Pro Chaser Carburetor

Pro Chaser Carburetor Instruction Manual

For MTD Yard Machines Snow Blowers (Models: 31AM62EE700, 31A-32AD700, 31AS2N1C701, 31AS62EE700, 31AM63FE752, 31A62EE729, 31AS63EF700, 31AS63EF729, 31AM63LF701, 31A32AD762)

Introduction

This manual provides essential instructions for the installation, operation, maintenance, and troubleshooting of your new Pro Chaser Carburetor. This replacement carburetor is designed for various MTD Yard Machines snow blower models, including those with 179cc and 208cc engines, and 22" or 24" clearing widths. Please read this manual thoroughly before attempting any installation or maintenance to ensure proper function and safety.

The package includes one carburetor, one fuel line, one fuel filter, one primer bulb, and three gaskets, providing a comprehensive kit for replacement.



Figure 1: Complete Pro Chaser Carburetor replacement kit, including the carburetor unit, fuel line, fuel filter, primer bulb, and gaskets.

Safety Information

Always prioritize safety when working with fuel systems and internal combustion engines. Failure to follow safety precautions can result in serious injury or property damage.

- 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 to avoid inhaling fuel fumes.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Have a fire extinguisher readily available.
- Handle gasoline with extreme care; it is highly flammable.

Installation

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

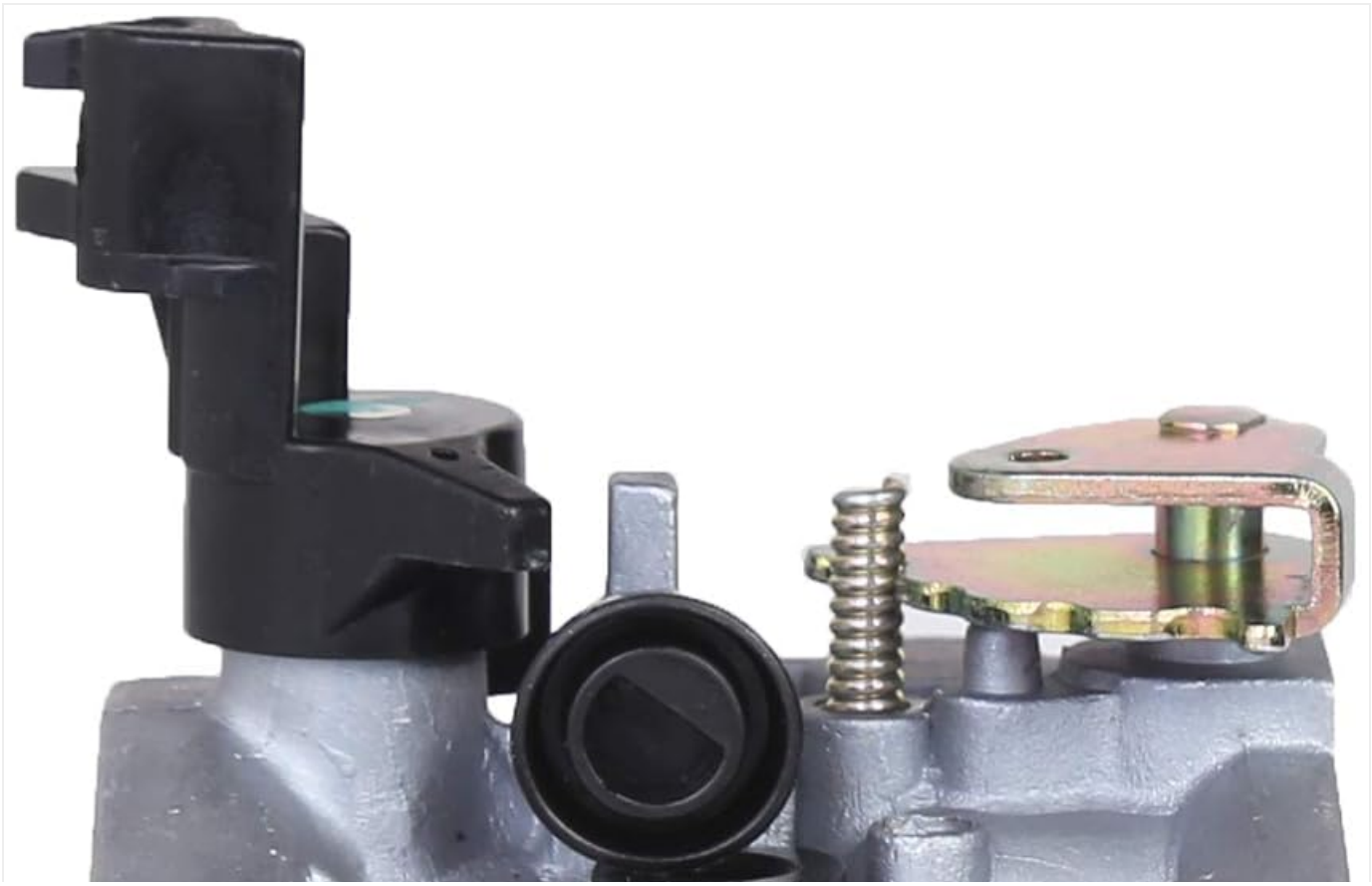
Required Tools:

