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DEWALT DCG405NT

DEWALT DCG405NT-XJ 18V Brushless Grinder Instruction Manual

Model: DCG405NT

Introduction

This instruction manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DEWALT DCG405NT-XJ 18V Brushless Grinder. Please read this manual thoroughly before using the tool and keep it for future reference.
The DEWALT DCG405NT-XJ is a compact 18V brushless angle grinder designed for various cutting and grinding applications. Its brushless motor ensures extended runtime and durability.

General Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

Work Area Safety

- Keep 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

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. There is an increased risk of electric shock if your body is earthed or grounded.

Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a power tool.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the tool.

Product Components

Familiarize yourself with the main components of your DEWALT DCG405NT-XJ Grinder.



Figure 1: The DEWALT DCG405NT-XJ 18V Brushless Grinder, showing its main body, side handle, and protective guard. This model is designed for portability and efficient operation.



Figure 2: Dimensions of the DEWALT DCG405NT-XJ Grinder. The tool measures approximately 44 cm in length, 33.5 cm in width, and 16 cm in height, with a weight of 1.74 kg, highlighting its compact design.

- **Main Body:** Houses the brushless motor and battery connection.
- **Side Handle:** Provides additional grip and control during operation.
- **Protective Guard:** Essential for user safety, protecting against sparks and debris.
- **Spindle Lock Button:** For easy accessory changes.
- **On/Off Switch:** Controls power to the tool.

Setup

Battery Installation

1. Ensure the grinder is switched off.
2. Align the battery pack with the tool's battery port.
3. Slide the battery pack into the port until it clicks securely into place.
4. To remove, press the battery release button and slide the battery out.

Guard Adjustment

1. Loosen the guard clamping screw.
2. Rotate the guard to the desired position for optimal protection.
3. Tighten the clamping screw firmly to secure the guard.

Accessory Installation (Grinding/Cutting Discs)

1. Ensure the tool is switched off and the battery is removed.
2. Press and hold the spindle lock button.
3. Place the inner flange onto the spindle.
4. Position the grinding or cutting disc onto the inner flange, ensuring it sits flat.
5. Thread the outer flange onto the spindle and tighten it securely using the spanner wrench provided.
6. Release the spindle lock button.

Operating Instructions

Before Operation

- Always wear appropriate personal protective equipment, including safety glasses, hearing protection, and gloves.
- Ensure the workpiece is securely clamped or stable.
- Check the disc for any damage or cracks before use.

Starting and Stopping

1. To start the grinder, slide the switch forward to the "ON" position.
2. Allow the disc to reach full speed before contacting the workpiece.
3. To stop the grinder, slide the switch back to the "OFF" position.
4. Wait for the disc to come to a complete stop before setting the tool down.

Grinding and Cutting Techniques


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Figure 3: A user operating the DEWALT DCG405NT-XJ Grinder on a metal surface, demonstrating typical use for cutting or grinding applications. Sparks are visible, emphasizing the need for proper safety gear.

- **Grinding:** Hold the grinder at a 15-30 degree angle to the workpiece. Apply moderate pressure and move the tool smoothly across the surface.
- **Cutting:** Hold the grinder perpendicular to the workpiece. Apply light, consistent pressure, allowing the disc to do the work. Avoid twisting or binding the disc.
- Never force the tool. Excessive pressure can cause kickback or damage to the disc.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your grinder.

Cleaning

- Always disconnect the battery before cleaning.
- Use a soft brush or compressed air to clean dust and debris from the ventilation openings.
- Wipe the tool's exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

Storage

- Store the grinder in a dry, secure location, out of reach of children.
- If storing for extended periods, remove the battery pack.

Battery Care

- Charge batteries fully before first use.
- Do not store batteries in direct sunlight or extreme temperatures.
- Use only DEWALT approved chargers for your battery packs.

Troubleshooting

This section addresses common issues you might encounter with your grinder.

Problem	Possible Cause	Solution
Grinder does not start.	Battery not charged or improperly inserted.	Ensure battery is fully charged and correctly inserted.
Grinder stops during operation.	Overload protection activated; battery low.	Reduce pressure; allow tool to cool; recharge battery.
Excessive vibration.	Damaged or improperly mounted disc.	Inspect disc for damage and replace if necessary; ensure disc is correctly mounted and tightened.
Poor cutting/grinding performance.	Worn or incorrect disc for material.	Replace with a new, appropriate disc for the material.

Specifications

Feature	Detail

Feature	Detail
Model Number	DCG405NT
Voltage	18 Volts
Power Source	Battery Powered
Disc Diameter	125 mm
Motor Type	Brushless
Item Weight	1.74 kg
Product Dimensions	44 x 33.5 x 16 cm
Material	Metal
Batteries Included	No (Body only)

Warranty and Support

For detailed warranty information and customer support, please refer to the official DEWALT website or contact their customer service department. Keep your proof of purchase for warranty claims.
DEWALT Official Website: www.dewalt.com
For service, repair, or technical assistance, contact a DEWALT authorized service center.

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