

Alloyman reciprocating saws-001

Alloyman 20V Cordless Reciprocating Saw User Manual

Model: reciprocating saws-001

1. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating this power tool. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

General Power Tool Safety

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection, hearing protection, and appropriate respiratory protection. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source and/or remove the battery pack before making any adjustments, changing accessories, or storing power tools.

Battery Tool Use and Care

- Recharge only with the charger specified by the manufacturer.
- Use power tools only with specifically designated battery packs.
- When the battery pack is not in use, keep it away from other metal objects.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, seek medical help.

Specific Reciprocating Saw Safety

- **Blade Safety:** Ensure the blade is securely installed before operation. Always use sharp blades.
- **Material Safety:** Avoid cutting damp wood to protect the motor and prevent kickback.
- **Secure Workpiece:** Always secure the workpiece to prevent movement during cutting.
- **Safety Lock:** Utilize the safety lock button to prevent accidental starts.

2. PRODUCT COMPONENTS

The Alloyman 20V Cordless Reciprocating Saw kit includes the following items:

- 1 x Alloyman Cordless Reciprocating Saw
- 2 x 20V 2.0Ah Lithium-Ion Batteries
- 1 x 0.5Ah Battery Charger
- 5 x Saw Blades (various types for wood, metal, PVC)
- 1 x Clamping Jaw
- 1 x User Manual (this document)
- 1 x Tool Box



Figure 2.1: An overview of the Alloyman 20V Cordless Reciprocating Saw kit, including the saw body, two 20V batteries, a charger, and a selection of saw blades for different materials.

ALLOYMAN Reciprocating Saw Tool

- 1× Reciprocating Saw
- 2× 20V 2.0AH Batteries
- 5× Blades
- 1× Charger
- 1× Clamping Jaw
- 1× User Manual
- 1× Tool Box



Figure 2.2: A complete view of the package contents: one reciprocating saw, two 20V 2.0Ah batteries, five saw blades, one charger, one clamping jaw, and the user manual, all within a tool box.

3. SETUP

3.1 Battery Charging

Before first use, fully charge both 20V 2.0Ah Lithium-Ion batteries. The included 0.5Ah charger is designed for this purpose.

1. Connect the charger to a standard power outlet.
2. Slide the battery pack onto the charger until it clicks into place.
3. Observe the charger's indicator light for charging status. Refer to the charger's specific instructions for light indications.
4. Once fully charged, remove the battery from the charger.

POWERFUL & DURABLE MOTOR

Built For Reliable and Long-
Lasting Performance

Strokes Length

3/4 inch

Variable Speed

0-3500 SPM



Figure 3.1: Two 20V 2.0Ah Lithium-Ion batteries are included, designed for extended runtime and featuring high cycle life, efficient cooling, and 360-degree cell protection.

3.2 Battery Installation

To install the battery into the saw:

1. Align the battery pack with the battery port on the bottom of the saw handle.
2. Slide the battery into the port until it clicks securely into place. Ensure it is fully seated to prevent accidental disconnection during operation.

3.3 Blade Installation (Tool-Free)

The saw features a tool-free blade change system for quick and easy blade swaps.

1. **Rotate the Locking Collet:** Locate the locking collet near the blade clamp. Rotate it counter-clockwise to open the blade clamp.
2. **Insert the Saw Blade:** Insert the shank of the desired saw blade fully into the blade clamp opening.
3. **Secure the Blade:** Release the locking collet. It will automatically spring back and secure the blade. Gently pull on the blade to ensure it is firmly locked in place.

TOOL-FREE BLADE CHANGE



Rotate the locking collet



Insert the saw blade



Installation Complete

Figure 3.2: A visual guide demonstrating the tool-free blade change mechanism: rotate the locking collet, insert the saw blade, and release the collet for secure installation.

3.4 Clamping Jaw Installation

The clamping jaw can be attached for increased stability when cutting certain materials.

1. Align the clamping jaw with the mounting points on the front shoe of the saw.
2. Secure the clamping jaw by pushing it into place until it locks. Ensure it is stable and does not wobble.



Figure 3.3: The clamping jaw accessory provides a firm grip on the workpiece, ensuring steady and precise cuts, particularly useful for materials like wood or branches.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off (Safety Switch)

The saw is equipped with a safety lock button to prevent unintentional starting.

