Makita A-99976

Makita A-99976 6-1/2" 56T Carbide-Tipped Cordless Plunge Saw Blade

INSTRUCTION MANUAL

Product Overview

The Makita A-99976 is a 6-1/2 inch, 56-tooth carbide-tipped saw blade designed specifically for use with the Makita 6-1/2" Cordless Plunge Circular Saw (model XPS01, sold separately). This blade is engineered for efficient and smooth cutting of aluminum and other non-ferrous materials.

Key features include high-grade carbide tips for extended durability and laser-cut slots that contribute to quieter operation and reduced vibration during use. The blade's fully hardened and expertly hand-tensioned steel saw plates ensure true and precise cuts.

Image: The Makita A-99976 6-1/2 inch 56-tooth carbide-tipped saw blade, showing its circular design, teeth, and product labeling.

Safety Information

WARNING: Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves, when operating power tools and handling saw blades. Refer to your power tool's instruction manual for specific safety guidelines.

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.

- Ensure the power tool is disconnected from its power source before installing, removing, or performing any maintenance on the saw blade.
- Always use the correct blade for the material being cut. This blade is specifically designed for aluminum and non-ferrous metals.
- Inspect the blade for any damage, cracks, or missing teeth before each use. Do not use a damaged blade.
- Ensure the workpiece is securely clamped to prevent movement during cutting.

- Keep hands and body clear of the blade's path.

Setup

1. **Disconnect Power:** Before handling the saw blade, ensure your Makita 6-1/2" Cordless Plunge Circular Saw (XPS01) is turned off and the battery pack is removed to prevent accidental startup.
2. **Access Blade Arbor:** Consult your saw's instruction manual for specific steps on how to safely access the blade arbor and loosen the arbor bolt.
3. **Remove Old Blade (if applicable):** Carefully remove the existing blade, noting its rotation direction.
4. **Install New Blade:** Place the Makita A-99976 blade onto the arbor, ensuring the rotation arrow on the blade matches the rotation direction arrow on your saw. The blade's part number (A-99976) and specifications are visible on the blade itself.
5. **Secure Blade:** Tighten the arbor bolt securely using the appropriate wrench, as specified in your saw's manual. Do not overtighten.
6. **Replace Guards:** Ensure all blade guards and safety features are properly reinstalled and functioning correctly before reattaching the battery.

Image: The Makita A-99976 saw blade sealed in its retail packaging, displaying key specifications like size and tooth count.

Operating Instructions

This blade is optimized for cutting aluminum and other non-ferrous materials. For optimal performance and safety, follow these guidelines:

- **Material Compatibility:** Use this blade exclusively for cutting aluminum, copper, brass, and similar non-ferrous metals. Do not use for wood, steel, or other materials not specified.
- **Cutting Fluid:** Always use a suitable cutting fluid (e.g., mist, wax, or stick lubricant) when cutting aluminum to prevent chip buildup, reduce friction, and extend blade life. Apply the fluid to the cutting line before and during the cut.

- **Proper Feed Rate:** Maintain a consistent, steady feed rate. Avoid forcing the blade through the material, as this can lead to overheating, premature dulling, and kickback.
- **Blade Speed:** Ensure your plunge saw is operating at the appropriate RPM for cutting non-ferrous metals. The maximum safe speed for this blade is 9,250 RPM.
- **Workpiece Support:** Ensure the workpiece is fully supported and clamped to prevent vibration and movement during the cut.

Maintenance

Proper maintenance will extend the life and performance of your Makita A-99976 saw blade.

- **Cleaning:** After each use, especially when cutting aluminum, clean the blade to remove any accumulated chips or residue. A stiff brush and a suitable solvent (if necessary, following safety precautions) can be used. Ensure the blade is dry before storage.
- **Inspection:** Regularly inspect the carbide tips for signs of wear, chipping, or damage. Check the blade body for cracks or warping. A dull or damaged blade should be replaced or professionally sharpened.
- **Sharpening:** When the blade becomes dull, it should be professionally sharpened by a qualified service center. Attempting to sharpen carbide-tipped blades without proper equipment can damage the blade and compromise safety.
- **Storage:** Store the blade in a dry place to prevent rust. Use the original packaging or a blade storage case to protect the teeth from damage and to prevent accidental contact.

Troubleshooting

If you encounter issues while using your Makita A-99976 saw blade, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Poor cut quality (rough edges, burning)	Dull blade, incorrect feed rate, insufficient cutting fluid, wrong blade for material.	Sharpen or replace blade. Adjust feed rate. Apply more cutting fluid. Ensure blade is for aluminum/non-ferrous.
Excessive vibration or noise	Loose blade, damaged blade, improper workpiece clamping, worn saw components.	Check blade installation and tighten arbor bolt. Inspect blade for damage. Secure workpiece. Consult saw manual for tool inspection.
Blade binding or kickback	Improper alignment, forcing the cut, workpiece pinching the blade, dull blade.	Ensure proper alignment. Reduce feed pressure. Support workpiece correctly to prevent pinching. Sharpen or replace blade.
Rapid blade dulling	Cutting incorrect materials, lack of cutting fluid, overheating, excessive feed rate.	Only cut specified materials (aluminum/non-ferrous). Always use cutting fluid. Adjust feed rate. Allow blade to cool.

Specifications

Part Number: A-99976

Blade Diameter: 6-1/2 inches (165mm)

Arbor Size: 20mm

Number of Teeth: 56T

Blade Type: Carbide-Tipped Plunge Saw Blade

Kerf: 0.079 inches

Maximum Safe Speed: 9,250 RPM

Compatible Material: Aluminum, Non-Ferrous Metals

Item Thickness: 0.06 inches

Item Weight: Approximately 0.6 pounds (9.6 ounces)

UPC: 088381495950

Image: The back of the Makita A-99976 saw blade packaging, detailing specifications such as part number, size, tooth count, and safety warnings.

Warranty and Support

For detailed warranty information regarding your Makita A-99976 saw blade, please refer to the official Makita website or the warranty documentation included with your purchase. Warranty terms and conditions may vary.

For product support, technical assistance, or to locate an authorized service center, please visit the official Makita website:

Visit the Official Makita Store on Amazon