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**HOOAI 951-12705**

# HOOAI 951-12705 Carburetor Instruction Manual

For Snow Blower Engines

## Introduction

This manual provides essential information for the installation, operation, and maintenance of your HOOAI 951-12705 carburetor. This replacement carburetor is designed to restore optimal fuel delivery and engine performance in compatible snow blower models. Please read these instructions carefully before proceeding with installation or use.

## Safety Information

**WARNING:**

- Always disconnect the spark plug wire before performing any maintenance or installation to prevent accidental engine startup.
- Work in a well-ventilated area. Gasoline and its fumes are highly flammable and can be dangerous.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the engine is cool before handling fuel system components.
- Dispose of old fuel and parts according to local regulations.

## Compatibility

The HOOAI 951-12705 carburetor is compatible with various 2-stage snow blower models from MTD, Cub Cadet, and Troy-Bilt, as well as specific Huayi and Stens carburetor models. Verify your existing carburetor's part number or your snow blower's model number for accurate fitment.

### Compatible Carburetor Part Numbers:

- MTD: 951-10974, 951-10974A, 951-12705
- HUAYI: 165S, 165SA
- Stens: 520-862

### Compatible Snow Blower Models (Examples):

- Troy-Bilt Storm 2410, Storm 2620
- Craftsman models using 951-10974, 951-10974A carburetors
- Cub Cadet: 165-SUB, 265-SU, 365-SUB, 31AM62EE700, 31AS62EE731, 31AS2N1C701
- MTD: 31A-32AD700, 31A-32AD706, 31A-32AD729, 31A-32AD752, 31A-32AD762, 31A-62EE729, 31AH62EE000,

31AM2N1B301, 31AM2N1B304, 31AM2N1B307, 31AM2N1B371, 31AM2N1B372, 31AM2N1B382, 31AM2N1B401, 31AM2N1B513, 31AM2N1B700, 31AM2N1B704, 31AM2N1B706, 31AM2N1B709, 31AM2N1B713, 31AM2N1B720, 31AM2N1B729, 31AM2N1B730, 31AM2P5B704, 31AM62EE700, 31AM62EE706, 31AM62EE731, 31AM62EE752, 31AM62EE799, 31AM62KE704, 31BM62EE799, 31BM62KE704

- Troy Bilt: 31AM62N2711 (600 series), 31AM2N1B795 (2008)

## Package Contents

Your HOOAI 951-12705 carburetor package includes the following components:

- 1x Carburetor assembly
- 1x Primer Bulb
- 1x Fuel Line
- 1x Fuel Filter
- 3x Gaskets (for mounting and bowl)



*Image: The HOOAI 951-12705 carburetor assembly with included primer bulb, fuel line, fuel filter, and gaskets.*

## Installation Instructions

Replacing a carburetor requires careful attention to detail. If you are unsure about any step, consult a qualified technician or refer to your snow blower's specific service manual.

1. **Preparation:**
    - Ensure the snow blower engine is cool.
    - Disconnect the spark plug wire to prevent accidental starting.
    - Turn off the fuel supply valve (if equipped) and drain the fuel tank into an approved container.
    - Place a rag or container under the carburetor to catch any residual fuel.
2. **Remove Air Filter and Shrouds:**
   Carefully remove any plastic shrouds or air filter assemblies that obstruct access to the carburetor. Note the position of all hoses and linkages.
3. **Disconnect Fuel Line and Linkages:**
    - Disconnect the fuel line from the carburetor.
    - Carefully detach the throttle and choke linkages from the carburetor. Take photos if necessary to remember their orientation.
4. **Remove Old Carburetor:**
   Unbolt the old carburetor from the engine. Pay attention to the gaskets between the carburetor and the engine, and between the carburetor and the air filter housing.
5. **Install New Carburetor:**
    - Ensure all mating surfaces are clean.
    - Place new gaskets in their correct positions. The package includes 3 gaskets; ensure you use the correct ones for each interface.
    - Mount the new HOOAI carburetor onto the engine, ensuring it is seated correctly with the gaskets.
    - Secure the carburetor with the mounting bolts, tightening them evenly.




