

Alloyman ABST21

Alloyman 40V MAX Cordless String Trimmer & Edger

Model: ABST21

1. IMPORTANT SAFETY INFORMATION

Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury. Save all warnings and instructions for future reference.

- **Personal Safety:** Always wear eye protection, heavy long pants, long sleeves, gloves, and sturdy footwear. Do not operate the trimmer barefoot or in open sandals.
- **Work Area Safety:** Keep children, bystanders, and pets at least 50 feet (15 meters) away from the operating area. Clear the work area of any debris, rocks, or other objects that could be thrown by the cutting line.
- **Electrical Safety:** Use only the specified battery packs and charger. Do not expose battery-powered tools to rain or wet conditions.
- **Tool Operation:** Never operate the trimmer with damaged guards or without guards in place. Hold the tool firmly with both hands. Avoid accidental starting; ensure the switch is in the off position before inserting the battery pack.
- **Maintenance:** Disconnect the battery pack before making any adjustments, changing accessories, or storing the tool.

2. PRODUCT OVERVIEW

The Alloyman 40V MAX Cordless String Trimmer and Edger (Model ABST21) is a versatile 2-in-1 tool designed for efficient lawn and garden maintenance. It features a powerful brushless motor, a wide 13.4-inch cutting range, and dual 4.0Ah batteries for extended runtime.



Figure 2.1: Internal view of the upgraded brushless motor, highlighting its components for increased power and durability.

Key features include:

- **40V High-Performance Brushless Motor:** Delivers up to 5100 RPM for efficient cutting, with reduced friction and heat for longer tool life.
- **13.4-inch Cutting Range:** Covers more ground with each pass, speeding up work.
- **Dual 4.0Ah Batteries:** Two 20V 4.0Ah batteries provide robust 40V power and extended runtime.
- **2-in-1 Functionality:** Easily converts between string trimmer and brush cutter modes.
- **Ergonomic Design:** Features an adjustable handle, shoulder strap, and lightweight aluminum shaft for comfortable operation.
- **Dual Speed Settings:** Allows adjustment of cutting power to match different tasks.
- **Rapid Line Feed System:** Bump-feed mechanism for quick line advancement.

3. SETUP AND ASSEMBLY

Before first use, ensure all components are present and undamaged. Refer to the included components image for verification.



Figure 3.1: Included components: Cordless String Trimmer, 2 x 4.0Ah Batteries, Fast Charger, Shoulder Strap, Brush Cutter, Manual, Nylon Twisted Line, Protection Glasses, Hearing Protector.

3.1 Battery Charging

1. Insert the 4.0Ah battery packs into the fast charger.
2. Plug the charger into a standard power outlet.
3. Allow batteries to charge fully before first use. The charger indicator light will change when charging is complete.



Figure 3.2: The dual 4.0Ah battery system provides robust power and extended runtime.

3.2 Handle and Shaft Assembly

1. Attach the adjustable auxiliary handle to the main shaft. Ensure the handle is positioned for comfortable operation.
2. Tighten the handle securely using the provided fasteners.

ERGONOMIC & DURABLE BUILD



Shoulder Strap



Adjustable Handle



Aluminum Shaft



Figure 3.3: The adjustable handle and shoulder strap enhance user comfort and control.

3.3 Guard Installation

Securely attach the debris guard to the trimmer head assembly. This guard protects the user from thrown debris during operation. Ensure it is firmly in place before use.

3.4 Cutting Head Installation (Trimmer Line or Brush Cutter)

The tool supports both string trimmer line and a brush cutter blade.

- **For String Trimmer:** Ensure the pre-installed 2.4mm nylon twisted line is correctly spooled in the rapid line feed head.
- **For Brush Cutter:** If using the brush cutter, remove the string trimmer head and install the brush cutter blade according to the instructions provided with the blade.



Figure 3.4: The trimmer can be configured for string trimming or brush cutting.

3.5 Shoulder Strap Attachment

Attach the shoulder strap to the designated mounting point on the trimmer shaft. Adjust the strap length for comfortable and balanced operation, reducing user fatigue.

4. OPERATING INSTRUCTIONS

Always wear appropriate personal protective equipment (PPE) including eye protection, hearing protection, and sturdy clothing before operating the trimmer.

