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› Pro Chaser Carburetor Instruction Manual for Craftsman Snow Throwers and Tecumseh Engines

Pro Chaser Carburetor Replacement Kit

Pro Chaser Carburetor Instruction Manual

For Craftsman Snow Throwers and Tecumseh 8hp, 9hp, 10hp Engines

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, maintenance, and troubleshooting of your new Pro Chaser replacement carburetor. This carburetor is designed for specific Craftsman snow thrower models and Tecumseh 8hp, 9hp, and 10hp engines. Please review this manual thoroughly before attempting any installation or maintenance procedures.

Compatibility: This carburetor is a replacement part for various Craftsman snow thrower models including 143.029003, 143.059013, 143.640052, 143.806032, 143.806072, 143.826012, 143.948001, 143.958001, 143.969005, 143.988501, and 143.999005, equipped with 8hp, 9hp, or 10hp Tecumseh engines.

2. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- 1 x Carburetor
- 2 x Fuel Hoses
- 1 x Fuel Filter
- 1 x Shut Off Valve
- 1 x Primer Bulb
- Gaskets (for installation)



Figure 2.1: Complete Pro Chaser Carburetor Replacement Kit. This image displays all components included in the package: the main carburetor unit, two fuel hoses, a fuel filter, a shut-off valve, a primer bulb, and gaskets.

3. SETUP AND INSTALLATION

Safety First: Before beginning any work, ensure the engine is cool, the spark plug wire is disconnected, and the fuel tank is drained or the fuel line is clamped to prevent spills. Wear appropriate personal protective equipment.

1. **Preparation:** Disconnect the air filter assembly and any fuel lines or linkages connected to the old carburetor. Take photos for reference if needed.
2. **Remove Old Carburetor:** Carefully unbolt and remove the existing carburetor from the engine. Ensure all old gasket material is removed from the mounting surfaces.
3. **Install New Gaskets:** Place the new gaskets provided with the kit onto the engine mounting studs, ensuring proper alignment.
4. **Mount New Carburetor:** Position the new Pro Chaser carburetor onto the mounting studs, aligning it with the gaskets. Secure it with the original nuts, tightening them evenly to prevent air leaks.
5. **Connect Fuel Lines:** Attach the new fuel hoses, fuel filter, and shut-off valve as per the original configuration. Ensure all connections are secure and free of leaks. The shut-off valve should be easily accessible.

6. **Connect Linkages:** Reattach all throttle and choke linkages to the new carburetor. Verify smooth operation of both the throttle and choke plates.
7. **Install Primer Bulb:** If replacing the primer bulb, ensure it is securely seated and creates a proper seal.
8. **Final Checks:** Reconnect the spark plug wire. Refill the fuel tank with fresh, clean fuel.



Figure 3.1: Side view of the Pro Chaser carburetor. This image highlights the fuel inlet and mounting points, crucial for correct installation.

