Makita 5007NK

Makita 5007NK 7-1/4" Circular Saw Instruction Manual

Model: 5007NK

1. Important Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools. Read and understand all instructions before using the Makita 5007NK circular saw.

General Power Tool Safety Warnings

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug. Do not expose power tools to rain or wet conditions. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense. Wear appropriate personal protective equipment (PPE) such as eye protection, hearing protection, dust mask, and non-skid safety shoes.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.

Specific Circular Saw Safety Warnings

- **Cutting Procedure:** Hold the power tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring or its own cord.
- **Kickback Prevention:** Maintain a firm grip with both hands on the saw. Avoid cutting wet or warped wood. Ensure the blade is sharp and clean.
- **Blade Guard:** Always ensure the lower guard closes properly before each use. Never jam or tie the lower guard open.
- **Blade Selection:** Use only blades recommended by the manufacturer that are suitable for the material being cut.

2. Product Overview

The Makita 5007NK is a 7-1/4" circular saw designed for professional use, offering a balance of power, durability, and user-friendly features. It is equipped with a powerful 15 AMP motor delivering 5,800 RPM for efficient cutting.



Figure 2.1: Overview of the Makita 5007NK 7-1/4" Circular Saw, showcasing its robust design and blade.

Key Features

- Powerful 15 AMP motor for 5,800 RPM performance.
- Optimized lower guard design for improved performance during bevel and narrow cuts.
- Well-balanced design for enhanced handling and operational control.
- Bevel cutting capacity from 0° to 56° with positive stops at 22.5°, 45°, and 56° for quick adjustments.
- Large cutting capacity: 2-1/2” at 90°, 1-3/4” at 45°, and 1-3/8” at 56°.

3. Setup

3.1 Unpacking and Inspection

Carefully remove the saw and all accessories from the packaging. Inspect the tool for any damage that may have occurred during shipping. Ensure all included components are present:

- Makita 5007NK Circular Saw

- 7-1/4" 24T Framing Blade
- General Contractor Case
- Offset Wrench



Figure 3.1: The Makita 5007NK circular saw packaged with its durable carrying case.

3.2 Blade Installation and Removal

1. **Disconnect Power:** Always unplug the saw from the power source before installing or removing the blade.
2. **Raise Guard:** Lift the lower blade guard and hold it in the open position.
3. **Loosen Arbor Bolt:** Use the provided offset wrench to loosen the arbor bolt that secures the blade. The bolt typically has left-hand threads, meaning you turn it clockwise to loosen.
4. **Remove Blade:** Carefully remove the outer washer and the old blade.
5. **Install New Blade:** Place the new blade onto the arbor, ensuring the teeth are pointing in the direction of rotation indicated by the arrow on the saw's guard. Replace the outer washer and arbor bolt.
6. **Tighten Arbor Bolt:** Tighten the arbor bolt firmly using the offset wrench, turning counter-clockwise. Do not overtighten.

3.3 Adjusting Cutting Depth

The cutting depth should be set so that the blade extends approximately 1/8" (3 mm) below the workpiece. This minimizes kickback and ensures a cleaner cut.

1. **Loosen Depth Adjustment Lever:** Locate and loosen the depth adjustment lever on the side of the saw.

2. **Set Depth:** Raise or lower the saw base until the desired cutting depth is achieved. Use the depth scale for reference.
3. **Tighten Lever:** Securely tighten the depth adjustment lever to lock the setting.

3.4 Adjusting Bevel Angle

The saw can make bevel cuts from 0° to 56°.

1. **Loosen Bevel Adjustment Lever:** Locate and loosen the bevel adjustment lever at the front of the saw.
2. **Set Angle:** Tilt the saw base to the desired bevel angle. Positive stops are provided at 22.5°, 45°, and 56° for quick setting.
3. **Tighten Lever:** Securely tighten the bevel adjustment lever to lock the setting.



Figure 3.2: Detailed view of the bevel adjustment mechanism, showing angle markings and locking lever.

4. Operating Instructions

Before operating, ensure all safety precautions are understood and followed. Always wear appropriate PPE.

