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› AMERISUN 21-inch 144cc 3-in-1 Gas Push Lawn Mower Instruction Manual

AMERISUN AV8621P1

AMERISUN 21-inch 144cc 3-in-1 Gas Push Lawn Mower Instruction Manual

Model: AV8621P1 | Brand: AMERISUN

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your AMERISUN 21-inch 144cc 3-in-1 Gas Push Lawn Mower. Please read this manual thoroughly before operating the equipment and retain it for future reference.

The AMERISUN 21-inch 144cc 3-in-1 Gas Push Lawn Mower is designed for residential lawn care, offering versatile mowing options including bagging, mulching, and side discharge. It features a powerful 144cc 4-stroke OHV engine, a durable 21-inch steel deck, and convenient single-lever height adjustment.



Figure 1: Front view of the AMERISUN 21-inch 144cc 3-in-1 Gas Push Lawn Mower.

2. SAFETY INFORMATION

Always prioritize safety when operating the lawn mower. Failure to follow safety instructions can result in serious injury or property damage.

- Read and understand all instructions in this manual before operating the mower.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, long pants, and sturdy footwear.
- Keep hands, feet, and clothing away from moving parts, especially the rotating blade.
- Ensure the work area is clear of debris, rocks, and other objects that could be thrown by the blade.
- Never operate the mower in wet grass or adverse weather conditions.

- Do not allow children or untrained individuals to operate the mower.
- Turn off the engine and disconnect the spark plug wire before performing any maintenance, adjustments, or clearing clogs.
- Refuel in a well-ventilated area with the engine off and cool. Avoid spilling fuel.

3. COMPONENTS AND PARTS IDENTIFICATION

Familiarize yourself with the various components of your lawn mower for proper operation and maintenance.



Figure 2: Illustration of the 3-in-1 cutting feature, showing bagging, mulching, and side discharge options.



Figure 3: Key components of the lawn mower, including the Recoil Starter Handle, Engine Start/Stop Control, Rear Discharge Door, Grass Catcher, 7-inch Front Wheel, 10-inch Rear Wheel, Cutting Height Adjustment Lever, Side Discharge Chute, and Oil Dipstick.

4. SETUP AND ASSEMBLY

Your AMERISUN lawn mower requires minimal assembly. The main components are pre-assembled for your convenience.

4.1 Handle Assembly

Unfold the handle and secure it in the operating position using the provided knobs or levers. Ensure all connections are tight and secure.

4.2 Grass Catcher Attachment

To attach the grass catcher, lift the rear discharge door and hook the grass catcher onto the mower frame. Ensure it is securely seated to prevent grass clippings from escaping.

4.3 Adding Oil and Fuel

Before first use, add engine oil and gasoline. Refer to the engine manual for specific oil type and capacity. Use fresh, unleaded gasoline with an octane rating of 87 or higher.

- **Engine Oil:** Locate the oil fill cap/dipstick. Add the recommended amount of 4-stroke engine oil. Do not overfill.
- **Fuel:** Fill the fuel tank with gasoline. Do not overfill and ensure the fuel cap is securely tightened.

Your browser does not support the video tag.

Video 1: This video demonstrates the assembly process and initial setup, including adding oil and fuel, for a similar PowerSmart lawn mower. It provides a visual guide for preparing your mower for first use.

5. OPERATING INSTRUCTIONS

5.1 Adjusting Cutting Height

The mower features a single-lever height adjustment system with six positions, ranging from 1.5 inches to 3.9 inches. To adjust, simply move the lever to your desired cutting height.



Figure 4: Visual representation of the 6-position cutting height adjustment lever, ranging from 1.5 inches to 3.9 inches.

5.2 Starting the Engine

Ensure the fuel tank is filled and the oil level is correct. The 144cc OHV 4-stroke engine features auto choke for simplified starting.

- Firmly grasp the engine start/stop control bar against the handle.
- Pull the recoil starter handle quickly and smoothly until the engine starts.
- Once the engine is running, release the recoil starter handle slowly.

