

CTS UT-08520, UT-08550, UT-08921, UT-08951

CTS Carburetor Instruction Manual

FOR HOMELITE 26CC MIGHTYLITE BLOWER

Brand: CTS | Models: UT-08520, UT-08550, UT-08921, UT-08951

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your new CTS Carburetor. This carburetor is a replacement part designed for specific Homelite 26cc MightyLite Blower models. Proper installation and adjustment are crucial for optimal performance and longevity of your equipment. Please read this manual thoroughly before proceeding with installation.

2. Compatibility

This CTS Carburetor (Homelite part No 308028007) is compatible with the following Homelite 26cc MightyLite Blower models:

- Homelite UT-08520 26cc Blower
- Homelite UT-08550 26cc Blower
- Homelite UT-08921 26cc Blower
- Homelite UT-08951 26cc Blower

Please verify your blower's model number before installation to ensure compatibility.

3. Product Overview

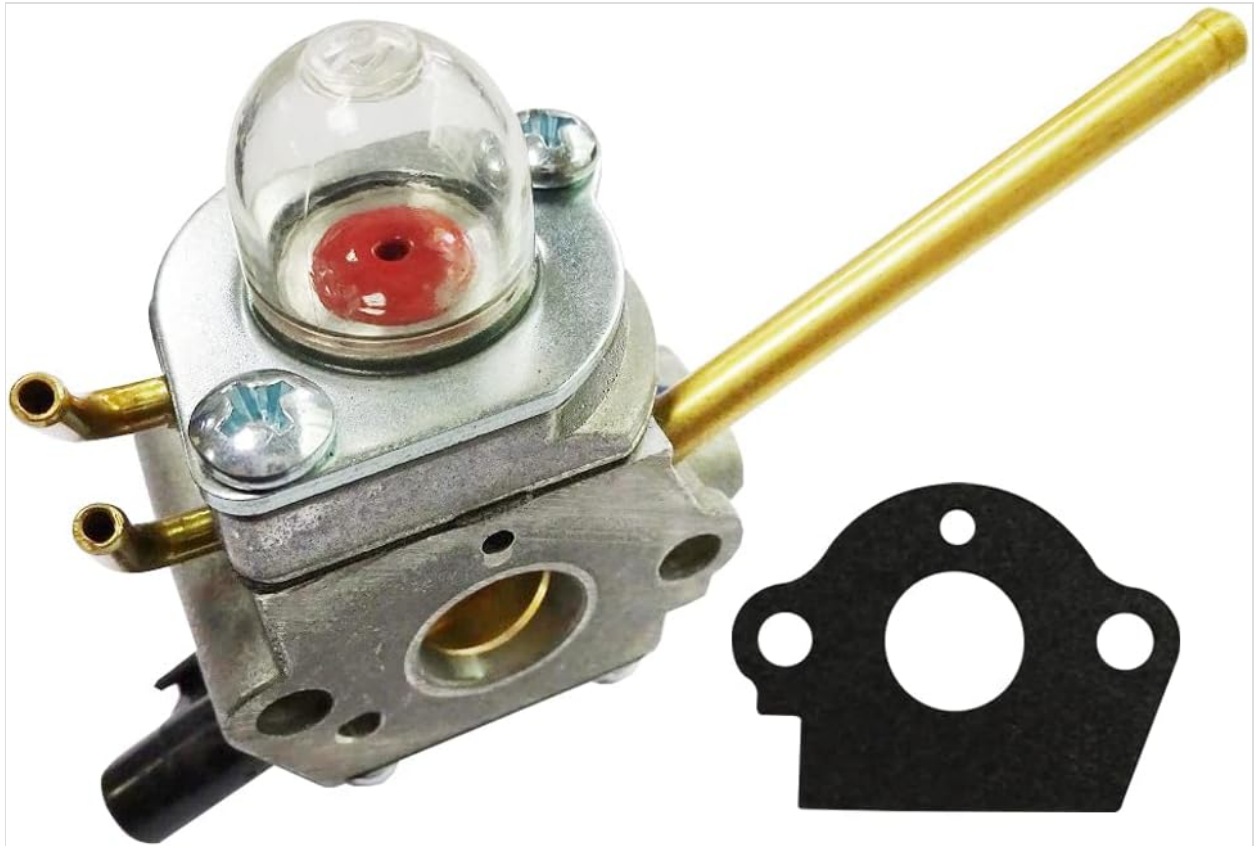


Figure 3.1: Front view of the CTS Carburetor, showing the primer bulb and fuel inlet/outlet ports. A new gasket is included for proper sealing during installation.

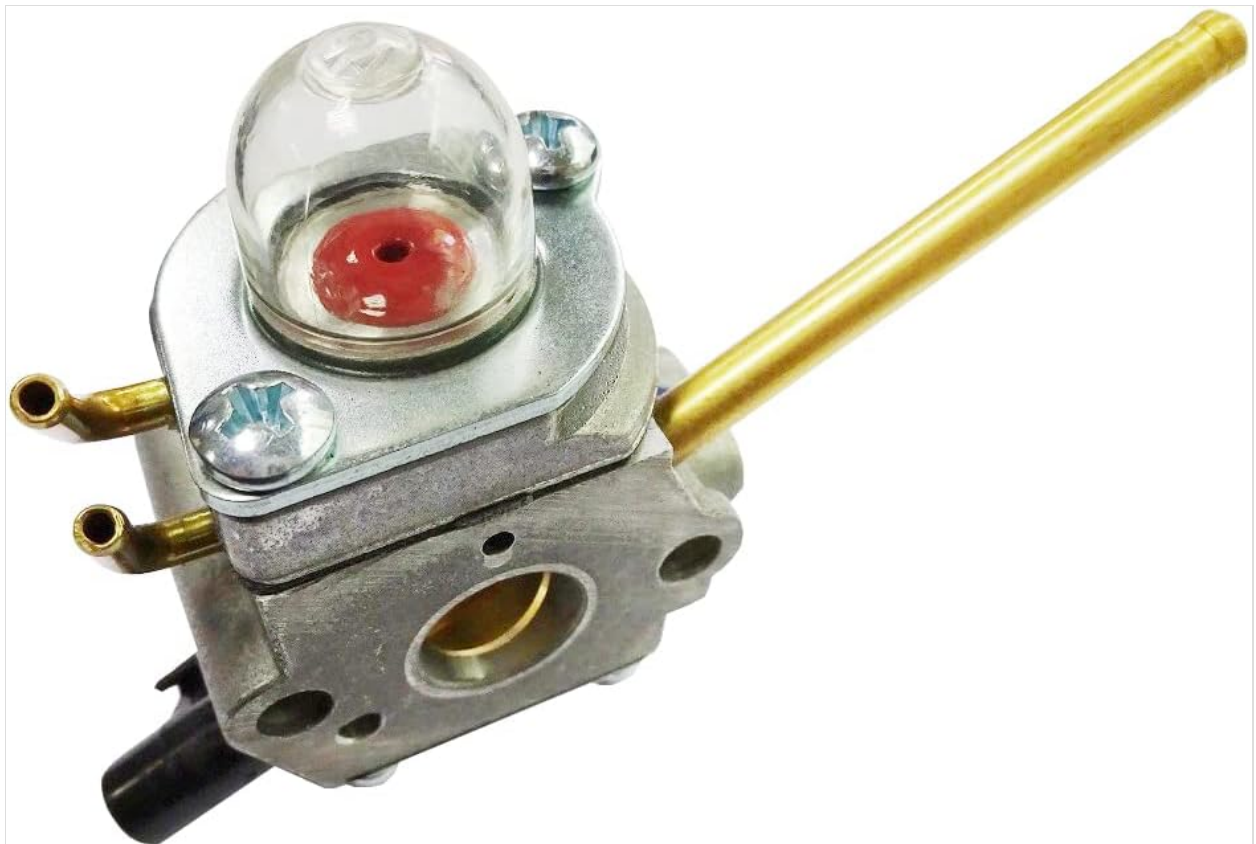


Figure 3.2: Angled view of the carburetor, highlighting the fuel lines and the throttle linkage connection point. The included gasket is visible next to the carburetor.

