

USPEEDA HDC Carburetor Repair Rebuild Kit

USPEEDA Carburetor Repair Rebuild Kit Instruction Manual

For Homelite XL, XL 2, and Super 2 Chainsaws with HDC Carburetors

INTRODUCTION

This manual provides detailed instructions for the installation, maintenance, and troubleshooting of the USPEEDA Carburetor Repair Rebuild Kit. This kit is specifically designed to restore optimal performance to HDC carburetors found in Homelite XL, XL 2, and Super 2 chainsaw models. Proper installation of these components is crucial for the correct operation of your equipment.

SAFETY INFORMATION

WARNING: Always observe safety precautions when working with fuel systems and power tools.

- Ensure the chainsaw engine is cool and disconnected from its power source (spark plug wire removed) before beginning any work.
- Work in a well-ventilated area to avoid inhaling fuel vapors.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Handle fuel and carburetor cleaner with care, as they are flammable and can cause skin irritation.
- Keep a fire extinguisher nearby.

PACKAGE CONTENTS

The USPEEDA Carburetor Repair Rebuild Kit includes the following components:

- 1 set Carburetor Repair Rebuild Diaphragm Kit
- 2 Fuel Filters
- 2 feet Fuel Line

COMPATIBILITY

This kit is compatible with Homelite XL, XL 2, and Super 2 chainsaw models that utilize an HDC series carburetor. Please verify your carburetor model before installation to ensure proper fitment.

SETUP AND INSTALLATION

This section outlines the general procedure for rebuilding your HDC carburetor. Specific disassembly and reassembly steps may vary slightly depending on your exact carburetor model. Refer to your chainsaw's service manual for detailed carburetor removal and installation instructions.

Required Tools:

- Screwdrivers (flathead and Phillips)
- Small wrench or socket set
- Carburetor cleaner
- Clean rags or paper towels

Procedure:

1. **Carburetor Removal:** Carefully remove the carburetor from the chainsaw. Disconnect all fuel lines, throttle linkage, and mounting bolts. Note the position of each component for reassembly.
2. **Disassembly:** Remove the cover screws from the carburetor's diaphragm and pump sides. Carefully lift off the covers and remove the old gaskets and diaphragms. Pay attention to the order and orientation of these parts.
3. **Cleaning:** Thoroughly clean all carburetor passages and components with carburetor cleaner. Ensure all small holes and jets are clear of debris. Use compressed air if available to blow out passages.
4. **Component Replacement:** Replace the old gaskets and diaphragms with the new ones from the USPEEDA kit. Ensure each new part matches the old one in shape and size.

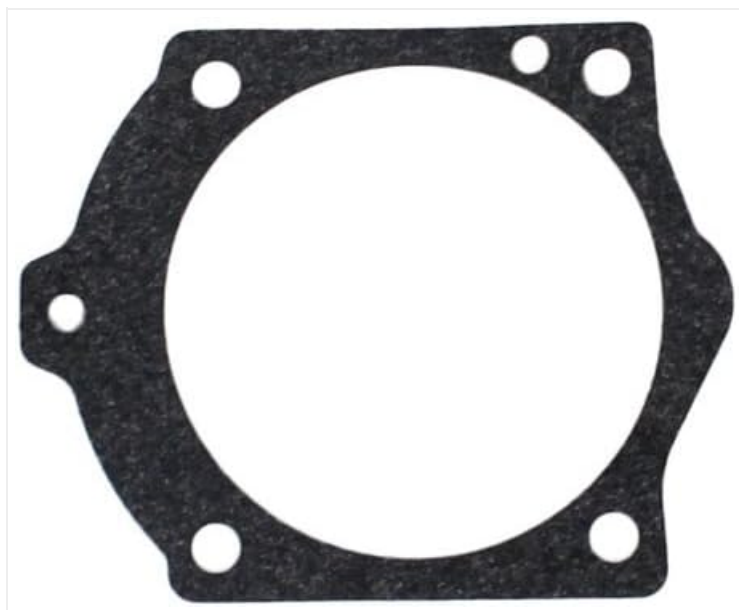


Image: A large, irregularly shaped gasket, typically used between carburetor body sections.

