

## PowerSmart 18-inch

# PowerSmart 18-Inch 144cc Gas Powered 3-in-1 Walk-Behind Push Lawn Mower User Manual

Model: 18-inch | Brand: PowerSmart

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your PowerSmart 18-Inch 144cc Gas Powered 3-in-1 Walk-Behind Push Lawn Mower. Please read this manual thoroughly before assembly, operation, or maintenance to ensure proper use and to prevent injury or damage.

## 2. SAFETY INFORMATION

Always wear appropriate personal protective equipment (PPE) including eye protection, hearing protection, and sturdy footwear when operating the lawn mower. Ensure the area is clear of debris, children, and pets before starting. Never operate the mower in wet conditions or on excessively steep slopes. Always disengage the blade and turn off the engine before performing any maintenance or clearing blockages.

## 3. SETUP

### 3.1 Unpacking and Handle Assembly

Your PowerSmart lawn mower is designed for easy assembly with no tools required. Simply unfold the handle and secure it into the operating position. Ensure all locking mechanisms are fully engaged before use.



**EASY TO ASSEMBLE**  
**JUST UNFOLD THE HANDLE**

Figure 3.1: The lawn mower with its handle unfolded, demonstrating the easy assembly process.

### 3.2 Adding Engine Oil

Before first use, add the included 10W30 oil to the engine. Locate the oil fill cap/dipstick on the engine. Remove it, and slowly pour the oil until it reaches the top mark on the dipstick. Do not overfill. Securely replace the cap.



Figure 3.2: Detailed view of the 144cc 4-stroke OHV engine, highlighting the oil fill location.

### 3.3 Adding Fuel

Fill the fuel tank with fresh, unleaded gasoline. Do not use E85 or E15 fuel. Always fill the tank in a well-ventilated area with the engine off and cool. Avoid spilling fuel.

### 3.4 Attaching Grass Bag or Side Discharge Chute

Your mower offers 3-in-1 functionality: bagging, mulching, and side discharge. For bagging, attach the easy-to-empty rear bag to the rear discharge opening. For side discharge, lift the side discharge cover and insert the side discharge chute. For mulching, ensure both the bag and side discharge chute are removed and the mulching plug (if included) is installed.





Figure 3.3: Visual representation of the 3-in-1 cutting features, including rear bagging, side discharge, and mulching capabilities.

### 3.5 Adjusting Cutting Height

The mower features a 6-position dual lever height adjustment, allowing cutting heights from 1.5 inches to 3.9 inches. Adjust the levers on each wheel to your desired cutting height. Ensure all wheels are set to the same height for an even cut.

