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FitBest ZHANGBIN

FitBest Carburetor User Manual

For Homelite 35cc, 38cc, 42cc Chainsaws

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your new FitBest Carburetor. Please read this manual thoroughly before attempting any installation or adjustment to ensure safe and effective use. This carburetor is designed as a direct replacement for specific Homelite chainsaw models.

2. PRODUCT OVERVIEW

The FitBest Carburetor is a precision-engineered component responsible for mixing air and fuel in the correct ratio for your chainsaw's engine. A properly functioning carburetor is crucial for optimal engine performance, fuel efficiency, and emissions control. This replacement unit is manufactured to OEM specifications to ensure compatibility and reliable operation.

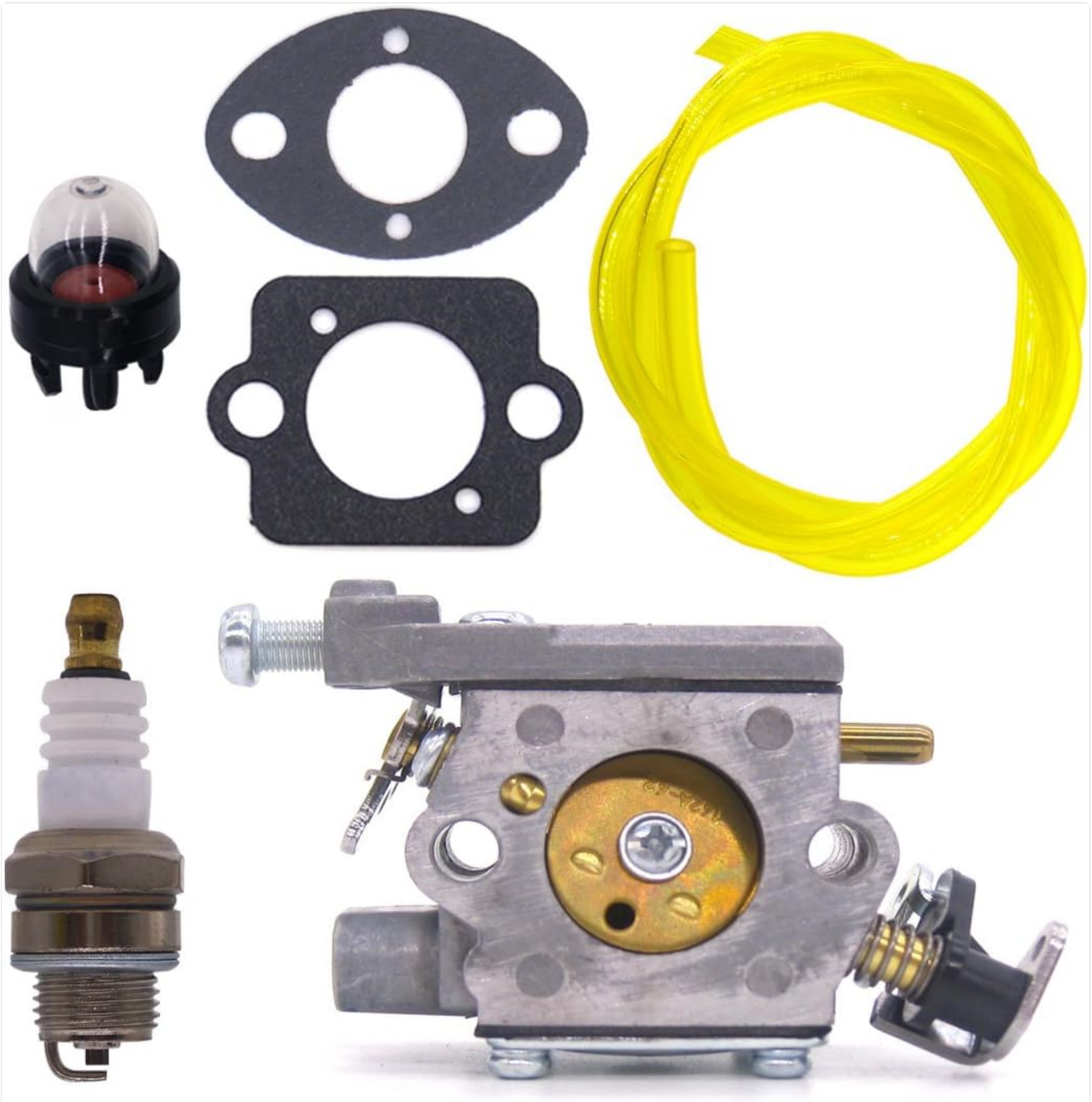


Figure 2.1: FitBest Carburetor and included components (gaskets, primer bulb, fuel line, spark plug).

This image displays the main carburetor unit along with the essential accessories provided for installation. These include two gaskets for proper sealing, a primer bulb for fuel priming, a section of fuel line, and a spark plug for ignition.

