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› [Pro Chaser](#) /

› Pro Chaser 951-14093 SB230 Carburetor Instruction Manual for Craftsman and MTD Snow Throwers

Pro Chaser 951-14093 SB230

Pro Chaser 951-14093 SB230 Carburetor Instruction Manual

For Craftsman and MTD Snow Throwers

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your new Pro Chaser 951-14093 SB230 Carburetor. Please read this manual thoroughly before attempting any installation or operation to ensure safe and effective use. Proper installation and maintenance are crucial for optimal performance and longevity of your snow thrower.

1.1 Compatibility

This carburetor is compatible with various snow thrower models, including but not limited to:

- **Craftsman:** SB230, SB270, 247.887801, 247.887800, 247.116830
- **MTD Yard Machines:** 31AS2S1E795, 31A-2M1E752, 31A-2M1E706, 31A-2M1E700, 31AS2S1E700
- **Remington MTD:** RM2100, RM2140
- **Cub Cadet:** 31A-2M1E752 (21" 123cc Snow Blower)

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x Carburetor
- 3 x Gaskets
- 1 x Primer Hose
- 1 x Fuel Hose
- 2 x Fuel Filters
- 1 x Shut-off Valve
- 1 x Primer Bulb
- 2 x Primer Hose Clamps
- 2 x Fuel Hose Clamps



Figure 2.1: Complete Pro Chaser 951-14093 SB230 Carburetor kit, including all accessories for installation.

3. SAFETY INFORMATION

Always prioritize safety when working with fuel systems and power equipment. Failure to follow these instructions may result in serious injury or property damage.

- **Read Your Snow Thrower Manual:** Always consult your snow thrower's original instruction manual for specific safety warnings and procedures.
- **Fuel Handling:** Gasoline is highly flammable. Work in a well-ventilated area, away from open flames, sparks, or other ignition sources. Do not smoke.
- **Engine Cool Down:** Allow the engine to cool completely before performing any maintenance or installation.
- **Disconnect Spark Plug:** Before working on the engine, disconnect the spark plug wire to prevent accidental starting.
- **Eye Protection:** Always wear appropriate eye protection.
- **Gloves:** Wear protective gloves to prevent skin contact with fuel and other fluids.

- **Ventilation:** Ensure adequate ventilation when working with fuel or engine components.
- **Proper Disposal:** Dispose of old fuel and parts according to local regulations.

4. INSTALLATION

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

4.1 Preparation

1. Ensure the snow thrower is on a stable, level surface.
2. Allow the engine to cool completely.
3. Disconnect the spark plug wire to prevent accidental starting.
4. Turn off the fuel supply valve (if equipped) and drain the fuel tank into an approved container.
5. Remove any engine covers or air filter assemblies that obstruct access to the carburetor.

4.2 Carburetor Removal

1. Carefully disconnect all fuel lines, linkage rods, and electrical connections from the old carburetor. Note their positions for reassembly.
2. Remove the mounting bolts that secure the carburetor to the engine.
3. Gently pull the old carburetor away from the engine, ensuring all gaskets are removed.

4.3 New Carburetor Installation

1. Inspect the new Pro Chaser carburetor for any damage.
2. Place new gaskets (provided in the kit) in their correct positions between the carburetor and the engine.
3. Mount the new carburetor to the engine, aligning it with the mounting studs. Secure with the mounting bolts, tightening them evenly.
4. Reconnect all fuel lines, linkage rods, and electrical connections. Ensure fuel lines are securely clamped. Consider installing the new fuel filter and shut-off valve if your snow thrower did not have one or if the old ones are worn.
5. Replace any removed engine covers or air filter assemblies.

