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› Pro Chaser Carburetor PC210868 Instruction Manual for Craftsman Lawn Mowers

Pro Chaser PC210868

Pro Chaser Carburetor PC210868 Instruction Manual

For Craftsman Lawn Mowers with 7.0 Intek 6.25hp 190cc Engines

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Pro Chaser PC210868 Carburetor. This carburetor is designed as a replacement part for various Craftsman lawn mower models, including 917.378941, 917.388861, 917.376551, 917.388853, 917.378641, 917.376655, 917.388940, 917.378851, and 917.378921, typically found on 21-inch and 22-inch lawn mowers equipped with 7.0 Intek 6.25hp 190cc engines. Please read this manual thoroughly before attempting any installation or maintenance procedures.

2. SAFETY INFORMATION

Always prioritize safety when working with engine components and fuel. Failure to follow safety instructions can result in serious injury or property damage.

- **Disconnect Spark Plug:** Before performing any work on the engine, disconnect the spark plug wire to prevent accidental starting.
- **Fuel Handling:** Gasoline is highly flammable. Work in a well-ventilated area, away from open flames or sparks. Store fuel in approved containers.
- **Eye Protection:** Always wear safety glasses or goggles to protect your eyes from debris.
- **Engine Heat:** Allow the engine to cool completely before working on it to avoid burns.
- **Ventilation:** Ensure adequate ventilation when working with fuel or cleaning agents.
- **Proper Tools:** Use the correct tools for each task to prevent damage to components or injury.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package. If any items are missing or damaged, contact customer support.

- 1 x Carburetor (Pro Chaser PC210868)
- 1 x Fuel Hose

- 2 x Clamps
- 2 x Gaskets (for mounting the carburetor)



Figure 3.1: Contents of the Pro Chaser PC210868 Carburetor package, including the carburetor unit, gaskets, and fuel hose.

4. PRE-INSTALLATION CHECK

Before beginning installation, compare the new carburetor with your existing unit and the provided images to ensure compatibility. Pay close attention to mounting hole patterns, fuel line connections, and choke/throttle linkage points.



Figure 4.1: Carburetor dimensions. The intake bore measures 19mm (0.75 inches) and the mounting bolt spacing is 45.6mm (1.8 inches).

5. INSTALLATION GUIDE

This section outlines the general steps for replacing a carburetor. Specific procedures may vary slightly depending on your lawn mower model. Refer to your lawn mower's service manual for detailed instructions if necessary.

1. **Prepare the Lawn Mower:** Ensure the engine is cool. Disconnect the spark plug wire. Turn off the fuel supply valve (if equipped) or clamp the fuel line. Place a suitable container under the carburetor to catch any spilled fuel.
2. **Remove Air Filter Assembly:** Detach the air filter housing and filter element to gain access to the carburetor.
3. **Disconnect Linkages and Hoses:** Carefully disconnect the throttle and choke linkages from the carburetor. Note their positions for reassembly. Disconnect the fuel line from the carburetor.
4. **Remove Old Carburetor:** Unbolt the carburetor from the engine. There are typically two nuts holding it in place. Remove the old carburetor and any old gaskets.

5. **Clean Mounting Surfaces:** Thoroughly clean the engine's intake manifold and air filter housing mounting surfaces to ensure a good seal with the new gaskets.
6. **Install New Gaskets:** Place the new gaskets in their correct positions. Ensure they are oriented correctly to match the intake ports.
7. **Mount New Carburetor:** Position the new Pro Chaser PC210868 Carburetor onto the mounting studs, ensuring the gaskets are properly seated. Secure it with the nuts, tightening them evenly to prevent warping.
8. **Reconnect Linkages and Hoses:** Reattach the throttle and choke linkages to their correct points on the new carburetor. Connect the new fuel hose (if replacing) and secure it with the provided clamps.
9. **Reinstall Air Filter Assembly:** Reattach the air filter housing and install a clean air filter element.
10. **Final Checks:** Double-check all connections, ensuring they are secure. Reconnect the spark plug wire.



Figure 5.1: Side view of the carburetor, highlighting the fuel inlet (brass fitting) and mounting holes for reference during installation.