3. COMPATIBILITY

This FitBest Carburetor is a direct replacement for Homelite chainsaws and replaces OEM Part Numbers **309362001** and **309362003**.

Compatible Homelite Chainsaw Models:

- GM10514 14" 35cc Chain Saw (Note: Not compatible with older 330 models)
- GM10516 16" 38cc Chain Saw
- GM10518 18" 42cc Chain Saw

- UT10544 14 in. 35cc Chain Saw
- UT10546 14 in. 35cc Chain Saw
- UT10548 14 in. 35cc Chain Saw
- UT10560A Chainsaw (not SXL models)
- UT10564 16 in. 38cc Chain Saw
- UT10586 18 in. 42cc Chain Saw
- UT10588 18 in. 42cc Chain Saw
- UT10640 14 in. 42cc Chain Saw
- UT10660 16 in. 42cc Chain Saw
- UT10680 18 in. 42cc Chain Saw
- UT10566 16 in. 38cc Chain Saw
- UT10568 16 in. 38cc Chain Saw
- UT10584 18 in. 42cc Chain Saw

Additional Homelite Models:

- UT-10540, UT-10542, UT-10544, UT-10546, UT-10548, UT-10549
- UT-10560, UT-10562, UT-10564, UT-10566, UT-10568, UT-10569
- UT-10580, UT-10582, UT-10584, UT-10586, UT-10588, UT-10589

4. PACKAGE CONTENTS

Upon opening the package, verify that all the following components are present:

- 1x FitBest Carburetor
- 2x Gaskets
- 1x Primer Bulb
- 1x Fuel Line (approximately 1 foot in length)
- 1x Spark Plug

