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› [Pro Chaser Carburetor Kit for MTD Yard Machine 5hp/5.5hp 22-inch Snow Blowers \(Models: 31AS6BEE700, 31AS644E129, 31B-611D352, 31A-6ACE700, 31A3CAD752, 31A3CAD729, 31A611D000, 31A-3BAD752, 31AS611D129, 316-611D118, 31AS6BCE752\)](#)

Pro Chaser 31AS6BEE700

Pro Chaser Carburetor Kit Instruction Manual

For MTD Yard Machine 5hp/5.5hp 22-inch Snow Blowers

Models: 31AS6BEE700, 31AS644E129, 31B-611D352, 31A-6ACE700, 31A3CAD752, 31A3CAD729, 31A611D000, 31A-3BAD752, 31AS611D129, 316-611D118, 31AS6BCE752

1. PRODUCT OVERVIEW

This Pro Chaser Carburetor Kit is designed as a direct replacement for the carburetor in various MTD Yard Machine 5hp and 5.5hp 22-inch snow blower models. It provides the necessary components to restore proper fuel delivery and engine performance.

Package Contents:

- 1x Carburetor
- 1x Gasket
- 2x Fuel Hoses
- 4x Clamps
- 1x Fuel Filter
- 1x Primer Bulb
- 1x Shut-off Valve



Image 1: Complete Pro Chaser Carburetor Kit showing the carburetor, gaskets, fuel hoses, clamps, fuel filter, primer bulb, and shut-off valve.

2. SAFETY INFORMATION

Always prioritize safety when working with fuel systems and power equipment. Failure to follow these instructions may result in serious injury or property damage.

- Ensure the engine is **OFF** and **COOL** before beginning any work.
- Disconnect the spark plug wire to prevent accidental starting.
- Work in a well-ventilated area.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Handle gasoline with extreme care. It is highly flammable.
- Have a fire extinguisher readily available.
- Dispose of old fuel and parts according to local regulations.

3. INSTALLATION GUIDE

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

Tools Required:

- Socket wrench set
- Screwdriver set
- Pliers
- Fuel line clamp or vice grips
- Container for draining fuel

Step-by-Step Installation:

1. **Prepare the Snow Blower:** Ensure the engine is off and cool. Disconnect the spark plug wire. Place the snow blower on a stable, level surface.
2. **Drain Fuel:** Locate the fuel shut-off valve (if present) and turn it off. Place a suitable container under the fuel tank and carburetor. Disconnect the fuel line from the carburetor and drain all fuel from the tank and lines.
3. **Remove Air Filter Assembly:** Carefully remove the air filter housing and any associated covers to gain access to the carburetor.
4. **Disconnect Linkages and Lines:** Disconnect the throttle linkage, choke linkage, and any remaining fuel lines or vacuum lines attached to the old carburetor. Note their positions for reassembly.
5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine. Be careful not to lose any spacers or gaskets.
6. **Install New Gaskets:** Clean the mounting surfaces on the engine and air filter assembly. Install the new gaskets provided in the kit. Ensure they are correctly oriented.
7. **Mount New Carburetor:** Position the new Pro Chaser carburetor onto the engine, aligning it with the mounting bolts. Secure it with the original bolts, tightening them evenly.
8. **Connect Linkages and Lines:** Reconnect the throttle and choke linkages to the new carburetor. Ensure they move freely without binding. Install the new fuel lines, fuel filter, primer bulb, and shut-off valve as needed, securing them with the provided clamps.
9. **Reinstall Air Filter Assembly:** Reattach the air filter housing and any covers.
10. **Refill Fuel and Test:** Refill the fuel tank with fresh, clean gasoline. Turn the fuel shut-off valve to the ON position. Reconnect the spark plug wire. Prime the carburetor using the new primer bulb until fuel is visible. Start the engine and check for proper operation and any fuel leaks.



Image 2: Side view of the carburetor with key dimensions for reference during installation.



Image 3: Front view of the carburetor, showing the intake port.

