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› Pro Chaser Carburetor Instruction Manual for Toro Power Clear Snow Blowers (Models 38583, 38515, 38584, 38518, 38581, 38587)

Pro Chaser LAWN

Pro Chaser Carburetor Instruction Manual

For Toro Power Clear Snow Blowers (Models 38583, 38515, 38584, 38518, 38581, 38587)

1. PRODUCT OVERVIEW

This manual provides instructions for the installation, maintenance, and troubleshooting of the Pro Chaser replacement carburetor. This carburetor is designed to restore optimal fuel delivery and engine performance for compatible Toro Power Clear snow blower models.

A carburetor is a device that blends air and fuel for an internal combustion engine. It is crucial for the engine's proper operation, ensuring the correct air-fuel mixture for starting, idling, and running under load.



Image 1.1: The complete Pro Chaser carburetor kit, including the main carburetor unit, three mounting gaskets, two fuel hoses, one fuel filter, one shut-off valve, and four clamps.

2. COMPATIBILITY

This Pro Chaser carburetor is a direct replacement for the following Toro Power Clear snow blower models and engine series:

- **Toro Snow Blower Models:** 38583, 38587, 38584, 38581, 38515, 38518
- **Replaces Part Numbers:** 801396, 801233, 801255
- **Compatible Engine Series:** 084132, 084133, 084232, 084233, 084332, 084333

Please verify your snow blower's model number and the original carburetor's part number to ensure proper fitment before installation.

3. PACKAGE CONTENTS

Upon opening the package, please ensure all the following components are present:

- 1 x Carburetor Unit
- 3 x Mounting Gaskets
- 2 x Fuel Hoses

- 1 x Fuel Filter
- 1 x Shut-off Valve
- 4 x Clamps



Image 3.1: Front view of the carburetor, highlighting the 42mm (1.65 inch) mounting hole spacing for accurate fitment.

4. SETUP AND INSTALLATION

Safety Warning: Always disconnect the spark plug wire before performing any maintenance or installation on your snow blower to prevent accidental starting. Ensure the engine is cool. Work in a well-ventilated area and handle fuel with extreme caution.

1. **Preparation:** Gather necessary tools (wrenches, screwdrivers, pliers, fuel-safe container). Place absorbent rags around the work area to catch any spilled fuel.
2. **Drain Fuel:** Turn off the fuel supply valve (if present) and drain the fuel tank into an approved container.
3. **Remove Air Filter Assembly:** Carefully remove the air filter housing and air filter to gain access to the carburetor.
4. **Disconnect Linkages and Hoses:** Note the routing of all fuel lines and throttle/choke linkages. Take photos if necessary for reassembly. Disconnect the fuel line from the carburetor and plug it to prevent fuel leakage. Disconnect the throttle and choke linkages.
5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine. Be mindful of any gaskets between the carburetor and the engine/intake manifold.
6. **Install New Carburetor:** Ensure the new mounting gaskets are correctly positioned. Mount the new Pro Chaser carburetor onto the engine, aligning it with the mounting studs. Tighten the nuts securely but do not overtighten.
7. **Reconnect Linkages and Hoses:** Reattach the throttle and choke linkages to the new carburetor. Connect the new fuel filter and shut-off valve (if replacing) using the provided fuel hoses and clamps. Ensure all connections are secure and free of leaks.
8. **Reinstall Air Filter Assembly:** Reattach the air filter and its housing.
9. **Refill Fuel:** Add fresh, clean fuel to the tank. Check for any leaks around the fuel lines and carburetor.

10. **Reconnect Spark Plug:** Reconnect the spark plug wire.

For visual guidance, searching for 'Toro Power Clear carburetor replacement' on video platforms may provide helpful demonstrations specific to your snow blower model.



Image 4.1: Side view of the carburetor, illustrating the fuel inlet port and general layout of the unit.

5. OPERATING INSTRUCTIONS (POST-INSTALLATION)

After installing the new carburetor, follow these steps to start and operate your snow blower:

- 1. Prime the Engine:** If your snow blower has a primer bulb, press it several times as recommended by your snow blower's owner's manual to draw fuel into the carburetor.
- 2. Choke Setting:** Set the choke lever to the 'FULL CHOKE' position for cold starts.
- 3. Start the Engine:** Pull the recoil starter cord firmly or engage the electric starter. The engine should attempt to start.
- 4. Adjust Choke:** Once the engine fires or runs briefly, gradually move the choke lever to the 'HALF CHOKE' position, then to 'RUN' as the engine warms up and runs smoothly.
- 5. Idle Adjustment:** Allow the engine to warm up for a few minutes. If the engine idles too high or too low, or surges, minor adjustments may be needed. This carburetor is typically pre-set, but if issues persist, consult a qualified technician.

6. MAINTENANCE

Proper maintenance of your carburetor and fuel system will ensure longevity and reliable performance:

- Fuel Quality:** Always use fresh, clean gasoline. Stale fuel can cause deposits that clog carburetor passages. Consider using a fuel stabilizer, especially during storage.
- Fuel Filter:** Regularly inspect and replace the fuel filter (included in this kit) to prevent contaminants from reaching the carburetor.
- Seasonal Storage:** Before storing your snow blower for extended periods, either run the engine until it runs out of fuel or drain the fuel tank and carburetor bowl. This prevents fuel from gumming up the carburetor.
- Air Filter:** Ensure the air filter is clean and free of debris. A clogged air filter can affect the air-fuel mixture.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Engine will not start	No fuel, incorrect choke, spark plug issue, fuel line blockage	Check fuel level, ensure choke is set correctly, inspect spark plug, verify fuel flow to carburetor.
Engine starts then dies	Improper choke adjustment, fuel delivery issue, air leak	Gradually adjust choke, check fuel filter and lines, ensure carburetor is securely mounted with new gaskets.
Engine surges or runs rough	Air leak, fuel restriction, governor linkage issue	Check for air leaks around gaskets, ensure fuel filter is clean, verify governor linkage is correctly attached and moving freely.

Problem	Possible Cause	Solution
Fuel leaks from carburetor	Improper installation, damaged gasket, float issue	Recheck mounting bolts, ensure gaskets are properly seated, inspect fuel lines for cracks. If internal, professional service may be required.

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

8. SPECIFICATIONS

- **Brand:** Pro Chaser
- **Model:** LAWN
- **Item Weight:** Approximately 9.1 ounces
- **Package Dimensions:** Approximately 4.17 x 3.62 x 2.8 inches
- **Manufacturer Part Number:** LAWN
- **UPC:** 752811584681
- **Recommended Use:** Snowblower



Image 8.1: Another view of the carburetor, indicating the 28mm (1.1 inch) air intake diameter and other key dimensions.

9. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your Pro Chaser carburetor, please refer to the seller's policies on the platform where the purchase was made. You may also contact Pro Chaser customer service directly through their official channels for assistance. Keep your purchase receipt or order number handy when contacting support.