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› Pro Chaser Carburetor Instruction Manual for MTD Craftsman Snow Blowers (Models 247.881731, 247.881721, 247.881723, 247.886914, 247.881722, 247.8817, 247.881701, 247.88173, 247.88199, 247.88394, 247.88433, 247.88691, 247.886911)

Pro Chaser PC210705

Pro Chaser Carburetor Instruction Manual

Model: PC210705

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Pro Chaser PC210705 carburetor kit. This kit is designed as a replacement part for various MTD Craftsman snow blower models, including 247.881731, 247.881721, 247.881723, 247.886914, 247.881722, 247.8817, 247.881701, 247.88173, 247.88199, 247.88394, 247.88433, 247.88691, and 247.886911. It is also compatible with specific Tecumseh HMSK100, Ariens 926002, and Toro 38635 series snow blowers. Please read these instructions carefully before proceeding with installation or use.

PACKAGE CONTENTS

The Pro Chaser PC210705 carburetor kit typically includes the following components:

- 1 x Carburetor
- 2 x Fuel Hoses
- 1 x Fuel Filter
- 1 x Shut Off Valve
- 1 x Primer Bulb
- Mounting Gaskets (various types)
- Fuel Line Clamps



Image: Overview of the Pro Chaser carburetor kit, showing the main carburetor unit, fuel hoses, fuel filter, shut-off valve, primer bulb, and various gaskets and clamps.

SETUP AND INSTALLATION

Replacing a carburetor requires mechanical aptitude. If you are unsure about any step, it is recommended to consult a qualified technician or refer to your snow blower's specific service manual. Always prioritize safety during installation.

Safety Precautions:

- Ensure the snow blower engine is off and cool before beginning any work.
- Disconnect the spark plug wire to prevent accidental starting.
- Work in a well-ventilated area.
- Have a fire extinguisher nearby when working with fuel.
- Wear appropriate personal protective equipment, such as gloves and eye protection.

General Installation Steps:

1. **Drain Fuel:** Carefully drain all fuel from the snow blower's fuel tank into an approved container.
2. **Remove Air Filter Assembly:** Disconnect and remove the air filter housing and any associated components to gain access to the carburetor.
3. **Disconnect Fuel Lines:** Detach the existing fuel lines from the old carburetor and fuel tank. Be prepared for residual fuel leakage.
4. **Disconnect Linkages:** Carefully disconnect the throttle and choke linkages from the old carburetor. Note their positions for reassembly.
5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine manifold. Remove and discard old gaskets.
6. **Install New Carburetor:** Place new gaskets on the engine manifold and then mount the new Pro Chaser carburetor. Ensure proper alignment and tighten bolts securely.
7. **Reconnect Linkages:** Reattach the throttle and choke linkages to the new carburetor. Verify smooth operation.
8. **Install New Fuel Components:** Replace the old fuel filter, fuel hoses, and shut-off valve with the new components provided in the kit. Secure all connections with clamps.
9. **Reconnect Primer Bulb:** If applicable, connect the primer bulb to the carburetor.
10. **Reassemble:** Reinstall the air filter assembly and any other components removed earlier.
11. **Refill Fuel:** Add fresh, appropriate fuel to the tank.
12. **Prime System:** Use the primer bulb to draw fuel into the carburetor until it feels firm.
13. **Test:** Reconnect the spark plug wire and attempt to start the engine. Check for any fuel leaks.

For visual guidance, many online resources and videos demonstrate carburetor replacement procedures for similar snow blower engines. Always refer to your specific snow blower's manual for model-specific instructions.

OPERATING INSTRUCTIONS

The carburetor is a critical component for delivering the correct fuel-air mixture to the engine. Once properly installed, the operation of the carburetor is integrated with the snow blower's engine starting and running procedures.

- **Starting:** Follow your snow blower's manufacturer instructions for starting, which typically involve setting the choke, priming the engine (using the new primer bulb), and engaging the starter.
- **Running:** The carburetor automatically adjusts the fuel-air mixture during operation. Ensure the engine runs smoothly without sputtering or excessive smoke.
- **Shut-off:** Use the snow blower's designated shut-off procedure. The included fuel shut-off valve can be used to stop fuel flow to the carburetor for storage or maintenance, helping to prevent fuel-related issues.

