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Hitachi HM-S

Hitachi HM-S Circular Saw Blade Instruction Manual

Model: 165x30/20xZ48

1. Introduction

This manual provides essential information for the safe and effective use of your Hitachi HM-S Circular Saw Blade, model 165x30/20xZ48. This high-quality blade is specifically designed for cutting wood, featuring 48 carbide-tipped teeth (WZ tooth form) and a laser-cut steel body for precision and durability. Please read this manual thoroughly before installation and operation to ensure optimal performance and user safety.

2. Safety Instructions

Always adhere to the following safety precautions when handling, installing, or operating with the circular saw blade. Failure to do so may result in serious injury or damage to the equipment.

- **Eye Protection:** Always wear appropriate eye protection (safety glasses or goggles) to shield against flying debris.
- **Hand Protection:** Wear heavy-duty work gloves when handling the saw blade to prevent cuts from sharp teeth.
- **Power Disconnection:** Ensure the power tool is disconnected from the power source before installing, removing, or performing any maintenance on the saw blade.
- **Blade Compatibility:** Verify that the blade's diameter, arbor size (30mm or 20mm with adapter), and maximum RPM rating are compatible with your circular saw or miter saw.
- **Inspect Blade:** Before each use, inspect the blade for any signs of damage, cracks, missing teeth, or excessive wear. Do not use a damaged blade.
- **Correct Rotation:** Always install the blade so that the teeth are oriented in the correct direction of rotation as indicated by the arrow on the blade and the saw.
- **Secure Workpiece:** Always ensure the workpiece is securely clamped or held to prevent kickback during cutting operations.
- **Ventilation:** Work in a well-ventilated area to avoid inhaling sawdust.
- **Keep Guards in Place:** Never operate the saw without all safety guards properly installed and functioning.

3. Setup and Installation

Follow these steps to properly install the Hitachi HM-S Circular Saw Blade onto your compatible power tool:

1. **Prepare the Saw:** Disconnect the power tool from the power supply. Ensure the saw is clean and free of debris around the arbor.
2. **Remove Old Blade (if applicable):** If replacing an old blade, carefully remove it according to your saw's instruction manual. Use appropriate tools to loosen the arbor nut.
3. **Check Arbor Size:** The Hitachi HM-S blade has a 30mm arbor hole and comes with a 20mm reducer ring. Select the appropriate size for your saw's arbor.
4. **Position the Blade:** Place the new Hitachi HM-S blade onto the saw's arbor. Ensure the rotation arrow on the blade matches the rotation direction of your saw. The teeth should point towards the direction of cut.
5. **Secure the Blade:** Reinstall the arbor washer and nut. Tighten the arbor nut securely, but do not overtighten. Refer to your saw's manual for specific torque recommendations.
6. **Check for Free Rotation:** Manually rotate the blade to ensure it spins freely and is properly seated without wobble.
7. **Re-engage Power:** Once the blade is securely installed and all guards are in place, reconnect the power tool to the power supply.



Figure 1: Hitachi HM-S Circular Saw Blade. This image shows the silver-colored blade with 48 carbide teeth, designed for cutting wood. Visible markings include the Hitachi logo, rotation direction arrows, maximum RPM (N max 9000), and safety symbols for eye protection and gloves.

4. Operating Instructions

The Hitachi HM-S blade is designed for efficient wood cutting. Follow these general guidelines for operation:

- **Material Compatibility:** This blade is optimized for cutting wood. Do not use it for cutting metal, masonry, or other materials unless specifically designed for them.
- **Proper Feed Rate:** Apply steady, consistent pressure when feeding the workpiece into the blade. Avoid forcing the blade, as this can lead to overheating, poor cut quality, and premature wear.
- **Clean Cuts:** For best results, ensure the workpiece is clean and free of foreign objects (nails, screws) that could damage the blade teeth.
- **Blade Depth:** Adjust the blade depth on your saw so that the teeth extend slightly below the workpiece for optimal cutting performance and chip ejection.
- **Cool Down:** Allow the blade to cool down periodically during extended use to prevent overheating.

5. Maintenance

Proper maintenance will extend the life and performance of your Hitachi HM-S Circular Saw Blade:

- **Cleaning:** Regularly clean the blade to remove resin and sawdust buildup. Use a specialized blade cleaner or a mild solvent and a brush. Avoid abrasive materials that could damage the carbide tips.
- **Inspection:** Periodically inspect the carbide teeth for dullness, chipping, or missing tips. A dull blade will cause burning, excessive vibration, and poor cuts.
- **Sharpening:** If the blade becomes dull, have it professionally sharpened by a qualified service. Do not attempt to sharpen carbide teeth yourself unless you have the proper tools and expertise.
- **Storage:** Store the blade in a dry place, preferably in its original packaging or a protective case, to prevent damage to the teeth and corrosion.

6. Troubleshooting

Refer to the table below for common issues and their potential solutions:

Issue	Possible Cause	Solution
Poor cut quality (rough, splintering)	Dull blade, incorrect feed rate, wrong blade for material, resin buildup.	Clean or sharpen blade. Adjust feed rate. Ensure blade is for wood.
Excessive vibration or wobble	Blade not seated correctly, damaged blade, arbor nut loose, saw arbor bent.	Re-seat blade, tighten nut. Inspect blade for damage (replace if damaged). Check saw arbor.
Blade overheating or burning wood	Dull blade, forcing the cut, excessive resin buildup, incorrect blade depth.	Sharpen or clean blade. Reduce feed rate. Adjust blade depth.
Blade not cutting	Blade installed backward, extremely dull blade.	Check rotation direction. Sharpen or replace blade.

7. Product Specifications

Feature	Detail
Manufacturer	Hitachi
Part Number	752418
Item Model Number	HM-Sägeblatt
Color	Silver
Style	Compact
Material	Wood (for cutting)
Blade Thickness	1.6 Millimeter
Number of Items in Package	1
Saw Diameter	165 Millimeter

Feature	Detail
Usage	Wood
Number of Teeth	48
Compatible Material	Wood
GTIN	08717472813183
First Available Date	January 15, 2020

8. Warranty and Support

This Hitachi HM-S Circular Saw Blade is manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty documentation provided with your original purchase or visit the official Hitachi website.
For technical support, product inquiries, or service, please contact Hitachi customer service through their official channels.

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