1. **To Start:** Press and hold the safety lock button (usually located near the trigger). While holding the safety button, depress the trigger switch to start the saw.
2. **To Stop:** Release the trigger switch. The saw will stop, and the safety lock button will reset.



Figure 4.1: This image highlights the safety lock button and trigger mechanism, designed to prevent accidental starts and ensure safe operation of the saw.

4.2 Variable Speed Control

The saw features variable speed control, allowing adjustment from 0 to 3500 Strokes Per Minute (SPM). The speed is controlled by the pressure applied to the trigger switch.

- Light pressure on the trigger results in lower speeds, suitable for starting cuts or delicate materials.
- Increased pressure on the trigger increases the speed, providing faster cutting for tougher materials.

4.3 Cutting Techniques

Select the appropriate blade for the material being cut. Ensure the workpiece is stable and secured.

- **Wood Cutting:** Use coarse-toothed blades. Apply steady pressure and allow the saw to do the work.
- **Branch Cutting:** The clamping jaw can be particularly useful for stabilizing branches. Use wood-specific blades.
- **Metal Cutting:** Use fine-toothed metal-cutting blades. Apply cutting oil if necessary to prolong blade life and improve cut quality.
- **PVC Pipe Cutting:** Use appropriate blades for plastic. Maintain a steady hand to prevent the pipe from cracking.

CLAMPING JAW FOR SMOOTH CUTS

Firm Grip Ensures Steady
Cuts Every Time



Figure 4.2: The saw is demonstrated performing various cutting tasks, including wood, branches, metal, and PVC pipes, showcasing its versatility with different blade types.

4.4 LED Worklight

The saw includes an integrated LED worklight that illuminates the cutting area, improving visibility in dimly lit conditions.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your reciprocating saw.

5.1 Cleaning

- After each use, disconnect the battery and clean the saw.
- Use a soft cloth to wipe down the exterior of the tool.
- Remove any sawdust, debris, or metal shavings from the blade clamp area and ventilation slots using compressed air or a brush.
- Do not use harsh chemicals or abrasive cleaners.

5.2 Blade Replacement

Refer to Section 3.3 for detailed instructions on tool-free blade installation and removal.

5.3 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. Recharge them periodically if not in use.
- Avoid dropping or physically damaging the battery packs.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Alloyman Reciprocating Saw.

Problem	Possible Cause	Solution
Saw does not start	Battery not charged Battery not properly installed Safety lock button not engaged	Charge the battery fully Ensure battery is clicked into place Press safety lock button before trigger
Reduced cutting performance	Dull or incorrect blade Overloading the tool Low battery charge	Replace with a sharp, appropriate blade Reduce cutting pressure; allow tool to work Recharge battery
Tool overheats or smokes	Continuous heavy use Cutting damp or excessively hard material Blocked ventilation slots	Allow tool to cool down; reduce load Avoid cutting damp wood; use appropriate blades Clean ventilation slots to ensure proper airflow
Battery not charging	Charger not plugged in Faulty battery or charger Extreme temperature	Check power connection Contact customer support if issue persists Charge in a moderate temperature environment

7. SPECIFICATIONS

Key technical specifications for the Alloyman 20V Cordless Reciprocating Saw:

- **Model:** reciprocating saws-001
- **Brand:** Alloyman
- **Power Source:** Battery Powered
- **Voltage:** 20 Volts (DC)
- **Motor Speed:** 0-3500 SPM (Strokes Per Minute) Variable Speed
- **Stroke Length:** 3/4 inch
- **Battery Type:** Lithium Ion
- **Battery Capacity:** 2 x 2.0Ah
- **Charger Output:** 0.5Ah
- **Item Weight:** Approximately 3 pounds (without battery)
- **Blade Material:** Stainless Steel (for included blades)
- **Product Dimensions:** 10"L x 10"W x 10"H (approximate)



Figure 7.1: This image displays the internal motor mechanism of the Alloyman Reciprocating Saw, illustrating its design for reliable and long-lasting performance with a variable speed range of 0-3500 SPM and a 3/4 inch stroke length.

8. WARRANTY AND SUPPORT

The Alloyman 20V Cordless Reciprocating Saw comes with a **12-Month Warranty**.

For any questions, technical support, or warranty claims, please contact Alloyman customer service:

- **Email:** ceo@alloyman.us

Please have your model number (reciprocating saws-001) and purchase date available when contacting support.