

PowerSmart B8621S

PowerSmart Self Propelled Gas Lawn Mower User Manual

Model: B8621S | **Brand:** PowerSmart

1. INTRODUCTION

Thank you for choosing the PowerSmart Self Propelled Gas Lawn Mower. This manual provides essential information for the safe and efficient operation, assembly, and maintenance of your new lawn mower. Please read this manual thoroughly before operating the machine and keep it for future reference.

The PowerSmart B8621S features a powerful Briggs and Stratton 550e 140cc 4-cycle OHV engine, a durable 21-inch steel deck, and versatile 3-in-1 cutting options (bagging, mulching, and side discharge). Its rear-wheel drive self-propelled system enhances traction and performance on various terrains.



Figure 1.1: PowerSmart 21-Inch Self Propelled Gas Lawn Mower. This image shows the complete lawn mower with its handle extended and grass bag attached, ready for use.

2. SAFETY INFORMATION

Always prioritize safety when operating power equipment. Failure to follow safety instructions can result in serious injury or property damage.

- Read and understand the entire manual before operating the mower.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and sturdy footwear.
- Keep hands, feet, and clothing away from rotating parts and discharge openings.
- Never operate the mower in wet grass or rain.
- Ensure the area is clear of debris, rocks, and other objects that could be thrown by the blade.
- Handle fuel with extreme care. Store fuel in approved containers and refuel outdoors in a well-ventilated area.
- Do not allow children or untrained individuals to operate the mower.

- Always turn off the engine and disconnect the spark plug wire before performing any maintenance or clearing blockages.

3. ASSEMBLY

Your PowerSmart lawn mower is designed for quick and easy assembly, often requiring no tools.

1. **Unpacking:** Carefully remove all components from the packaging. Ensure all parts listed in the packing list are present.
2. **Handle Assembly:** Unfold the handle and secure it in the upright position using the provided knobs or levers. Ensure all cables are properly routed and not pinched.
3. **Grass Bag Attachment:** Assemble the grass bag if necessary, then attach it to the rear discharge opening of the mower.
4. **Add Engine Oil:** Locate the oil fill cap/dipstick. Fill the engine with the recommended type and amount of engine oil (typically SAE 30 or 10W-30, refer to engine manual for exact specifications). Do not overfill.
5. **Add Fuel:** Fill the fuel tank with fresh, unleaded gasoline. Do not use E85 or E15 fuel.

**EASY
STORAGE**



Figure 3.1: The mower's handle can be folded for compact storage, indicating its ease of assembly and disassembly for transport or storage.

4. OPERATION

4.1. Starting the Engine

The Briggs and Stratton 550e engine is equipped with Prime 'N Pull for easy starting.

1. Ensure the spark plug wire is securely connected.
2. Push the primer bulb 3-5 times (or as recommended by the engine manufacturer) until fuel is visible in the bulb.
3. Stand behind the mower, firmly grasp the starter handle, and pull the rope with a rapid, continuous motion until the engine starts.



Figure 4.1: Close-up view of the Briggs and Stratton 140cc engine, highlighting its design and components for starting.

4.2. Adjusting Cutting Height

The mower features a single-lever 6-position height adjustment for precise cutting.

- With the engine off, locate the height adjustment lever near the wheels.
- Pull the lever outwards and move it to the desired cutting height position. Ensure all wheels are set to the same height.
- The 6 positions allow for cutting heights suitable for various grass types and conditions.



Figure 4.2: Detail of the 6-position single-lever height adjustment mechanism on the mower's wheel, allowing for easy changes to cutting height.

4.3. Self-Propelled Operation

The rear-wheel drive self-propelled system provides improved traction and reduces effort during mowing.

- To engage the self-propel function, squeeze the self-propel bail bar towards the main handle.
- Release the bail bar to disengage the self-propel function and stop the mower's forward motion.
- The mower operates at a single speed of approximately 3.9-4.2 km/h.



Figure 4.3: A person is shown operating the PowerSmart self-propelled lawn mower on a lawn, demonstrating its ease of use with the rear-wheel drive system.

4.4. 3-in-1 Cutting Options

Your mower offers three versatile cutting options: bagging, mulching, and side discharge.