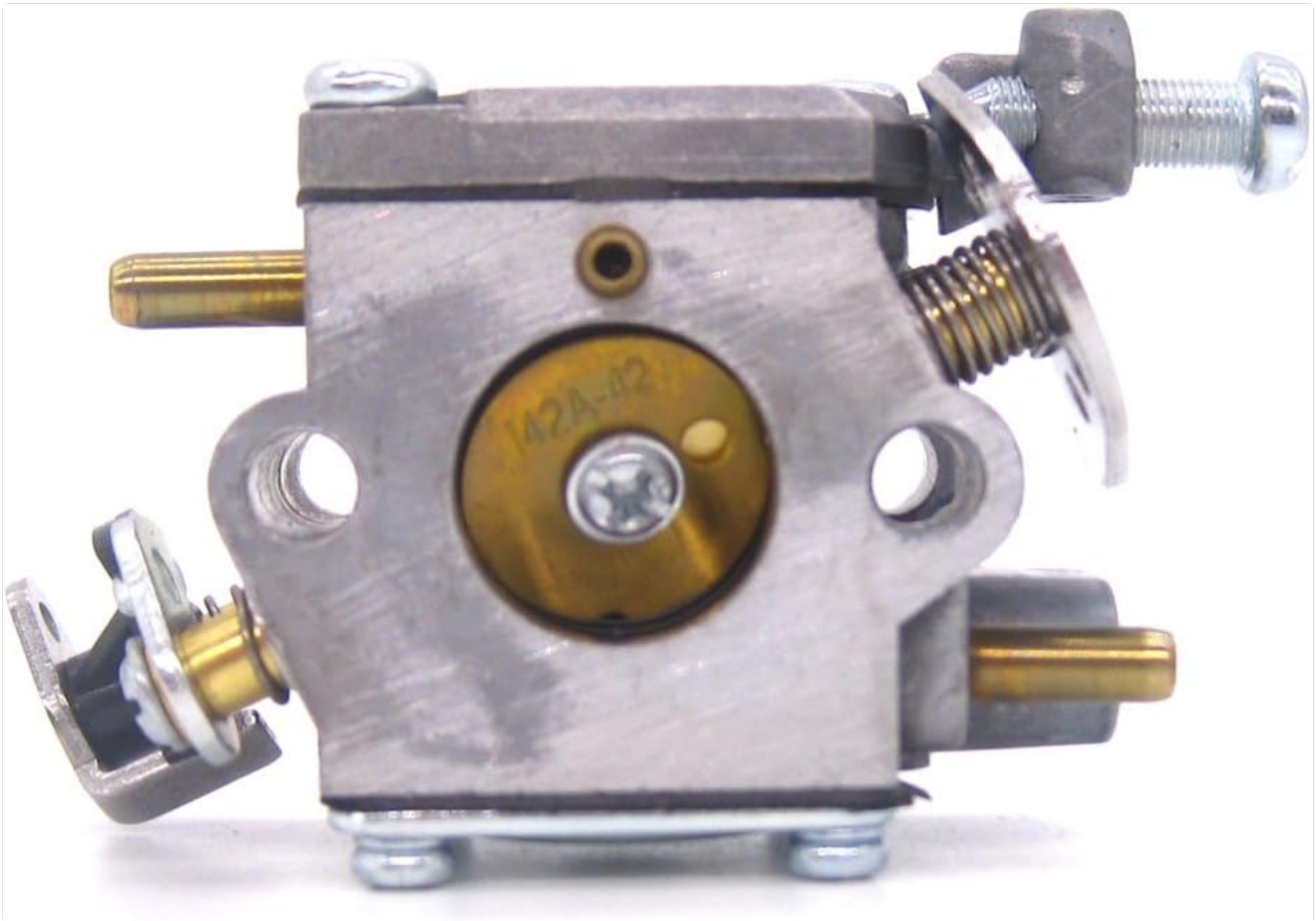


Figure 4.1: Side profile of the FitBest Carburetor, showing the fuel inlet and adjustment screws.

This image provides a clear side view of the carburetor, highlighting its various ports and the location of the adjustment screws, which are essential for fine-tuning the fuel-air mixture.

5. INSTALLATION

Safety First: Before beginning any work on your chainsaw, ensure the engine is off, cool, and the spark plug wire is disconnected to prevent accidental starting. Wear appropriate safety gear, including gloves and eye protection.

1. **Prepare the Chainsaw:** Remove the air filter cover and air filter. Locate the existing carburetor.
2. **Disconnect Components:** Carefully disconnect the fuel lines, throttle linkage, and any other connections to the old carburetor. Note their positions for reassembly.
3. **Remove Old Carburetor:** Unbolt and remove the old carburetor and its gaskets. Dispose of old gaskets properly.
4. **Install New Gaskets:** Place the new gaskets in their correct positions. Ensure they are clean and undamaged to prevent air leaks.
5. **Mount New Carburetor:** Position the new FitBest Carburetor, aligning it with the mounting bolts. Secure it firmly, but do not overtighten.
6. **Reconnect Components:** Reattach the fuel lines, ensuring they are securely connected and routed correctly. Connect the throttle linkage. Replace the primer bulb and fuel line if necessary, using the new ones provided.
7. **Install Spark Plug:** Replace the old spark plug with the new one provided. Ensure it is tightened to the manufacturer's specifications.
8. **Final Checks:** Double-check all connections and ensure there are no loose parts or kinks in the fuel lines.



Figure 5.1: Angled view of the FitBest Carburetor, showing the choke lever and mounting points.

This angled view illustrates the carburetor's choke lever mechanism and the precise locations of the mounting points, which are critical for correct installation onto the chainsaw engine.