- Socket wrench set
- Screwdriver set

- Pliers
- Fuel-resistant container for draining old fuel
- Shop rags

Procedure:

1. **Prepare the Snow Blower:** Ensure the engine is off and cool. Disconnect the spark plug wire. Turn off the fuel valve, if equipped.
2. **Drain Fuel:** 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 line.
3. **Remove Air Filter Assembly:** Carefully remove the air filter housing and air filter 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 from the old carburetor. Note their positions for reassembly.
5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine manifold. Be careful not to damage the mounting studs. Remove and discard the old gaskets.
6. **Install New Gaskets:** Place the new gaskets provided with the Pro Chaser kit in their correct positions between the engine, insulator (if present), and the new carburetor.
7. **Mount New Carburetor:** Carefully position the new Pro Chaser Carburetor and secure it with the mounting bolts. Do not overtighten.
8. **Reconnect Linkages and Lines:** Reattach the throttle linkage, choke linkage, and all fuel/vacuum lines to the new carburetor. Ensure all connections are secure and correctly routed. Replace the fuel line and fuel filter with the new components provided.
9. **Install Primer Bulb:** If replacing the primer bulb, carefully remove the old one and install the new primer bulb.
10. **Reinstall Air Filter Assembly:** Reattach the air filter and air filter housing.
11. **Refill Fuel Tank:** Fill the fuel tank with fresh, clean gasoline.
12. **Reconnect Spark Plug:** Reconnect the spark plug wire.