- **Bagging:** Attach the grass bag to collect clippings for disposal or composting.
- **Mulching:** Remove the grass bag and close the side discharge chute. The mower will finely cut and redistribute clippings back onto the lawn as natural fertilizer.
- **Side Discharge:** Attach the side discharge chute to direct clippings away from the mower. This is useful for taller grass or when bagging is not desired.



Figure 4.4: Overhead view of the mower illustrating its 3-in-1 functionality, highlighting options for mulching, side discharge, and rear bagging.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your lawn mower. Always turn off the engine and disconnect the spark plug wire before performing any maintenance.

- **Engine Oil:** Check oil level before each use and change according to the engine manual's schedule (typically after the first 5 hours, then every 25-50 hours).
- **Air Filter:** Inspect and clean the air filter regularly. A dirty air filter can reduce engine performance. Replace if damaged.
- **Spark Plug:** Inspect the spark plug annually. Clean or replace as needed to ensure reliable starting.
- **Blade Care:** Inspect the cutting blade for sharpness and damage before each use. A dull blade tears grass, leading to an unhealthy lawn. Sharpen or replace as necessary.
- **Cleaning:** After each use, clean the underside of the mower deck to prevent grass buildup, which can impede cutting performance and cause rust.

- **Storage:** For long-term storage, drain the fuel tank or use a fuel stabilizer. Clean the mower thoroughly and store it in a dry, protected area. The mower's foldable handle allows for compact storage.



Figure 5.1: Detailed view of the Briggs and Stratton engine, showing areas relevant for maintenance such as the air filter cover and oil fill point.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine will not start	No fuel; stale fuel; spark plug disconnected/fouled; dirty air filter; engine flooded.	Add fresh fuel; check spark plug connection; clean/replace air filter; wait 5-10 minutes before attempting to restart.
Mower cuts unevenly	Dull or bent blade; wheels not set to same height; excessive grass buildup under deck.	Sharpen or replace blade; adjust all wheels to the same height; clean underside of deck.
Self-propel not engaging	Self-propel cable loose or damaged; drive belt worn or broken.	Inspect and adjust cable tension; inspect and replace drive belt if necessary (contact service center).
Excessive vibration	Bent or unbalanced blade; loose engine mounting bolts.	Inspect blade for damage and replace if necessary; check and tighten engine mounting bolts.

7. SPECIFICATIONS

Feature	Detail
Brand	PowerSmart
Model Number	B8621S

Feature	Detail
Engine	Briggs and Stratton 550e, 140cc, 4-cycle OHV
Cutting Width	21 Inches
Cutting Height Positions	6-position, single-lever adjustment
Drive System	Rear-Wheel Drive (RWD) Self-Propelled
Speed	Single-speed (approx. 3.9-4.2 km/h)
Cutting Options	3-in-1 (Bagging, Mulching, Side Discharge)
Deck Material	Steel
Item Weight	64 Pounds (approx. 29 kg)
Product Dimensions	56.5"D x 22"W x 40.5"H (approx. 143.5cm D x 55.9cm W x 102.9cm H)
UPC	840432700273

8. WARRANTY AND SUPPORT


PowerSmart stands behind the quality of its products. For specific warranty details, please refer to the warranty card included with your product or visit the official PowerSmart website. Keep your proof of purchase for warranty claims. Should you encounter any issues or require assistance, PowerSmart offers extensive support:


- PowerSmart has over 500 certified repair centers located across the U.S.
- Full replacement parts are available through the PowerSmart headquarters in Itasca, Illinois.
- For any issues, please contact PowerSmart customer service directly.

For the most up-to-date contact information and support resources, please visit the [PowerSmart Store on Amazon](#) or the manufacturer's official website.

© 2024 PowerSmart. All rights reserved.

Related Documents

	<p>PowerSmart PSM2521SH 21-Inch 3-in-1 Gas Self-Propelled Lawn Mower Instruction Manual</p> <p>This instruction manual provides detailed guidance on the safe operation, maintenance, and troubleshooting of the PowerSmart PSM2521SH 21-inch 3-in-1 gas self-propelled lawn mower. Learn about product features, setup, and support from PowerSmart.</p>
---	---

	<p>PowerSmart PSM2521SR 21-Inch 3-in-1 Gas Self-Propelled Lawn Mower Instruction Manual</p> <p>This instruction manual provides detailed information on the safe operation, maintenance, and troubleshooting of the PowerSmart PSM2521SR 21-inch 3-in-1 gas self-propelled lawn mower.</p>