4.1 General Cutting Procedures

1. **Secure Workpiece:** Always clamp the workpiece firmly to prevent movement during cutting.
2. **Mark Cut Line:** Clearly mark the desired cut line on the workpiece.
3. **Position Saw:** Place the front edge of the saw base on the workpiece, aligning the blade with the cut line. Ensure the blade is not touching the workpiece before starting the saw.
4. **Start Saw:** Depress the trigger switch to start the saw. Allow the blade to reach full speed before beginning the cut.
5. **Begin Cut:** Slowly and steadily push the saw forward through the workpiece. Maintain a consistent feed rate. Do not force the saw.
6. **Complete Cut:** Continue the cut until the saw passes completely through the workpiece. Release the trigger switch and allow the blade to stop rotating before lifting the saw.



Figure 4.1: Proper technique for operating the circular saw to make a straight cut on a wooden beam.

4.2 Straight Cuts

For accurate straight cuts, use a straight edge guide or a fence. The saw's base plate has a notch or indicator to help align the blade with your cut line.



Figure 4.2: Demonstrating a user making a precise straight cut with the Makita 5007NK.

4.3 Bevel Cuts

Adjust the bevel angle as described in Section 3.4. When making bevel cuts, the saw's cutting capacity will be reduced. Ensure the workpiece is securely supported to prevent shifting.



Figure 4.3: The circular saw executing an angled cut, demonstrating its bevel capability.

5. Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool. Always disconnect the saw from the power source before performing any maintenance.

5.1 Cleaning

- **Exterior:** Wipe down the exterior of the saw with a clean, damp cloth. Do not use harsh chemicals or solvents.
- **Ventilation Openings:** Keep the motor's ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.
- **Blade Guard:** Ensure the lower blade guard moves freely and is not obstructed by sawdust or debris. Clean the guard mechanism regularly.

5.2 Blade Inspection and Replacement

- **Inspect Blade:** Regularly check the saw blade for dullness, cracks, or missing teeth. A dull blade can cause kickback and poor cut quality.
- **Replace Blade:** Replace damaged or excessively dull blades promptly. Refer to Section 3.2 for blade installation and removal instructions.

5.3 Power Cord Inspection

Periodically inspect the power cord for any signs of damage, such as cuts, fraying, or exposed wires. If the cord is damaged, have it repaired by a qualified service technician to prevent electric shock.

6. Troubleshooting

This section addresses common issues you might encounter with your Makita 5007NK circular saw.

Problem	Possible Cause	Solution
Saw does not start	No power supply Damaged power cord Faulty switch	Check power outlet and circuit breaker Inspect cord for damage; replace if necessary Contact service center
Poor cut quality / Blade binds	Dull or incorrect blade Improper cutting depth Forcing the saw Workpiece not secured	Replace blade or use appropriate blade for material Adjust cutting depth (Section 3.3) Reduce feed rate Secure workpiece firmly
Excessive vibration	Loose blade Damaged blade Bent arbor	Tighten arbor bolt Replace blade Contact service center
Lower guard sticks	Accumulated sawdust/debris Damaged guard mechanism	Clean guard area thoroughly Contact service center

7. Specifications

Technical specifications for the Makita 5007NK 7-1/4" Circular Saw.

Feature	Specification
Model	5007NK
Power Source	Corded Electric
Motor	15 AMP
No-Load Speed	5,800 RPM
Blade Diameter	7-1/4 inches
Blade Material	High Speed Steel (Included: 24T Framing Blade)

Feature	Specification
Cutting Capacity (90°)	2-1/2 inches
Cutting Capacity (45°)	1-3/4 inches
Cutting Capacity (56°)	1-3/8 inches
Bevel Capacity	0° - 56° (Positive stops at 22.5°, 45°, 56°)
Voltage	120 Volts
Wattage	1800 watts
Item Weight	11.97 pounds (5.44 kg)
Product Dimensions (L x W x H)	17.8" x 10.24" x 13.54"
Special Feature	Brushless Motor
Included Components	7-1/4" 24T Framing Blade, General Contractor Case, Offset Wrench

8. Warranty and Support

8.1 Warranty Information

The Makita 5007NK Circular Saw comes with a**1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, alteration, or unauthorized repair.

For full warranty details and conditions, please refer to the warranty card included with your product or visit the official Makita website.

8.2 Customer Support

If you have any questions regarding the operation, maintenance, or troubleshooting of your Makita 5007NK circular saw, please contact Makita customer support.

- **Website:** Visit the official Makita website for product information, FAQs, and service center locations.
- **Service Centers:** For repairs or technical assistance, locate an authorized Makita service center near you.

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