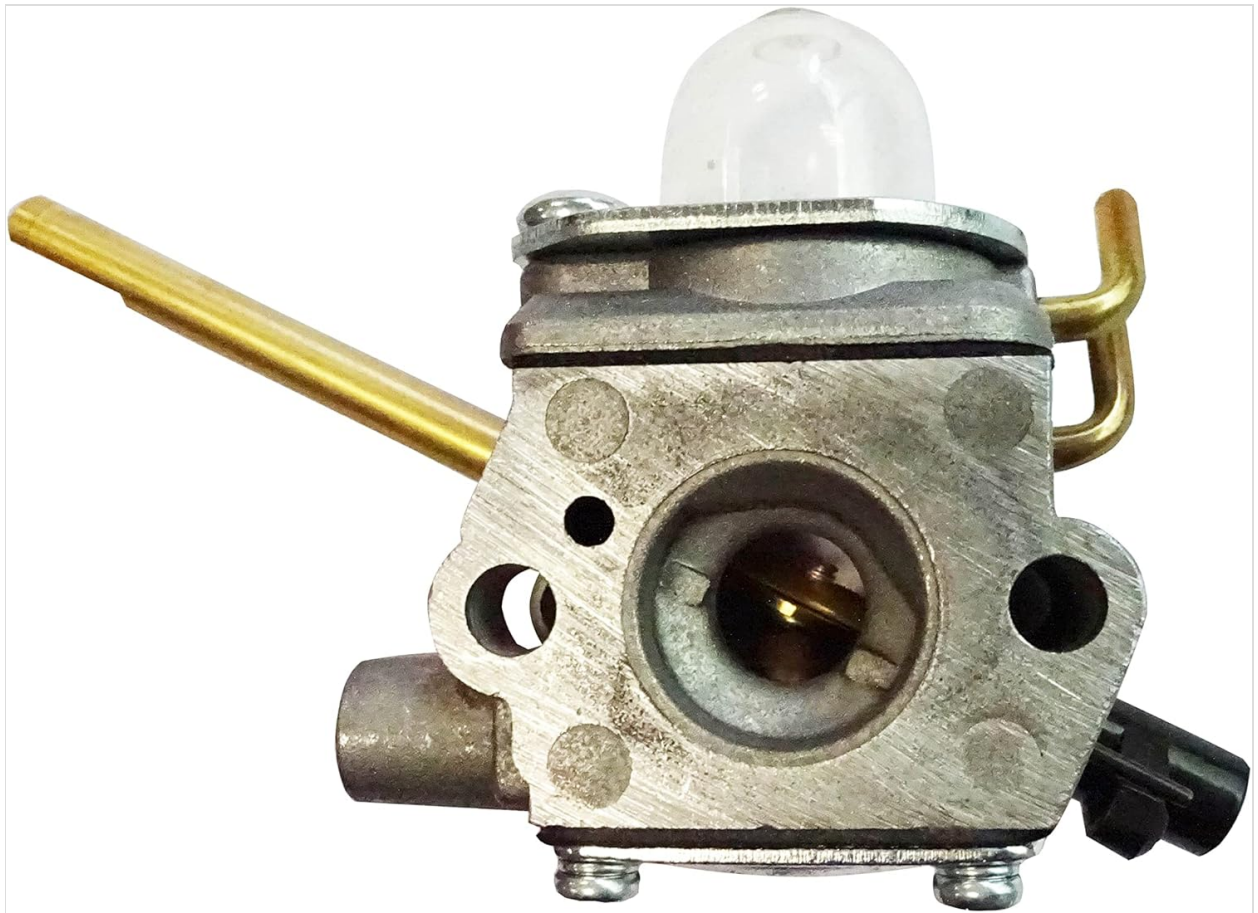


Figure 3.3: Side view of the carburetor, showing the main body and the fuel intake tube. This view helps in identifying the correct orientation for installation.

