Kobalt SM1850LW

Kobalt 7-1/4-in Sliding Compound Miter Saw Instruction Manual

Model: SM1850LW | Brand: Kobalt

Product Overview

The Kobalt 7-1/4-in Sliding Compound Miter Saw is designed for precision cutting in various woodworking projects. It features a powerful motor, a laser guide for accurate alignment, and a dual slide rail system for smooth operation. This saw is ideal for tasks such as cutting moulding, framing, and other home improvement projects requiring precise miter, bevel, and compound cuts.



Image: Kobalt 7-1/4-in Sliding Compound Miter Saw with dust bag and blade guard visible.

Important Safety Information

Always read and understand all instructions before operating this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury. Keep this manual for future reference.

- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and a dust mask.
- Ensure the workpiece is securely clamped before making any cuts.
- Keep hands and fingers away from the blade area.

- Always disconnect the power supply before changing blades, performing maintenance, or when the tool is not in use.
- Do not operate the saw in damp or wet conditions.
- Ensure proper ventilation when operating the saw.

Setup

Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the saw for any damage that may have occurred during shipping. Do not operate the tool if any damage is observed. Ensure all listed components are present.

Mounting the Saw

The miter saw should be securely mounted to a stable workbench or a compatible miter saw stand (aluminum stand sold separately). Use appropriate bolts and washers to fasten the saw through the designated mounting holes in its base.



Image: Kobalt 7-1/4-in Sliding Compound Miter Saw mounted on a portable stand. Note: Stand is sold separately.

Blade Installation

Refer to the blade changing instructions provided in the full manual. Always ensure the saw is unplugged before attempting to change the blade. Use the correct blade diameter (7.25 inches) and type for your cutting material.

Laser Guide Adjustment

The integrated laser guide projects a pre-cutting line for precise alignment. While designed for accuracy, it is recommended to perform test cuts and verify the laser's alignment with the actual cut line before critical operations. Adjustments may be possible as per the detailed instructions in the complete manual.

Operating Instructions

Powering On and Safety Features

To start the saw, you must simultaneously press the trigger and the safety button. This dual-action mechanism prevents accidental startup. The saw also features a safety guard that automatically retracts during a cut and covers the blade when the saw is in its resting position, protecting the user.

Making Cuts

- **Workpiece Stability:** Utilize the hold-down clamp to secure the workpiece firmly against the tall, die-cast aluminum fence. This ensures stability and accuracy during all types of cuts.
- **Miter Cuts:** The saw allows for miter cuts from 0 to 45 degrees. Use the positive miter stops for common angles to ensure quick and accurate adjustments.
- **Bevel Cuts:** Perform bevel cuts by adjusting the blade angle. The saw includes positive bevel stops for frequently used angles.
- **Compound Cuts:** Combine miter and bevel adjustments for complex compound cuts.
- **Sliding Function:** The dual slide rail system with linear bearings enables smooth and accurate operation for cutting wider materials, offering a maximum crosscut capacity of up to 2-in x 8-in.

Dust Collection

The saw is equipped with a 1-1/4-in vacuum port for dust collection. Connect a standard wet/dry vacuum to this port to minimize sawdust accumulation during operation. While a dust bag is included, connecting an external vacuum system is recommended for more effective dust management.

Maintenance

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

- **Cleaning:** After each use, disconnect the saw from power and clean off sawdust and debris from all surfaces, especially around the blade, motor, and sliding mechanisms.
- **Blade Care:** Inspect the blade for sharpness and damage. Replace dull or damaged blades promptly. Ensure the blade is clean for efficient cutting.
- **Slide Rail Lubrication:** To maintain smooth operation of the dual slide rail system, periodically apply a silicone spray lubricant to the rails. This prevents friction and dust buildup from hindering movement.
- **Electrical Cord Inspection:** Regularly check the power cord for any signs of damage, cuts, or fraying. Do not use the saw if the cord is damaged.

Troubleshooting

Problem	Possible Cause	Solution
Saw does not start.	Not pressing both trigger and safety button simultaneously; no power supply.	Ensure both controls are activated together. Check power connection and circuit breaker.
Laser guide is inaccurate or not working.	Misalignment; laser unit malfunction.	Perform test cuts to verify alignment. If misaligned, consult the full manual for adjustment procedures. If not working, contact customer support.
Excessive sawdust accumulation.	Dust bag full or inefficient; vacuum not connected or clogged.	Empty dust bag regularly. Ensure vacuum port is clear and a powerful wet/dry vacuum is connected.
Blade not cutting smoothly or binding.	Dull or incorrect blade; improper workpiece clamping; dirty slide rails.	Replace with a sharp, appropriate blade. Ensure workpiece is securely clamped. Clean and lubricate slide rails.

Specifications

Feature	Detail
Brand	Kobalt

Feature	Detail
Model Number	SM1850LW
Blade Diameter	7.25 Inches
Number of Teeth	60
Power Source	AC
Current Rating	10 Amps
Wattage	1100 Watts
Item Weight	29.1 Pounds
Package Dimensions	25.3 x 16.3 x 14.6 inches
Color	Blue & Silver
Blade Material	High Speed Steel
Handle Material	Aluminum
Special Features	Laser Guide, Positive Miter and Bevel Stops, Dual Slide Rail System, Hold-down Clamp, Tall Fence, Vacuum Port for Dust Collection
UL Safety Listing	No
CSA Safety Listing	Yes
ETL Safety Listing	No
UPC	712691120058
Date First Available	December 11, 2013

Warranty and Support

This Kobalt 7-1/4-in Sliding Compound Miter Saw comes with a Limited Warranty. For detailed information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Kobalt website.
For technical assistance, replacement parts, or any other support inquiries, please contact Kobalt Customer Service:

Website: www.kobalttools.com

Phone: Refer to your product documentation for the most current contact number.

Please have your model number (SM1850LW) and UPC (712691120058) available when contacting support.

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