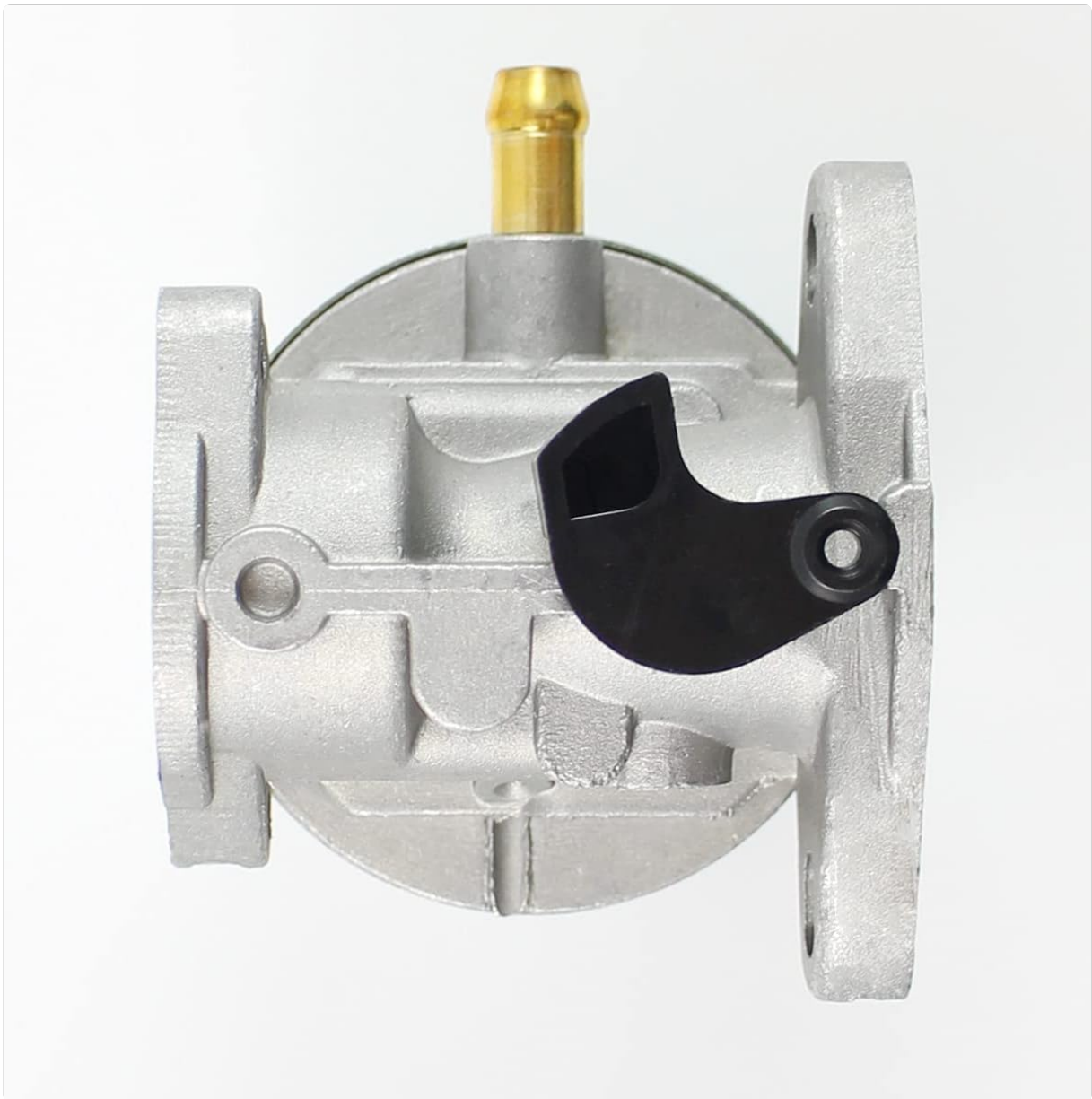


Figure 5.2: Top view of the carburetor, illustrating the choke lever and various linkage attachment points for throttle and choke cables.

6. OPERATING INSTRUCTIONS (AFTER INSTALLATION)

After installing the new carburetor, follow these steps to start your engine:

1. **Refill Fuel Tank:** Ensure the fuel tank contains fresh, clean gasoline.
2. **Open Fuel Valve:** If your mower has a fuel shut-off valve, open it.
3. **Prime the Carburetor:** Press the primer bulb (if equipped on your mower) several times until fuel is visible in the bulb or the engine shows signs of being primed.
4. **Set Choke:** Move the choke lever to the 'FULL CHOKE' position for cold starts. For warm starts, the choke may not be necessary.
5. **Start Engine:** Pull the starter rope firmly or engage the electric starter.
6. **Adjust Choke:** As the engine warms up, gradually move the choke lever to the 'OFF' or 'RUN' position.

7. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your carburetor.

- **Fuel Quality:** Always use fresh, clean gasoline. Stale or contaminated fuel is a common cause of carburetor issues. Consider using a fuel stabilizer if the mower will be stored for extended periods.
- **Fuel Filter:** Inspect and replace the fuel filter regularly according to your mower's maintenance schedule. A clogged fuel filter can restrict fuel flow to the carburetor.
- **Air Filter:** Keep the air filter clean. A dirty air filter can cause the engine to run rich and affect carburetor performance.
- **Carburetor Cleaning:** If the carburetor becomes clogged due to fuel deposits, it may require cleaning. This typically involves disassembling the carburetor, cleaning jets and passages with carburetor cleaner, and replacing gaskets. This procedure should only be performed by individuals with mechanical experience.

8. TROUBLESHOOTING

If you encounter issues after installing the new carburetor, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine won't start	No fuel, clogged fuel line/filter, incorrect choke setting, spark plug issue, air leak at carburetor gasket.	Check fuel level, inspect fuel line/filter, adjust choke, check spark plug, ensure carburetor gaskets are sealed.
Engine runs rough/stalls	Dirty air filter, stale fuel, carburetor adjustments needed, fuel restriction.	Clean/replace air filter, use fresh fuel, inspect fuel filter, consider professional carburetor adjustment.
Fuel leaks	Loose fuel line connection, damaged fuel hose, faulty carburetor bowl gasket, float issue.	Tighten fuel line clamps, replace damaged fuel hose, inspect/replace carburetor bowl gasket, check float operation.

9. SPECIFICATIONS

Feature	Detail
Brand	Pro Chaser
Model Number	PC210868
Recommended Use	Lawn Mower
Engine Compatibility	7.0 Intek 6.25hp 190cc Engines
Included Components	Carburetor, Clamps, Fuel Hose, Gaskets
Exterior Finish	Machined
UPC	752811585206

10. WARRANTY INFORMATION

This Pro Chaser Carburetor (Model PC210868) comes with a**90-day manufacturer warranty**. This

warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage resulting from improper installation, misuse, neglect, or unauthorized modifications.

11. CUSTOMER SUPPORT

If you have questions regarding the installation, operation, or troubleshooting of your Pro Chaser Carburetor, or if you require assistance with a warranty claim, please contact the seller or manufacturer directly. When contacting support, please have your product model number (PC210868) and purchase information readily available.