

247.883960 / 31BH55TH799

# Craftsman Snow Thrower Carburetor Instruction Manual

Model: 247.883960 / 31BH55TH799 | Brand: Generic

## 1. INTRODUCTION

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This instruction manual provides essential information for the proper installation, operation, and maintenance of your new replacement carburetor. This carburetor is designed for compatibility with Craftsman Snow Thrower models 247.883960 and 31BH55TH799. Please read this manual thoroughly before attempting any installation or service to ensure safe and effective use.

Proper installation and maintenance are crucial for restoring strong engine performance and ensuring reliable cold-weather starts and consistent power in snowy conditions.

## 2. SAFETY INFORMATION

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

- **Disconnect Spark Plug:** Before performing any service, always disconnect the spark plug wire to prevent accidental engine starting.
- **Fuel Handling:** Gasoline is highly flammable. Work in a well-ventilated area, away from open flames, sparks, or other ignition sources. Store fuel in approved containers.
- **Eye Protection:** Wear appropriate eye protection to shield against fuel splashes or debris.
- **Gloves:** Wear fuel-resistant gloves to protect your hands.
- **Engine Cool Down:** Allow the engine to cool completely before working on the carburetor or fuel system. Hot engine components can cause burns.
- **Proper Disposal:** Dispose of old fuel and parts according to local environmental regulations.

## 3. PACKAGE CONTENTS

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The package includes the replacement carburetor and any necessary gaskets for installation. Please inspect all components upon receipt to ensure no damage occurred during shipping and that all parts are present.



*Figure 3.1: Front view of the carburetor, showing the fuel inlet, choke lever, and bowl. This image displays the primary components of the carburetor as received.*



*Figure 3.2: Side view of the carburetor, highlighting the throttle linkage and mounting points. This perspective shows additional details for installation reference.*

## 4. SETUP AND INSTALLATION

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This section outlines the general steps for replacing the carburetor. Specific procedures may vary slightly depending on your snow thrower model. Refer to your snow thrower's service manual for detailed instructions.

### 1. Preparation:

- Ensure the engine is cool.
- Disconnect the spark plug wire.
- Turn off the fuel supply valve (if equipped) and drain the fuel tank into an approved container.

## 2. Access the Carburetor:

- Remove any engine covers, air filter housing, or other components obstructing access to the carburetor.

## 3. Disconnect Components:

- Carefully disconnect the fuel line from the carburetor. Be prepared for residual fuel.
- Disconnect the throttle linkage and choke linkage from the old carburetor. Note their positions for reassembly.
- Remove any mounting bolts or nuts securing the carburetor to the engine.

## 4. Remove Old Carburetor:

- Gently pull the old carburetor away from the engine, ensuring all gaskets are removed.

## 5. Install New Carburetor:

- Install new gaskets (if provided) between the carburetor and the engine, and between the carburetor and the air filter housing.
- Mount the new carburetor onto the engine, ensuring it is seated correctly.
- Secure the carburetor with the mounting bolts/nuts, tightening them to the manufacturer's specifications (refer to your snow thrower manual).

## 6. Reconnect Components:

- Reconnect the throttle linkage and choke linkage to the new carburetor. Verify smooth operation.
- Reconnect the fuel line, ensuring a secure, leak-free connection.
- Reinstall any removed engine covers or air filter housing components.

## 7. Final Checks:

- Refill the fuel tank with fresh, appropriate fuel.
- Check for any fuel leaks.
- Reconnect the spark plug wire.

After installation, the engine may require minor adjustments to the idle speed or fuel mixture for optimal performance. Consult your snow thrower's manual for adjustment procedures.

## 5. OPERATING CONSIDERATIONS

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While the carburetor itself is a component, its proper function is critical for engine operation. After installation, ensure the following:

- **Choke Operation:** Verify that the choke lever moves freely and fully engages/disengages, as this is essential for cold starting.
- **Throttle Response:** Confirm that the throttle linkage provides smooth and responsive engine speed control.
- **Fuel Flow:** Ensure there are no obstructions in the fuel line and that fuel flows freely to the carburetor.
- **Engine Performance:** The new carburetor should restore strong engine performance, allowing for reliable starts and consistent power output. If performance issues persist, refer to the troubleshooting section.

## 6. MAINTENANCE

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Regular maintenance of your carburetor and fuel system will extend its lifespan and ensure optimal engine performance.

- **Fuel Quality:** Always use fresh, clean gasoline. Stale or contaminated fuel is a primary cause of carburetor issues. Consider using a fuel stabilizer, especially during storage.
- **Fuel Filter:** Regularly inspect and replace the fuel filter (if equipped) to prevent debris from reaching the carburetor.
- **Air Filter:** Keep the air filter clean. A clogged air filter can cause the engine to run rich and affect carburetor performance.
- **Seasonal Storage:** Before long-term storage (e.g., end of winter season), drain the fuel system or run the engine until it runs out of fuel to prevent gum and varnish buildup in the carburetor. Alternatively, use a high-quality fuel stabilizer.
- **Inspection:** Periodically inspect fuel lines for cracks or leaks and carburetor linkages for proper movement.

## 7. TROUBLESHOOTING

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If you experience issues after installing the new carburetor, consult the following troubleshooting guide. Always ensure safety precautions are followed before attempting any repairs.

Problem	Possible Cause	Solution
Engine will not start	No fuel, clogged fuel line/filter, incorrect choke setting, spark plug issue, incorrect installation.	Check fuel level, inspect fuel line/filter, ensure choke is set correctly for starting, check spark plug, re-verify installation steps.
Engine runs rough or stalls	Improper idle adjustment, air leak, fuel quality issues, partially clogged jet.	Adjust idle speed, check for air leaks around carburetor gaskets, use fresh fuel, consider professional cleaning if jets are suspected to be clogged.
Engine lacks power	Incorrect fuel mixture, air filter clogged, exhaust obstruction.	Ensure carburetor is properly adjusted, clean/replace air filter, check exhaust for blockages.
Fuel leaks	Loose fuel line connection, damaged gasket, cracked fuel line, float bowl issue.	Tighten connections, replace damaged gaskets/lines, inspect carburetor float and needle valve.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified service technician or refer to your snow thrower's official service manual.

## 8. SPECIFICATIONS

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- **Product Type:** Replacement Carburetor
- **Compatibility:** Craftsman Snow Thrower models 247.883960, 247883960, 31BH55TH799
- **Brand:** Generic
- **Exterior Finish:** Aluminum
- **Included Components:** 1 Carburetor (as pictured), associated gaskets (may vary)

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support regarding this replacement carburetor, please contact the seller or manufacturer directly through your purchase platform. Keep your purchase receipt as proof of purchase.