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NTSUMI Carburetor Diaphragm Gasket Kit

NTSUMI Carburetor Repair Rebuild Kit Instruction Manual

For Tillotson HU10A, HU10B, HU10C Carburetors and Poulan S25DA, S25CVA Chainsaws

1. Introduction

This manual provides instructions for the NTSUMI Carburetor Repair Rebuild Kit. This kit is designed to restore the functionality and sealing performance of compatible carburetors, addressing common issues such as fuel leaks, unstable idle, and inconsistent engine performance. Proper installation and maintenance are crucial for optimal operation and longevity of your equipment.

2. Product Components

The NTSUMI Carburetor Repair Rebuild Kit includes a comprehensive set of diaphragms, gaskets, and other small components necessary for a complete carburetor overhaul. These parts are manufactured from high-quality, wear-resistant, corrosion-resistant, and heat-resistant composite materials to ensure stable performance under various operating conditions.



Figure 2.1: Overview of all components included in the NTSUMI Carburetor Repair Rebuild Kit, featuring various gaskets, diaphragms, and small metal parts.



Figure 2.2: A detailed view of the individual components, highlighting the quality of materials used for wear, corrosion, and heat resistance.

3. Compatibility

This carburetor repair rebuild kit is compatible with the following models:

- **Carburetors:** Tillotson HU10A, Tillotson HU10B, Tillotson HU10C
- **Chainsaws:** Poulan S25DA, Poulan S25CVA

Please verify your equipment's carburetor and chainsaw model numbers before proceeding with installation to ensure proper fitment.

Figure 3.1: A chainsaw in operation, representing the compatible Poulan S25DA and S25CVA models for which this kit is designed.

4. Installation Guide (Setup)

Replacing carburetor components requires careful attention to detail. If you are unfamiliar with carburetor repair, it is recommended to consult a qualified technician or refer to a service manual specific to your chainsaw model.

General Steps:

1. **Safety First:** Ensure the chainsaw engine is off and cool. Disconnect the spark plug wire to prevent accidental starting.
2. **Fuel Drainage:** Drain any fuel from the fuel tank and carburetor.
3. **Disassembly:** Carefully remove the carburetor from the chainsaw. Document the position of all hoses, linkages, and screws.
4. **Component Replacement:** Disassemble the carburetor, paying close attention to the order and orientation of existing diaphragms and gaskets. Replace old components with the new parts from the NTSUMI kit. Ensure all hole positions align precisely for proper sealing.
5. **Reassembly:** Reassemble the carburetor, ensuring all parts are correctly seated and screws are tightened to manufacturer specifications.
6. **Reinstallation:** Reinstall the carburetor onto the chainsaw, reconnecting all hoses and linkages.
7. **Testing:** Refill the fuel tank and test the chainsaw's operation. Adjust idle and fuel mixture as needed according to your chainsaw's service manual.



Figure 4.1: A close-up view of a carburetor during maintenance, illustrating the area where kit components are installed. Precision in placement is essential.

5. Maintenance

Regular maintenance of your carburetor is essential for consistent engine performance. After installing the NTSUMI repair kit, consider the following:

- **Fuel Quality:** Always use fresh, clean fuel mixed according to your chainsaw manufacturer's recommendations. Stale or contaminated fuel can lead to carburetor issues.
- **Air Filter:** Regularly inspect and clean or replace the air filter to ensure proper air-fuel mixture.
- **Fuel Filter:** Check and replace the fuel filter periodically to prevent debris from entering the carburetor.
- **Storage:** When storing the chainsaw for extended periods, drain the fuel system or use a fuel stabilizer to prevent gumming and varnish buildup in the carburetor.

6. Troubleshooting

The NTSUMI Carburetor Repair Rebuild Kit is designed to address common carburetor-related performance issues. If you experience problems after installation, consider these troubleshooting steps:

- **Engine Not Starting or Hard Starting:**
    - Verify all components of the kit were installed correctly and in the right orientation.
    - Check for any fuel line blockages or kinks.
    - Ensure the spark plug is clean and functional.
- **Unstable Idle or Stalling:**
    - Inspect for air leaks around the carburetor mounting gaskets.
    - Adjust the idle speed screw on the carburetor according to your chainsaw's manual.
- **Fuel Leakage:**
    - Re-check all gaskets and diaphragms for proper seating and tightness.
    - Ensure no components were damaged during installation.
- **Reduced Power or RPM Fluctuations:**
    - Confirm that the fuel filter and air filter are clean.
    - Ensure the carburetor's high and low-speed mixture screws are set correctly (refer to your chainsaw's manual).