4.1 Starting and Stopping the Trimmer

1. Ensure the battery packs are fully charged and securely inserted into the tool.
2. To start, press and hold the safety lock switch, then squeeze the trigger.
3. To stop, release the trigger. The safety lock switch will automatically reset.

4.2 Speed Settings

The trimmer features two speed settings to optimize power for different tasks.



Figure 4.1: Select between low and high speed settings using the control switch.

- **Low Speed:** Suitable for lighter trimming tasks and to conserve battery life.
- **High Speed:** Provides maximum power for tackling dense weeds and tougher grass.

4.3 Trimming and Edging Techniques

For best results, use a sweeping motion, moving the trimmer from side to side. Maintain a consistent height above the ground.



Figure 4.2: The 13.4-inch cutting range allows for efficient trimming.

- **Trimming:** Hold the trimmer at a slight angle, allowing the tip of the line to do the cutting.
- **Edging:** Rotate the trimmer head to a vertical position (if applicable, refer to specific model features) and guide the line along the edge of sidewalks or driveways.

4.4 Rapid Line Feed System

To advance the cutting line, gently tap the trimmer head on the ground while the tool is running. The rapid line feed system will automatically extend the line.

RAPID LINE FEED SYSTEM

WITH 2.4MM NYLON TWISTED LINE



Figure 4.3: Bump the trimmer head to advance the cutting line.

4.5 Brush Cutting

When using the brush cutter blade, approach dense vegetation slowly. Use a controlled, sweeping motion. Be aware of kickback and maintain a firm grip on the tool.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your tool. Always remove the battery pack before performing any maintenance.

5.1 Cleaning

- After each use, clean the tool with a damp cloth. Remove any grass, dirt, or debris from the cutting head, guard, and motor housing vents.
- Do not use solvents or harsh chemicals, as these can damage plastic parts.

5.2 Line Replacement

When the cutting line becomes too short or breaks, it needs to be replaced. Use only 2.4mm nylon twisted line.

1. Remove the battery pack.
2. Follow the instructions on the trimmer head to open it and remove any remaining line.
3. Cut a new length of 2.4mm nylon twisted line (refer to manual for exact length).
4. Feed the new line through the designated holes and wind it evenly onto the spool.
5. Reassemble the trimmer head, ensuring it is secure.

5.3 Brush Cutter Blade Inspection/Replacement

Regularly inspect the brush cutter blade for damage, dullness, or cracks. A damaged blade can be dangerous and should be replaced immediately. Follow manufacturer instructions for safe blade replacement.

5.4 Battery Care and Storage

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store batteries in a discharged state for extended periods. Charge them periodically if not in use.
- Always remove batteries from the tool before storage.

6. TROUBLESHOOTING

If you encounter issues with your Alloyman trimmer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Trimmer does not start	Battery not charged or improperly inserted; Safety lock not engaged; Trigger not pressed.	Charge battery, ensure it's fully inserted; Engage safety lock before pressing trigger.
Cutting line does not advance	Line tangled or empty; Trimmer head not bumped correctly.	Replace or untangle line; Bump head firmly on ground while running.
Reduced cutting power	Battery low; Wrong speed setting; Overgrown vegetation.	Recharge battery; Select high speed; Cut in smaller passes.
Excessive vibration	Damaged or unbalanced cutting head/blade; Loose components.	Inspect cutting head/blade for damage and replace if necessary; Check all fasteners for tightness.

If the problem persists after attempting these solutions, please contact Alloyman customer support.

7. SPECIFICATIONS

Feature	Specification
Model Number	ABST21
Power Source	Battery Powered (40V MAX)

Feature	Specification
Motor Type	Brushless
Speed	Up to 5100 RPM
Cutting Width	13.4 inches
Battery Type	Lithium Ion (2 x 4.0Ah, 20V each)
Line Diameter	2.4mm Nylon Twisted Line
Item Weight	16 pounds
Item Dimensions (L x W)	39"L x 9.9"W

8. WARRANTY AND SUPPORT

Alloyman products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your product or visit the official Alloyman website.

For technical assistance, replacement parts, or any questions not covered in this manual, please contact Alloyman customer support through their official channels. Have your model number (ABST21) and purchase date ready when contacting support.

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