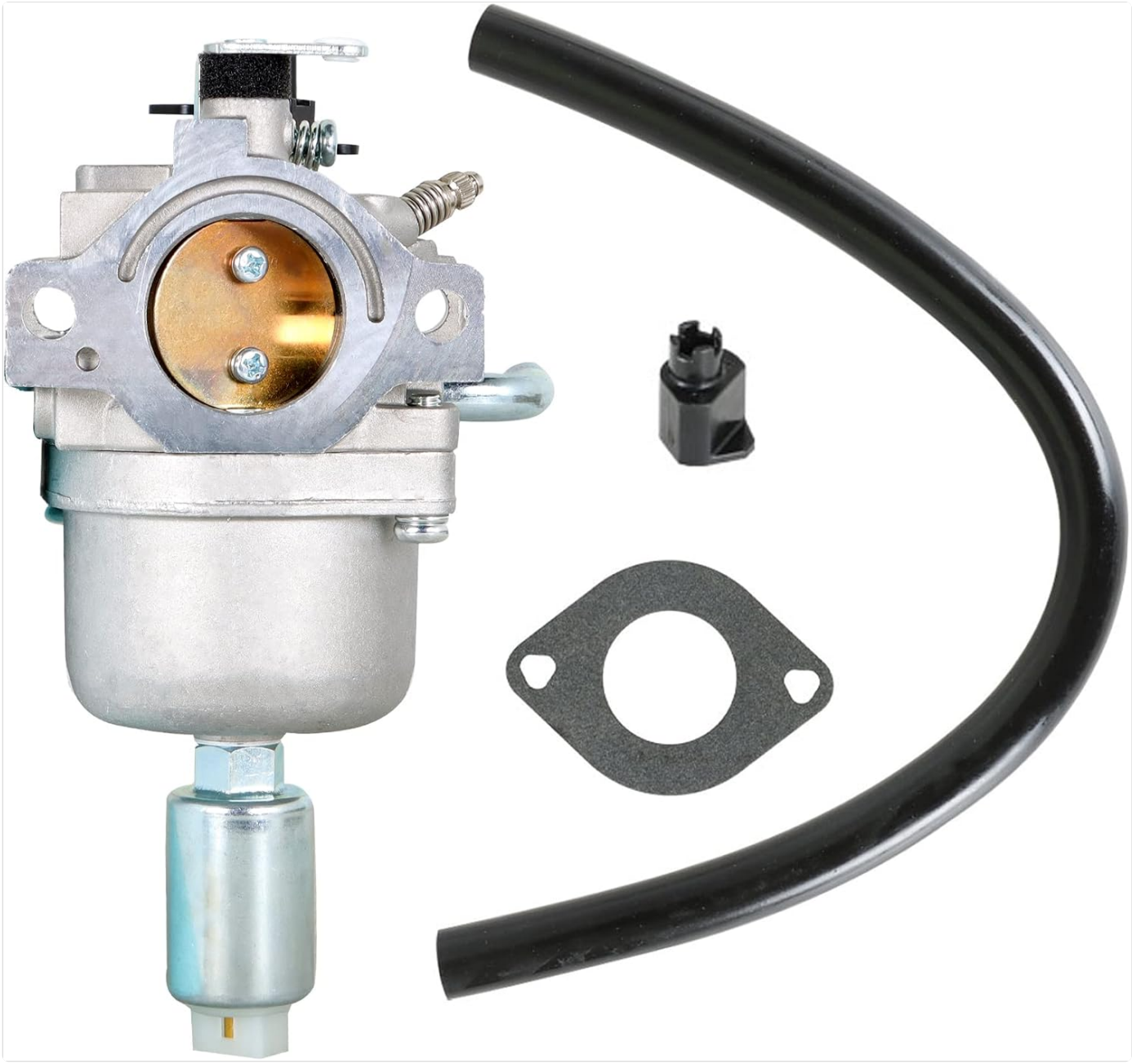


Image: The complete LiGuVCY Carburetor Replacement Kit, including the carburetor unit, a black fuel line, a black gasket, and a small black idle mixing ratio screw.

Package Contents

Upon opening the package, please ensure all the following components are present and undamaged:

- 1x Carburetor Unit
- 1x Gasket
- 1x Fuel Line
- 1x Idle Mixing Ratio Screw



Image: A visual representation of the kit contents: the carburetor, a black fuel line, a black gasket, and a small black idle mixing ratio screw, laid out on a green background.

Compatibility

This carburetor replacement kit is compatible with various Briggs & Stratton engines. Please cross-reference your engine's model number and existing carburetor part number with the list below to confirm compatibility.

Replaces Briggs & Stratton Part Numbers:

- 796587
- 796109
- 594601
- 594593
- 591736
- 591731

- 699915
- 697122
- 794572

Compatible with Briggs & Stratton Engine Models (14.5HP - 21HP Intek Engine, 18hp one-cylinder family YBSXS5012VP 274826):

- 31A507, 31A607, 31A707, 31A777
- 31B707, 31B775
- 31C707, 31C777
- 31D707, 31D777
- 31E577, 31E607, 31E677, 31E707, 31E777
- 31F707, 31F777
- 31G707, 31G777
- 31H707, 31H777
- 31L777, 31M777, 31M877
- 31N707, 31P707, 31P777, 31P877, 31Q777

Important: Always compare your existing carburetor with the provided pictures and part numbers to ensure proper fitment before purchase and installation.



Image: A graphic displaying a comprehensive list of compatible Briggs & Stratton engine models and replacement part numbers for this carburetor kit.

Setup and Installation

Installing a carburetor requires mechanical aptitude. If you are unsure about any step, it is recommended to consult a qualified technician or refer to your engine's specific service manual. Always prioritize safety.

