

[Manuals.plus](#) /

› [Pro Chaser](#) /

› Pro Chaser Carburetor Instruction Manual for Powersmart Snow Blowers (Model PC210101)

Pro Chaser PC210101

Pro Chaser Carburetor Instruction Manual

Brand: Pro Chaser | **Model:** PC210101

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your new Pro Chaser Carburetor. This carburetor (Model PC210101) is designed for use with various Powersmart snow blower models, including DB7659, DB7651, DB7659-22, DB7651-24, and DB7651-26. Proper installation and regular maintenance are crucial for ensuring the longevity and optimal performance of your snow blower.

Important: Before proceeding with any installation or maintenance, ensure your snow blower is turned off, cooled down, and the spark plug wire is disconnected to prevent accidental starting.

2. PACKAGE CONTENTS

Verify that all components listed below are included in your package:

- 1 x Carburetor (Model PC210101)
- 3 x Gaskets
- 1 x Shut-off Valve
- 1 x Spark Plug
- 1 x Fuel Filter
- 1 x Primer Bulb
- 1 x Insulator
- 2 x Fitted Clamps
- 1 x Fuel Hose



Figure 2.1: The complete Pro Chaser Carburetor kit, including the carburetor unit, three gaskets, a shut-off valve, a spark plug, a fuel filter, a primer bulb, an insulator, two fitted clamps, and a fuel hose.

3. PRODUCT OVERVIEW

The Pro Chaser Carburetor is a precision-engineered component designed to deliver optimal fuel-air mixture to your snow blower's engine. Familiarize yourself with its features and dimensions before installation.



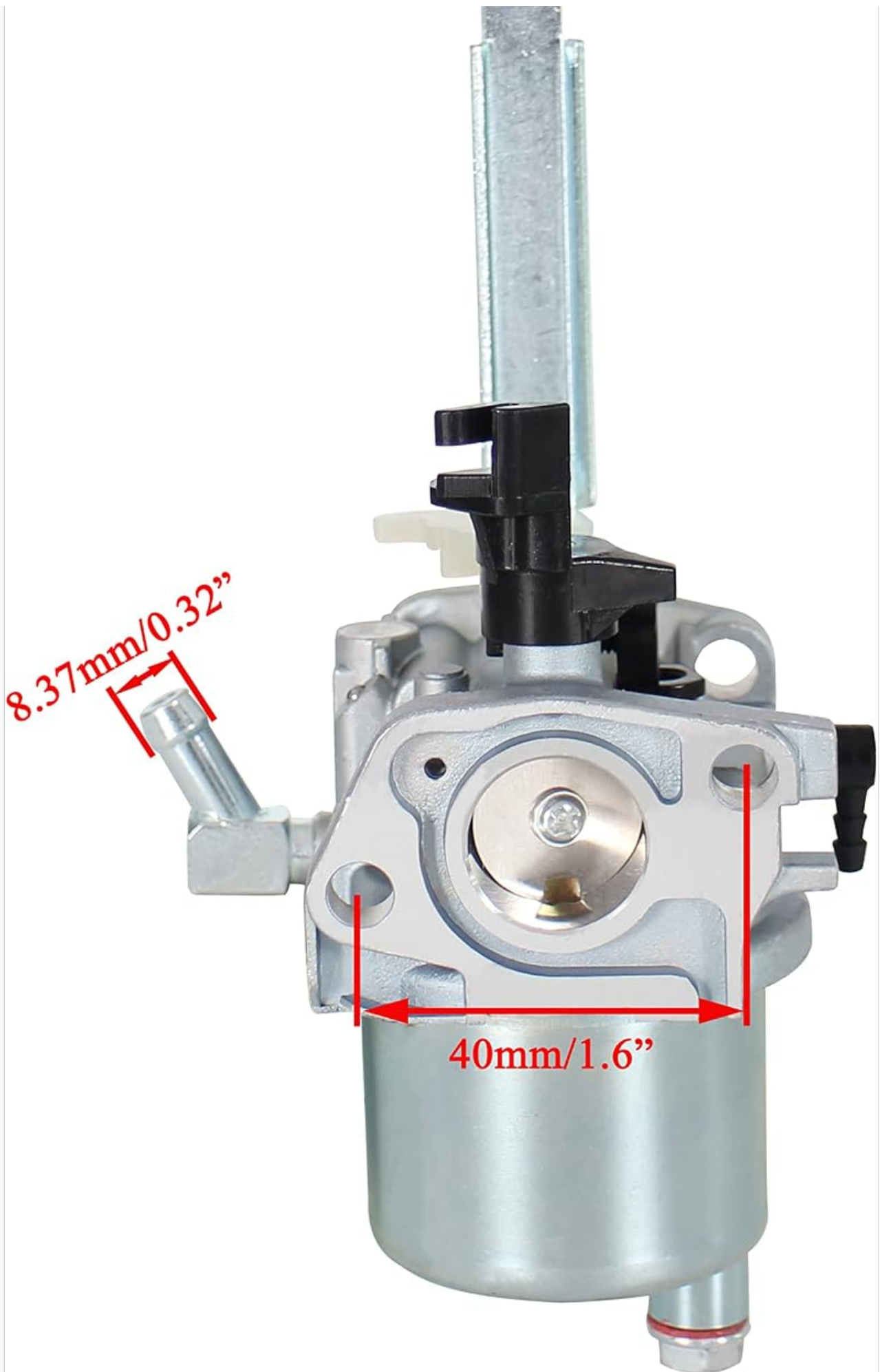


Figure 3.1: Front view of the carburetor, highlighting key dimensions for fitment verification. The intake port measures 40mm (1.6 inches) wide, and the fuel inlet barb is 8.37mm (0.32 inches) in diameter.