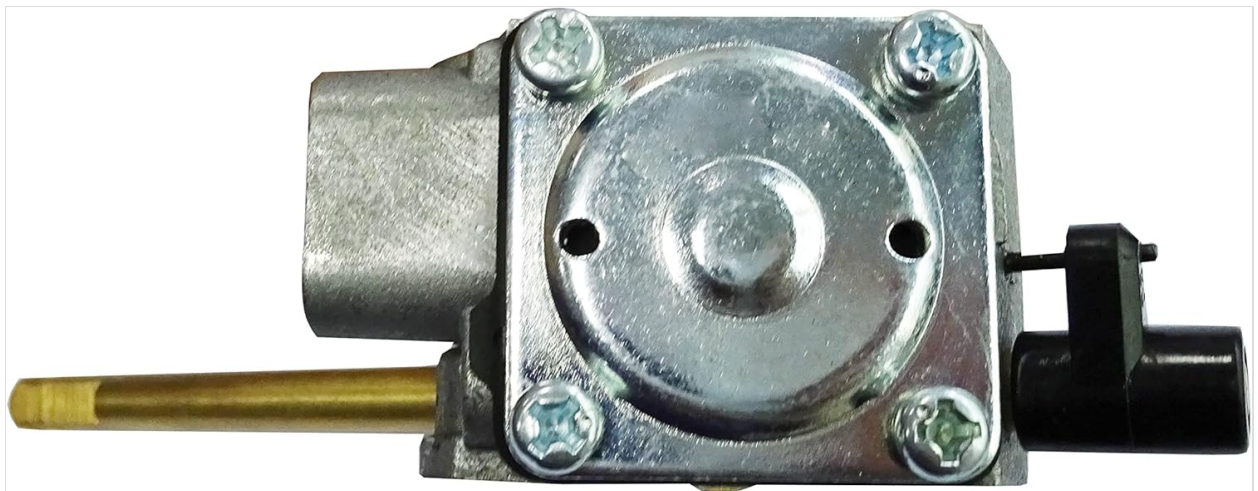


Figure 3.4: Top view of the carburetor, illustrating the location of the adjustment screws (if applicable) and the primer bulb assembly.