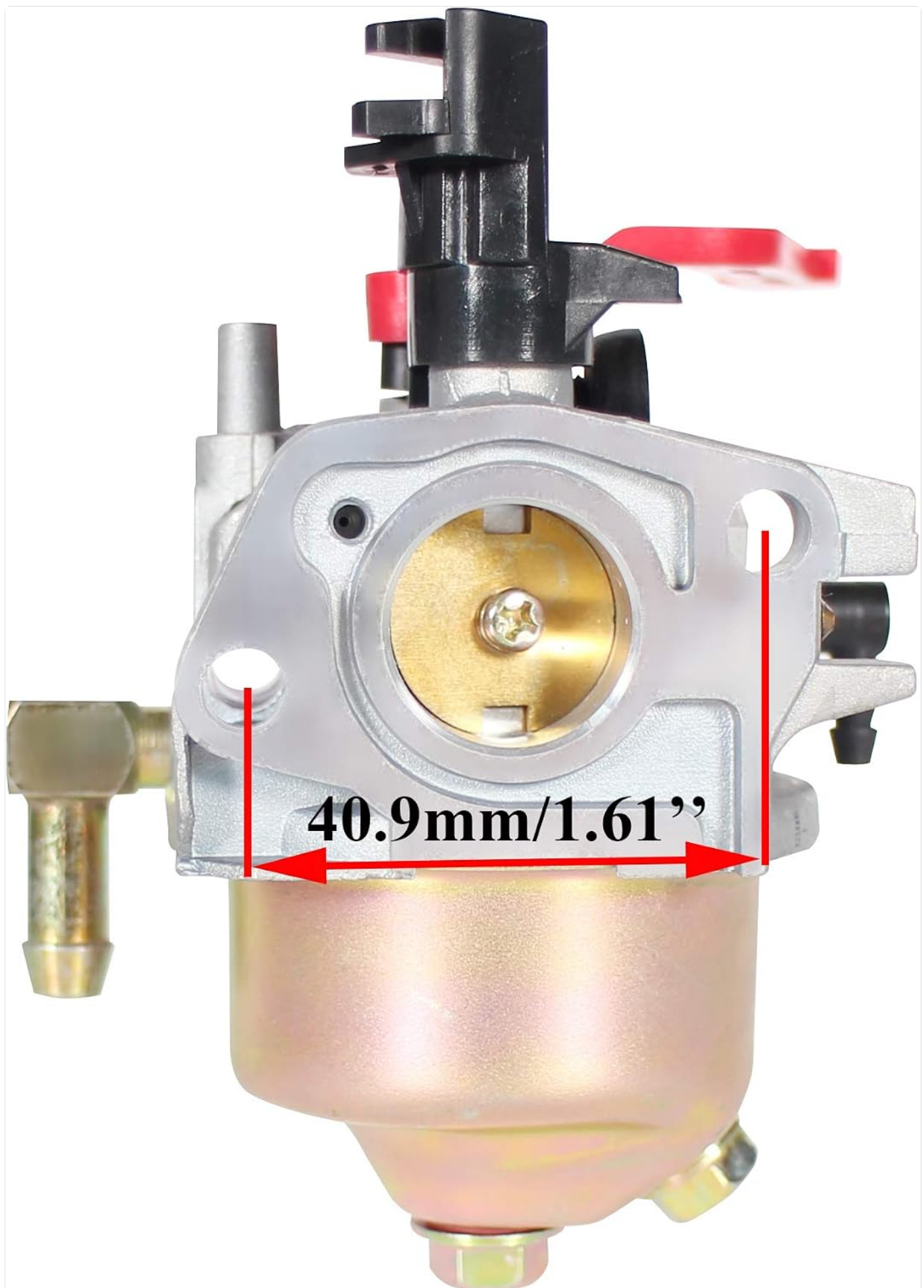


Figure 4.1: Carburetor dimensions for fitment verification.



Figure 4.2: Side view of the carburetor.