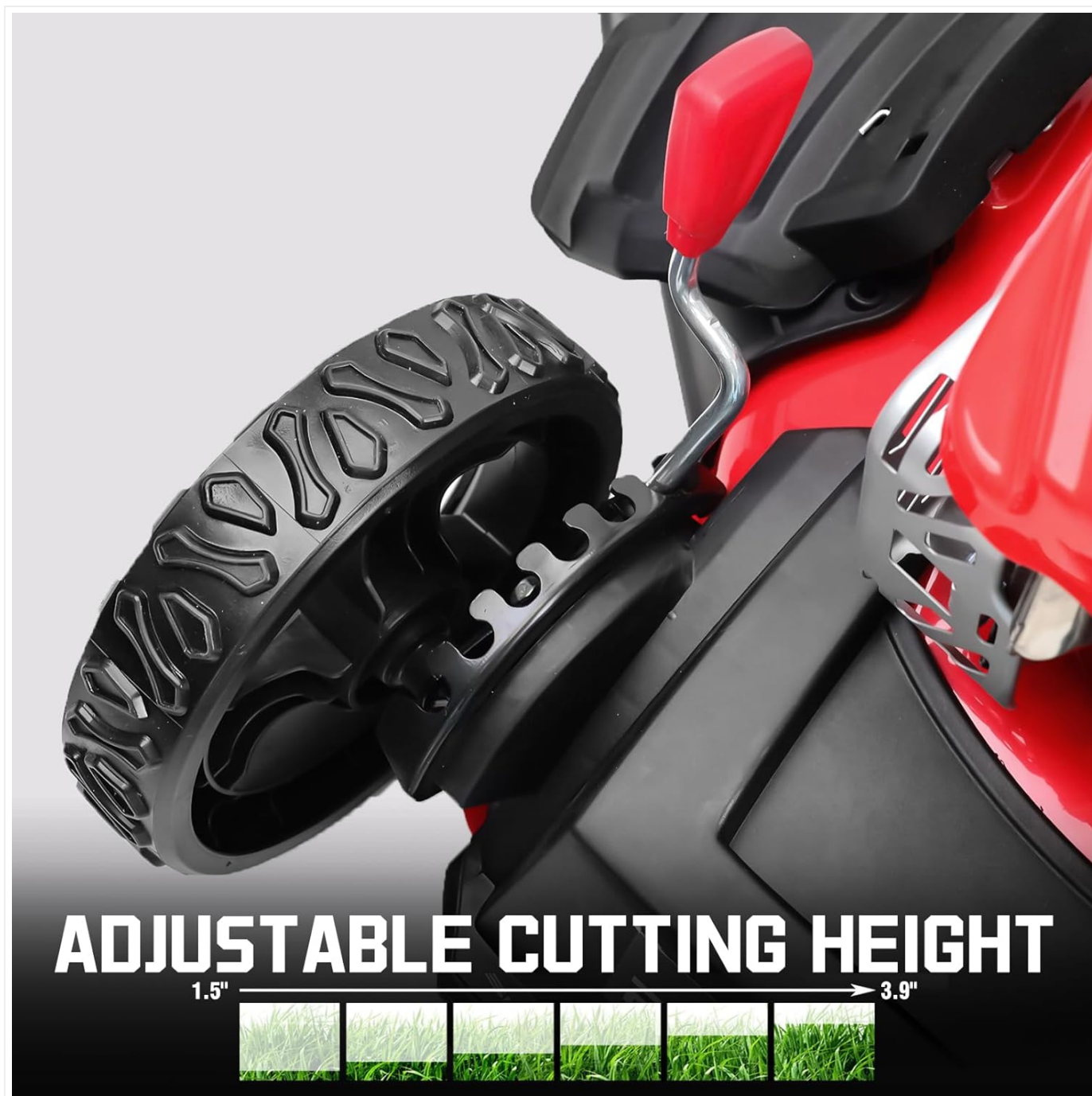


Figure 3.4: Detail of the adjustable cutting height mechanism, illustrating the range of 1.5 to 3.9 inches.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Starting the Engine

To start the 144cc 4-cycle OHV engine, ensure the auto choke is engaged. Pull the recoil starter cord firmly and smoothly until the engine starts. The engine is designed for easy starting, often with a single pull.





Figure 4.1: The PowerSmart 18-inch gas powered lawn mower, ready for operation.

## 4.2 Mowing Techniques

For best results, mow when the grass is dry. Overlap cutting paths slightly to ensure an even cut. The 18-inch durable steel deck and heavy blade provide ultra-fine cuts. The vortex tunnel design disperses grass clippings evenly when mulching. The durable 7-inch wheels provide easy maneuverability in tight spaces.



Figure 4.2: View of the 18-inch cutting width and blade, designed for clean and even cuts.

### 4.3 Safety During Operation

Always maintain a firm grip on the ergonomic handle. The mower is equipped with a safety release mechanism; releasing the handle will stop the engine and blade. Never attempt to clear the discharge chute or grass bag while the engine is running.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your lawn mower. Always disconnect the spark plug wire before performing any maintenance.

### 5.1 General Cleaning

After each use, clean grass clippings and debris from the mower deck and wheels. The durable steel deck is built to last, but regular cleaning prevents buildup and corrosion.





Figure 5.1: The lawn mower in use, showcasing its durable steel deck construction.

## 5.2 Oil Level Check

Check the engine oil level before each use. Add oil if necessary to maintain the proper level on the dipstick.

## 5.3 Blade Inspection and Sharpening

Inspect the cutting blade regularly for sharpness and damage. A dull blade can tear grass, leading to an unhealthy lawn. Sharpen or replace the blade as needed. Refer to the parts diagram for blade identification.

## 5.4 Air Filter and Spark Plug

Periodically inspect and clean the air filter. A clogged air filter can reduce engine performance. Check the spark plug for wear and proper gap; replace if necessary. Refer to the parts diagram for part numbers.



# KEEP IT RUNNING

## DV8618P



Figure 5.2: Detailed parts diagram for the PowerSmart DV8618P lawn mower, useful for maintenance and replacement.

### 5.5 Storage

When storing the mower for extended periods, ensure the fuel tank is empty or treated with a fuel stabilizer. Clean the mower thoroughly. The mower's design allows for 60% less space in storage by folding the handle, making it compact for garages or sheds.



Figure 5.3: The lawn mower folded into a compact position, illustrating its space-saving storage capability.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine will not start	No fuel or old fuel Oil level too low Spark plug faulty Safety bar not engaged	Add fresh fuel Fill oil to proper level Clean/replace spark plug Hold safety bar against handle
Uneven cut	Dull or bent blade Uneven wheel height adjustment	Sharpen or replace blade Adjust all wheels to same height setting
Excessive vibration	Loose blade Bent crankshaft	Tighten blade bolt Contact qualified service technician



Problem	Possible Cause	Solution
Engine runs rough	Clogged air filter Stale fuel	Clean or replace air filter Drain old fuel, add fresh fuel

## 7. SPECIFICATIONS

Feature	Detail
Brand	PowerSmart
Model	18-inch
Power Source	Gasoline-Powered
Engine	144cc 4-cycle OHV
Cutting Width	18 Inches
Cutting Height Positions	6 (1.5 to 3.9 inches)
Operation Mode	Manual Push
Material	Iron
Color	Red
Item Weight	55 Pounds
Product Dimensions	57.8"D x 20"W x 36.8"H
UPC	840432700365

## 8. WARRANTY AND SUPPORT

For warranty information, replacement parts, or technical support, please contact PowerSmart customer service. PowerSmart has over 500 certified repair centers in the U.S. and provides full replacement parts through its IL headquarters. Please refer to the product packaging or the official PowerSmart website for the most current contact details. You can visit the PowerSmart Store for more information: [PowerSmart Store on Amazon](#)

