Dongcheng DJX09-255

Dongcheng Wood and Aluminium Mitre Saw DJX09-255 User Manual

Model: DJX09-255

Introduction Safety Instructions Product Components Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your Dongcheng DJX09-255 Wood and Aluminium Mitre Saw. Please read these instructions carefully before using the tool to ensure proper function and to prevent injury. Keep this manual for future reference.

The Dongcheng DJX09-255 is a powerful 1800W electric mitre saw designed for precise cutting of wood and aluminium materials. It features a 255mm blade, gear transmission, 0-45° bevel cutting capability, and a widened die-cast base for stability.



Figure 1: Dongcheng DJX09-255 Mitre Saw. This image shows the overall design of the mitre saw, highlighting its main components and robust construction.

2. General Safety Instructions

Always follow basic safety precautions when using electric power tools to reduce the risk of fire, electric shock, and personal injury.

- **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 such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating noisy tools. Wear a dust mask if operation creates dust. Do not overreach. Keep proper footing and balance at all times.
- **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 Mitre Saw Safety:** Ensure the blade is sharp and correctly installed. Never remove jammed material when the saw is running. Keep hands clear of the blade path. Secure the workpiece firmly.

3. Product Components and Features

The Dongcheng DJX09-255 Mitre Saw comes with the following main components and features:

- **Mitre Saw Unit:** The main body of the saw, including the motor, blade guard, and cutting head.
- **Base Stand:** Provides stability and support for the workpiece.
- **Blade:** A 255mm high-speed steel blade suitable for wood and aluminium.
- **1800W Motor:** Delivers ample power for efficient cutting.
- **Gear Transmission System:** Enhances durability and ensures smooth operation.
- **0-45° Bevel Cutting Range:** Allows for precise angled cuts.
- **Widened Die-Cast Base:** Provides exceptional stability during operation.
- **Ergonomic Handle:** Contoured for a comfortable and secure grip.



Figure 2: Detailed view of the mitre saw, showing the blade, guard, and base. This image provides a closer look at the operational parts of the saw.

4. Setup and Assembly

Before operating the mitre saw, ensure it is properly assembled and secured.

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage. Ensure all listed components (Mitre Saw, Base Stand, Blade) are present.
2. **Mounting the Saw:** Secure the mitre saw to a stable workbench using appropriate bolts and clamps. The widened die-cast base provides stability, but additional securing is recommended for safety.
3. **Blade Installation:**
    - Ensure the saw is unplugged from the power source.
    - Lift the lower blade guard.
    - Press the spindle lock button to prevent the blade from rotating.
    - Using the provided wrench, loosen the blade bolt and remove the outer flange.
    - Carefully place the 255mm blade onto the spindle, ensuring the teeth are oriented correctly for cutting (pointing downwards at the front of the saw).
    - Reinstall the outer flange and tighten the blade bolt securely with the wrench while holding the spindle lock.
    - Release the spindle lock and check that the blade rotates freely.
4. **Power Connection:** Connect the saw to a suitable 230V power outlet. Ensure the power cord is not damaged and is routed safely away from the cutting area.



Figure 3: A user demonstrating the operation of the mitre saw. This image illustrates the saw in a typical working environment, emphasizing proper posture and safety gear.

5. Operating Instructions

Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and a dust mask, before operating the saw.

1. **Workpiece Preparation:**
    - Ensure the workpiece is clean and free of foreign objects (nails, screws, etc.).
    - Mark your desired cut line clearly on the material.
    - Securely clamp the workpiece to the saw's base or fence to prevent movement during cutting. Never hold the workpiece by hand.

2. **Adjusting Mitre Angle (for angled cuts):**
    - Loosen the mitre lock knob.
    - Rotate the turntable to the desired angle (e.g., 0°, 15°, 22.5°, 30°, 45°).
    - Tighten the mitre lock knob firmly to secure the angle.
3. **Adjusting Bevel Angle (for tilted cuts):**
    - Loosen the bevel lock lever at the rear of the saw.
    - Tilt the saw head to the desired bevel angle (0-45°).
    - Tighten the bevel lock lever securely.
4. **Making a Cut:**
    - Ensure the blade is clear of the workpiece.
    - Press the power switch to start the motor. Allow the blade to reach full speed (5300 RPM) before beginning the cut.
    - Slowly and steadily lower the saw head through the workpiece. Do not force the saw.
    - Once the cut is complete, release the power switch and allow the blade to stop completely before raising the saw head.
    - Remove the cut material and clear any sawdust.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your mitre saw. Always unplug the saw before performing any maintenance.

- **Cleaning:** After each use, clear sawdust and debris from the saw, especially around the blade guard, motor vents, and pivot points. Use a brush or compressed air. Do not use solvents that could damage plastic parts.
- **Blade Inspection and Replacement:** Regularly inspect the blade for sharpness, cracks, or missing teeth. A dull or damaged blade can cause kickback and poor cuts. Replace the blade as described in the "Blade Installation" section (Section 4.3) when necessary.
- **Lubrication:** Periodically apply a light machine oil to pivot points and sliding mechanisms to ensure smooth movement.
- **Cord Inspection:** Check the power cord for any cuts, fraying, or damage. Replace damaged cords immediately.
- **Carbon Brushes:** The motor's carbon brushes may need periodic inspection and replacement. Refer to a qualified service technician for this procedure if you are unsure.

7. Troubleshooting

This section addresses common issues you might encounter with your mitre saw.

Problem	Possible Cause	Solution
Saw does not start	No power supply; Damaged power cord; Faulty switch	Check power connection and outlet; Inspect power cord; Contact service for switch replacement.
Blade not cutting efficiently or burning wood	Dull or damaged blade; Incorrect blade for material; Forcing the cut	Replace or sharpen blade; Ensure correct blade type; Reduce feed pressure.
Excessive vibration or noise	Loose blade; Damaged blade; Loose mounting bolts	Tighten blade bolt; Replace damaged blade; Check and tighten mounting bolts.

Problem	Possible Cause	Solution
Inaccurate cuts	Workpiece not secured; Incorrect angle setting; Blade wobble	Secure workpiece firmly; Re-check and adjust angle settings; Inspect blade for damage or improper installation.

8. Technical Specifications

The following are the technical specifications for the Dongcheng DJX09-255 Mitre Saw:

Specification	Value
Model Number	DJX09-255
Brand	Dongcheng (Generic)
Power Source	Corded Electric
Wattage	1800 Watts
Voltage	230 Volts
No-Load Speed	5300 RPM
Blade Diameter	255 Millimetres
Blade Material	High Speed Steel
Number of Teeth	60
Cutting Angle	0-45 Degrees (Bevel)
Surface Recommendation	Wood, Aluminum
Product Dimensions (L x W x H)	65L x 45W x 40H Centimeters
Item Weight	10.5 Kilograms
Special Features	Gear Transmission, Rubberized Handle, Widened Die Cast Base
Included Components	Mitre Saw, Base Stand, Blade
Specification Met	CE

9. Warranty and Support

This Dongcheng DJX09-255 Mitre Saw is covered by a manufacturer's warranty. For specific details regarding warranty terms, duration, and conditions, please refer to the warranty card included with your product or contact the manufacturer directly.

For technical support, spare parts, or service inquiries, please contact your authorized Dongcheng dealer or the manufacturer's customer service department. Ensure you have your model number (DJX09-255) and purchase information available when seeking support.

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