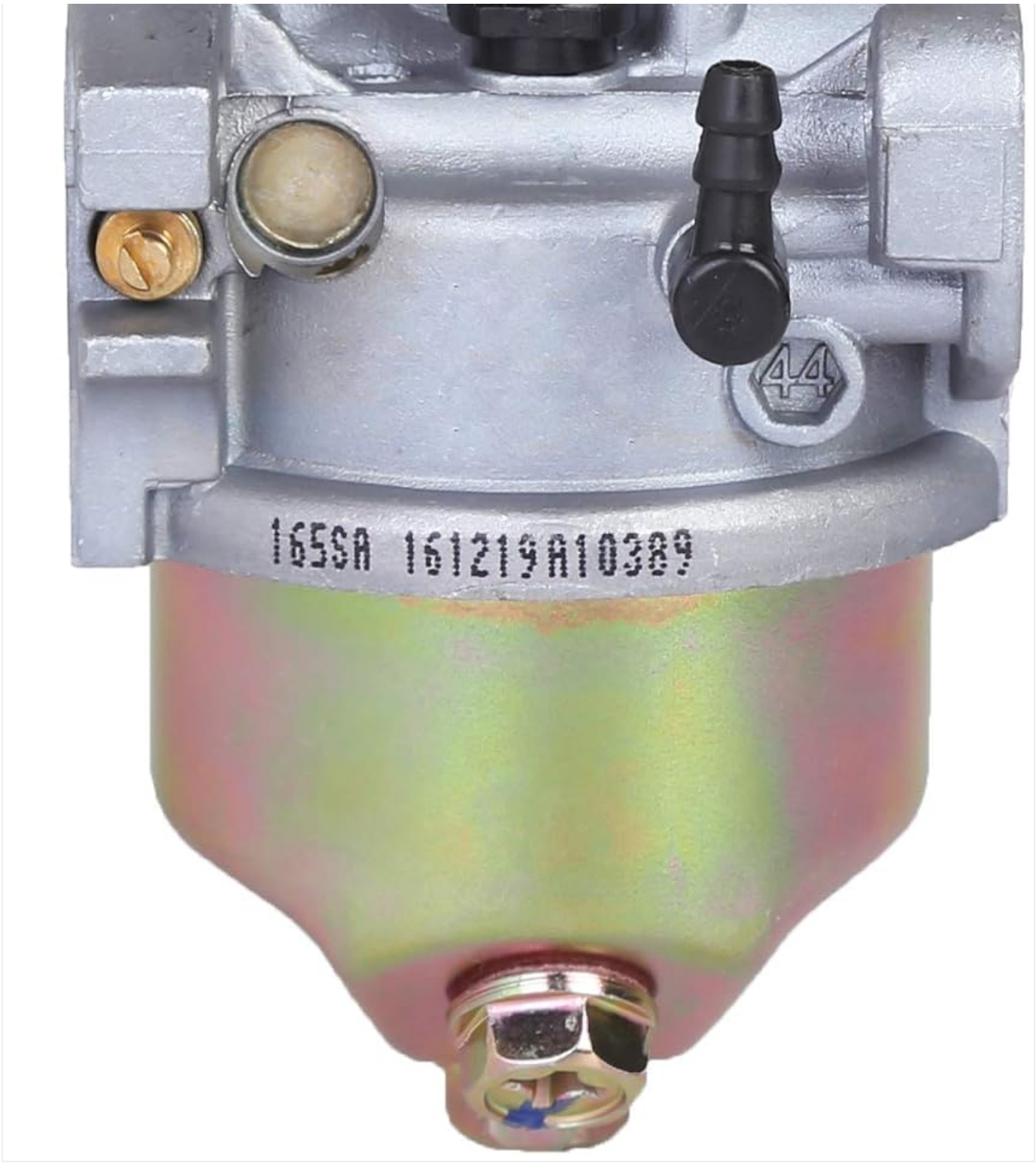


Figure 2: Side view of the Pro Chaser Carburetor, showing the fuel inlet and adjustment screws. Note the general layout for connection points.