*Image: Front view of the carburetor showing key dimensions (e.g., 24mm intake, 40mm overall width). Verify these measurements match your original part.*




*Image: Side view of the carburetor showing key dimensions (e.g., 18mm bore, 9mm fuel inlet). Use these to confirm compatibility.*

6. **Reconnect Linkages and Fuel Line:**

- Reattach the throttle and choke linkages to their correct positions on the new carburetor. Ensure they move freely without binding.
- Connect the new fuel line (if replacing) or the old fuel line to the carburetor's fuel inlet. Secure with a clamp.
- Install the new primer bulb and fuel filter as needed.

7. **Reassemble and Test:**
    - Reinstall any removed shrouds or air filter components.
    - Refill the fuel tank with fresh, stabilized, ethanol-free gasoline (recommended).
    - Reconnect the spark plug wire.
    - Start the engine according to your snow blower's operating instructions. The engine should start smoothly and run without surging.

## Operation and Adjustment

The HOOAI 951-12705 carburetor is typically pre-tuned for optimal performance and should not require extensive adjustments. However, minor adjustments may be necessary depending on your specific engine and environmental conditions.

- **Initial Start-up:** After installation, prime the carburetor using the primer bulb as per your snow blower's instructions. The engine should start with minimal effort.
- **Choke Linkage:** In some cases, the choke linkage hole on the new carburetor may need slight enlargement to ensure smooth operation. This can be done carefully with a small drill bit if necessary, ensuring no metal shavings enter the carburetor.
- **Idle Speed:** If the engine idles too high or too low, locate the idle speed screw (usually a small screw with a spring) and adjust it incrementally until a stable idle speed is achieved.
- **Mixture Screws:** This carburetor typically does not have adjustable mixture screws. If your engine experiences persistent running issues, consult a professional.

## Maintenance

Proper maintenance extends the life of your carburetor and ensures reliable engine performance.

- **Fuel Quality:** Always use fresh, clean, ethanol-free gasoline. Ethanol can degrade rubber and plastic components in the fuel system over time, leading to carburetor issues.
- **Fuel Stabilizer:** When storing the snow blower for extended periods (e.g., over summer), add a high-quality fuel stabilizer to the fuel tank and run the engine for a few minutes to circulate it through the carburetor.
- **Drain Fuel:** For very long storage periods, it is recommended to drain the fuel tank and run the engine until it runs out of fuel, ensuring the carburetor is dry.
- **Fuel Filter:** Regularly inspect and replace the fuel filter (included in the package) to prevent contaminants from reaching the carburetor.
- **Air Filter:** Ensure the air filter is clean and free of debris to allow proper airflow to the carburetor.

## Troubleshooting

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

| Problem | Possible Cause | Solution |
|---|---|---|

| Problem | Possible Cause | Solution |
|---|---|---|
| Engine won't start | No fuel, clogged fuel filter, spark plug issue, incorrect choke/throttle setting. | Check fuel level, replace fuel filter, inspect spark plug, ensure choke/throttle are set correctly for starting. Verify fuel line connections. |
| Engine starts but dies | Insufficient fuel flow, vacuum leak, incorrect idle speed. | Check fuel line for kinks, ensure gaskets are sealed properly, adjust idle speed screw. |
| Engine surges or runs rough | Fuel quality issues, air leak, minor carburetor blockage. | Use fresh, ethanol-free fuel. Check for air leaks around gaskets. Ensure choke linkage moves freely. |
| Fuel leaks from carburetor | Improperly seated float bowl, damaged gasket, loose connections. | Inspect float bowl and gasket for proper seating. Tighten fuel line connections. |

If problems persist after following these steps, it is recommended to consult a professional small engine mechanic.

## Specifications

| Feature | Detail |
|---|---|
| Brand | HOOAI |
| Carburetor Model | 951-12705 |
| Flange Type | Bolt On |
| Recommended Use | Snowblower Engines |
| UPC | 769700714838 |
| Compatible Snow Blower Engine Models (Examples) | 31AM62N2711 (600 series), 31AM2N1B795 (2008) |

## Warranty and Support

For specific warranty information or technical support regarding your HOOAI 951-12705 carburetor, please refer to the product packaging or contact the manufacturer directly. Keep your purchase receipt for warranty claims.

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