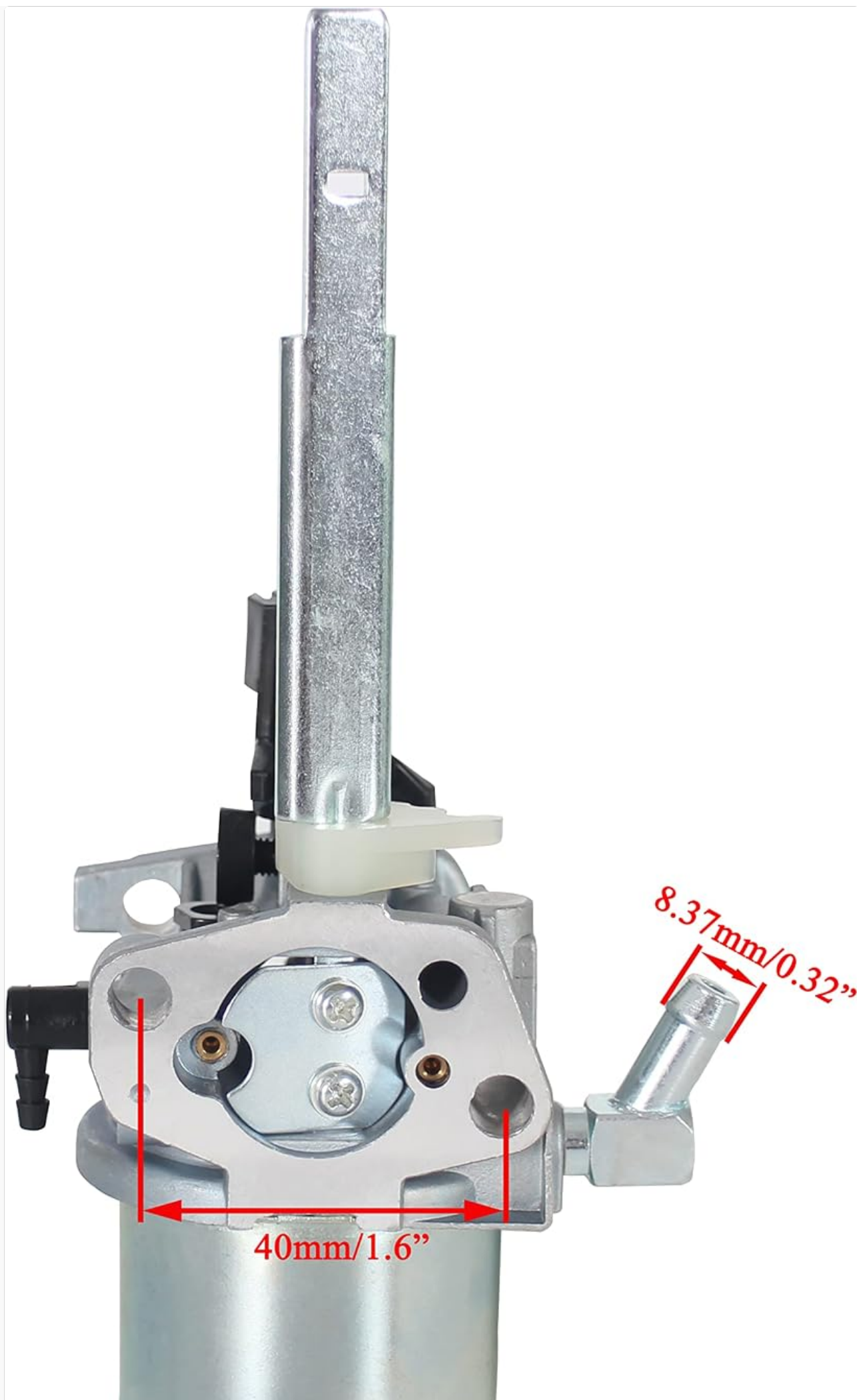




Figure 3.2: Rear view of the carburetor, showing the mounting points and the fuel inlet barbs with a diameter of 8.37mm (0.32 inches). The mounting bolt spacing is 40mm (1.6 inches).

We have two versions of carburetor available, 210101 has Metal vertical chock and 142534 has red plastic chock. Please check your current carburetor and order the right one.

