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› [PowerSmart](#) /

› PowerSmart Self Propelled Gas Lawn Mower 21 in. 170 cc Engine 3-in-1 with Mulch, Rear Bag and Side Discharge, 6-Position Height Adjustment User Manual

PowerSmart DB8602S-W

PowerSmart Self Propelled Gas Lawn Mower User Manual

Model: DB8602S-W | Brand: PowerSmart

INTRODUCTION

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



Figure 1: PowerSmart Self Propelled Gas Lawn Mower (Model DB8602S-W)

SAFETY INFORMATION

WARNING: Always read and understand all safety warnings and instructions before operating this product. Failure to follow the warnings and instructions may result in serious injury.

- Keep hands and feet away from rotating parts.
- Wear appropriate personal protective equipment (PPE), including eye protection and sturdy footwear.
- Do not operate the mower in wet grass or rain.
- Ensure the area is clear of debris before mowing.

- Never allow children or untrained persons to operate the mower.
- Turn off the engine and disconnect the spark plug wire before performing any maintenance or clearing blockages.

SETUP AND ASSEMBLY

Your PowerSmart lawn mower requires minimal assembly. Follow these steps for initial setup:

1. **Unpacking:** Carefully remove all components from the packaging. Ensure all parts listed in the packing list are present.
2. **Handle Assembly:** The handle is designed for quick folding and unfolding. To set up for operation, lift the handle into the upright position and secure the quick-release levers on both sides. Ensure the handle is firmly locked in place.
3. **Add Engine Oil:** The mower comes with the recommended SAE 10W-30 engine oil. Locate the oil fill cap/dipstick on the engine. Remove the cap and carefully pour the entire bottle of oil into the engine. Replace the cap securely.
4. **Add Fuel:** Fill the fuel tank with fresh, unleaded gasoline. Do not overfill. Ensure the fuel cap is tightened securely after filling.
5. **Attach Grass Catcher (Optional):** If you plan to bag clippings, attach the grass catcher to the rear of the mower. Lift the rear discharge flap and hook the grass catcher onto the designated slots.



Figure 2: Quick-folding design for easy storage and transport.





Figure 3: Side view of the mower in its compact, folded state.

OPERATING THE MOWER

Starting the Engine

To start your PowerSmart lawn mower:

1. Ensure the spark plug wire is securely connected.
2. Push the primer bulb (if equipped) 3-5 times until fuel is visible.
3. Hold the operator presence control bar against the handle.

4. Pull the recoil start cord firmly and smoothly until the engine starts.



Figure 4: The powerful 170cc OHV 4-cycle engine provides reliable performance.

Mowing Features (3-in-1 System)

Your mower offers versatile 3-in-1 functionality:

- **Mulching:** For returning fine grass clippings and nutrients to your lawn. Ensure the side discharge chute is closed and the rear bag is removed.
- **Rear Bagging:** For collecting grass clippings for disposal. Attach the grass catcher securely.
- **Side Discharge:** For discharging clippings out the side of the mower. Attach the side discharge chute and ensure the rear bag is removed.



Figure 5: The 3-in-1 steel deck allows for mulching, side discharge, or rear bagging.

Height Adjustment

The mower features a dual-lever, 6-position height adjustment system. To change the cutting height, simply move the levers located near the wheels to your desired position. The cutting height ranges from 1.5 inches to 3.9 inches.



Figure 6: Easily adjust cutting height with the dual-lever system.

Self-Propelled Operation

This model is self-propelled with a rear-wheel drive system, providing excellent traction and making it easier to maneuver, especially on slopes or uneven terrain. Engage the self-propel lever (usually located on the handle) to activate the drive system.



Figure 7: The self-propelled rear-wheel drive system simplifies mowing.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your lawn mower.

- **Grass Catcher Emptying:** Regularly check and empty the grass catcher to prevent clogging and maintain efficient bagging.
- **Blade Care:** The 21-inch cutting blade is designed for effective cutting. Periodically inspect the blade for sharpness and damage. A sharp blade ensures a clean cut and healthier lawn.
- **Engine Maintenance:** Refer to the engine manufacturer's manual for detailed engine maintenance, including oil changes, air filter cleaning/replacement, and spark plug inspection.
- **Cleaning:** After each use, clean the mower deck and exterior to remove grass clippings and debris. This prevents rust and ensures proper operation.



FOLD & STORAGE EASILY

MOW, FOLD, DONE

Figure 8: The durable steel deck and sharp blade are key to effective mowing.

TROUBLESHOOTING

If you encounter issues with your lawn mower, consult this section before seeking professional service.

Problem	Possible Cause	Solution
Engine won't start	No fuel; old fuel; spark plug issue; clogged air filter.	Add fresh fuel; check/replace spark plug; clean/replace air filter.
Mower cuts unevenly	Dull or bent blade; incorrect cutting height setting.	Sharpen or replace blade; adjust cutting height evenly.
Excessive vibration	Bent blade; loose components.	Inspect blade for damage; tighten all bolts and nuts.
Engine loses power	Clogged air filter; old fuel; low oil level.	Clean/replace air filter; use fresh fuel; check and add oil.

SPECIFICATIONS

- Mower Type:** 3-in-1 (Bagger, Mulch, Side-Discharge)
- Engine:** 170cc, 4-Stroke OHV Gas Engine
- Cutting Width:** 21 inches
- Deck Material:** 14 Gauge Steel
- Cutting Height:** 6 Options, 1.5 to 3.9 inches
- Drive Type:** Rear Wheel Drive (Self-Propelled)
- Fuel Tank Capacity:** 0.21 gal
- Recommended Oil:** SAE 10W-30 (Included)
- Start Type:** Pull Cord
- Grass Catcher Capacity:** 1.4 Bushel
- Folded Size:** H 33 in, W 22 in, D 17 in
- Item Weight:** 66.3 Pounds
- Recommended Terrain:** Flat, Slant, Uneven
- Model Number:** DB8602S-W
- UPC:** 817582019425

WARRANTY AND SUPPORT

PowerSmart is headquartered in Itasca, Illinois, specializing in small engine equipment. We fully integrate design, manufacture, direct-sale, and service to provide reliable products and dependable service. Like all tools and equipment, products sometimes are in need of repair or replacement. PowerSmart has over 500 certified repair centers in the U.S. and provides full replacement parts through its IL headquarters. For any issues, please contact PowerSmart customer support. For further assistance, please visit the official PowerSmart Store on Amazon:[PowerSmart Store](#)

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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