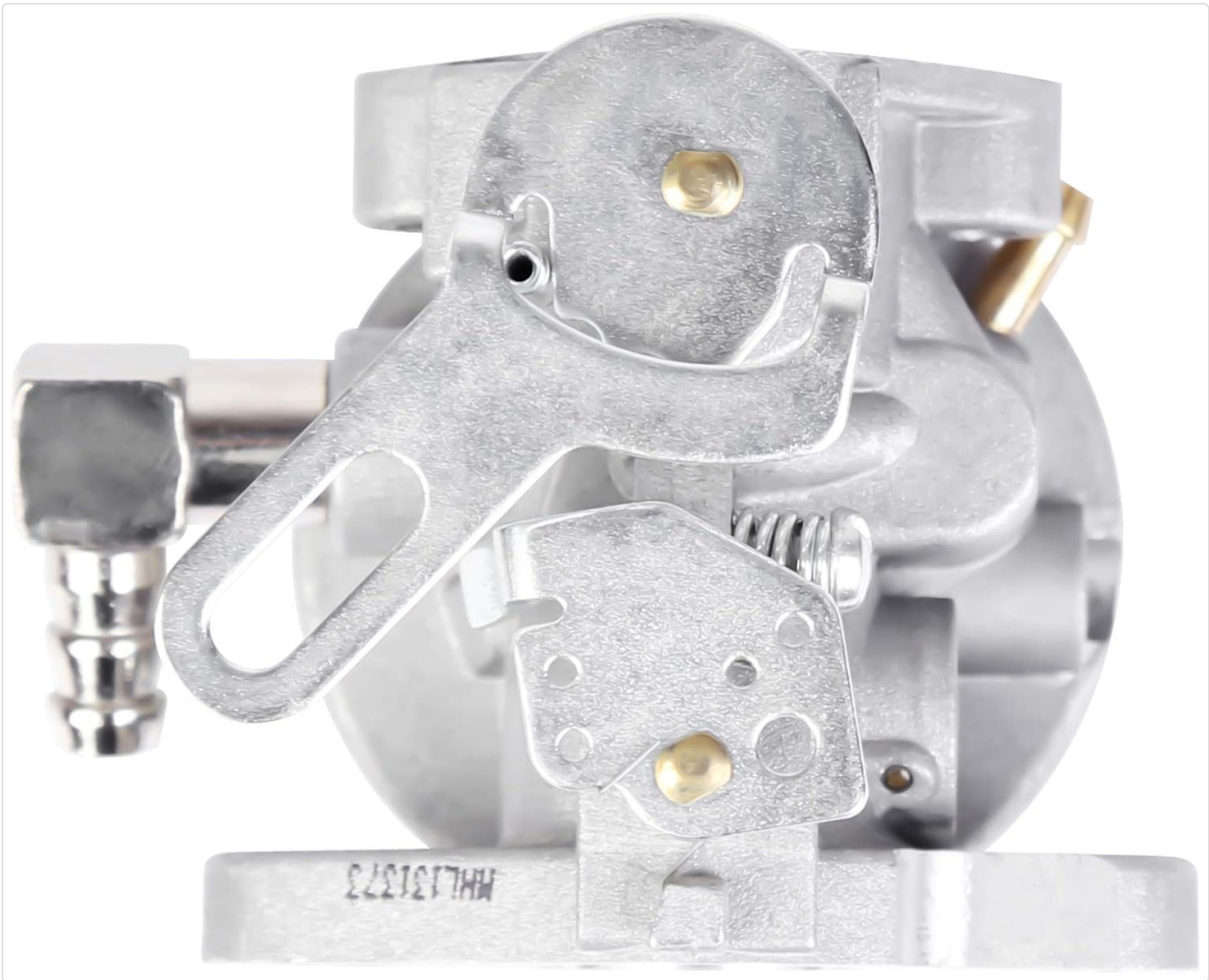


Image 4: Top view of the carburetor, highlighting the throttle and choke linkages.

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Video 1: A detailed 360-degree view of the Pro Chaser PC210705 Carburetor, showcasing its various angles and components, including key dimensions for installation reference.

4. OPERATING PRINCIPLES

The carburetor is responsible for mixing air and fuel in the correct ratio for combustion in the engine. When the engine is started, the primer bulb helps to draw fuel into the carburetor, ensuring a rich mixture for cold starts. The throttle and choke linkages control the airflow and fuel delivery to maintain optimal engine speed and performance.

5. MAINTENANCE

Regular maintenance of your snow blower's fuel system, including the carburetor, is crucial for reliable operation and longevity.

- **Fuel Quality:** Always use fresh, clean, unleaded gasoline. Ethanol in fuel can cause issues with carburetor components over time. Consider using a fuel stabilizer, especially during storage.
- **Fuel Filter:** Replace the fuel filter annually or more frequently if operating in dusty conditions or if fuel contamination is suspected. The kit includes a new fuel filter.
- **Carburetor Cleaning:** If the snow blower experiences rough idling, stalling, or difficulty starting, the carburetor may need cleaning. This typically involves disassembling the carburetor and cleaning jets and passages with carburetor cleaner. This task may require professional assistance if you are not familiar

with carburetor maintenance.

- **Storage:** Before long-term storage (e.g., off-season), drain all fuel from the fuel tank and carburetor, or run the engine until it runs out of fuel. This prevents fuel degradation and gumming in the carburetor.

6. TROUBLESHOOTING

This section addresses common issues related to carburetor performance. If these steps do not resolve the problem, consult a qualified service technician.

Problem	Possible Cause	Solution
Engine will not start	No fuel, clogged fuel filter, clogged carburetor jet, faulty primer bulb	Check fuel level, replace fuel filter, clean carburetor, check primer bulb for proper function.
Engine runs rough or stalls	Dirty carburetor, incorrect fuel mixture, air leak	Clean carburetor, ensure all connections are tight, check for proper gasket sealing.
Fuel leaks	Loose fuel lines, damaged gaskets, float bowl issue	Tighten fuel line clamps, replace damaged gaskets, inspect carburetor float and needle valve.
Engine lacks power	Partially clogged carburetor, incorrect engine adjustments	Clean carburetor, ensure throttle and choke linkages are operating correctly.

7. SPECIFICATIONS

Feature	Specification
Brand	Pro Chaser
Flange Type	Bolt On
Fuel Type	Gasoline
Recommended Uses	Snowblower
Item Weight	9.9 ounces
Package Dimensions	4.37 x 3.58 x 3.03 inches
UPC	669591334576

8. WARRANTY AND SUPPORT

This Pro Chaser product is supplied by a small business brand. For any questions regarding installation, operation, or troubleshooting, please contact the seller directly through your purchase platform. Please retain your proof of purchase for any warranty claims.