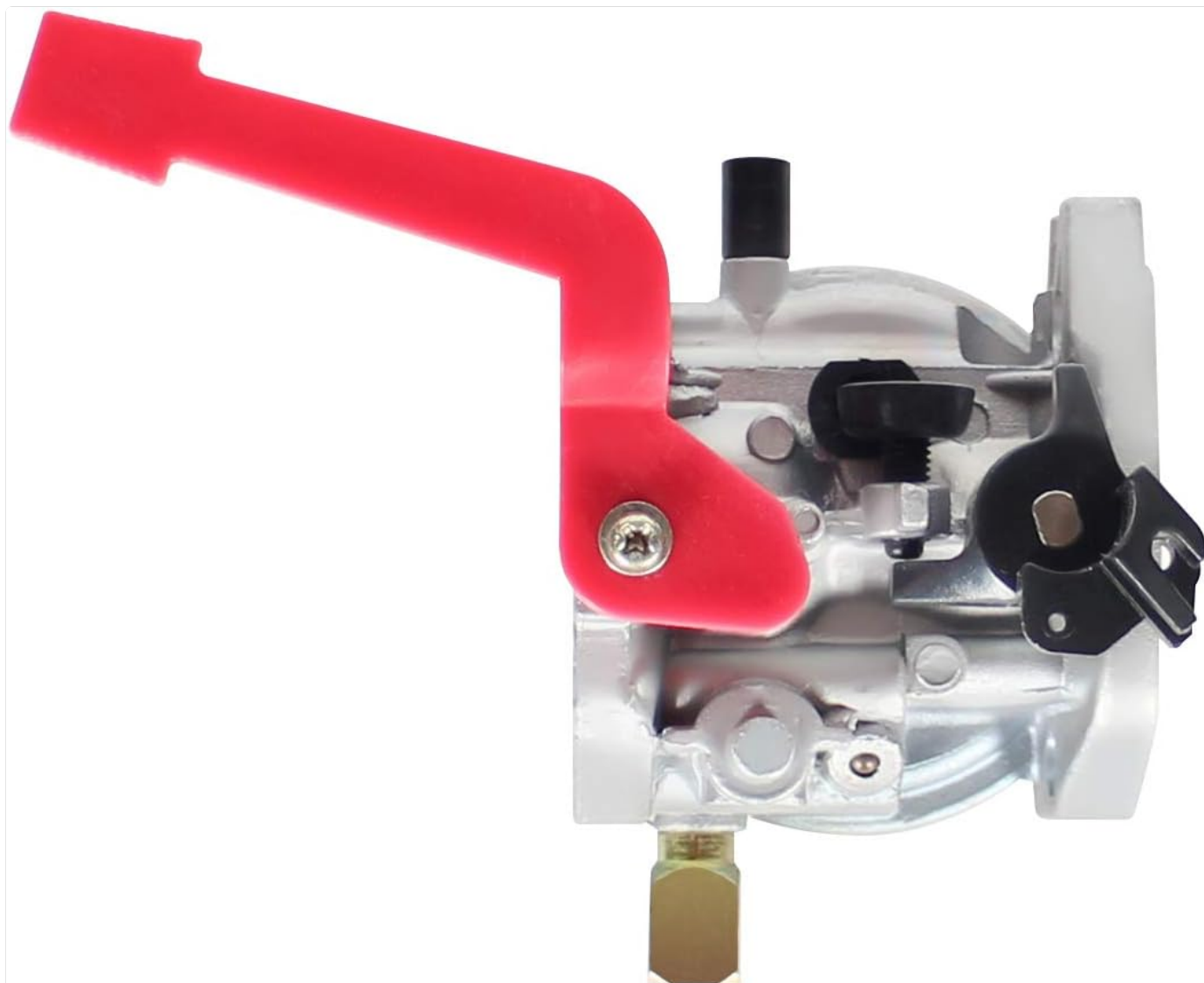


Figure 4.4: Top view of the carburetor.

4.4 Installation Videos

Product Introduction

An overview of the carburetor and its components, highlighting key features and compatibility.