6. OPERATION AND ADJUSTMENT

After installation, the carburetor may require adjustment for optimal performance. This carburetor features adjustable settings.

Initial Start-up:

1. Ensure the fuel tank is filled with the correct fuel mixture for your chainsaw.
2. Prime the carburetor by pressing the primer bulb until fuel is visible.
3. Set the choke according to your chainsaw's starting procedure.
4. Start the chainsaw. It may take a few pulls to draw fuel through the new system.

Carburetor Adjustment (if necessary):

Carburetor adjustment typically involves two main screws: the High (H) speed screw and the Low (L) speed screw. Some models may also have an idle speed screw (T).

- **Low Speed (L) Adjustment:** Controls the fuel mixture at idle and low RPMs. Adjust for smooth idling and good acceleration.
- **High Speed (H) Adjustment:** Controls the fuel mixture at wide-open throttle. Adjust for maximum power without leaning out the engine (which can cause damage).
- **Idle Speed (T) Adjustment:** Sets the engine's idle RPM.

Important: Refer to your chainsaw's specific service manual for detailed carburetor adjustment procedures and recommended settings. Incorrect adjustment can lead to engine damage or poor performance. If you are unsure, consult a qualified service technician.



Figure 6.1: Top angled view of the FitBest Carburetor, highlighting the adjustment screws.

This top-angled view clearly shows the location of the high and low-speed adjustment screws on the carburetor, which are used to fine-tune the fuel-air mixture for optimal engine performance.

7. MAINTENANCE

Regular maintenance of your carburetor and chainsaw will extend their lifespan and ensure reliable operation.

- **Fuel Quality:** Always use fresh, clean fuel mixed to the correct ratio for your 2-cycle engine. Stale or improperly mixed fuel can clog the carburetor.
- **Fuel Filter:** Periodically inspect and replace the fuel filter in the fuel tank. A clogged fuel filter can restrict fuel

flow to the carburetor.

- **Air Filter:** Keep the air filter clean. A dirty air filter restricts airflow, causing the engine to run rich and potentially affecting carburetor performance. Clean or replace as recommended by your chainsaw's manual.
- **Storage:** If storing the chainsaw for an extended period, drain the fuel tank and run the engine until it stops to clear the carburetor of fuel. This prevents fuel deposits from forming and clogging the carburetor's small passages. Alternatively, use a fuel stabilizer.
- **Spark Plug:** Inspect the spark plug regularly. A fouled or worn spark plug can affect engine starting and performance. Replace it as needed.

8. TROUBLESHOOTING

If your chainsaw experiences issues after carburetor replacement, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine won't start	No fuel, clogged fuel filter, incorrect choke setting, faulty spark plug, air leak.	Check fuel level, replace fuel filter, adjust choke, replace spark plug, check gaskets for leaks.
Engine starts but dies	Improper carburetor adjustment (L screw), fuel delivery issue, air leak.	Adjust low-speed screw, check fuel lines/filter, inspect gaskets.
Engine lacks power at high RPM	Improper carburetor adjustment (H screw), dirty air filter, restricted exhaust.	Adjust high-speed screw, clean/replace air filter, check exhaust for blockages.
Engine idles rough or too fast/slow	Improper carburetor adjustment (L or T screw), air leak.	Adjust low-speed or idle screw, check for air leaks around carburetor.
Fuel leaks from carburetor	Damaged gaskets, loose connections, faulty primer bulb.	Replace gaskets, tighten connections, replace primer bulb.

If problems persist after attempting these solutions, it is recommended to consult a professional chainsaw technician.

9. SPECIFICATIONS

Attribute	Value
Brand	FitBest
Model Number	ZHANGBIN
Replaces OEM Part Numbers	309362001, 309362003
Item Weight	6.4 ounces
Package Dimensions	3.66 x 2.68 x 2.44 inches

Attribute	Value
Special Features	Adjustable
Date First Available	November 5, 2017

10. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support, please refer to the FitBest official store or contact the seller directly through your purchase platform. Keep your purchase receipt as proof of purchase.

For additional product information or to explore other FitBest products, you may visit the official FitBest store: [FitBest Store on Amazon](#).