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PowerSmart PS21

PowerSmart PS21 21-inch 212cc Gas-Powered Single-Stage Snow Blower User Manual

Model: PS21 (PSS1210LED)
Brand: PowerSmart

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your PowerSmart PS21 21-inch 212cc Gas-Powered Single-Stage Snow Blower. Please read this manual thoroughly before operating the machine and keep it for future reference.
The PowerSmart 212cc Gas Snow Blower is designed to efficiently clear snow. Its versatile control panel, remote chute control, and 180-degree chute rotation simplify operation. The powerful auger cuts through tough snow, preventing clogging and continuously blowing snow up to 40 feet. It is capable of clearing snow up to 21 inches wide and 12.5 inches deep, making it ideal for heavy snow conditions. The unit features a recoil start for easy ignition and a durable steel frame and auger system for long-lasting service.

2. Safety Information

General safety warnings apply to snow blowers. Always exercise caution to prevent injuries from rotating parts. Gasoline models produce carbon monoxide, so ensure adequate ventilation to avoid carbon monoxide poisoning. Always wear appropriate protective gear, including gloves and eye protection, during operation and maintenance. **Always read the entire user manual before operating the snow blower.**

- Keep hands, feet, and clothing away from moving parts.
- Never direct the discharge chute towards people or property.
- Clear the area of foreign objects that could be thrown by the auger.
- Do not operate the snow blower indoors or in poorly ventilated areas.
- Refuel in a well-ventilated area with the engine off and cool.
- Wear appropriate winter clothing, including non-slip footwear.

3. Product Overview

The PowerSmart PS21 snow blower is equipped with a 212cc 4-cycle OHV engine, designed for powerful and efficient snow removal. Key features include an electric start for convenience and an integrated LED light for enhanced visibility during operation

in low-light conditions.



Figure 3.1: Front view of the PowerSmart PS21 snow blower, showing the auger and discharge chute. This unit is designed for effective snow clearing.

4. Setup

Before initial use, ensure all components are securely assembled according to the instructions provided in your product packaging. Verify that all bolts and fasteners are tightened. Fill the engine with the recommended type and amount of oil and fuel.

4.1 Electric Start Connection

For convenient starting, connect an outdoor-rated extension cord to the electric start port on the snow blower. This allows for

push-button starting.



Figure 4.1: Close-up view of the electric start button and power input on the PowerSmart PS21 snow blower. Connect an outdoor extension cord here for electric starting.

5. Operating Instructions

5.1 Starting the Engine

The 2022 improved version of this snow blower features an electric start. To start the engine, simply connect an extension cord (as described in Section 4.1) and push the start button. Alternatively, you can use the recoil start by firmly pulling the starter cord.

5.2 Operating the Snow Blower

The 212cc 4-cycle OHV engine provides a snow throwing distance of up to 40 feet and a clearing capacity of 1700 pounds per minute. The 21-inch clearing width and 12.5-inch intake height allow for efficient removal of snow. Adjust the chute direction as needed using the remote control for optimal snow discharge.



Figure 5.1: A person operating the PowerSmart PS21 snow blower, actively clearing snow from a driveway. The machine efficiently removes snow from the path.

5.3 LED Light Function

The integrated LED light enhances visibility and safety when operating the snow blower in dark or low-light conditions, such as early mornings or evenings.



Figure 5.2: PowerSmart PS21 snow blower with its LED lights illuminated, demonstrating improved visibility for operation in dark conditions.

6. Maintenance

Regular maintenance is crucial for ensuring the longevity and optimal performance of your snow blower. Always disconnect the spark plug wire before performing any maintenance to prevent accidental starting.

6.1 Key Maintenance Items

- **Auger Drive Belt:** Inspect regularly for wear and tear. Replace if damaged. (Part No: 302040089)
- **Spark Plug:** Check and clean or replace the spark plug periodically for reliable engine ignition. (Part No: 9566960301)
- **Engine Oil:** Check oil level before each use. Use 5W-30 engine oil. Change oil according to the schedule in your full manual.
- **Chute Clearing Tool:** Use the provided tool (Part No: 203050057) to safely clear snow blockages from the discharge chute. **Never use hands or feet.**
- **Non-Stick Spray:** Apply non-stick spray to the auger and chute to prevent snow buildup.

- **Cover:** Use a protective cover when storing the snow blower to shield it from elements.



Figure 6.1: Diagram illustrating key maintenance parts for the PowerSmart PS21 snow blower, including the auger drive belt, spark plug, engine oil, and chute clearing tool.

6.2 Storage

When storing the snow blower for extended periods, especially during off-season, ensure the fuel tank is empty or treated with a fuel stabilizer. Clean the unit thoroughly and store it in a dry, protected area.



Figure 6.2: The PowerSmart PS21 snow blower stored compactly in a garage, demonstrating its space-saving design.

7. Troubleshooting

This section addresses common issues you might encounter with your snow blower.

Problem	Possible Cause	Solution
Engine does not start	No fuel or stale fuel Spark plug issue Electric start not connected	Fill with fresh fuel Check/clean/replace spark plug Ensure extension cord is connected for electric start
Reduced snow clearing performance	Auger obstructed Chute clogged Worn auger paddle	Clear obstructions with chute tool Clear chute with chute tool Inspect and replace auger paddle if worn

Problem	Possible Cause	Solution
Excessive vibration	Loose components Damaged auger	Check and tighten all fasteners Inspect auger for damage; replace if necessary

For issues not listed or if problems persist after attempting solutions, please contact PowerSmart customer support or a qualified service technician.

8. Specifications

Technical specifications for the PowerSmart PS21 snow blower:

Specification	Value
Manufacturer	PowerSmart
Product Model Number	PSS1210LED
Engine Displacement	212cc
Clearing Width	21 inches
Intake Height	12.5 inches
Max. Throwing Distance	40 feet
Power Source	Gas-powered
Product Dimensions (L x W x H)	106.68 x 53.34 x 121.92 cm (42 x 21 x 48 inches)
Item Weight	33.43 kg (73.7 pounds)
Features	Electric Start, LED Light, 180-degree Chute Rotation

9. Warranty and Support

For detailed warranty information, please refer to the warranty card or documentation included with your PowerSmart PS21 snow blower. In case of technical issues, parts replacement, or service inquiries, please contact PowerSmart customer support. Keep your purchase receipt and model number handy when contacting support.
You can typically find contact information for customer support on the manufacturer's website or in the product documentation.

Ask a question about this manual

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