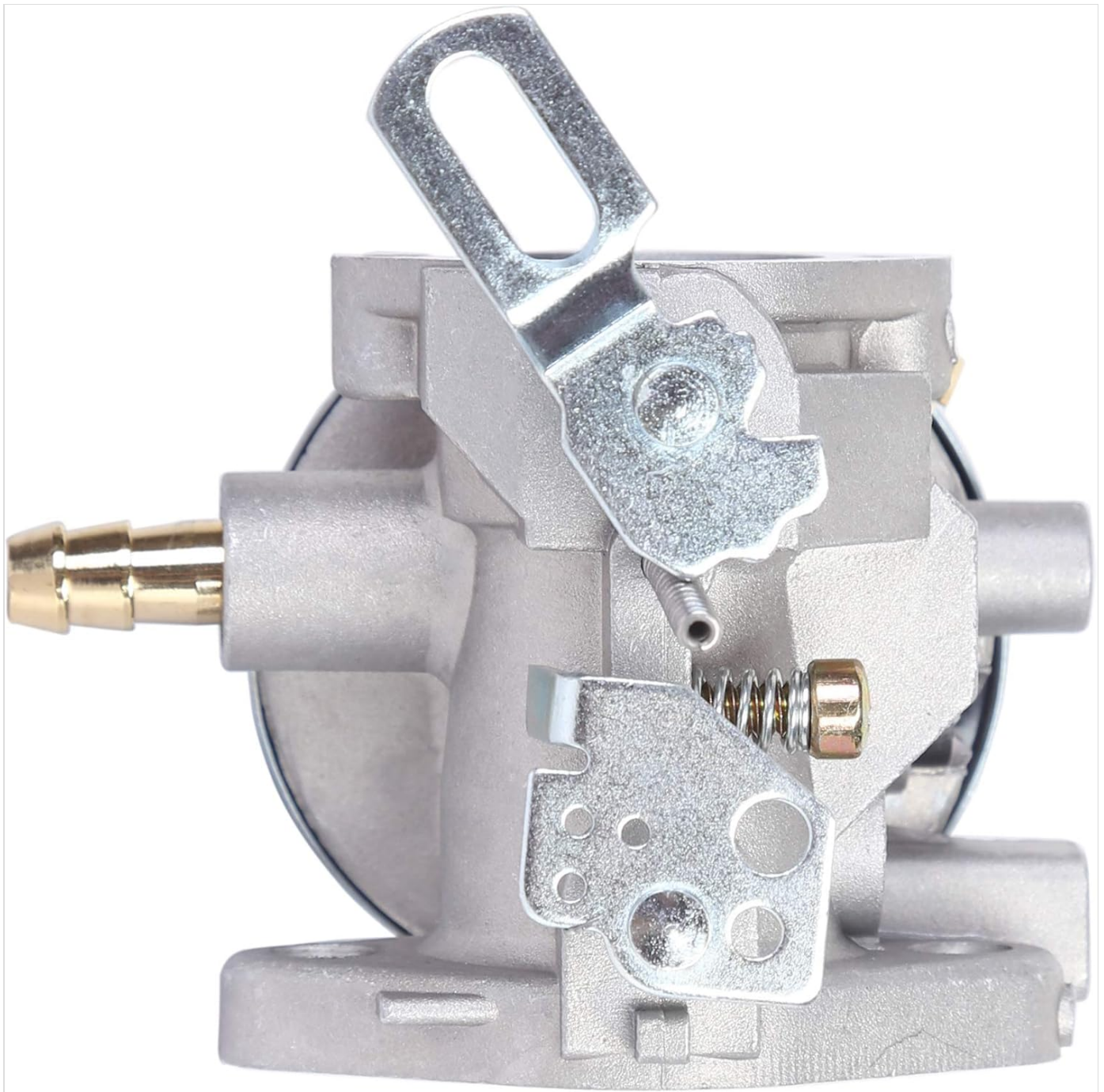


Figure 3.2: Another side view of the carburetor, showing the throttle and choke linkage attachment points. Proper connection of these linkages is essential for engine control.

4. POST-INSTALLATION CHECKS AND INITIAL OPERATION

After installation, perform the following checks before starting the engine:

- **Fuel System Integrity:** Inspect all fuel lines and connections for any signs of leaks.
- **Linkage Function:** Manually operate the throttle and choke levers to ensure they move freely and return to their proper positions.
- **Primer Bulb:** Press the primer bulb several times until fuel is visible in the fuel line or the bulb feels firm.

Starting the Engine: Follow your snow thrower's manufacturer instructions for starting. Typically, this involves setting the choke, engaging the primer, and pulling the starter cord or engaging the electric starter. Allow the engine to warm up before operating under load.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your carburetor and engine.

- **Fuel Quality:** Always use fresh, clean, stabilized fuel. Stale or contaminated fuel is a primary cause of carburetor issues.
- **Fuel Filter:** Inspect and replace the fuel filter annually or more frequently if operating in dusty conditions or with questionable fuel.
- **Carburetor Cleaning:** If the engine runs poorly, the carburetor 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.
- **Storage:** Before long-term storage, drain the fuel tank and run the engine until it stops from lack of fuel, or use a fuel stabilizer to prevent gumming and varnish buildup in the carburetor.

6. TROUBLESHOOTING COMMON ISSUES

Symptom	Possible Cause	Solution
Engine will not start	No fuel, clogged fuel filter, faulty primer, incorrect choke setting	Check fuel level, replace fuel filter, check primer bulb, adjust choke
Engine runs rough/surges	Dirty carburetor jets, air leak, stale fuel	Clean carburetor, check for air leaks around gaskets, use fresh fuel
Fuel leaks	Loose fuel line connections, damaged gaskets, faulty shut-off valve	Tighten connections, replace gaskets, replace shut-off valve
Engine lacks power	Partially clogged carburetor, incorrect fuel mixture	Clean carburetor, ensure proper fuel-to-oil ratio (if 2-stroke)

7. SPECIFICATIONS

- **Brand:** Pro Chaser
- **Product Type:** Carburetor Replacement Kit
- **Flange Type:** Bolt On
- **Recommended Use:** Snowblower / Snow Thrower Engines (8hp, 9hp, 10hp Tecumseh)
- **UPC:** 780861314453

Key Dimensions:



Figure 7.1: Front view dimensions of the carburetor. Key measurements include approximately 25.96mm (1.02 inches) for the intake bore height and 35.23mm (1.39 inches) for the intake bore width.