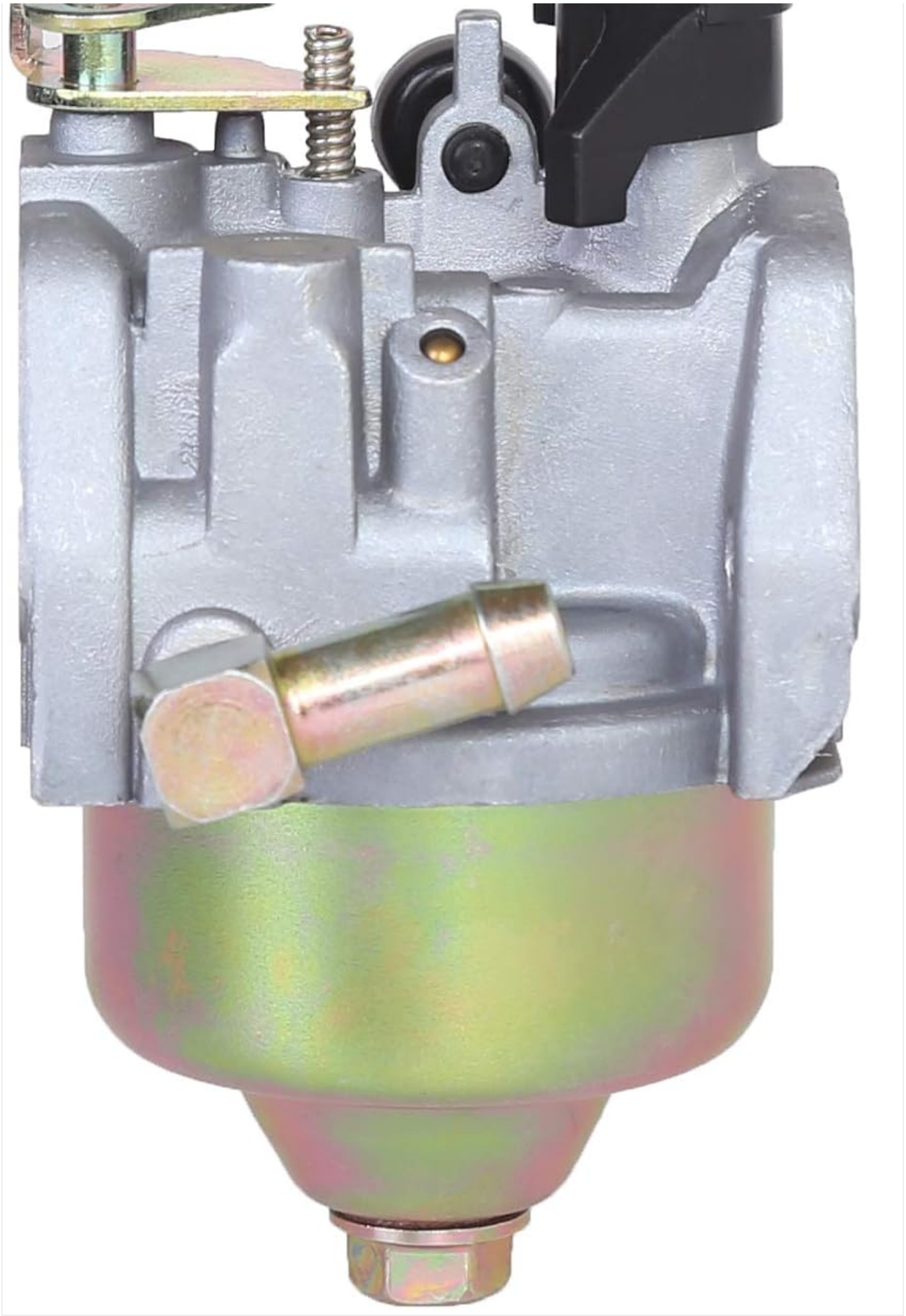


Figure 3: Opposite side view of the Pro Chaser Carburetor, highlighting the choke and throttle linkage attachment points.

