Makita 2414NB

Makita 2414NB 14-Inch Cut-Off Saw Instruction Manual

Your guide to safe and effective operation of the Makita 2414NB Cut-Off Saw.

1. Introduction

The Makita 2414NB 14-inch Cut-Off Saw is a powerful tool designed for industrial metal-cutting applications. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your saw. Please read all instructions carefully before use to ensure optimal performance and user safety.

2. Safety Instructions

WARNING: Always follow basic safety precautions to reduce the risk of fire, electric shock, and serious personal injury.

- **Personal Protective Equipment:** Always wear eye protection (safety glasses or goggles), hearing protection, and heavy-duty gloves. A face shield is also recommended due to sparks and debris.
- **Work Area:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Ensure adequate ventilation to disperse fumes and dust.
- **Electrical Safety:** Do not expose power tools to rain or wet conditions. Avoid body contact with grounded surfaces. Do not abuse the cord.
- **Secure Workpiece:** Always secure the workpiece firmly with the quick-release vise before cutting. Unsecured material can shift, causing kickback or injury.
- **Spark Diversion Guard:** Ensure the spark diversion guard is properly positioned to direct sparks away from the operator and flammable materials.
- **Lock-Off Button:** The saw is equipped with a lock-off button to prevent accidental starting. Always engage this feature when the tool is not in use or during maintenance.
- **Maintain Balance:** Keep proper footing and balance at all times. Do not overreach.

- **Unplug When Not in Use:** Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.

3. Components Overview

Familiarize yourself with the main parts of your Makita 2414NB Cut-Off Saw:

- **D-Shape Handle:** Ergonomically designed for comfortable and secure gripping during operation.
- **Lock-Off Button:** Prevents unintentional starts, enhancing safety.
- **Spark Diversion Guard:** Protects the operator by redirecting sparks generated during cutting.
- **Guide Plate (Fence):** Adjustable plate that supports the workpiece and allows for angle cuts up to 45 degrees.
- **Quick-Release Vise:** Secures the workpiece quickly and efficiently for stable cutting.
- **Shaft Lock:** Facilitates easy and safe abrasive wheel changes.
- **Adjustable Depth Stop:** Allows for precise and repeatable cutting depths.



Figure 1: Overview of the Makita 2414NB 14-inch Cut-Off Saw, showing its main components including the D-shape handle, blade guard, and quick-release vise.

4. Setup

4.1 Unpacking and Inspection

1. Carefully remove the saw from its packaging.
2. Inspect the tool for any damage that may have occurred during shipping. Do not operate if damaged.
3. Ensure all included accessories are present: abrasive wheel, socket wrench, and switch button.

4.2 Securing the Saw

Place the saw on a stable, level workbench. The base of the saw has mounting holes if permanent securing is desired for increased stability during heavy use.

4.3 Adjusting the Guide Plate (Fence)

The guide plate can be adjusted 45 degrees right and left to accommodate various material sizes and angle cuts. It features three locations for different material dimensions.

1. Loosen the bolts securing the guide plate.
2. Slide the guide plate to the desired angle or position.
3. Tighten the bolts securely to prevent movement during cutting.

4.4 Installing/Changing the Abrasive Wheel

Always ensure the saw is unplugged before changing the abrasive wheel.

1. Press and hold the shaft lock button to prevent the shaft from rotating.
2. Use the provided socket wrench to loosen and remove the arbor nut.
3. Remove the old abrasive wheel and replace it with a new 14-inch abrasive wheel with a 1-inch arbor.
4. Ensure the wheel is seated correctly on the flanges.
5. Tighten the arbor nut firmly with the socket wrench while holding the shaft lock button. Do not overtighten.

5. Operating Instructions

5.1 Preparing the Workpiece

1. Place the material to be cut against the guide plate.
2. Use the quick-release vise to firmly clamp the workpiece. Ensure it is stable and will not move during the cut.
3. Adjust the depth stop if a specific cutting depth is required.

5.2 Making a Cut

1. Ensure all safety precautions are observed, including wearing appropriate PPE.
2. Plug the saw into a suitable 115V power outlet.
3. To start the saw, press the lock-off button and then squeeze the trigger switch.
4. Allow the abrasive wheel to reach full speed before beginning the cut.

5. Slowly and steadily lower the saw blade through the workpiece. Do not force the cut; let the saw do the work.
6. Once the cut is complete, release the trigger switch and allow the blade to stop completely before raising the saw arm.



Figure 2: The Makita 2414NB Cut-Off Saw in use, demonstrating proper operation with sparks being generated during metal cutting. Always wear appropriate safety gear.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your saw.

- **Cleaning:** After each use, unplug the saw and clean off dust and debris, especially from the motor vents, using a dry cloth or compressed air.
- **Abrasive Wheel Inspection:** Regularly inspect the abrasive wheel for wear, cracks, or damage. Replace worn or damaged wheels immediately.
- **Carbon Brushes:** Periodically check the carbon brushes for wear. Replace both brushes when either is worn down to the limit mark. Refer to a qualified service technician for brush replacement if you are unsure.
- **Cord Inspection:** Inspect the power cord for damage. Do not use the saw if the cord is frayed or cut.
- **Lubrication:** This tool is designed for maintenance-free operation regarding lubrication. Do not apply oil or grease to internal components.

7. Troubleshooting

If you encounter issues with your Makita 2414NB, refer to the following common problems and solutions:

- **Saw does not start:**
  - Check if the power cord is securely plugged into a live outlet.
  - Ensure the lock-off button is pressed before squeezing the trigger.
  - Check the circuit breaker or fuse.
  - Inspect carbon brushes for wear.
- **Excessive sparks or slow cutting:**

- The abrasive wheel may be worn or incorrect for the material. Replace if necessary.
- Ensure the workpiece is securely clamped.
- Do not force the cut; apply steady, even pressure.

- **Inaccurate cuts:**
  - Verify the guide plate (fence) is securely tightened at the desired angle.
  - Ensure the workpiece is firmly clamped and not shifting.
  - Check for excessive play in the saw arm or pivot points.

For issues not listed here or if problems persist, contact a qualified Makita service center.

8. Specifications

Specification	Value
Brand	Makita
Model Number	2414NB
Blade Diameter	14 Inches
Arbor Size	1 Inch
Max. Cutting Capacity (90°)	4-1/2 Inches
Max. Cutting Capacity (45°)	4-1/2 Inches
No Load Speed	3,800 RPM
Amperage (115V)	15.0 Amps
Voltage	115 Volts
Overall Length	19-3/4 Inches
Net Weight	36.6 lbs.
Power Source	Corded Electric

9. Warranty and Support

9.1 Limited Warranty

Every Makita tool is warranted to be free of defects from workmanship and materials for a period of **ONE YEAR** from the date of original purchase. Should any trouble develop during this one-year period, return the complete tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. This warranty does not cover damage caused by normal wear, abuse, or unauthorized repairs.

9.2 Return Policy

If you are not satisfied with any Makita tool within**30 days** of purchase, you may return it for a replacement or refund, subject to the retailer's return policy.

9.3 Customer Support

For further assistance, technical support, or to locate an authorized service center, please visit the official Makita website or contact their customer service department. You can also refer to the User Manual (PDF) for additional details.

© 2023 Makita Corporation. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question