Makita LC1230

Makita 12" Metal Cutting Saw LC1230 User Manual

Model: LC1230

1. Introduction and Overview

The Makita 12-Inch Metal Cutting Saw (model LC1230) is engineered for demanding industrial metal-cutting applications. It features a powerful 15 AMP motor delivering 1,700 RPM, enabling efficient and precise cuts through various metal materials such as pipe, angle iron, tubing, and conduit. This saw is designed for durability and ease of use, providing clean, accurate, and virtually burr-free cuts.



Figure 1: Front view of the Makita LC1230 Metal Cutting Saw, showcasing its robust design and main components.

2. Safety Information

Always prioritize safety when operating power tools. This product may expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- **Eye Protection:** Always wear safety goggles to protect against flying debris and sparks.
- **Secure Workpiece:** Ensure the material being cut is securely clamped in the quick-release vise to prevent movement during operation. The vise is designed to hold material firmly for stable cutting.
- **Spark Containment:** The saw features a guard designed to contain sparks effectively. Ensure it is functioning correctly before operation.

- **Material Handling:** Metal filings produced during cutting can be hot and sharp. Handle cut materials with care and allow them to cool.
- **Electrical Safety:** Ensure the power supply meets the tool's requirements (15 Amps, 220 Volts). Avoid overloading circuits.

3. Components and What's in the Box

Your Makita LC1230 Metal Cutting Saw package includes the following items:

- Makita LC1230 Metal Cutting Saw Unit
- Carbide Tipped Blade (A-90532) - 12" (60T)
- Socket Wrench (782210-8)
- Switch Button (411478-6)
- Safety Goggles

4. Setup

4.1 Securing the Saw

The saw features a large cast aluminum base for stability. For optimal safety and performance, ensure the saw is placed on a stable, level surface. The base can be bolted down to a workbench if desired for permanent installation.

4.2 Blade Installation and Changes

The LC1230 is equipped with a shaft lock mechanism for easy blade changes using a single wrench. To change the blade:

1. Ensure the saw is unplugged from the power source.
2. Engage the shaft lock.
3. Use the provided socket wrench to loosen and remove the blade retaining nut.
4. Carefully remove the old blade and install the new carbide-tipped blade, ensuring the rotation direction matches the arrow on the saw.
5. Tighten the retaining nut securely.

4.3 Adjusting the Guide Plate (Fence)

The "tool-less" guide plate can be adjusted from 0° to 45° for quick and easy miter cutting. To adjust:

1. Loosen the quick-release lever for the fence.
2. Pivot the guide plate to the desired angle (0-45 degrees).
3. Securely tighten the quick-release lever to lock the guide plate in position.



Figure 2: Detail of the quick-release vise and the adjustable guide plate, essential for securing material and setting cutting angles.

5. Operating Instructions

5.1 Preparing for a Cut

- Ensure the workpiece is clean and free of obstructions.
- Place the material firmly against the guide plate and secure it tightly with the quick-release vise. Proper clamping prevents material movement and ensures accurate cuts.
- Verify the blade guard operates freely and covers the blade when the saw is in the upright position. The guard automatically opens as the saw is lowered for cutting.

5.2 Making a Cut

- With the material secured, depress the lock-off button and then the trigger to start the saw.
- Allow the blade to reach full speed before beginning the cut.
- Slowly and steadily lower the saw through the material. Do not force the cut; allow the blade to do the work.

- Once the cut is complete, release the trigger and allow the blade to stop spinning before raising the saw.

The carbide-tipped blade is designed to cut clean, accurate, and virtually burr-free, and is significantly faster than abrasive cut-off saws, especially in light pipe, angle iron, tubing, conduit, and channel.



Figure 3: The saw's blade guard and vise mechanism, demonstrating how the guard retracts during a cut to allow the blade to engage the material.

6. Maintenance

6.1 Cleaning

The saw includes a shavings collection tray for easy waste disposal. Regularly empty this tray to maintain a cleaner work environment and prevent buildup that could affect performance.

6.2 Brush Replacement

The motor brushes are externally accessible for greater serviceability. Periodically inspect the brushes for wear and replace them as needed to ensure optimal motor performance and longevity.



Figure 4: Location of the externally accessible brushes, simplifying routine maintenance and extending tool life.

6.3 Blade Care

The carbide-tipped blade is designed for long life. While durable, blades can be sharpened to extend their effective lifespan and maintain cutting efficiency.

7. Troubleshooting

7.1 Saw Not Starting or Tripping Breaker

The Makita LC1230 is a powerful tool with a 15 AMP motor. If the saw does not start or trips a circuit breaker upon startup, ensure it is connected to a dedicated circuit with sufficient amperage. Standard household circuits (e.g., 15A) may not be adequate for the initial power draw. Consider using a circuit rated for higher amperage or a soft-start device if available.

8. Specifications

Feature	Specification
Brand	Makita
Model Number	LC1230
Amperage	15.0 AMP
Voltage	220 Volts
Wattage	1750 Watt-hours
Blade Diameter	12 inches
No Load Speed	1,700 RPM
Max. Cutting Capacity (90°)	4-1/2 inches
Max. Cutting Capacity (45°)	3-1/2 inches
Arbor	1 inch
Net Weight	42.5 lbs.
Overall Length	20-1/4 inches

9. Warranty and Support

9.1 Warranty Information

The Makita LC1230 Metal Cutting Saw comes with a 1-Year Limited Warranty. Please refer to the official warranty documentation included with your product for full details and terms.

9.2 User Manual (PDF)

For a comprehensive guide and detailed diagrams, you can download the official User Manual in PDF format: Download User Manual (PDF)

9.3 Customer Support

For any questions, technical assistance, or service inquiries, please contact Makita customer support. Information regarding customer support can typically be found on the manufacturer's website or within the product packaging.

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