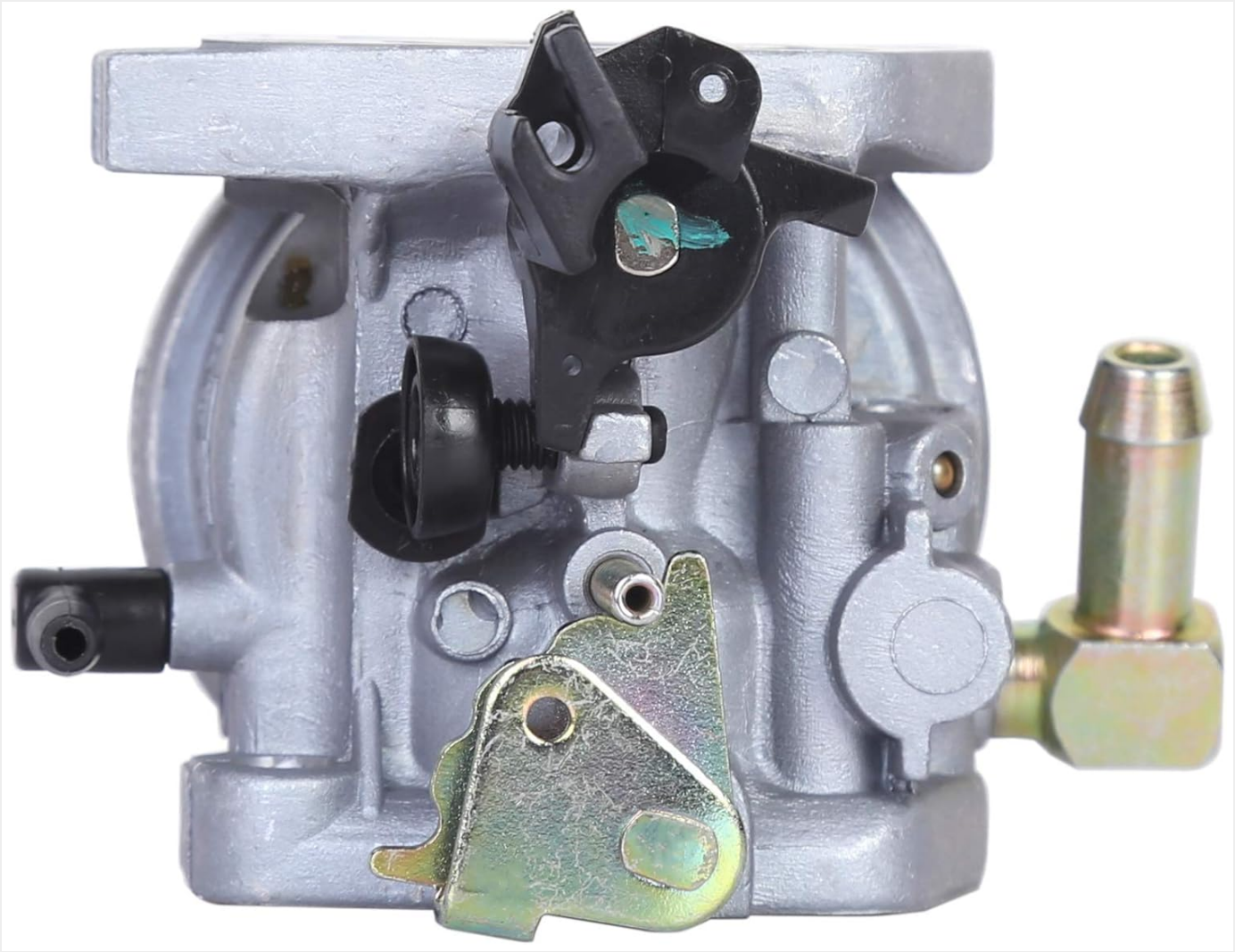


Figure 4: Top view of the Pro Chaser Carburetor, showing the primer bulb connection and air intake.

Operation

After successful installation, the carburetor is ready to deliver the correct fuel-air mixture to your snow blower engine. Proper starting procedures for your snow blower should be followed as outlined in its original owner's manual.

Starting Procedure (General):

1. **Check Fuel Level:** Ensure there is sufficient fresh fuel in the tank.
2. **Open Fuel Valve:** If your snow blower has a fuel shut-off valve, ensure it is in the "ON" position.
3. **Prime the Carburetor:** Press the primer bulb (if equipped) several times until fuel is visible in the bulb or the bulb feels firm. This pushes fuel into the carburetor for easier starting.
4. **Set Choke:** Move the choke lever to the "FULL CHOKE" position for cold starts.
5. **Set Throttle:** Set the throttle control to the "FAST" or "START" position.
6. **Start Engine:** Pull the recoil starter rope firmly or engage the electric starter.
7. **Adjust Choke:** Once the engine starts and runs smoothly for a few seconds, gradually move the choke lever to the "OFF" or "RUN" position.

If the engine does not start after several attempts, refer to the Troubleshooting section.

Maintenance

Regular maintenance of your carburetor and fuel system is crucial for reliable snow blower performance 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:** Inspect and replace the fuel filter annually or if it appears clogged. The kit includes a new fuel filter for immediate replacement.
- **Carburetor Cleaning:** If the snow blower experiences fuel-related issues, the carburetor may need cleaning. This typically involves disassembling the carburetor, cleaning jets and passages with carburetor cleaner, and replacing gaskets. This task is often best performed by a qualified technician.
- **Seasonal Storage:** Before storing the snow blower for an extended period, either run the engine until it runs out of fuel or drain the fuel tank and carburetor bowl to prevent fuel degradation and gumming.

Troubleshooting

This section addresses common issues that may arise after carburetor installation or during operation. If problems persist, consult a qualified service technician.

Problem	Possible Cause	Solution
Engine will not start	No fuel, clogged fuel filter, incorrect choke setting, spark plug issue, primer not used.	Check fuel level, replace fuel filter, ensure choke is set correctly for cold start, check spark plug, prime carburetor.
Engine starts then stalls	Choke not adjusted, fuel flow restriction, carburetor jets clogged.	Gradually move choke to "RUN" position, check fuel filter and lines for clogs, clean carburetor.
Engine runs rough or surges	Lean fuel mixture, clogged carburetor jets, air leak in intake.	Clean carburetor, check for loose connections or damaged gaskets around the carburetor.
Fuel leaks from carburetor	Damaged float, stuck needle valve, improperly seated bowl gasket.	Inspect and replace float/needle valve, ensure bowl gasket is correctly installed and not damaged.

Specifications

Key specifications for the Pro Chaser Carburetor are provided below. These measurements are for reference and may have slight variations.

