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› DWT WS13-180 CTN Corded Angle Grinder User Manual

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Model: **WS13-180 CTN**

Brand: **DWT**

1. INTRODUCTION

Thank you for choosing the DWT WS13-180 CTN Corded Angle Grinder. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your tool. Please read this manual thoroughly before using the angle grinder and keep it for future reference. Failure to follow the instructions and safety warnings may result in electric shock, fire, and/or serious injury.

2. GENERAL SAFETY INSTRUCTIONS

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

2.1 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. 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.

2.2 Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cords increase the risk of electric shock.

2.3 Personal Safety

- Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, dust mask, and heavy-duty gloves.
- 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.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

2.4 Angle Grinder Specific Safety Warnings

- This power tool is intended to function as a grinder, sander, wire brush, or cut-off tool. 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.
- Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.
- The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.
- Always use the auxiliary handle provided with the tool. Loss of control can result in personal injury.
- Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your DWT WS13-180 CTN Angle Grinder before operation.



Figure 1: DWT WS13-180 CTN Corded Angle Grinder. This image shows the main body of the angle grinder, including the motor housing, main handle, auxiliary handle attachment point, disc guard, and spindle for disc mounting.

Key Components:

- **Main Handle:** For primary grip and control.
- **Auxiliary Handle:** Provides additional grip and stability, can be mounted on either side.
- **Spindle Lock Button:** Used to lock the spindle for easy disc changes.
- **On/Off Switch:** To power the tool.
- **Disc Guard:** Protects the user from sparks and debris, and from accidental contact with the spinning disc.
- **Power Cord:** For electrical connection.

4. SETUP AND ASSEMBLY

Before connecting the tool to a power source, ensure all components are correctly assembled.

4.1 Attaching the Auxiliary Handle

1. Screw the auxiliary handle into one of the threaded holes on the gear housing.
2. Tighten securely. The handle can be positioned for left or right-handed use.

4.2 Adjusting the Disc Guard

1. Loosen the screw or lever on the disc guard.
2. Rotate the guard to a position that provides maximum protection for your work.
3. Tighten the screw or lever firmly to secure the guard. **Never operate the grinder without the disc guard properly installed and adjusted.**

4.3 Installing/Changing Grinding Discs

1. Ensure the tool is unplugged from the power source.
2. Press and hold the spindle lock button.
3. Using the provided spanner wrench, loosen and remove the outer flange nut by turning it counter-clockwise.
4. Remove the old disc (if applicable).
5. Place the new grinding disc onto the spindle, ensuring it sits correctly on the inner flange. The disc should fit snugly.
6. Replace the outer flange nut and tighten it clockwise with the spanner wrench while holding the spindle lock button. Do not overtighten.
7. Release the spindle lock button.

5. OPERATING INSTRUCTIONS

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

5.1 Power Connection

- Ensure the on/off switch is in the 'OFF' position before plugging the tool into a power outlet.
- Connect the power cord to a suitable, grounded electrical outlet.

5.2 Switching On/Off

- To switch ON: Push the switch forward. For continuous operation, press the front part of the switch down until it locks.
- To switch OFF: For continuous operation, press the rear part of the switch. For momentary operation, release the switch.

5.3 Grinding Techniques

- Always hold the grinder firmly with both hands.
- Allow the disc to reach full speed before contacting the workpiece.
- Apply light, even pressure. Excessive pressure will reduce grinding efficiency and shorten disc life.
- Maintain an angle of approximately 15-30 degrees between the grinding disc and the workpiece surface for optimal material removal and control.
- Move the grinder smoothly across the workpiece.
- When cutting, ensure the cutting line is clear and the workpiece is securely clamped. Avoid binding the disc in the cut.

6. MAINTENANCE

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

6.1 Cleaning

- Always unplug the tool before cleaning.
- Regularly clean the ventilation openings to prevent overheating. Use compressed air to blow out dust and debris from the motor housing.
- Wipe the exterior of the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

6.2 Carbon Brush Inspection/Replacement

- Carbon brushes wear down over time. If the tool experiences reduced power or intermittent operation, the brushes may need inspection or replacement.
- Refer to a qualified service technician for carbon brush replacement to ensure proper installation and tool function.

6.3 Power Cord Inspection

- Regularly inspect the power cord for any signs of damage, cuts, or fraying.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.

7. 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 Worn carbon brushes	Check power outlet and cord Contact service center Have brushes inspected/replaced
Excessive vibration	Damaged or unbalanced disc Loose flanges Bent spindle	Replace disc Tighten flange nut Contact service center
Poor grinding performance	Worn or incorrect disc Insufficient pressure Overheating	Replace disc with appropriate type Apply consistent, light pressure Allow tool to cool; clean ventilation
Sparks from motor housing	Normal brush wear Excessive brush wear	Minor sparking is normal Have brushes inspected/replaced if excessive

If you encounter problems not listed here or if the suggested solutions do not resolve the issue, please contact DWT customer support or an authorized service center.

8. TECHNICAL SPECIFICATIONS

The following are the technical specifications for the DWT WS13-180 CTN Corded Angle Grinder:

- **Model Number:** WS13-180 CTN
- **Type:** Angle Grinder
- **Power Source:** Corded Electric

- **Brand Name:** DWT
- **Product Dimensions:** 10 x 20 x 37 cm
- **Item Weight:** 209 grams (*Note: This weight may refer to packaging or a specific component. Actual tool weight may vary.*)
- **Manufacturer:** DWT
- **ASIN:** B0922LK4XC
- **First Available Date:** April 8, 2021

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your purchase or contact your local DWT dealer or authorized service center. Keep your proof of purchase for any warranty claims.

For technical support, spare parts, or service inquiries, please visit the official DWT website or contact their customer service department. Always provide the model number (WS13-180 CTN) and ASIN (B0922LK4XC) when seeking support.

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