

Westfalia WSX 18-110

X-SAW One-Handed Chainsaw WSX 18-110

USER MANUAL - WESTFALIA

1. Introduction

Thank you for choosing the Westfalia X-SAW WSX 18-110 One-Handed Chainsaw. This cordless multi-tool is designed for versatile use, ideal for interior construction tasks such as shortening sub-constructions, as well as outdoor applications like cutting trees and shrubs. Equipped with a titanium-armored saw chain, it ensures optimal cutting results. Its balanced design and vibration-free operation guarantee effortless work. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your X-SAW.

2. Important Safety Instructions

Always read and understand 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.

- **Work Area Safety:** Keep 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. Power tools create sparks which may ignite the dust or fumes. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Chainsaw Specific Safety:**
 - Always hold the chainsaw firmly with both hands when the engine is running.
 - Ensure proper footing and balance. Do not overreach.
 - Do not operate the chainsaw with one hand unless specifically designed for one-handed operation and

you are trained to do so. (Note: This model is designed for one-handed use, but caution is still paramount).

- Be aware of kickback. Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut.
- Wear appropriate protective clothing, including gloves, safety glasses, hearing protection, and sturdy footwear.
- Never allow children to operate the chainsaw.
- Before each use, inspect the chainsaw for damaged parts, loose screws, or any other condition that may affect its safe operation.

3. Product Overview and Components

The Westfalia X-SAW WSX 18-110 is a compact and powerful one-handed chainsaw. Familiarize yourself with its main components:



Figure 3.1: Front view of the Westfalia X-SAW WSX 18-110 one-handed chainsaw, showing the main body, chain, guide bar, and an accompanying oil bottle.



Figure 3.2: Side view of the Westfalia X-SAW WSX 18-110, illustrating the ergonomic handle, trigger, and the battery slot with a 4.0 Ah battery attached.

1. **Guide Bar:** Supports and guides the saw chain.
2. **Saw Chain:** The cutting element, featuring titanium-armored teeth for durability.
3. **Hand Guard:** Provides protection for the user's hand.
4. **Handle/Grip:** Ergonomically designed for comfortable one-handed operation.
5. **Safety Switch:** Prevents accidental starting.
6. **Trigger:** Activates the motor.
7. **Battery Compartment:** For 18V Li-Ion batteries (2 Ah or 4 Ah, sold separately).
8. **Chain Tensioning Mechanism:** For adjusting chain tension.

4. Setup

Before first use, ensure the chainsaw is properly assembled and prepared.



Figure 4.1: The Westfalia X-SAW WSX 18-110 with the battery removed, highlighting the battery slot and overall compact design.

1. Battery Installation:

- Ensure the battery is fully charged before use.
- Align the battery with the battery compartment on the tool.
- Slide the battery into the compartment until it clicks securely into place.
- To remove, press the release button (if present) and slide the battery out.

2. Chain and Guide Bar Assembly (if not pre-assembled):

- Place the chain around the guide bar, ensuring the cutting edges are facing the correct direction (refer to markings on the chain or guide bar).
- Fit the guide bar and chain onto the chainsaw body, engaging the drive sprocket.
- Install the side cover and tighten the retaining nuts/screws loosely.

3. Chain Tensioning:

- Adjust the chain tension using the tensioning screw/knob. The chain should be snug against the guide bar but still able to be pulled freely by hand.
- A properly tensioned chain will not sag on the underside of the guide bar and can be pulled away from the bar by about 2-3 mm at the center.
- Once tension is correct, fully tighten the side cover retaining nuts/screws.

4. Chain Lubrication:

- Fill the oil reservoir (if present) with appropriate chain lubricant. If no automatic oiler, manually apply chain oil to the guide bar groove and chain before each use and periodically during operation.
- The provided oil bottle is for manual application.

5. Operating Instructions

Always wear appropriate personal protective equipment (PPE) before operating the chainsaw.



Figure 5.1: The Westfalia X-SAW WSX 18-110 in action, demonstrating its capability to cut through a wooden beam, with a construction site in the background.

1. Starting the Chainsaw:

- Ensure you have a firm grip on the handle.
- Press and hold the safety switch.
- Squeeze the trigger to start the motor. Release the safety switch once the motor is running.

2. Cutting Techniques:

- **General Cutting:** Place the running chain against the material to be cut. Apply light, steady pressure. Let the saw do the work.
- **Limbing/Pruning:** When cutting branches, be aware of the branch's tension. Cut from the side that will relieve pressure first to avoid pinching the bar.
- **Cross-cutting:** For cutting across the grain of wood. Ensure the workpiece is stable and supported.
- **Avoid Kickback:** Never cut with the tip of the guide bar. Always use the bottom or top edge of the guide bar. Maintain a firm grip and proper stance.

3. Stopping the Chainsaw:

- Release the trigger. The chain will stop quickly.
- Always remove the battery when the chainsaw is not in use, or before performing any maintenance or adjustments.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your X-SAW.

- **Chain Sharpening:** A sharp chain is crucial for efficient and safe cutting. Sharpen the chain regularly or replace it when dull. Refer to specific chain sharpening instructions for your chain type.
- **Chain Lubrication:** Ensure the chain is always well-lubricated. Check the oil level (if applicable) or manually apply oil frequently during operation.
- **Cleaning:** After each use, clean sawdust, chips, and debris from the guide bar groove, chain, and motor housing. Use a brush or compressed air. Ensure the battery is removed before cleaning.
- **Guide Bar Maintenance:** Periodically flip the guide bar to ensure even wear. Clean the guide bar groove to remove any accumulated debris.
- **Storage:** Store the chainsaw in a dry, secure place, out of reach of children. Remove the battery before storage.

7. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Chainsaw does not start.	Battery not charged or not inserted correctly. Safety switch not engaged.	Charge battery. Reinsert battery firmly. Ensure safety switch is pressed before trigger.
Chain does not cut efficiently.	Dull chain. Incorrect chain tension. Insufficient lubrication.	Sharpen or replace chain. Adjust chain tension. Apply chain oil.
Chainsaw overheats.	Overloading the tool. Blocked ventilation slots.	Reduce cutting pressure. Clear ventilation slots. Allow tool to cool down.
Excessive vibration.	Loose chain. Damaged chain or guide bar.	Adjust chain tension. Inspect chain and guide bar for damage and replace if necessary.

8. Specifications

Key technical specifications for the Westfalia X-SAW WSX 18-110.

Feature	Specification
Manufacturer	Westfalia
Model Number	WSX 18-110 (Part Number: 932593)
Product Dimensions	46 x 18 x 16 cm
Weight	2.07 kg
Power Source	Battery Powered
Voltage	18 Volt
Blade Length (Guide Bar)	180 Millimeter
Cutting Length	110 mm

Feature	Specification
Recommended Surface	Wood, Plastic
First Available Date	January 15, 2020

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or contact Westfalia customer service directly. Keep your proof of purchase for warranty claims.

For further assistance, visit the official Westfalia website or contact their customer support line. Always provide your product model number (WSX 18-110) and serial number (if applicable) when seeking support.