Safety Precautions:

- Ensure the engine is cool and turned off.
- Disconnect the spark plug wire to prevent accidental starting.
- Work in a well-ventilated area.
- Have a fire extinguisher nearby when working with fuel.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.

General Installation Steps:

1. **Drain Fuel:** If necessary, drain the fuel tank to prevent spills.
2. **Remove Air Filter Assembly:** Carefully remove the air filter housing and filter to access the carburetor.
3. **Disconnect Fuel Line:** Pinch off or clamp the fuel line to prevent fuel flow, then disconnect it from the old carburetor. Be prepared for minor fuel spills.
4. **Disconnect Linkages:** Carefully disconnect the throttle and choke linkages from the old carburetor. Note their positions for reassembly.
5. **Remove Mounting Bolts:** Unscrew the bolts holding the old carburetor to the engine manifold.
6. **Remove Old Carburetor and Gaskets:** Take off the old carburetor. Ensure all old gasket material is completely removed from the mounting surfaces. Clean the manifold surface thoroughly.
7. **Install New Gasket:** Place the new gasket provided in the kit onto the manifold, ensuring it aligns correctly with the mounting holes and passages.
8. **Mount New Carburetor:** Carefully position the new carburetor onto the gasket and manifold. Secure it with the mounting bolts, tightening them evenly.
9. **Reconnect Linkages:** Reattach the throttle and choke linkages to the new carburetor in their correct positions.
10. **Reconnect Fuel Line:** Attach the new fuel line (if replacing) or the existing fuel line to the new carburetor. Secure with a clamp if necessary.
11. **Reinstall Air Filter Assembly:** Reattach the air filter housing and filter.
12. **Refill Fuel and Test:** Refill the fuel tank. Reconnect the spark plug wire. Start the engine and check for leaks or proper operation. Adjust the idle mixing ratio screw if necessary (refer to "Operating" section).



Image: A visual representation of the carburetor's application, showing it integrated into a lawnmower engine, emphasizing ease of installation and stable performance.

Operating Principles

The carburetor is a vital component of your engine's fuel system, responsible for mixing air and fuel in the correct proportions for combustion. This replacement carburetor is pre-set for optimal performance for the specified Briggs & Stratton engines.

The idle mixing ratio screw allows for fine-tuning of the air-fuel mixture at idle speeds. Typically, adjustments are minor and should only be performed if the engine exhibits poor idle quality after installation. Turning the screw clockwise generally leans the mixture (less fuel), and counter-clockwise enriches it (more fuel).

Product Show



Image: Detailed close-up views of various parts of the carburetor, including the fuel inlet, the throttle linkage area, and the idle mixing ratio screw, providing a clearer understanding of its construction.

Maintenance

Proper maintenance of your carburetor and fuel system will ensure long-lasting performance and reliability.

- **Fuel Quality:** Always use fresh, clean fuel. Stale or contaminated fuel is a primary cause of carburetor issues. Consider using a fuel stabilizer, especially during storage.
- **Fuel Filter:** Regularly inspect and replace the fuel filter (if present in your system) to prevent debris from reaching the carburetor.
- **Air Filter:** Keep the air filter clean and replace it as recommended by your engine manufacturer. A dirty air filter can cause the engine to run rich and affect carburetor performance.
- **Storage:** Before long-term storage, either run the engine until it runs out of fuel or drain the fuel system to prevent gum and varnish buildup in the carburetor.

The manufacturer recommends keeping the carburetor clean to maintain optimal performance.

Troubleshooting

If you encounter issues after installing the new carburetor, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine won't start or starts hard	No fuel reaching carburetor Incorrect choke position Spark plug issue Air leak at carburetor gasket	Check fuel level, fuel filter, and fuel line for clogs. Ensure choke is properly engaged for cold starts. Inspect/replace spark plug. Check carburetor mounting bolts for tightness; replace gasket if damaged.
Engine surges or runs rough	Lean or rich fuel mixture Dirty air filter Contaminated fuel	Adjust idle mixing ratio screw slightly. Clean or replace air filter. Drain old fuel, clean tank, refill with fresh fuel.
Fuel leaks from carburetor	Improperly seated gasket Loose fuel line connection Damaged float or needle valve (less likely with new unit)	Ensure gasket is correctly installed and mounting bolts are tight. Check fuel line connections and clamps. Inspect carburetor for manufacturing defects if leaks persist.

If problems persist after attempting these solutions, it may indicate a more complex issue requiring professional diagnosis.

Specifications

Attribute	Detail
Brand	LiGuVCY
Model Number	Alla-USF7-451
Item Weight	14.8 ounces
Product Dimensions	5.91 x 3.74 x 2.95 inches
Manufacturer Part Number	Alla-USF7-451
Recommended Uses	Lawn Mower (Briggs & Stratton engines)
Compatible HP Range	14.5HP - 21HP (specific Intek engines)

Dimensional Display



Image: A side view of the carburetor with overlaid measurements, indicating key dimensions such as bore diameter and mounting hole spacing.

Warranty Information

Specific warranty details for this product are typically provided by the seller or manufacturer at the time of purchase. Please retain your proof of purchase for any warranty claims.

For information regarding returns, replacements, or defects, please contact the seller directly through the platform where the purchase was made.

Customer Support

If you have questions or require further assistance with the LiGuVCY Carburetor Replacement Kit, please reach out to the seller or manufacturer's customer support. Contact information can usually be found on the product packaging or the

seller's storefront page.

For general inquiries about Briggs & Stratton engine maintenance, refer to the official Briggs & Stratton service manuals or their authorized service centers.

© 2024 LiGuVCY. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

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

Submit question

Open the live page

https://manuals.plus/asin/B0B6FH5RWZ

More documents and user manuals: **https://manuals.plus/**