5.3 Mowing Modes (3-in-1 Functionality)

Your mower offers three versatile mowing modes:

- **Bagging:** Attach the 1.4-bushel grass catcher to collect clippings.
- **Mulching:** Remove the grass catcher and side discharge chute. The mower will finely chop grass clippings and return them to the lawn as natural fertilizer.
- **Side Discharge:** Attach the side discharge chute to direct clippings away from the mower.

Your browser does not support the video tag.

Video 2: This video provides an overview of the 21-inch Gas Lawn Mower's 3-in-1 capabilities, demonstrating how to switch between bagging, mulching, and side discharge modes.

6. 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.

6.1 Engine Maintenance

- **Oil Check:** Check the engine oil level before each use. Add oil if necessary.
- **Air Filter:** Clean or replace the air filter regularly, especially in dusty conditions.
- **Spark Plug:** Inspect and clean the spark plug annually. Replace if worn.

6.2 Blade Maintenance

The mower features a durable 21-inch steel cutting deck. Inspect the blade regularly for sharpness and damage.



Figure 5: Close-up view of the durable 21-inch steel cutting deck and blade.

- **Sharpening:** Sharpen the blade as needed to ensure a clean cut. A dull blade can tear grass, leading to an unhealthy lawn.
- **Replacement:** Replace bent or damaged blades immediately.

6.3 Cleaning and Storage

Clean the mower deck after each use to prevent grass buildup. Store the mower in a dry, well-ventilated area.

POWERFUL 4-STROKE OHV ENGINE

Gas Powered



144 CC



Figure 6: Front view of the lawn mower, showing the deck area that requires regular cleaning.



Figure 7: The overall design of the mower, which can be folded for compact storage.

7. TROUBLESHOOTING

This section provides solutions to common operating problems. If you encounter issues not covered here, contact customer support.

Problem	Possible Cause	Solution
Engine will not start	No fuel; old fuel; spark plug issue; engine start/stop control not engaged.	Add fresh fuel; replace spark plug; ensure control bar is held against handle.

Problem	Possible Cause	Solution
Mower cuts unevenly	Dull or bent blade; uneven wheel height settings.	Sharpen or replace blade; ensure all wheels are set to the same height.
Excessive vibration	Bent or unbalanced blade; loose engine mounting bolts.	Inspect and replace blade if necessary; tighten all fasteners.
Engine loses power	Clogged air filter; low oil level; old fuel.	Clean/replace air filter; check/add oil; use fresh fuel.

8. SPECIFICATIONS

- **Brand:** AMERISUN
- **Model Number:** AV8621P1
- **Power Source:** Gas Powered
- **Engine:** 144cc 4-Stroke OHV Engine with Auto Choke
- **Cutting Width:** 21 Inches
- **Cutting Height Adjustments:** 6 positions (1.5" to 3.9")
- **Mowing Modes:** 3-in-1 (Bagging, Mulching, Side Discharge)
- **Grass Catcher Capacity:** 1.4 Bushels
- **Front Wheels:** 7 Inches
- **Rear Wheels:** 10 Inches
- **Material:** Alloy Steel Deck
- **Item Weight:** 68.9 pounds (31.3 Kilograms)
- **Product Dimensions:** 32.9"D x 16.5"W x 22.6"H
- **UPC:** 840432711019

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product. For customer support, contact AMERISUN directly or visit their official website.

- **2-Year Protection Plan:** Available for purchase.
- **3-Year Protection Plan:** Available for purchase.
- **Complete Protect:** Monthly plan covering eligible purchases.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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

Answered questions about this manual

What is the factory warranty for the AMERISUN AV8621P1 21-inch 144cc push mower?

The specific duration and terms of the factory warranty for the AMERISUN AV8621P1 are not explicitly detailed in the instruction manual text. However, the documentation provides the following guidance: Check Included Documentation: For specific warranty...

[Read full answer](#)