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Pro Chaser PC210869

Pro Chaser Carburetor Instruction Manual

For Coleman Powermate PM0401853, PM0401852, 1850, and 1500 Watt Generators

INTRODUCTION

This manual provides essential instructions for the installation, operation, maintenance, and troubleshooting of your Pro Chaser Carburetor. This carburetor is designed as a replacement part for specific Coleman Powermate generator models. Please read this manual thoroughly before attempting any installation or maintenance to ensure proper function and safety.

PRODUCT OVERVIEW AND COMPATIBILITY

The Pro Chaser Carburetor (Model PC210869) is a replacement component for the following generator models:

- Coleman Powermate PM0401853 Generator
- Coleman Powermate PM0401852 Generator
- Coleman Powermate 1850 Watt Generator
- Coleman Powermate 1500 Watt Generator

Important: A minor difference in carburetor design may result in a different model. Carefully compare the provided images and specifications with your existing carburetor to confirm compatibility before installation. If unsure, consult a qualified technician or the manufacturer.

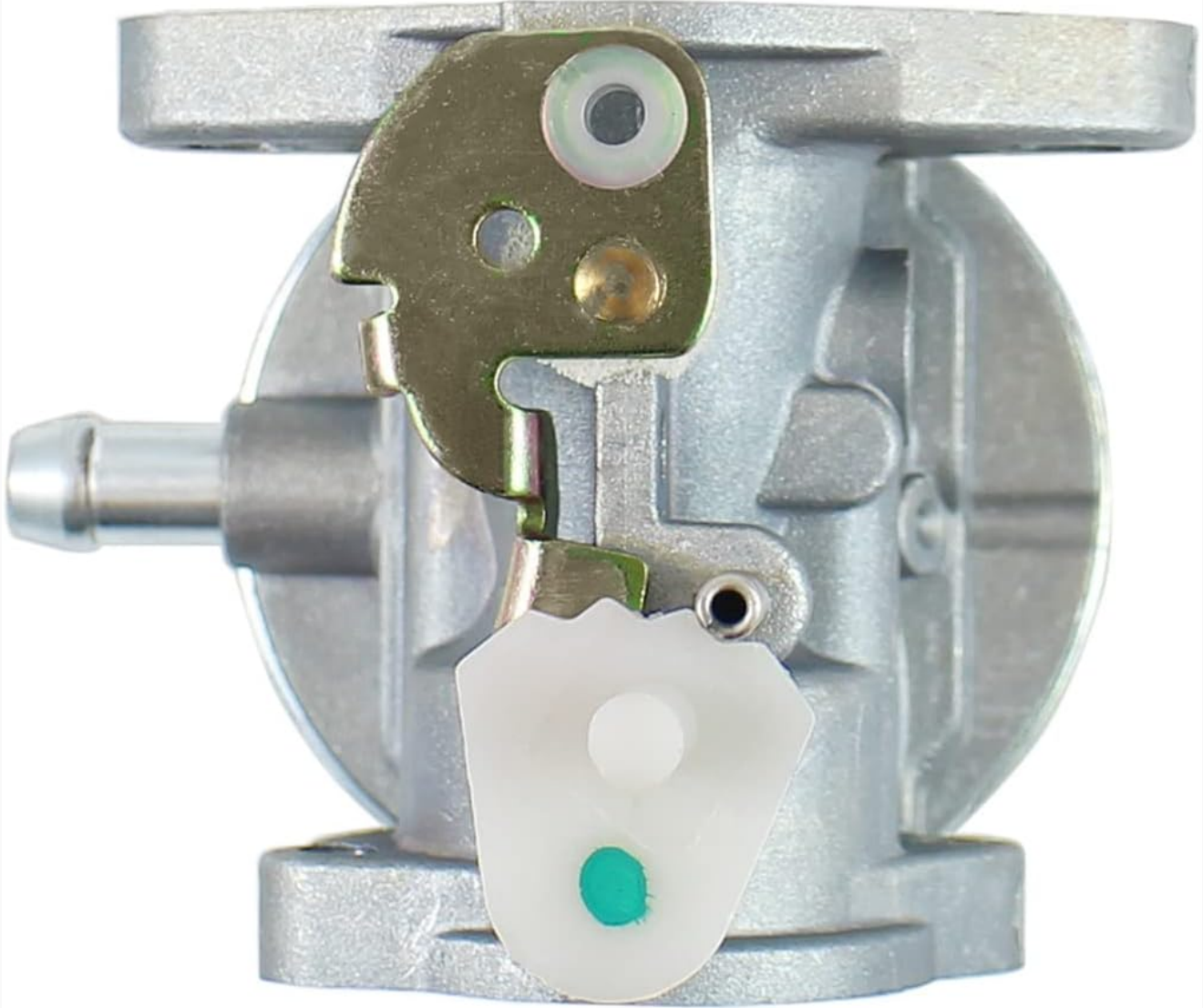
What's in the Box:

- 1 x Carburetor
- 1 x Fuel Hose
- Clamps
- Gaskets

Carburetor Dimensions:



Front view of the carburetor, illustrating the 19mm (0.75 inch) intake diameter and 45.6mm (1.8 inch) mounting bolt spacing. This image helps verify the physical dimensions for proper fitment.



Side view of the carburetor, indicating a 34.6mm (1.36 inch) dimension across the air intake side. This provides another critical measurement for compatibility checks.



General view of the Pro Chaser Carburetor from a top-front angle, showing the throttle linkage and fuel inlet.