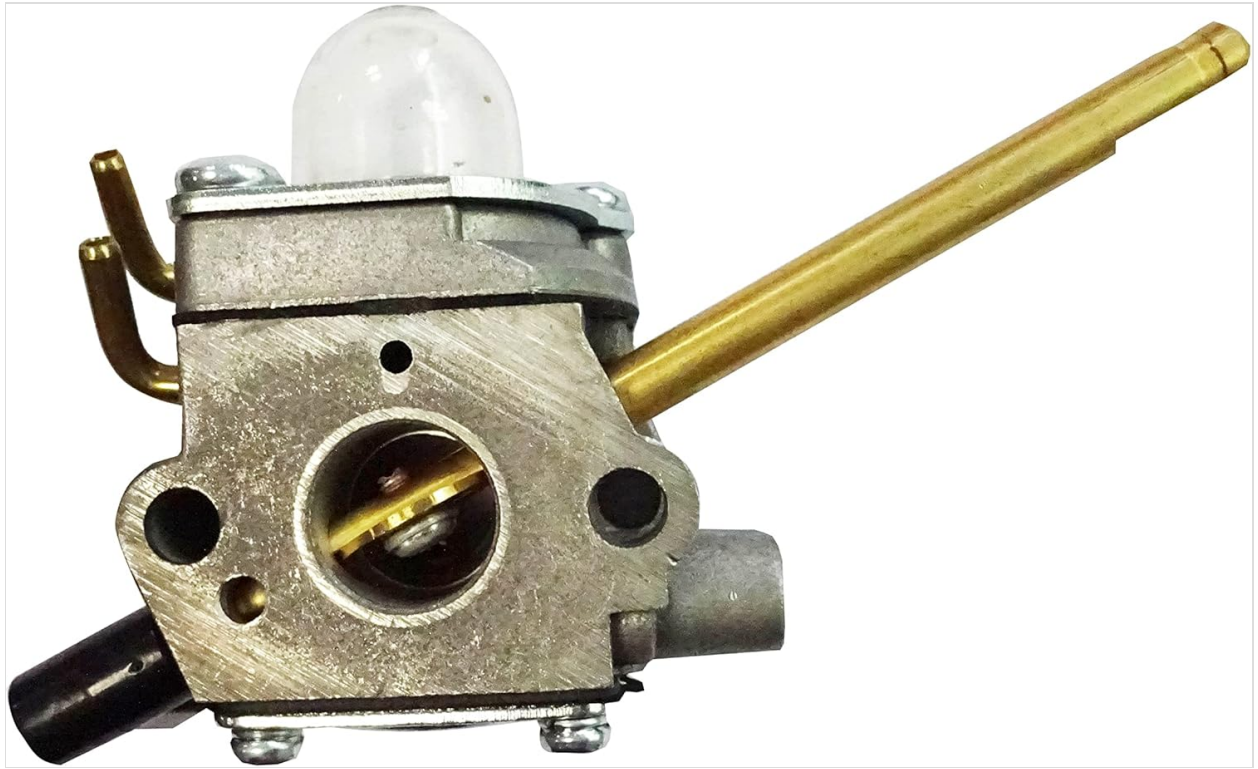


Figure 3.5: Another angled view, providing a comprehensive look at the carburetor's design and connection points.

4. Installation Guide

4.1 Safety Precautions

- Always disconnect the spark plug wire before performing any maintenance or installation to prevent accidental starting.
- Ensure the engine is cool before beginning work.
- Work in a well-ventilated area.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Handle fuel with extreme care. Store fuel in approved containers and away from ignition sources.
- Have a fire extinguisher readily available.

4.2 Tools Required

- Screwdrivers (Phillips and flathead)
- Socket wrench set or nut drivers
- Pliers
- Fuel line clamps (optional, but recommended)
- Clean rags
- Fuel-resistant sealant (optional, for fuel line connections)

4.3 Installation Steps

1. **Prepare the Blower:** Ensure the blower is turned off and the engine is cool. Disconnect the spark plug wire. Drain any remaining fuel from the fuel tank into an approved container.
2. **Access the Carburetor:** Remove any air filter covers, air filters, or other components that obstruct access to the carburetor. Note the routing of fuel lines and throttle linkage. Taking photos can be helpful.
3. **Disconnect Fuel Lines:** Carefully disconnect the fuel lines from the old carburetor. Be prepared for residual

fuel to leak. Use fuel line clamps if available to minimize spillage.

4. **Disconnect Throttle Linkage:** Detach the throttle linkage from the old carburetor. Pay attention to how it connects.
5. **Remove Old Carburetor:** Unscrew the mounting bolts or nuts holding the old carburetor in place. Remove the old carburetor and any old gaskets.
6. **Clean Mounting Surface:** Clean the engine's mounting surface thoroughly to ensure a proper seal with the new gasket.
7. **Install New Gasket:** Place the new gasket (included with your CTS Carburetor) onto the mounting surface. Ensure it is correctly oriented.
8. **Mount New Carburetor:** Position the new CTS Carburetor onto the gasket and align it with the mounting holes. Secure it with the original mounting bolts/nuts. Do not overtighten.
9. **Connect Throttle Linkage:** Reattach the throttle linkage to the new carburetor. Ensure it moves freely and operates the throttle plate correctly. *Note: Some models may require modification or reuse of the original throttle lever if the new carburetor's lever is incompatible.*
10. **Connect Fuel Lines:** Reconnect the fuel lines to the appropriate ports on the new carburetor. Ensure connections are secure and free of leaks.
11. **Reassemble:** Reinstall the air filter, air filter cover, and any other components removed during disassembly.
12. **Refuel and Test:** Refill the fuel tank with the appropriate fuel mixture for your Homelite blower. Reconnect the spark plug wire. Prime the carburetor by pressing the primer bulb until fuel is visible. Start the engine and check for proper operation and any fuel leaks.

