

Pro Chaser PC167402

Pro Chaser Carburetor Instruction Manual

For LCT PW2HK188501, PW2HK18850, 920870219, PW2HK10650 Snow Blower Engines
Model: PC167402 | Brand: Pro Chaser

INTRODUCTION

This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your new Pro Chaser carburetor. This carburetor is designed for specific LCT snow blower engine models, including PW2HK188501, PW2HK18850, 920870219, and PW2HK10650. Please read these instructions carefully before proceeding with any installation or maintenance to ensure safe and effective use.

Included Components:

- 1 x Carburetor
- 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



Image: All components included in the Pro Chaser carburetor kit, laid out on a surface. This includes the carburetor, gaskets, shut-off valve, spark plug, fuel filter, primer bulb, insulator, fitted clamps, and fuel hose.

SETUP AND INSTALLATION

Before beginning installation, ensure the engine is cool and disconnected from any power source. Always wear appropriate safety gear, including gloves and eye protection. It is crucial to verify that this carburetor matches your existing unit to ensure proper fit and function. Refer to the images below for visual confirmation and key dimensions.

Compatibility Check:

Carefully compare the design and dimensions of your current carburetor with the provided images. Minor differences can affect compatibility. If unsure, consult a qualified technician or the manufacturer.





Image: Side view of the Pro Chaser carburetor, showing key dimensions including a fuel line connection at 8.3mm/0.32" and a bowl height of 40.5mm/1.59".





Image: Front view of the Pro Chaser carburetor, showing the air intake and mounting points.





Image: Side view of the Pro Chaser carburetor, showing the throttle linkage and fuel inlet.

Installation Steps:

1. **Drain Fuel:** Completely drain the fuel tank and fuel lines.
2. **Remove Old Carburetor:** Disconnect the fuel line, throttle linkage, and choke linkage from the old carburetor. Remove mounting bolts and carefully detach the old carburetor.
3. **Clean Mounting Surface:** Ensure the engine's mounting surface is clean and free of old gasket material.
4. **Install New Gaskets:** Place the new gaskets in the correct orientation between the engine, insulator, and new carburetor.
5. **Mount New Carburetor:** Position the new carburetor and secure it with the mounting bolts. Do not overtighten.
6. **Connect Linkages and Fuel Line:** Reattach the throttle and choke linkages. Connect the new fuel hose with the provided clamps and install the shut-off valve and fuel filter in the fuel line.
7. **Install Spark Plug and Primer Bulb:** Replace the spark plug and install the new primer bulb.
8. **Refill Fuel:** Add fresh, clean fuel to the tank.

OPERATING INSTRUCTIONS

After installation, ensure all connections are secure and there are no fuel leaks. The carburetor's primary function is to mix air and fuel in the correct ratio for combustion. Proper operation relies on a clean fuel system and correctly adjusted linkages.

Starting the Engine:

1. **Open Fuel Valve:** Ensure the fuel shut-off valve is in the 'open' position.
2. **Prime Engine:** Press the primer bulb several times until fuel is visible in the bulb or fuel lines.
3. **Set Choke:** Move the choke lever to the 'full choke' position for cold starts.
4. **Start Engine:** Pull the recoil starter or engage the electric starter.
5. **Adjust Choke:** As the engine warms up, gradually move the choke lever to the 'run' position.

MAINTENANCE

Regular maintenance extends the life of your carburetor and ensures optimal engine performance. Always perform maintenance with the engine off and cool.

Recommended Maintenance:

- **Fuel Filter Replacement:** Replace the fuel filter annually or more frequently if using fuel with impurities.
- **Spark Plug Inspection/Replacement:** Inspect the spark plug for wear and proper gap. Replace as needed, typically annually.
- **Fuel System Cleaning:** Periodically inspect fuel lines for cracks or leaks. Use a fuel stabilizer if storing the snow blower for extended periods to prevent fuel degradation and carburetor clogging.
- **Carburetor Cleaning:** If performance issues arise, the carburetor may need cleaning. This often involves disassembling the carburetor, cleaning jets and passages with carburetor cleaner, and replacing gaskets. This task is recommended for experienced users or professional service.

TROUBLESHOOTING

This section addresses common issues you might encounter with your carburetor. For complex problems, professional assistance is recommended.

Problem	Possible Cause	Solution
Engine will not start	No fuel, clogged fuel filter, faulty spark plug, incorrect choke setting	Check fuel level, replace fuel filter, inspect/replace spark plug, adjust choke.
Engine runs rough or stalls	Dirty carburetor jets, old fuel, air leak in fuel line, incorrect idle adjustment	Clean carburetor, use fresh fuel, check fuel lines for leaks, adjust idle screw.
Fuel leaks from carburetor	Damaged float, worn needle valve, loose bowl screws, cracked fuel line	Inspect and replace float/needle valve, tighten bowl screws, replace fuel line.
Lack of power	Clogged air filter (not included), restricted fuel flow, incorrect fuel mixture	Check/replace air filter, ensure fuel filter is clean, clean carburetor jets.

SPECIFICATIONS

Feature	Detail
Brand	Pro Chaser
Model Number	PC167402
Manufacturer Part Number	PC210131
Exterior Finish	Machined
UPC	679070671269
Compatibility	LCT PW2HK188501, PW2HK18850, 920870219, PW2HK10650 Snow Blower Engines

WARRANTY AND SUPPORT

For any questions regarding installation, operation, or troubleshooting that are not covered in this manual, please contact Pro Chaser customer support. Keep your purchase receipt for warranty claims. Specific warranty terms and conditions may apply and are available upon request from the manufacturer or seller.

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