Angled view of the Pro Chaser Carburetor, highlighting the fuel bowl, mounting points, and choke mechanism.

SETUP AND INSTALLATION

Replacing a carburetor requires careful attention to detail. If you are not comfortable performing this procedure, it is recommended to seek assistance from a qualified service technician. Always refer to your specific generator's service manual for detailed, model-specific instructions.

Safety Precautions:

- Ensure the generator is turned off and cooled down.

- Disconnect the spark plug wire to prevent accidental starting.
- Turn off the fuel supply valve.
- Work in a well-ventilated area.
- Have a fire extinguisher nearby.

General Installation Steps:

1. **Drain Fuel:** Drain any fuel from the generator's fuel tank and carburetor bowl into an approved container.
2. **Remove Air Filter Assembly:** Carefully remove the air filter housing and any associated ducting to access the carburetor.
3. **Disconnect Linkages and Hoses:** Disconnect the fuel line, choke linkage, and throttle linkage from the old carburetor. Note their positions for reassembly.
4. **Remove Old Carburetor:** Unbolt the old carburetor from the engine intake manifold. Be careful not to damage the mounting surfaces.
5. **Clean Mounting Surfaces:** Thoroughly clean the engine intake manifold and air filter housing mounting surfaces to ensure a proper seal with the new gaskets.
6. **Install New Gaskets:** Place the new gaskets provided with the Pro Chaser Carburetor onto the mounting surfaces. Ensure they are correctly oriented.
7. **Mount New Carburetor:** Carefully position the new Pro Chaser Carburetor onto the engine intake manifold and secure it with the original bolts. Do not overtighten.
8. **Reconnect Linkages and Hoses:** Reattach the fuel line, choke linkage, and throttle linkage to the new carburetor in their correct positions. Ensure all connections are secure. Use the new fuel hose and clamps if replacing.
9. **Reinstall Air Filter Assembly:** Reattach the air filter housing and any other components removed earlier.
10. **Refill Fuel and Test:** Refill the generator's fuel tank with fresh, appropriate fuel. Turn on the fuel supply valve. Allow a few minutes for the carburetor bowl to fill. Reconnect the spark plug wire. Start the generator and check for proper operation and any fuel leaks.

OPERATION

The carburetor's primary function is to mix air and fuel in the correct ratio for combustion in the engine. Once properly installed, the Pro Chaser Carburetor will facilitate the fuel delivery system of your generator.

- **Fuel Type:** Always use the fuel type recommended by your generator's manufacturer. Using incorrect fuel can damage the carburetor and engine.
- **Choke Operation:** The choke mechanism on the carburetor assists in starting a cold engine by enriching the fuel-air mixture. Refer to your generator's manual for specific starting procedures.
- **Throttle Control:** The throttle linkage controls the engine speed by regulating the amount of air-fuel mixture entering the engine.

For detailed instructions on starting and operating your generator, consult the original generator owner's manual.

MAINTENANCE

Regular maintenance of your carburetor ensures optimal performance and extends its lifespan. Perform these checks periodically or as needed.

- **Fuel System Inspection:** Regularly inspect the fuel lines, fuel filter (if present), and fuel tank for any signs of leaks, cracks, or contamination. Replace damaged components immediately.
- **Carburetor Cleaning:** Over time, fuel deposits can build up inside the carburetor, affecting performance. If the

generator runs poorly, the carburetor may need 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.

- **Gasket Check:** Ensure all gaskets (between carburetor and engine, and air filter housing) are in good condition and providing a proper seal. Replace any worn or damaged gaskets.
- **Fuel Quality:** Always use fresh, clean fuel. Stale fuel or fuel containing ethanol can cause deposits and corrosion in the carburetor. Consider using a fuel stabilizer if the generator is stored for extended periods.

TROUBLESHOOTING

If your generator experiences issues after carburetor installation, consider the following common problems and solutions related to the carburetor:

Problem	Possible Cause	Solution
Engine will not start	No fuel reaching carburetor; clogged fuel filter; clogged carburetor jet; incorrect choke position.	Check fuel level and fuel valve. Inspect and clean/replace fuel filter. Clean carburetor jets. Adjust choke.
Engine runs rough or stalls	Dirty carburetor; incorrect fuel-air mixture; vacuum leak (bad gasket).	Clean carburetor. Check for proper gasket sealing. Ensure correct throttle/choke linkage adjustment.
Fuel leaks from carburetor	Damaged float bowl gasket; stuck float needle; loose fuel line connection.	Inspect and replace float bowl gasket. Clean or replace float needle. Tighten fuel line connections.
Loss of power	Partially clogged carburetor jets; restricted air filter.	Clean carburetor jets. Check and clean/replace air filter (not included with carburetor).

If these troubleshooting steps do not resolve the issue, it is recommended to consult a professional small engine mechanic.

SPECIFICATIONS

- **Brand:** Pro Chaser
- **Model Number:** PC210869
- **Manufacturer Part Number:** PC210869
- **UPC:** 752811585411
- **Exterior:** Machined
- **Compatibility:** Coleman Powermate PM0401853, PM0401852, 1850 Watt, 1500 Watt Generators
- **Intake Diameter:** Approximately 19mm (0.75 inches)
- **Mounting Bolt Spacing:** Approximately 45.6mm (1.8 inches)

WARRANTY AND SUPPORT

For information regarding the warranty of your Pro Chaser Carburetor, please refer to the product packaging or contact Pro Chaser directly through their official support channels. Keep your purchase receipt as proof of purchase. For technical assistance or further inquiries, please contact Pro Chaser customer support.



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