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Makita CS553DZS

Makita CS553DZS Cordless Chip Saw Instruction Manual

Model: CS553DZS

INTRODUCTION

Thank you for choosing the Makita CS553DZS Cordless Chip Saw. This instruction manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your tool. Please read this manual thoroughly before use and keep it for future reference.

GENERAL SAFETY INSTRUCTIONS

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. This section outlines general safety guidelines. For detailed safety information, refer to the comprehensive safety manual provided with your tool.

- **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 in any way. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating noisy tools. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **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 and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

PRODUCT COMPONENTS

Familiarize yourself with the main parts of your Makita CS553DZS Cordless Chip Saw.



Figure 1: Makita CS553DZS Cordless Chip Saw overview. This image displays the main body of the saw, including the ergonomic handle, the transparent blade guard, and the sturdy base plate, with a battery attached.

- **Blade Guard:** Transparent guard for visibility and safety.
- **Handle:** Ergonomically designed for comfortable grip.
- **Base Plate:** Provides stability during cutting.
- **Brushless Motor:** High-power, efficient motor for demanding tasks.
- **LED Light:** Illuminates the cutting line for improved visibility.
- **Dust Box:** Collects cutting debris for a cleaner work environment.
- **Battery Compartment:** For 18V slide-type Li-ion batteries (sold separately).

SETUP

1. Battery Installation

1. Ensure the tool is switched off.
2. Align the battery pack with the battery housing on the tool.
3. Slide the battery into the housing until it locks into place with a click.
4. To remove, press the release button on the battery and slide it out.

2. Blade Installation

The CS553DZS uses a 150mm outer diameter, 20mm inner diameter DC White Metal chip saw blade (Makita 150-33 for general metalworking is included).

1. Ensure the battery is removed from the tool.
2. Refer to the tool's specific blade change mechanism (usually involves lifting a lever or unscrewing a bolt to access the arbor).
3. Place the blade onto the arbor, ensuring the rotation direction arrows on the blade match the direction indicated on the tool.
4. Secure the blade using the provided fasteners (e.g., arbor bolt and washer) and tighten firmly with the hexagonal wrench (included accessory).
5. Lower the blade guard back into position.

金属切断用DCホワイトメタル新採用 高速切断&長寿命

(CS553DRGXS/DZS標準付属品)



切断能率

約 **1.7** ^{※1} 倍

耐久性

約 **2** ^{※1} 倍

1充電作業量

約 **1.6** ^{※1} 倍

※1 炭素鋼鋼管:外径φ31mm×厚さ3.0mm切断時。当社従来品の一般金工用チップソー(A-59760)比。耐久性は初期切削時間の2倍になるまでの比較。

Figure 2: Makita DC White Metal 150-33 chip saw blade. This image highlights the specialized blade designed for high-speed metal cutting, showing its diameter and tooth count.

OPERATING INSTRUCTIONS

1. Adjusting Cutting Depth

The maximum cutting depth for this tool is 57.5mm. Adjust the cutting depth to be slightly deeper than the material thickness to ensure a clean cut and prevent unnecessary strain on the blade.

1. Loosen the depth adjustment lever/knob.
2. Move the base plate up or down to set the desired cutting depth.
3. Tighten the depth adjustment lever/knob securely.

2. Making a Cut

The CS553DZS features a high-power brushless motor with automatic speed change mode, optimizing rotation speed and torque based on the load. It is designed for high-speed cutting of metals like lip channel steel (C-channel).



Figure 3: Cutting C-channel steel. This image demonstrates the saw in action, precisely cutting through a C-channel metal beam, showcasing its capability for metalworking tasks.

1. Secure the workpiece firmly to prevent movement during cutting.
2. Position the base plate flat on the workpiece, ensuring the blade is clear of the material.
3. Activate the LED light for better visibility of the cutting line.
4. Start the tool by pressing the trigger switch. Allow the blade to reach full speed before engaging the material.
5. Slowly guide the saw through the material, maintaining a steady, consistent feed rate. Do not force

the tool.

6. Once the cut is complete, release the trigger switch and allow the blade to stop completely before lifting the tool from the workpiece.



Figure 4: Cutting a metal pipe. The saw is shown making a clean cut through a metal pipe, illustrating its versatility for various metal profiles.

12^{mm}厚さ 鉄板もパワフル切断

※別販売品の厚物鉄工用チップソーを使用しています。



Figure 5: Cutting a thick metal plate. This image demonstrates the saw's capability to cut through thicker metal sheets, highlighting its power and precision.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your tool. Always disconnect the battery before performing any maintenance.

1. Cleaning the Tool

- Wipe down the tool with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the ventilation openings clear of dust and debris to prevent overheating.
- The tool features a dust-proof and drip-proof structure, but it is not waterproof. Avoid exposing it to excessive moisture.

2. Emptying the Dust Box

The integrated dust box efficiently collects cutting debris. Empty it regularly to maintain effective dust collection and prevent clogging.

1. Ensure the tool is off and the battery is removed.
2. Locate the dust box on the tool.
3. Follow the instructions in the detailed manual for releasing and emptying the dust box.

