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## Homelite 308054001

# Homelite 308054001 Carburetor 26CC Gas Engine Instruction Manual

Model: 308054001

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## 1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Homelite 308054001 Carburetor. This genuine OEM part is designed for specific Homelite, Sears Craftsman, and Ryobi 26CC gas engine models. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image: The Homelite 308054001 Carburetor, a replacement part for 26CC gas engines. This image shows the complete carburetor unit.

## 2. SAFETY INFORMATION

Always observe the following safety precautions when working with fuel systems and gas engines:

- **Read all engine manuals:** Consult your engine's specific instruction manual for additional safety guidelines and procedures.
- **Eye Protection:** Always wear appropriate eye protection to shield against fuel splashes or debris.
- **Ventilation:** Work in a well-ventilated area to avoid inhaling fuel fumes.
- **Fire Hazard:** Keep open flames, sparks, and other ignition sources away from fuel and the carburetor. Do not smoke while working.
- **Fuel Handling:** Handle gasoline with extreme care. Store fuel in approved containers.
- **Engine Cooling:** Allow the engine to cool completely before performing any maintenance or installation.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 3. PACKAGE CONTENTS

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Upon opening the package, verify that all components are present and undamaged. The package should contain:

- One (1) Homelite 308054001 Carburetor

*Note: Gaskets are typically not included with this replacement part and may need to be reused from the original carburetor or purchased separately.*

### 4. SETUP AND INSTALLATION

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Follow these steps for proper installation of the Homelite 308054001 Carburetor. Refer to your engine's service manual for specific diagrams and torque specifications.

1. **Preparation:** Ensure the engine is turned off and cool. Disconnect the spark plug wire to prevent accidental starting. Drain any fuel from the tank.
2. **Access:** Remove any air filter covers, air filters, or other components that obstruct access to the existing carburetor.
3. **Disconnect Fuel Lines:** Carefully disconnect the fuel lines from the old carburetor. Be prepared for residual fuel to spill. Use clamps to prevent fuel leakage from the tank lines if necessary.
4. **Disconnect Linkages:** Detach any throttle linkages, choke linkages, or other control rods connected to the carburetor. Note their original positions for correct reassembly.
5. **Remove Old Carburetor:** Unscrew the mounting bolts or nuts holding the carburetor to the engine manifold. Carefully remove the old carburetor, taking care to preserve any gaskets between the carburetor and the engine.
6. **Install New Carburetor:** Position the new Homelite 308054001 Carburetor with the gaskets (new or carefully reused) in place. Ensure proper alignment.
7. **Secure Carburetor:** Reinstall the mounting bolts or nuts and tighten them according to your engine's specifications. Do not overtighten.
8. **Reconnect Linkages:** Reattach all throttle and choke linkages to their correct positions on the new carburetor. Verify smooth operation of the throttle and choke.
9. **Reconnect Fuel Lines:** Reconnect the fuel lines to the appropriate ports on the new carburetor. Ensure connections are secure to prevent leaks.
10. **Reassemble Components:** Reinstall the air filter, air filter cover, and any other components removed during disassembly.
11. **Initial Fueling:** Refill the fuel tank with the correct type of gasoline as specified by your engine manufacturer.
12. **Prime (if applicable):** If your engine has a primer bulb, press it several times until fuel is visible in the bulb.
13. **Reconnect Spark Plug:** Reconnect the spark plug wire.

### 5. OPERATING INSTRUCTIONS

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Once the carburetor is installed, the engine should be ready for operation. The carburetor's primary function is to mix air and fuel in the correct ratio for combustion.

- **Starting the Engine:** Follow your engine manufacturer's specific starting procedure, which typically involves setting the choke, priming the fuel system, and pulling the starter cord.
- **Choke Operation:** The choke enriches the fuel mixture for cold starts. Once the engine starts, gradually move the choke to the "run" position as the engine warms up.
- **Throttle Control:** The throttle lever controls engine speed by regulating the amount of air-fuel mixture entering the engine.
- **Fuel Type:** Always use the fuel type recommended by your engine manufacturer. Using incorrect fuel can damage the carburetor and engine. This carburetor is designed for gasoline.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your carburetor and engine.

- **Air Filter:** Regularly inspect and clean or replace the air filter. A dirty air filter can restrict airflow, leading to a rich fuel mixture and poor engine performance.
- **Fuel Filter:** Check and replace the in-tank fuel filter periodically. A clogged fuel filter can restrict fuel flow to the carburetor.
- **Fuel Quality:** Use fresh, clean gasoline. Stale or contaminated fuel can cause deposits in the carburetor, leading to starting and running issues. Consider using a fuel stabilizer if storing the engine for extended periods.
- **Carburetor Cleaning:** If performance issues arise due to fuel deposits, the carburetor may need to be cleaned. This often involves disassembly and cleaning with a carburetor cleaner. This procedure should only be performed by individuals with appropriate mechanical knowledge.
- **Spark Plug:** Replace the spark plug as recommended by your engine manufacturer. A fouled spark plug can affect combustion efficiency.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Engine will not start	No fuel, incorrect choke setting, fouled spark plug, air leak, clogged fuel filter.	Check fuel level. Adjust choke. Inspect/replace spark plug. Verify all connections are tight. Replace fuel filter.
Engine runs poorly or stalls	Dirty air filter, stale fuel, carburetor adjustments needed, fuel line obstruction.	Clean/replace air filter. Use fresh fuel. Adjust carburetor (if equipped with adjustment screws). Check fuel lines for kinks or blockages.
Engine runs too rich (smokes, bogs down)	Dirty air filter, choke stuck on, carburetor adjustment.	Clean/replace air filter. Ensure choke is fully open. Adjust carburetor if necessary.
Engine runs too lean (overheats, lacks power)	Air leak, fuel starvation, carburetor adjustment.	Check for air leaks around carburetor gaskets. Ensure fuel filter and lines are clear. Adjust carburetor if necessary.
Fuel leaks	Loose fuel lines, damaged gaskets, cracked carburetor body.	Tighten fuel line clamps. Replace damaged gaskets. If carburetor body is cracked, replacement is necessary.

*Note: Carburetors may have adjustment screws for idle speed, high speed, and low speed mixture. Adjustments should be made carefully and typically require specialized tools and knowledge. Refer to your engine's service manual for specific adjustment procedures.*

## 8. SPECIFICATIONS

Key specifications for the Homelite 308054001 Carburetor:

Feature	Detail
Model Number	308054001
Brand	Homelite

Feature	Detail
Product Dimensions	2.5 x 2.5 x 2.75 inches
Item Weight	3.17 ounces
Fuel Type	Gasoline
UPC	330090276017

## 9. WARRANTY AND SUPPORT

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For specific warranty information regarding your Homelite 308054001 Carburetor, please refer to the documentation provided with your original engine or contact Homelite directly. As an authorized Homelite dealer, we provide genuine OEM parts.

For technical support or further assistance, please contact an authorized Homelite service center or a qualified small engine mechanic.