Refer to your snow blower's original operating manual for detailed instructions on starting, running, and stopping your specific model.

MAINTENANCE

Regular maintenance of your carburetor and associated fuel system components will ensure optimal performance and longevity of your snow blower.

- **Fuel Filter:** Inspect the fuel filter periodically for debris or discoloration. Replace it annually or if it appears clogged. A clean fuel filter is crucial for preventing contaminants from reaching the carburetor.
- **Fuel Lines:** Check fuel hoses for cracks, hardening, or leaks. Replace any damaged hoses immediately to prevent fuel leaks and ensure proper fuel delivery.
- **Primer Bulb:** Inspect the primer bulb for cracks or loss of elasticity. A faulty primer bulb can hinder starting.
- **Gaskets:** Ensure all carburetor gaskets are intact and sealing properly. Leaking gaskets can lead to air leaks, affecting engine performance, or fuel leaks.

- **Fuel Quality:** Always use fresh, clean gasoline. Stale or contaminated fuel is a common cause of carburetor issues. Consider using a fuel stabilizer, especially during off-season storage.
- **Storage:** Before long-term storage, it is recommended to drain the fuel system or run the engine until it runs out of fuel to prevent gumming and varnish buildup in the carburetor.

TROUBLESHOOTING

If your snow blower experiences issues after carburetor installation, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
Engine will not start	No fuel reaching carburetor; improper choke setting; faulty primer bulb; spark plug issue.	Check fuel level and ensure shut-off valve is open. Verify primer bulb function. Ensure choke is set correctly. Inspect spark plug.
Engine runs rough or stalls	Air leak at gaskets; fuel filter clogged; old or contaminated fuel; carburetor adjustments needed.	Inspect gaskets for proper seal. Replace fuel filter. Use fresh fuel. Consult a technician for carburetor adjustments if necessary.
Fuel leak from carburetor	Loose bowl nuts; damaged float or needle valve; improper gasket installation.	Ensure carburetor bowl nuts are tightened securely. Recheck gasket installation. If leaks persist, inspect float and needle valve for damage or improper seating.
Engine lacks power	Clogged fuel filter; restricted air intake; carburetor not delivering optimal fuel-air mixture.	Replace fuel filter. Clean air filter. Ensure carburetor is free of debris.

If these steps do not resolve the issue, professional assistance may be required.

SPECIFICATIONS

Key technical details for the Pro Chaser PC210705 Carburetor:

- **Brand:** Pro Chaser
- **Model:** PC210705
- **Item Weight:** Approximately 10.2 ounces
- **Package Dimensions:** Approximately 4.33 x 3.5 x 2.8 inches
- **Fuel Type:** Gasoline
- **Recommended Uses:** Snowblower
- **UPC:** 709345780157
- **Compatibility:** MTD Craftsman 247.8817 series (e.g., 247.881731, 247.881721, 247.881723, 247.886914, 247.881722, 247.8817, 247.881701, 247.88173, 247.88199, 247.88394, 247.88433, 247.88691, 247.886911), Tecumseh HMSK100-159295W, HMSK100-159297W, HMSK100-159302W, Ariens 926002, 926101, ST11528LE, 926LE, Toro 38635, 38640, 38641, 38642, 38645 snow blowers.



Image: Front view of the carburetor, illustrating key dimensions such as the 19mm (0.74") intake opening and 40.97mm (1.61") mounting width.



Image: Side view of the carburetor, showing additional dimensions including a 5mm (0.2") and 9mm (0.35") port height.

WARRANTY INFORMATION

Specific warranty details for the Pro Chaser PC210705 carburetor kit are not provided in the product information. For warranty inquiries, please refer to the seller or manufacturer directly at the point of purchase.

SUPPORT

For technical assistance, installation questions, or troubleshooting beyond the scope of this manual, please contact the seller or manufacturer through the platform where the product was purchased. Ensure you have your product model number (PC210705) and purchase details available when seeking support.

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