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Crown CT13501

Crown CT13501 Corded Electric Angle Grinder User Manual

Model: CT13501 | Power: 650W | Disc Diameter: 115mm (4.5 inch)

Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Crown CT13501 Corded Electric Angle Grinder. Please read these instructions carefully before using the tool and keep them for future reference.

Important Safety Instructions

WARNING: Read 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

- **Work Area Safety:** Keep work area clean and well lit. Do not operate power tools in explosive atmospheres.
- **Electrical Safety:** Power tool plugs must match the outlet. Do not abuse the cord.
- **Personal Safety:** Always wear eye protection. Use personal protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection.
- **Power 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.

Specific Angle Grinder Safety Warnings

- This power tool is intended to function as a grinder, sander, wire brush, or cut-off tool. Observe all safety warnings, instructions, illustrations and specifications provided with this power tool.
- Always use the correct type of wheel for your application.
- Always ensure the guard is correctly positioned and secure before operation.
- Hold the tool firmly with both hands during operation.
- Keep hands clear of rotating accessories.
- Do not use the tool for applications for which it is not designed.

Product Overview

The Crown CT13501 is a corded electric angle grinder designed for various grinding, cutting, and polishing tasks.

Familiarize yourself with its components before use.



Figure 1: Crown CT13501 Corded Electric Angle Grinder. This image displays the main unit of the angle grinder, highlighting its compact design and ergonomic handle.

Components:

- Main Unit (Motor Housing)
- Spindle Lock Button
- On/Off Switch
- Auxiliary Handle (Side Handle)
- Protective Guard
- Grinding/Cutting Disc (Accessory, not always included)
- Flange Wrench



Figure 2: Crown CT13501 Angle Grinder with included accessories and packaging. This image shows the angle grinder alongside its box, user manual, flange wrench, and auxiliary handle, illustrating the complete package contents.

Setup and Assembly

Before operating the angle grinder, ensure all components are correctly assembled and secured.

1. Attaching the Auxiliary Handle

1. The auxiliary handle can be screwed into either side of the gear housing, depending on user preference and application.
2. Ensure the handle is tightened securely before use.

2. Mounting the Protective Guard

1. Loosen the screw on the protective guard.
2. Slide the guard onto the spindle collar, ensuring it covers the disc adequately.
3. Adjust the guard to protect against sparks and debris, then tighten the screw firmly.

3. Installing Grinding/Cutting Discs

1. **Ensure the tool is unplugged.**
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. Screw the outer flange (nut) onto the spindle.
6. Use the provided flange wrench to tighten the outer flange securely.
7. Release the spindle lock button.

Note: Always use discs with the correct diameter (115mm) and bore size (M14 spindle thread) for this model.

Operating Instructions

Follow these steps for safe and effective operation of your angle grinder.

1. Before Starting

- Verify that the power cord and plug are in good condition.
- Ensure the disc is correctly installed and secured.
- Check that the protective guard is properly adjusted.
- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, gloves, and a dust mask.
- Secure the workpiece firmly.

2. Switching On/Off

- To switch on, slide the On/Off switch forward. For continuous operation, press the front part of the switch down until it locks.
- To switch off, release the switch. If locked, press the rear part of the switch to release it.
- Allow the disc to reach full speed before contacting the workpiece.

3. Grinding and Cutting Techniques

- **Grinding:** Hold the grinder at an angle of approximately 15-30 degrees to the workpiece. Apply moderate pressure and move the tool evenly across the surface.
- **Cutting:** Hold the grinder perpendicular (90 degrees) to the workpiece. Apply light, consistent pressure. Avoid tilting the disc, which can cause binding or kickback.
- Always direct sparks away from yourself and others.



Figure 3: Crown CT13501 Angle Grinder being used for metal grinding. This image demonstrates the angle grinder in operation, showing sparks generated during grinding, emphasizing the need for proper safety gear.

Maintenance

Regular maintenance ensures the longevity and safe operation of your angle grinder.

1. Cleaning

- **Always unplug the tool before cleaning.**
- Clean the ventilation slots regularly to prevent overheating. Use a soft brush or compressed air.
- Wipe the tool housing with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

2. Inspection

- Regularly inspect the power cord for damage. If damaged, have it replaced by a qualified technician.
- Check the protective guard and auxiliary handle for any signs of damage or looseness.
- Ensure the spindle lock mechanism functions correctly.

3. Storage

- Store the angle grinder in a dry, secure place, out of reach of children.
- Protect the tool from dust and moisture.

Troubleshooting

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

Problem	Possible Cause	Solution
Tool does not start.	No power supply; faulty switch; damaged cord.	Check power outlet and cord. Ensure switch is fully engaged. If problem persists, seek professional service.

Problem	Possible Cause	Solution
Excessive vibration.	Disc improperly mounted; damaged disc; worn bearings.	Check disc mounting and replace if damaged. If vibration continues, professional inspection is recommended.
Reduced performance/overheating.	Blocked ventilation slots; excessive pressure during operation.	Clean ventilation slots. Apply less pressure and allow the tool to cool.

For issues not listed here or if solutions do not resolve the problem, contact Crown customer support or a qualified service center.

Technical Specifications

Below are the key technical specifications for the Crown CT13501 Angle Grinder.

Specification	Value
Model	CT13501
Rated Power	650 W
Rated Speed	11000 min^{-1} (RPM)
Amperage (at 220-230 V)	3 A
Spindle Thread	M14
Cutting Disc Diameter	115 mm (4.5 inch)
Grinding Disc Diameter	115 mm (4.5 inch)
Rubber Sanding Plate Diameter	115 mm (4.5 inch)
Circular Wire Brush Diameter	75 mm
Cup Wire Brush Diameter	75 mm
Weight	1.8 kg (tool only) / 2.42 kg (item weight with packaging)
Voltage	230 Volts
Power Source Type	Corded Electric

Warranty and Support

Crown products are manufactured to high-quality standards. For warranty information, service, or technical support, please refer to the warranty card included with your product or contact Crown customer service directly.
Keep your purchase receipt as proof of purchase for any warranty claims.

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