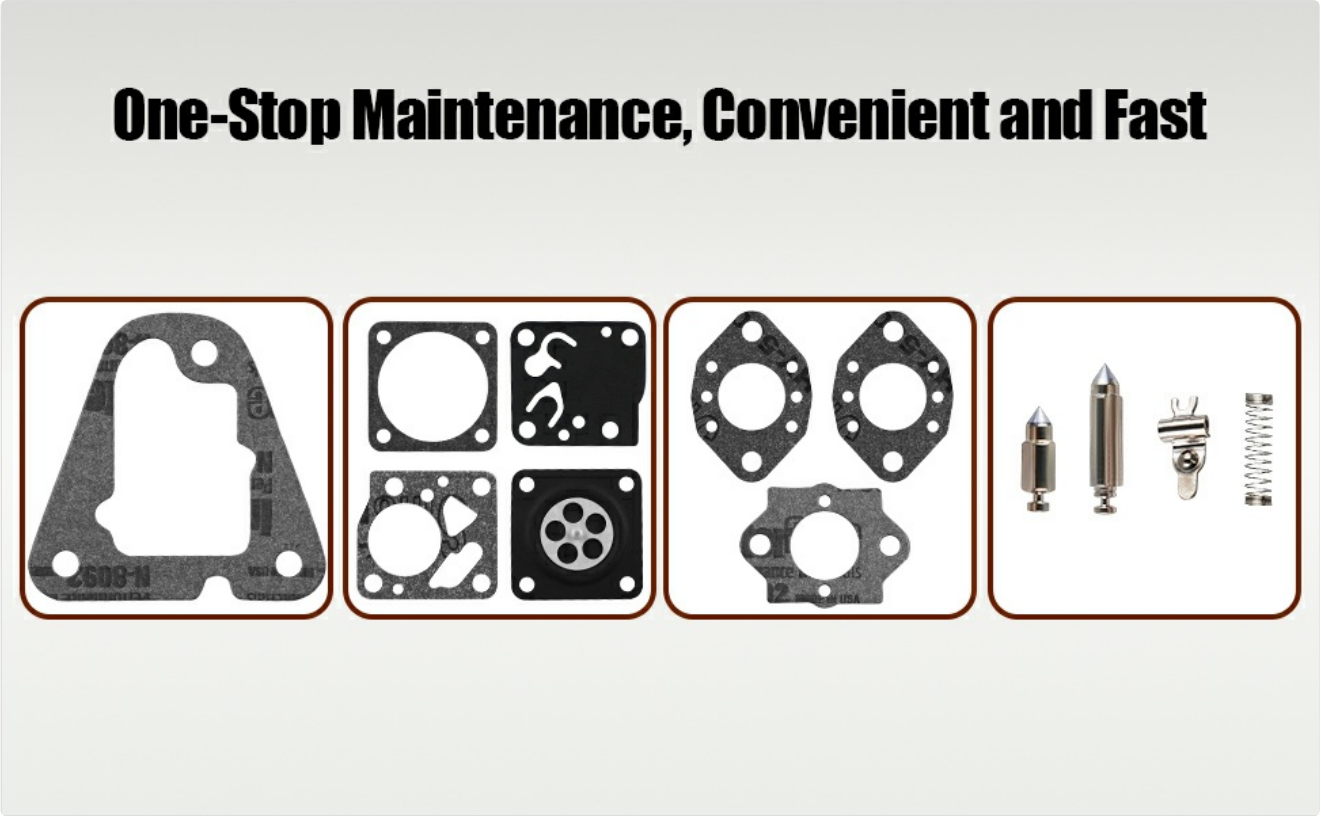


Figure 6.1: Visual comparison illustrating the difference between a properly sealed and functioning carburetor (left) and one exhibiting signs of leakage and wear (right), which the kit aims to resolve.



Figure 6.2: A chainsaw cutting wood, demonstrating the improved work efficiency and smoother operation achieved after a successful carburetor repair using the kit.

7. Specifications

Attribute	Value

Item Model Number	Carburetor Diaphragm Gasket Kit
Package Dimensions	3.5 x 2.3 x 0.9 inches
Item Weight	0.64 ounces
Manufacturer	Nationtecs

8. Warranty and Support

Specific warranty information for the NTSUMI Carburetor Repair Rebuild Kit is not provided in the product details. For any product-related inquiries or support, please refer to the seller or manufacturer's contact information provided at the point of purchase.

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