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Makita HS631DZSB

Makita 18V Cordless Circular Saw HS631DZSB User Manual

Model: HS631DZSB

Product Overview

The Makita HS631DZSB is a high-power 18V cordless circular saw designed for a wide range of cutting tasks, from formwork to detailed finishing work. It features a powerful brushless motor and a 165mm saw blade, offering cutting performance comparable to AC-powered machines.

Figure 1: Makita 18V Cordless Circular Saw HS631DZSB. This image shows the overall design of the circular saw, highlighting its ergonomic handle, blade guard, and the 165mm saw blade.

Key Features:

- High-power brushless motor for efficient cutting.
- 165mm saw blade with Shark Skin Premium White Tip Saw for enhanced performance.
- Smooth cutting depth adjustment.
- Integrated blower function to clear the cutting line.
- Rear chip ejection for cleaner operation.
- Arbitrary cutting depth stopper for precise control.
- Notch for rear ink line confirmation.
- Left 5° bevel cutting capability.

Safety Instructions

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings:

1. **Work Area Safety:** Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. **Electrical Safety:** Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
3. **Personal Safety:** Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

4. **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
5. **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

Component Identification

Familiarize yourself with the various parts of your Makita circular saw before operation.



Figure 2: Exploded view diagram of the Makita circular saw, identifying key components such as the lock-off button, switch trigger, angle adjustment knob, base, saw blade (chip saw), safety cover, parallel guide, display panel, battery compartment, and shaft lock.

Lock-off Button: Prevents accidental starting.

Switch Trigger: Activates the saw.

Angle Adjustment Knob: Used to set the bevel cutting angle.

Base: The flat plate that rests on the workpiece.

Saw Blade (Chip Saw): The cutting component.

Safety Cover: Protects the user from the blade.

Parallel Guide: Assists in making straight cuts.

Display Panel: Shows battery status.

Battery: Power source (sold separately).

Shaft Lock: Used to secure the blade for changing.

Setup

Battery Installation:

Ensure the battery is fully charged before use. Slide the 18V DC slide-type battery into the battery compartment until it clicks into place. To remove, press the release button and slide the battery out.

Blade Installation and Removal:

Always disconnect the battery before changing the blade. Press the shaft lock button to secure the blade. Use the provided hex wrench to loosen the blade bolt. Remove the old blade and install the new 165mm blade, ensuring the rotation direction matches the arrow on the saw. Tighten the blade bolt securely.

Adjusting Cutting Depth:

The cutting depth can be adjusted smoothly. Loosen the depth adjustment lever and move the base up or down to set the desired cutting depth. The scale on the side of the saw indicates the depth. Tighten the lever to secure the setting.



Figure 3: Illustration demonstrating the cutting depth adjustment lever. The lever allows the user to loosen or tighten the base for precise depth setting.



Figure 4: Diagram showing the cutting depth scale and how the base moves relative to the blade to achieve different cutting depths. The scale provides precise measurements for 90°, 45°, and left 5° cuts.

The maximum cutting depths are: 66mm at 90°, 46mm at 45°, and 55.5mm at left 5°.

Adjusting Bevel Angle:

Loosen the angle adjustment knob to tilt the base and set the desired bevel angle. The saw supports up to a left 5° bevel cut. Tighten the knob once the angle is set.

Operating Instructions

Starting the Saw:

To start the saw, first press the lock-off button, then pull the switch trigger. Release the switch trigger to stop the saw.

Making a Cut:

Place the base of the saw firmly on the workpiece. Align the blade with your cutting line. Start the saw and allow the blade to reach full speed before beginning the cut. Guide the saw smoothly and steadily through the material. Do not force the saw; let the blade do the work.

Using the Parallel Guide:

Insert the parallel guide into the slot on the base. Adjust its position to achieve the desired cutting width. Tighten the screw to secure the guide. This helps in making accurate, straight cuts parallel to the edge of the workpiece.

Blower Function and Chip Ejection:

The integrated blower function helps keep the cutting line clear of sawdust for better visibility. Sawdust is ejected to the rear of the tool, reducing accumulation in the work area.

Figure 5: Diagram illustrating the depth guide, which assists in maintaining consistent cutting depth during operation.

Maintenance

Cleaning:

Regularly clean the saw to ensure optimal performance and longevity. Use a soft cloth to wipe down the exterior. Clear any sawdust or debris from the blade guard, motor vents, and depth adjustment mechanisms. Do not use harsh chemicals or abrasive cleaners.

Blade Inspection:

Inspect the saw blade before each use for sharpness, cracks, or missing teeth. A dull or damaged blade can lead to poor cutting performance and increased risk of kickback. Replace worn blades promptly.

Battery Care:

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not store fully discharged batteries for extended periods. Follow the charging instructions provided with your Makita charger.

Troubleshooting

Problem	Possible Cause	Solution
Saw does not start	Battery not inserted correctly or discharged; Lock-off button not pressed; Faulty switch.	Ensure battery is fully inserted and charged. Press the lock-off button before pulling the trigger. If problem persists, contact service.
Poor cutting performance	Dull or incorrect blade; Incorrect cutting depth; Overloading the saw.	Replace with a sharp, appropriate blade. Adjust cutting depth correctly. Do not force the saw; allow it to cut at its own pace.

Problem	Possible Cause	Solution
Excessive vibration	Loose blade; Damaged blade; Worn bearings.	Check and tighten blade bolt. Replace damaged blade. If bearings are suspected, seek professional service.

Specifications

Feature	Detail
Model Number	HS631DZSB
Voltage	18V DC
Blade Diameter	165mm
No-load Speed	5,000 rpm
Max. Cutting Depth (90°)	66mm
Max. Cutting Depth (45°)	46mm
Max. Cutting Depth (Left 5°)	55.5mm
Weight	3.0 kg
Power Source	Battery-powered
Recommended Use	Wood cutting
Included Components	Parallel guide, Hex wrench 5, Premium White Tip Saw 165-45

Note: Battery and charger are sold separately.

Warranty and Support

Makita products are manufactured under strict quality control. While the product information states “No Warranty” in the specifications, for any service or support inquiries, please contact your local Makita authorized service center or the retailer where the product was purchased. Always retain your proof of purchase for any potential service needs.
For more information and to find authorized service centers, please visit the official Makita website or refer to the contact information provided with your product packaging.

Figure 6: Makita company logo. Makita has a long history as a power tool manufacturer, continuously seeking to provide products and services that benefit users.

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