

STAYER SCE1650WMC

Stayer SCE 1650 WMC Miter Saw User Manual

Model: SCE1650WMC | Brand: STAYER

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Stayer SCE 1650 WMC Miter Saw. This versatile tool is designed for precise cutting of various materials including iron, aluminum, plastic, and wood. Please read this manual thoroughly before initial use and keep it for future reference.

2. SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury.

- **Read All Instructions:** Familiarize yourself with the tool's controls and proper use.
- **Wear Eye Protection:** Always wear safety goggles or safety glasses with side shields.
- **Wear Hearing Protection:** Use earplugs or earmuffs during operation.
- **Secure Workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during cutting.
- **Keep Hands Clear:** Never place hands near the cutting blade.
- **Maintain a Clean Work Area:** Cluttered areas invite accidents.
- **Do Not Operate in Explosive Atmospheres:** Do not use power tools in the presence of flammable liquids or gases.
- **Unplug Before Adjustments:** Always disconnect the saw from the power source before making any adjustments, changing accessories, or performing maintenance.
- **Use the Correct Blade:** Ensure the blade is appropriate for the material being cut and is sharp and undamaged.
- **Avoid Overreaching:** Maintain proper footing and balance at all times.

3. PRODUCT OVERVIEW

The Stayer SCE 1650 WMC is a robust miter saw featuring a durable aluminum base and upper table. It includes an electronic speed variator for optimized cutting across different materials.



Figure 1: Overview of the Stayer SCE 1650 WMC Miter Saw. This image shows the complete miter saw unit, highlighting its red base, silver cutting table, and the main motor housing with the blade guard. The adjustable fence and clamping mechanisms are also visible.

Key Components:

- **Aluminum Base and Upper Table:** Provides stability and durability.
- **Electronic Variator:** Allows adjustment of blade speed.
- **Tilting Mechanism:** Enables bevel cuts up to 45°.
- **Swiveling Table:** Features self-locking positions for miter cuts at 22.5°, 45°, and 90°.
- **Dust Extraction Port:** For connecting a dust collection system.

4. SETUP

Before operating the miter saw, ensure it is properly set up and secured.

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all included items are present: SCE 1650 WMC miter saw, Widia TCT Z-52 blade, parallel guide, 2 horizontal clamps, and service wrench.
2. **Mounting:** Securely mount the miter saw to a stable workbench using appropriate fasteners.
3. **Blade Installation:** Ensure the Widia TCT Z-52 blade ($\varnothing 254 \times 3 \times 30$ mm) is correctly installed and tightened according to the instructions provided with the blade. Always unplug the saw before installing or changing blades.
4. **Parallel Guide and Clamps:** Install the parallel guide and horizontal clamps as needed for your specific cutting task to secure the workpiece.
5. **Dust Extraction:** Connect a suitable dust extraction system to the designated port to maintain a clean work environment.

5. OPERATING INSTRUCTIONS

The Stayer SCE 1650 WMC is designed for precise cuts in various materials. Always ensure the workpiece is stable and secured before cutting.

5.1. Power and Speed Control

- The saw operates at 1600W power.

- Use the electronic variator to adjust the no-load speed between 2500 and 4000 RPM (Giri/min) depending on the material being cut. Lower speeds are generally suitable for harder materials or larger cuts, while higher speeds are for softer materials or finer finishes.

5.2. Making Cuts

1. **Straight Cuts (0°):** Position the workpiece against the fence. Ensure the swiveling table is locked at 0°. Maximum cutting capacity: 50 x 100 mm.
2. **Miter Cuts (Angled Horizontal Cuts):** Adjust the swiveling table to the desired angle (e.g., 22.5°, 45°). The table has self-locking positions for common angles. Maximum cutting capacity at 45°: 32 x 100 mm.
3. **Bevel Cuts (Angled Vertical Cuts):** Tilt the saw head up to 45° to the left or right. Maximum cutting capacity at 45° inclined: 150 x 20 mm or 90 x 50 mm.
4. **Compound Cuts (Miter and Bevel):** Combine miter and bevel adjustments for complex angles. Maximum cutting capacity at 45° miter and 45° bevel: 75 x 20 mm.
5. **General Cutting Capacity:**
 - 90° (Straight): 155 x 25 mm / 65 x 77 mm
 - 45° Right/Left (Miter): 103 x 30 mm / 55 x 77 mm
 - 45° Inclined (Bevel): 150 x 20 mm / 90 x 50 mm
 - 45° Compound (Miter & Bevel): 75 x 20 mm
6. **Operation:** Lower the blade slowly into the workpiece, allowing the blade to reach full speed before contact. Apply steady, even pressure. Once the cut is complete, allow the blade to stop rotating before raising it from the workpiece.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Stayer SCE 1650 WMC Miter Saw. Always unplug the tool before performing any maintenance.

- **Cleaning:** Regularly clean dust and debris from the saw, especially around the motor vents, blade guard, and cutting table. Use compressed air for hard-to-reach areas.
- **Blade Inspection:** Inspect the blade before each use for sharpness, cracks, or missing teeth. Replace dull or damaged blades immediately.
- **Brush Inspection:** The motor uses brushes. Periodically inspect the carbon brushes for wear and replace them when they are worn down to their limit. Refer to a qualified service technician if unsure.
- **Lubrication:** Apply light machine oil to moving parts and pivot points as recommended in a more detailed service manual (if available) or as needed to ensure smooth operation.
- **Fastener Check:** Periodically check all nuts, bolts, and screws for tightness. Tighten any loose fasteners.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your miter saw.

Problem	Possible Cause	Solution
Saw does not start	No power supply; faulty switch; worn carbon brushes.	Check power connection and circuit breaker. Test switch. Inspect and replace carbon brushes if necessary.

Problem	Possible Cause	Solution
Excessive vibration or noise	Loose blade; damaged blade; loose mounting bolts; worn bearings.	Tighten blade nut. Replace damaged blade. Tighten mounting bolts. Contact service for bearing replacement.
Blade binds in workpiece	Dull blade; improper feed rate; workpiece not secured; incorrect blade for material.	Replace or sharpen blade. Reduce feed rate. Secure workpiece firmly. Use appropriate blade type.
Inaccurate cuts	Fence or table not properly aligned; loose components.	Check and adjust fence and table alignment. Tighten all adjustable components.

8. SPECIFICATIONS

Technical specifications for the Stayer SCE 1650 WMC Miter Saw:

- **Model:** SCE1650WMC
- **Power:** 1600 W
- **Voltage:** 230 Volt (AC)
- **No-load Speed:** 2500 – 4000 RPM (Giri/min)
- **Blade Diameter:** Ø 254 mm
- **Blade Bore:** 30 mm
- **Blade Material:** Tungsten Carbide (Widia TCT Z-52)
- **Power Source:** Corded Electric
- **Weight:** 16.5 kg
- **Cutting Capacity (Max):**
 - 90° (Straight): 155 x 25 mm / 65 x 77 mm
 - 45° Right/Left (Miter): 103 x 30 mm / 55 x 77 mm
 - 45° Inclined (Bevel): 150 x 20 mm / 90 x 50 mm
 - 45° Compound (Miter & Bevel): 75 x 20 mm

9. WARRANTY

STAYER products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included with your product or visit the official STAYER website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

10. SUPPORT

For technical assistance, spare parts, or service inquiries, please contact your local STAYER dealer or authorized service center. You can also visit the official STAYER website for further support information and contact details.

Website: www.stayer.es (Example, actual URL may vary)

