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Kobalt SM1816LW

Kobalt Compact Sliding 7-1/4-in 10-Amp Single Bevel Sliding Laser Compound Miter Saw

Model: SM1816LW

Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Kobalt Compact Sliding 7-1/4-in 10-Amp Single Bevel Sliding Laser Compound Miter Saw. Please read this manual thoroughly before operating the saw to ensure proper use and to prevent injury.
The Kobalt SM1816LW miter saw features a large, die-cast aluminum base and table for increased work support, a dual slide rail system for smooth operation, and a powerful 10.0 Amp motor delivering up to 5,000 RPM for accurate cuts. It is designed for precise miter and bevel cuts, ideal for molding and framing applications.

Safety Information

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the tool.
- **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 guards in place:** Ensure all safety guards are properly installed and functioning before operation.
- **Maintain a clean work area:** Cluttered areas invite accidents.
- **Avoid dangerous environments:** Do not use power tools in damp or wet locations, or expose them to rain.
- **Stay alert:** Do not operate tools when tired or under the influence of drugs, alcohol, or medication.
- **Disconnect power:** Always disconnect the saw from the power source before making adjustments, changing accessories, or performing maintenance.
- **Use the right tool:** Do not force a small tool or attachment to do the job of a heavy-duty tool.

Package Contents

Upon unpacking, ensure all items listed below are present and undamaged. If any parts are missing or damaged,

contact customer service immediately.

- Kobalt Compact Sliding Miter Saw (SM1816LW)
- Blade (7-1/4 inch)
- Dust Bag
- Material Clamp
- Blade Wrench
- Operator's Manual

Product Overview



Figure 1: Front view of the Kobalt Compact Sliding 7-1/4-in Miter Saw, showing the blade guard, dust bag, miter table, and sliding rails.

The Kobalt SM1816LW miter saw is designed for precision cutting of wood and similar materials. Key components include:

- **Motor Housing:** Contains the 10-Amp motor.
- **Blade Guard:** Transparent guard for visibility and safety.
- **Dust Bag:** Collects sawdust during operation.
- **Miter Table:** Rotates for miter cuts, with positive stops.
- **Fence:** Provides support for the workpiece.
- **Sliding Rails:** Allows the saw head to slide for increased crosscut capacity.

- **Laser Guide:** Projects a cutting line for precise alignment.
- **Bevel Adjustment:** Allows the blade to tilt for bevel cuts.
- **Material Clamp:** Secures the workpiece to the table.

Setup

Unpacking and Assembly

1. Carefully remove all components from the packaging.
2. Place the saw on a stable, level workbench or stand.
3. Ensure the saw is securely mounted if using a miter saw stand.
4. Attach the dust bag to the dust port at the rear of the blade guard assembly.
5. Verify the blade is securely installed and the blade guard operates freely.

Adjusting the Laser Guide

The laser guide system is tool-less adjustable and projects an accurate pre-cutting line. To adjust:

1. Ensure the saw is unplugged.
2. Locate the laser adjustment knob/screw (refer to your saw's specific diagram if available).
3. Make a test cut on a scrap piece of material.
4. Adjust the laser line until it aligns precisely with the blade's kerf.

Operating Instructions

General Operation

1. Connect the saw to a 120V AC power source.
2. Place the workpiece firmly against the fence and secure it with the material clamp.
3. Ensure the blade is clear of the workpiece before starting the motor.
4. Depress the trigger to start the motor and allow the blade to reach full speed.
5. Slowly lower the blade through the workpiece, maintaining a steady, controlled motion.
6. Once the cut is complete, release the trigger and allow the blade to stop completely before raising it.

Miter Cuts

The miter saw allows for miter cuts up to 50 degrees left and right, with 9 positive stops for common angles.

1. Loosen the miter lock knob.
2. Rotate the miter table to the desired angle. Positive stops are provided at common angles (e.g., 0°, 15°, 22.5°, 31.6°, 45°).
3. Tighten the miter lock knob securely.
4. Proceed with the cut as described in "General Operation".

Bevel Cuts

Bevel cutting is possible up to 47 degrees to the left, with positive stops at 0 and 45 degrees.

1. Loosen the bevel lock knob (typically located at the rear of the saw).
2. Tilt the saw head to the desired bevel angle.
3. Tighten the bevel lock knob securely.
4. Proceed with the cut, ensuring the workpiece is properly supported.

Sliding Cuts (Crosscuts)

The dual slide rail system allows for maximum crosscut capacity up to 2-in x 8-in at 90 degrees.

1. For wider workpieces, pull the saw head fully forward before starting the cut.
2. Start the motor and slowly push the saw head backward through the workpiece.
3. Maintain a consistent feed rate for a clean cut.

Maintenance

Regular maintenance ensures the longevity and safe operation of your miter saw. Always unplug the saw before performing any maintenance.

Cleaning

- After each use, clear sawdust and debris from the saw, especially around the blade guard, miter table, and sliding rails.
- Use a dry cloth or compressed air. Do not use solvents or abrasive cleaners.
- Empty the dust bag regularly.

Blade Replacement

When replacing the blade, always use a 7-1/4 inch blade designed for miter saws. Refer to the saw's specific instructions for detailed blade change procedures, typically involving:

1. Unplug the saw.
2. Raise the blade guard and engage the spindle lock.
3. Use the provided blade wrench to loosen the arbor nut.
4. Remove the old blade and install the new blade, ensuring the teeth are oriented correctly.
5. Tighten the arbor nut securely and release the spindle lock.

Lubrication

Periodically apply a light coat of machine oil to the sliding rails to ensure smooth operation.

Troubleshooting

Problem	Possible Cause	Solution
Saw does not start	No power supply; tripped circuit breaker; faulty switch.	Check power cord and outlet; reset circuit breaker; contact service if switch is faulty.

Problem	Possible Cause	Solution
Blade not cutting smoothly or burning wood	Dull blade; incorrect blade for material; excessive feed rate.	Replace blade; use appropriate blade for material; reduce feed rate.
Inaccurate cuts	Miter/bevel settings not locked; fence not square; laser guide misaligned.	Ensure all locks are tight; check fence for squareness; recalibrate laser guide.
Excessive vibration	Loose blade; damaged blade; unstable mounting.	Tighten blade arbor nut; replace damaged blade; secure saw to workbench.

Specifications

Feature	Detail
Model Number	SM1816LW
Power Source	Corded Electric
Voltage	120 Volts
Amperage	10.0 Amp
No-Load Speed	5000 RPM
Blade Diameter	7.25 Inches (7-1/4 inch)
Max Crosscut (90°)	2-in x 8-in (nominal)
Max Crosscut (45°)	2-in x 6-in (nominal)
Miter Range	50 degrees left and right
Bevel Range	47 degrees left
Item Weight	22.6 kg (approx. 49.8 lbs)
Product Dimensions	59.69 x 55.88 x 46.99 cm
Special Features	Brushless motor, Laser guide system, Dual slide rail system

Warranty and Support

Kobalt products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official Kobalt website. Keep your purchase receipt as proof of purchase. For technical assistance, replacement parts, or service inquiries, please contact Kobalt customer support. Contact information can typically be found on the product packaging or the manufacturer's website.
Note: Unauthorized repairs or modifications may void the product warranty.

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