Carburetor Parts Overview

Demonstration of carburetor parts, useful for understanding component identification and assembly.

Pro Chaser Carburetor Details

A detailed look at the Pro Chaser carburetor, showcasing its design and features relevant to installation.

Carburetor Replacement Guide

A video demonstrating the replacement process for a similar carburetor, providing visual guidance for installation.

5. OPERATING INSTRUCTIONS

After successful installation, follow these general steps to operate your snow thrower. Always refer to your snow thrower's original operating manual for specific starting and usage procedures.

1. **Refill Fuel Tank:** Fill the fuel tank with fresh, clean gasoline. If a fuel stabilizer was used, ensure it is mixed according to product instructions.
2. **Reconnect Spark Plug:** Reconnect the spark plug wire.
3. **Open Fuel Valve:** If equipped with a fuel shut-off valve, ensure it is in the 'ON' position.
4. **Prime Engine:** Press the primer bulb 3-5 times (or as recommended by your snow thrower's manual) to deliver fuel to the carburetor.
5. **Set Choke:** Move the choke lever to the 'FULL CHOKE' position.
6. **Start Engine:** Use the electric starter or pull the recoil starter rope firmly until the engine starts.
7. **Adjust Choke:** Once the engine starts, gradually move the choke lever to the 'RUN' position as the engine warms up.
8. **Warm-up:** Allow the engine to warm up for a few minutes before engaging the auger or beginning snow removal.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your carburetor and snow thrower.

6.1 Fuel System Care

- **Use Fresh Fuel:** Always use fresh, clean gasoline. Stale fuel can cause carburetor issues.
- **Fuel Stabilizer:** Use a high-quality fuel stabilizer, especially during off-season storage, to prevent fuel degradation and gumming in the carburetor.
- **Fuel Filter Replacement:** Regularly inspect and replace the fuel filter (if equipped) to ensure clean fuel delivery to the carburetor.
- **End-of-Season Storage:** Before long-term storage, either run the engine until it runs out of fuel or drain the fuel tank and carburetor bowl to prevent fuel-related issues. If your kit included a fuel shut-off valve, use it to run the carburetor dry.

6.2 Carburetor Cleaning

If your snow thrower experiences performance issues due to a clogged carburetor, professional cleaning or replacement may be necessary. For minor clogs, a carburetor cleaner spray can sometimes be effective. Always follow the cleaner product's instructions and wear appropriate safety gear.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For complex problems, it is recommended to consult a qualified service technician.

Problem	Possible Cause	Solution
Engine will not start	No fuel, stale fuel, clogged fuel filter, incorrect choke setting, faulty spark plug.	Check fuel level, replace with fresh fuel, replace fuel filter, adjust choke, check/replace spark plug.
Engine runs rough or stalls	Clogged carburetor jets, improper fuel mixture, air leak, dirty air filter.	Clean carburetor, check for air leaks, clean/replace air filter.
Engine lacks power	Clogged fuel filter, dirty air filter, carburetor issues.	Replace fuel filter, clean/replace air filter, inspect carburetor.

Problem	Possible Cause	Solution
Fuel leaks from carburetor	Damaged float, worn needle valve, loose bowl screw, damaged gasket.	Inspect and replace faulty components, tighten screws, replace gaskets.

8. SPECIFICATIONS

Feature	Detail
Brand	Pro Chaser
Model Number	951-14093 SB230
Item Weight	10.8 ounces
Package Dimensions	4.25 x 3.78 x 2.83 inches
Recommended Uses	Snowblower
Compatibility	Craftsman SB230, SB270, 247.887801, 247.887800, 247.116830; MTD Yard Machines 31AS2S1E795, 31A-2M1E752, 31A-2M1E706, 31A-2M1E700, 31AS2S1E700; Remington MTD RM2100, RM2140; Cub Cadet 31A-2M1E752

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