210101	142534
	
Metal vertical chock	Red plastic chock

Figure 3.3: This image illustrates the difference between two carburetor versions: Model PC210101 features a metal vertical choke, while Model 142534 has a red plastic choke. Users should compare this image with their existing carburetor to ensure correct model selection.

Product Overview Video

Your browser does not support the video tag.

Video 3.1: This video presents the Pro Chaser PC210705 carburetor, rotating to show its design and connection points. It also lists the package contents, including the carburetor, gaskets, primer bulb, fuel filter, shut-off valve, and clamps.

4. SETUP AND INSTALLATION

Replacing a carburetor requires mechanical aptitude. If you are unsure about any step, consult a qualified technician. Always refer to your snow blower's original service manual for specific instructions related to your model.

General Installation Steps:

1. **Safety First:** Disconnect the spark plug wire and ensure the engine is cool. Turn off the fuel supply.
2. **Drain Fuel:** Drain any fuel from the fuel tank and carburetor bowl into an approved container.
3. **Remove Air Filter Assembly:** Carefully remove the air filter housing and any associated components to access the carburetor.
4. **Disconnect Linkages and Hoses:** Disconnect the throttle linkage, choke linkage, fuel line, and any other

hoses connected to the old carburetor. Note their positions for reassembly.

5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine. Remove and discard old gaskets.
6. **Install New Carburetor:** Install the new gaskets (included in the kit) and mount the new Pro Chaser carburetor. Ensure a tight seal.
7. **Reconnect Components:** Reconnect the throttle linkage, choke linkage, fuel line, and any other hoses. Replace the fuel filter and primer bulb if necessary using the new components provided.
8. **Install Spark Plug:** Replace the old spark plug with the new one from the kit.
9. **Reassemble Air Filter:** Reinstall the air filter assembly.
10. **Refill Fuel:** Refill the fuel tank with fresh, appropriate fuel.
11. **Test:** Reconnect the spark plug wire and test the snow blower's operation.

Installation Assistance Videos

Your browser does not support the video tag.

Video 4.1: This video demonstrates the components of the carburetor kit and highlights its features, emphasizing steady and reliable power. It shows the primer bulb, fuel shut-off valve, spark plug, fuel filter, fuel lines, and gaskets.

Your browser does not support the video tag.

Video 4.2: This video provides a detailed look at the carburetor unit, showcasing its various angles and components. It also displays the included accessories such as gaskets, fuel lines, and clamps, which are essential for installation.

5. OPERATING

The carburetor's primary function is to mix air and fuel in the correct ratio for combustion. Once installed, the carburetor operates automatically based on engine demand. For detailed operating instructions of your Powersmart snow blower, including starting procedures, speed control, and chute adjustments, please refer to your snow blower's original owner's manual.

Ensure the fuel shut-off valve is in the 'ON' position before starting the engine. Use the primer bulb as directed by your snow blower's manual to prime the carburetor before cold starts.

6. MAINTENANCE

Regular maintenance of your carburetor and associated components will ensure reliable performance and extend the life of your snow blower.

- **Fuel System:** Always use fresh, clean fuel. Stale fuel can cause deposits that clog the carburetor. Consider using a fuel stabilizer if storing the snow blower for extended periods.
- **Fuel Filter:** Inspect and replace the fuel filter annually, or more frequently if operating in dusty conditions. A clogged fuel filter can restrict fuel flow to the carburetor.
- **Spark Plug:** Replace the spark plug annually or as recommended by your engine manufacturer. A worn or fouled spark plug can lead to poor starting and engine performance.
- **Gaskets:** Periodically check for fuel leaks around the carburetor and fuel lines. Replace any worn or damaged gaskets immediately to prevent air leaks and ensure proper fuel-air mixture.
- **Primer Bulb:** Inspect the primer bulb for cracks or hardening. A damaged primer bulb can prevent proper fuel priming.

7. TROUBLESHOOTING

If your snow blower experiences issues after carburetor installation, consider the following common problems and solutions:

• **Engine Not Starting:**

- Check fuel level and ensure fresh fuel is used.
- Verify the fuel shut-off valve is open.
- Ensure the spark plug is clean and properly gapped.
- Check if the primer bulb is functioning correctly and priming the carburetor.
- Confirm choke is set correctly for starting.

• **Rough Idle or Stalling:**

- Inspect for air leaks around carburetor gaskets.
- Check fuel filter for clogs.
- Ensure fuel lines are not kinked or obstructed.

• **Loss of Power During Operation:**

- Verify fuel filter is clean and allowing adequate fuel flow.
- Check spark plug condition.
- Ensure the air filter is clean and not restricted.

For persistent issues, it is recommended to consult a professional small engine mechanic.

8. SPECIFICATIONS

Feature	Specification
Brand	Pro Chaser
Model	PC210101
Item Weight	13.7 ounces
Package Dimensions	6.93 x 3.5 x 3.03 inches
Flange Type	Bolt On
Recommended Uses	Snowblower
UPC	752811584636

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact Pro Chaser customer service through their official channels. Keep your purchase receipt as proof of purchase for any warranty claims.