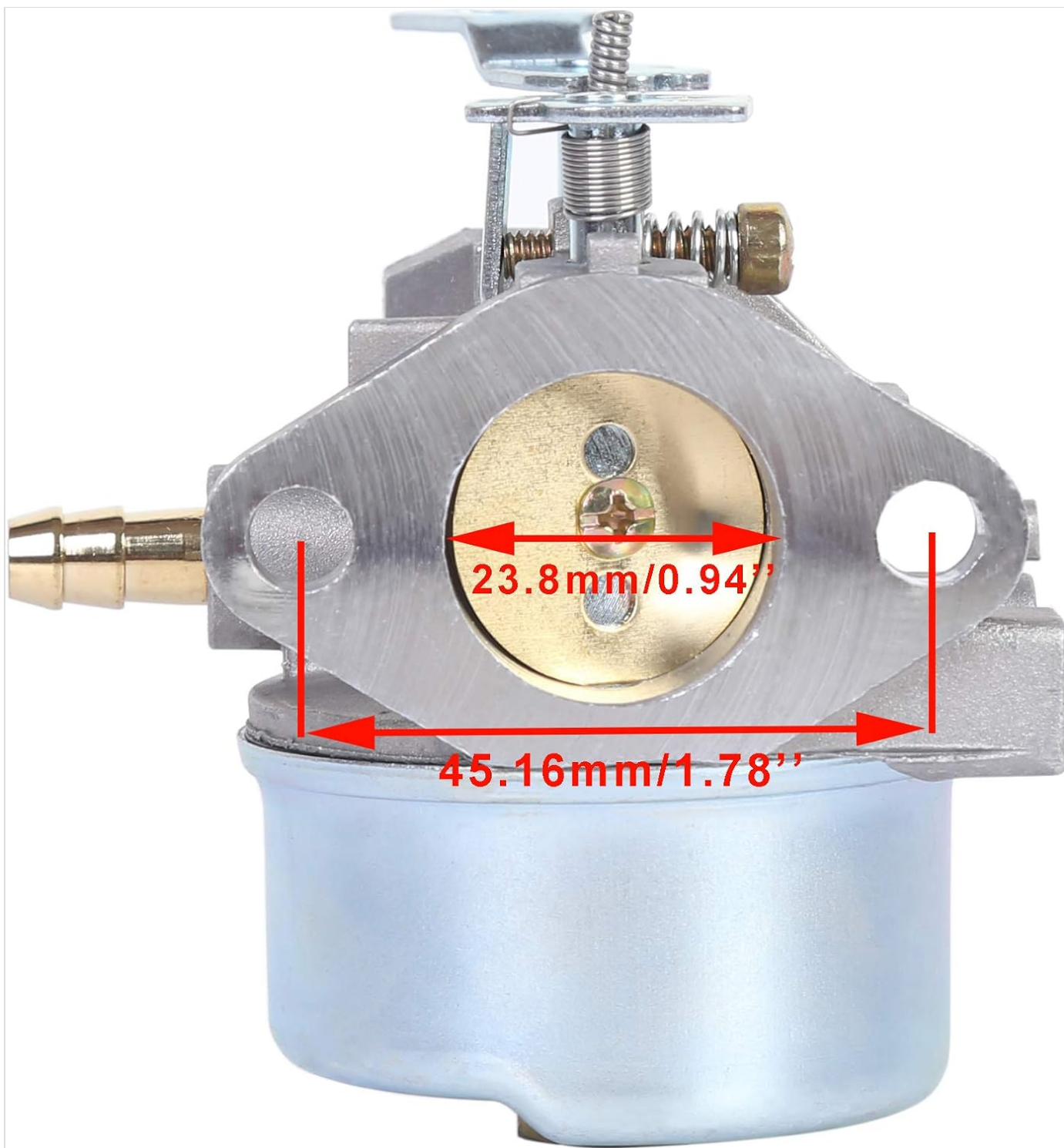


Figure 7.2: Rear view dimensions of the carburetor. Key measurements include approximately 23.8mm (0.94 inches) for the air intake bore height and 45.16mm (1.78 inches) for the air intake bore width.

8. WARRANTY AND SUPPORT

Specific warranty information for this Pro Chaser carburetor is not provided in this manual. For warranty details, technical support, or assistance with parts, please contact the manufacturer directly or refer to the product listing where you made your purchase.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question