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› Pro Chaser 585020402 Carburetor Instruction Manual for Poulan Pro Snow Throwers

Pro Chaser 585020402

Pro Chaser 585020402 Carburetor Kit Instruction Manual

For Poulan Pro Snow Thrower Models: PR621ES, PR621, PR241, PR270, PR271, PP521ES, PR627ES

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, maintenance, and troubleshooting of your Pro Chaser 585020402 Carburetor Kit. Please read this manual thoroughly before attempting any installation or maintenance to ensure safe and correct usage. Proper installation and maintenance are crucial for optimal performance and longevity of your snow thrower.

2. SAFETY INFORMATION

WARNING: Always disconnect the spark plug wire before performing any service or maintenance to prevent accidental starting.

- Ensure the engine is cool before handling any components, especially the carburetor and exhaust system.
- Work in a well-ventilated area to avoid inhaling fuel fumes.
- Wear appropriate personal protective equipment, including gloves and eye protection.
- Handle fuel with extreme care. Fuel is highly flammable.
- Keep children and pets away from the work area.

3. PACKAGE CONTENTS

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

- 1 x Carburetor
- 2 x Fuel Hose
- 1 x Fuel Filter
- 1 x Shut Off Valve
- 1 x Primer Bulb
- 1 x Spark Plug
- 1 x Carburetor Insulator

- Gaskets (various)



Figure 3.1: Complete Pro Chaser 585020402 Carburetor Kit, showing all included components.

4. PRODUCT OVERVIEW

The Pro Chaser 585020402 Carburetor is a precision-engineered component designed to mix air and fuel in the correct ratio for efficient engine combustion. This kit provides all necessary parts for a comprehensive replacement or tune-up of your compatible Poulan Pro snow thrower's fuel system.

Carburetor Dimensions

Refer to the images below for key dimensions of the carburetor, which can assist in verifying compatibility and during installation.





8.37mm/0.32"

The image shows a mechanical assembly, likely a solenoid valve, with a cylindrical body and a central circular opening. A vertical metal rod extends from the top. A black plastic component is mounted on top of the valve body. Two red dimension lines are present: one indicating a width of 8.37mm/0.32" on a side port, and another indicating a width of 40mm/1.6" across the main body.

40mm/1.6"



Figure 4.1: Front view of the carburetor with key measurements, including the 40mm (1.6") intake width and 8.37mm (0.32") fuel line connection.





Figure 4.2: Rear view of the carburetor, showing the 40mm (1.6") mounting width and 8.37mm (0.32") fuel line connection.

5. SETUP AND INSTALLATION

Carburetor replacement requires mechanical aptitude. If you are unsure about any step, consult a qualified service technician.

General Installation Steps:

1. **Preparation:** Ensure the engine is off and cool. Disconnect the spark plug wire. Drain the fuel tank.
2. **Remove Air Filter Assembly:** Carefully detach the air filter housing and any associated components to access the carburetor.
3. **Disconnect Fuel Lines:** Use appropriate clamps or pliers to pinch off fuel lines, then disconnect them from the old carburetor. Be prepared for residual fuel spillage.
4. **Disconnect Linkages:** Detach the throttle and choke linkages from the old carburetor. Note their positions for reassembly.
5. **Remove Old Carburetor:** Unbolt the old carburetor from the engine manifold. Remove and discard old gaskets.
6. **Install New Carburetor:** Install new gaskets provided in the kit. Mount the new carburetor, ensuring all bolts are tightened to manufacturer specifications.
7. **Reconnect Linkages and Fuel Lines:** Reattach the throttle and choke linkages. Connect the new fuel lines, fuel filter, and shut-off valve as per the original configuration. Ensure all connections are secure to prevent leaks.
8. **Install Primer Bulb and Spark Plug:** Replace the old primer bulb and spark plug with the new ones from the kit.
9. **Reassemble Air Filter:** Reinstall the air filter assembly.
10. **Refuel and Test:** Refill the fuel tank with fresh, appropriate fuel. Reconnect the spark plug wire. Prime the carburetor and attempt to start the engine.

Installation Video Reference:

Video 5.1: General overview of a snow blower carburetor kit, demonstrating components and potential installation steps.
This video is provided by Nationtecs and is for informational purposes.

6. OPERATING INSTRUCTIONS (AFTER CARBURETOR REPLACEMENT)

After successful installation, follow these steps to operate your snow thrower:

1. **Fuel Check:** Ensure the fuel tank contains fresh, clean fuel.
2. **Choke and Primer:** Set the choke to the 'FULL CHOKE' position. Press the primer bulb several times until fuel is visible in the primer bulb or fuel line.
3. **Starting:** Engage the starter mechanism (pull cord or electric start). Once the engine fires, gradually move the choke to the 'HALF CHOKE' position, then to 'RUN' as the engine warms up.
4. **Warm-up:** Allow the engine to warm up for a few minutes before engaging the auger or driving mechanisms.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your carburetor and snow thrower.

- **Fuel Quality:** Always use fresh, clean fuel. Stale fuel can cause carburetor clogging. Consider using a fuel stabilizer, especially during storage.
- **Fuel Filter:** Inspect and replace the fuel filter annually or more frequently if operating in dusty conditions or if fuel flow issues occur.
- **Spark Plug:** Inspect the spark plug for wear and proper gap. Replace it as part of routine maintenance or if starting issues arise.
- **Storage:** Before long-term storage, drain the fuel system or run the engine until it runs out of fuel to prevent gumming and varnish buildup in the carburetor.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Engine won't start	No fuel, clogged fuel filter, incorrect choke setting, faulty spark plug, air leak.	Check fuel level, replace fuel filter, adjust choke, check/replace spark plug, inspect gaskets and connections.
Engine runs rough or surges	Improper fuel mixture, vacuum leak, dirty carburetor jets.	Ensure all connections are tight, clean carburetor jets if necessary (though a new carburetor should not have this issue initially).
Fuel leaks	Loose fuel lines, damaged gaskets, faulty shut-off valve.	Tighten all fuel line clamps, replace damaged gaskets, inspect shut-off valve.
Engine lacks power	Restricted air filter, incorrect fuel mixture, worn spark plug.	Check air filter, ensure proper carburetor function, replace spark plug.

9. SPECIFICATIONS

- **Model Number:** 585020402
- **Brand:** Pro Chaser
- **Compatible Snow Thrower Models:** Poulan Pro PR621ES, PR621, PR241, PR270, PR271, PP521ES, PR627ES
- **Item Weight:** 14.9 ounces
- **Package Dimensions:** 8.46 x 3.46 x 3.03 inches
- **UPC:** 750439951014

10. WARRANTY AND SUPPORT

Specific warranty details for the Pro Chaser 585020402 Carburetor Kit are not provided in this manual. Please refer to the product packaging or contact the seller directly for warranty information and customer support.

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