5. Operation and Adjustment

5.1 Initial Start-up

After installation, ensure all connections are secure. Prime the carburetor by pressing the primer bulb several times until it feels firm and fuel is visible in the lines. Follow your Homelite blower's specific starting procedure.

5.2 Carburetor Adjustment

Your new carburetor may require fine-tuning for optimal performance. Most small engine carburetors have adjustment screws for idle speed and fuel mixture (high and low speed). These screws are often capped for emissions compliance.

- **Idle Speed Adjustment:** Adjust the idle screw to achieve a smooth, consistent idle without the engine stalling or the blower engaging.
- **Fuel Mixture Adjustment:** If your carburetor has accessible fuel mixture screws (often requiring a specialized "Pac-Man" or "D" shaped tool), adjust them according to your blower's original service manual. Incorrect adjustment can lead to poor performance, engine damage, or excessive emissions. Typically, adjustments involve turning screws in small increments (e.g., 1/8 turn) and observing engine response.

Important: Refer to your specific Homelite blower's owner's manual or service manual for detailed carburetor adjustment procedures and specifications. If you are unsure, consult a qualified small engine technician.

6. Maintenance

Regular maintenance ensures the longevity and proper function of your carburetor and blower.

- **Fuel Quality:** Always use fresh, clean fuel mixed with the correct oil ratio as specified by Homelite for your 2-stroke engine. Stale or improperly mixed fuel is a leading cause of carburetor issues.

- **Fuel Filter:** Regularly inspect and replace the fuel filter (located in the fuel tank) to prevent debris from entering the carburetor.
- **Air Filter:** Keep the air filter clean. A clogged air filter can cause the engine to run rich and affect carburetor performance.
- **Storage:** Before long-term storage, drain the fuel tank and run the engine until it stops to clear all fuel from the carburetor. Alternatively, use a fuel stabilizer to prevent gum and varnish buildup.

7. Troubleshooting

This section addresses common issues you might encounter after installing the new carburetor.

Problem	Possible Cause	Solution
Engine will not start or starts and immediately dies.	No fuel reaching the engine; improper fuel mixture; clogged fuel filter.	Ensure primer bulb is working and fuel lines are connected correctly. Check fuel filter. Adjust fuel mixture if accessible.
Primer bulb not drawing fuel or stays depressed.	Internal blockage in carburetor; faulty primer bulb; air leak in fuel lines.	Check fuel line connections for tightness. Inspect primer bulb for cracks. If blockage is suspected, carburetor may need cleaning or replacement.
Engine runs rough or stalls at idle.	Incorrect idle speed adjustment; dirty air filter; fuel quality issues.	Adjust idle speed screw. Clean or replace air filter. Use fresh, clean fuel.
Throttle lever incompatibility.	New carburetor's throttle lever does not match original.	Attempt to reuse the throttle lever from your original carburetor if possible. If not, contact the manufacturer for compatible parts or solutions.

8. Specifications

Attribute	Value
Product Dimensions	5 x 3.1 x 3.5 inches
Item Weight	4 ounces
UPC	667673501236
Homelite Part No.	308028007

9. Warranty and Support

For information regarding warranty coverage or technical support for your CTS Carburetor, please refer to the original purchase documentation or contact the manufacturer directly. Keep your proof of purchase for any warranty claims.

For specific operational or repair details concerning your Homelite 26cc MightyLite Blower, always consult the original Homelite owner's manual or contact Homelite customer service.