4. Reattach the dust box securely before resuming operation.

3. Blade Care

- Inspect the blade regularly for wear, damage, or dullness. A dull blade can cause kickback and reduce cutting efficiency.
- Replace worn or damaged blades immediately. Use only Makita-recommended blades for optimal performance and safety.
- Clean the blade after use to remove any accumulated debris or resin.

TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact Makita service personnel.

Problem	Possible Cause	Solution
Tool does not start	Battery not inserted correctly or discharged.	Ensure battery is fully charged and properly inserted.
Reduced cutting performance	Dull or damaged blade. Incorrect cutting depth.	Replace blade. Adjust cutting depth.
Excessive vibration	Loose blade. Damaged blade.	Tighten blade. Replace damaged blade.
Tool stops during operation	Overload protection activated. Battery discharged.	Reduce cutting pressure. Recharge battery.

SPECIFICATIONS

The following are the technical specifications for the Makita CS553DZS Cordless Chip Saw:

- **Model:** CS553DZS
- **Power Source:** Battery-powered (DC 18V, Slide-type Li-ion battery)
- **Blade Diameter:** 150 mm (Outer), 20 mm (Inner)
- **Blade Type:** DC White Metal 150-33 (for general metalworking)
- **Maximum Cutting Depth:** 57.5 mm
- **No-Load Speed:** 4,200 RPM
- **Motor Type:** Brushless Motor
- **Features:** Automatic Speed Change Mode, Dust-proof/Drip-proof Structure, LED Light, Dust Box
- **Dimensions (L x W x H):** 267 x 186 x 250 mm
- **Weight (with battery):** 3.0 kg
- **Included Accessories:** Hexagonal wrench 5, DC Metal 150-33 (general metalworking), Parallel guide

BL MOTOR

ハイパワー！ブラシレスモータ

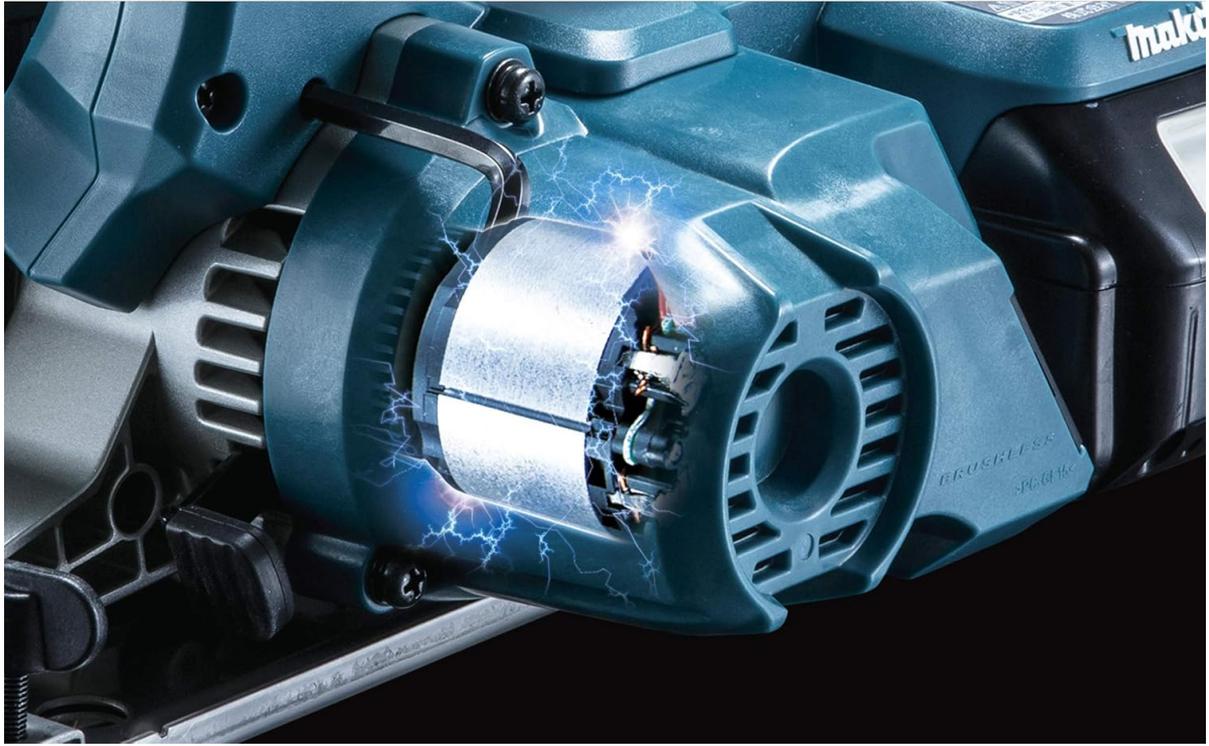


Figure 6: Brushless Motor technology. This image provides a close-up view of the "BL Motor" (Brushless Motor) branding, emphasizing the high-power and efficiency of the tool's motor.

WARRANTY AND SUPPORT

Makita products are manufactured under strict quality control. For information regarding warranty coverage, please refer to the warranty card included with your purchase or contact your local Makita service center. For technical support or service, please visit the official Makita website or contact their customer service department.

Official Makita Website: www.makita.co.jp