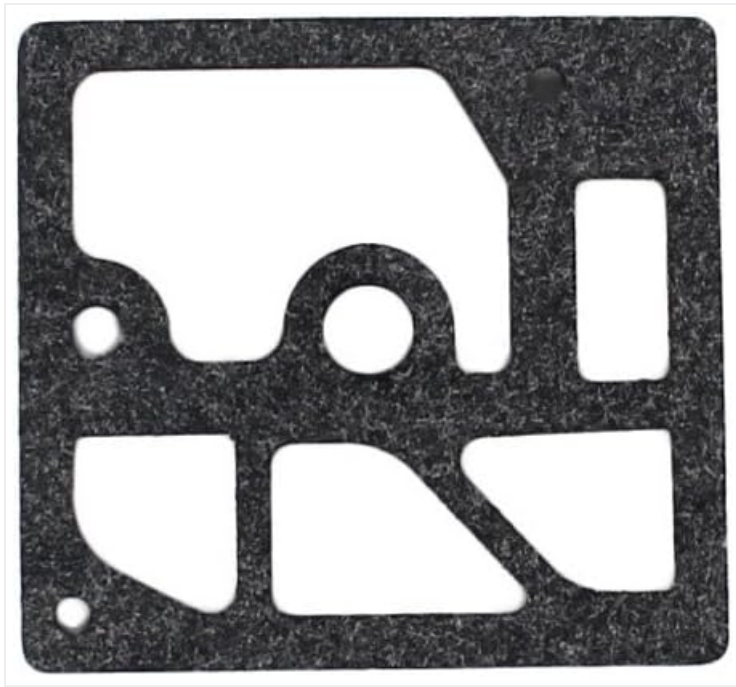


Image: A complex, multi-chambered diaphragm, often part of the fuel pump or metering system.



Image: A circular diaphragm with various cutouts, commonly used as a metering diaphragm.



Image: Another circular diaphragm, often functioning as a fuel pump diaphragm.



Image: A rectangular gasket or diaphragm, typically found in specific carburetor sections.

5. **Reassembly:** Reassemble the carburetor, ensuring all new gaskets and diaphragms are correctly seated and oriented. Tighten screws to the manufacturer's specifications, being careful not to overtighten.
6. **Fuel Line and Filter Replacement:** Replace the old fuel lines with the new 2-foot fuel line provided. Install the new fuel filters into the fuel tank and connect them to the new fuel lines. Ensure all connections are secure to prevent leaks.

7. **Carburetor Reinstallation:** Mount the rebuilt carburetor back onto the chainsaw. Reconnect the throttle linkage and fuel lines. Ensure all mounting bolts are tightened securely.

OPERATING (POST-INSTALLATION)

After rebuilding and reinstalling the carburetor, follow these steps for initial startup:

1. **Fueling:** Fill the fuel tank with the correct fuel/oil mixture as specified by your chainsaw manufacturer.
2. **Priming:** If your carburetor has a primer bulb, press it several times until fuel is visible in the bulb.
3. **Choke and Start:** Follow your chainsaw's specific starting procedure, which typically involves setting the choke and pulling the starter cord.
4. **Idle Adjustment:** Once the engine starts and warms up, you may need to adjust the idle speed screw on the carburetor to achieve a smooth, consistent idle.
5. **High/Low Speed Adjustment:** If your carburetor has adjustable high and low-speed mixture screws, fine-tune them according to your chainsaw's service manual for optimal performance.

MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your chainsaw and its carburetor.

- **Fuel Quality:** Always use fresh, clean fuel mixed with the correct ratio of 2-stroke oil. Stale fuel can cause carburetor issues.
- **Fuel Filter:** Inspect and replace the fuel filter periodically (e.g., annually or every 50 hours of operation) to prevent contaminants from reaching the carburetor.
- **Air Filter:** Keep the air filter clean to ensure proper air-fuel mixture. A dirty air filter can cause the engine to run rich.
- **Storage:** Before long-term storage, drain the fuel tank and run the engine until it stops to clear fuel from the carburetor, or use a fuel stabilizer.

TROUBLESHOOTING

If you encounter issues after rebuilding your carburetor, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine won't start	<ul style="list-style-type: none">• Incorrect fuel mixture• Clogged fuel filter• Improperly installed diaphragms/gaskets• Clogged fuel line	<ul style="list-style-type: none">• Verify fuel/oil ratio• Replace fuel filter• Recheck diaphragm/gasket orientation• Inspect and clear fuel line

Problem	Possible Cause	Solution
Engine runs poorly (stalling, rough idle)	<ul style="list-style-type: none">• Carburetor adjustment needed• Air leak (improperly sealed gaskets)• Clogged jet	<ul style="list-style-type: none">• Adjust idle and mixture screws• Recheck all gaskets for proper sealing• Clean carburetor jets thoroughly
Fuel leaks	<ul style="list-style-type: none">• Damaged or improperly seated gasket/diaphragm• Loose fuel line connection	<ul style="list-style-type: none">• Inspect and replace faulty gaskets/diaphragms• Tighten fuel line clamps

SPECIFICATIONS

- **Product Dimensions:** 2.76 x 2.76 x 0.98 inches
- **Item Weight:** 1.31 ounces
- **Manufacturer:** USPEEDA
- **UPC:** 606015360063

WARRANTY AND SUPPORT

USPEEDA products are manufactured to high standards. For specific warranty information or technical support, please refer to the contact information provided with your original purchase or visit the official USPEEDA website. Keep your proof of purchase for warranty claims.