- **Brand:** Pro Chaser
- **Item Weight:** 9.6 ounces
- **Package Dimensions:** 6.3 x 4.21 x 2.6 inches
- **Flange Type:** Bolt On
- **Recommended Uses:** Snowblower
- **UPC:** 669591334590
- **ASIN:** B08NJ84VCL

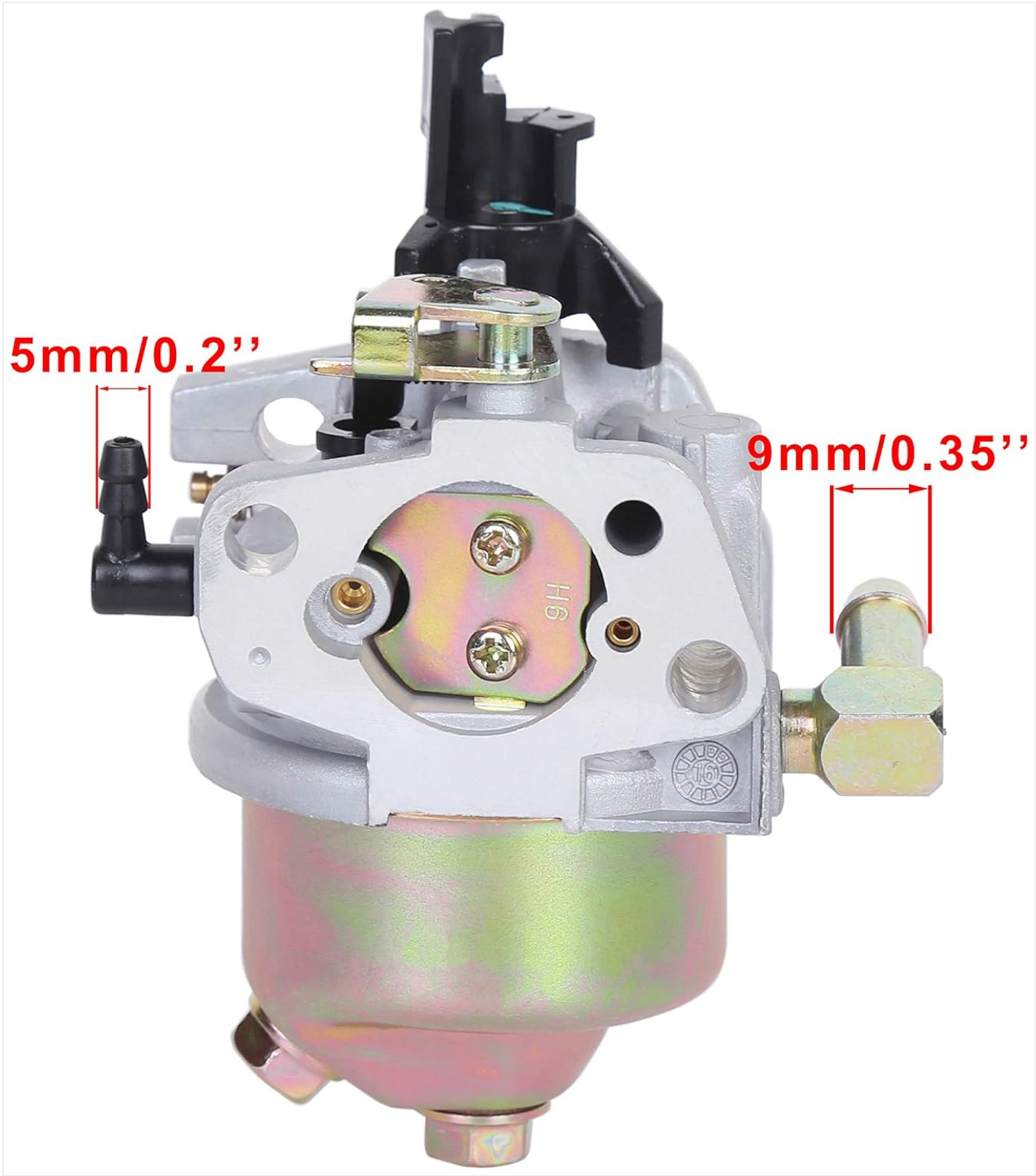


Figure 5: Carburetor dimensions indicating 5mm (0.2") and 9mm (0.35") measurements for specific ports.



Figure 6: Carburetor dimensions indicating a 40.97mm (1.61") measurement, likely for mounting hole spacing or overall width.

Warranty and Support

For warranty information or technical support regarding your Pro Chaser Carburetor, please contact the seller or manufacturer directly. Details regarding specific warranty periods and coverage are typically provided at the point of purchase or on the manufacturer's official website.

Manufacturer: Pro Chaser

Refer to your purchase documentation for contact information.

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