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DEWALT DCP580B

DEWALT 20V MAX Cordless Planer (DCP580B) User Manual

Model: DCP580B

1. Introduction

This manual provides essential information for the safe operation, maintenance, and setup of your DEWALT 20V MAX Cordless Planer, model DCP580B. Please read and understand all instructions before using the tool to ensure optimal performance and user safety.

2. Important Safety Instructions

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

- **Read all instructions:** Familiarize yourself with the tool's functions and limitations.
- **Wear eye protection:** Always wear safety goggles or glasses with side shields.
- **Wear hearing protection:** Prolonged exposure to noise from power tools can cause hearing damage.
- **Secure workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during operation.
- **Keep work area clean:** Cluttered areas invite accidents.
- **Avoid accidental starting:** Ensure the switch is in the OFF position before inserting the battery pack.
- **Do not overreach:** Maintain proper footing and balance at all times.
- **Disconnect battery:** Always remove the battery pack when not in use, before servicing, or when changing accessories.
- **Use correct tool:** Do not force small tools or attachments to do the job of a heavy-duty tool.
- **Inspect tool:** Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool’s operation.

3. Product Overview

The DEWALT DCP580B is a cordless planer designed for efficient material removal and precise woodworking tasks. Key components include the motor housing, depth adjustment knob, front and rear shoes, and blade drum.



Figure 3.1: Front-side view of the DEWALT 20V MAX Cordless Planer (DCP580B), showcasing its yellow and black design with the battery slot.



Figure 3.2: An annotated image of the DEWALT DCP580B planer highlighting its brushless motor, 5/64 inch maximum depth of cut, 30,000 cuts per minute, precision-machined aluminum shoes, and kickstand.

4. Setup

4.1 Battery Installation and Removal

The DCP580B operates on the DEWALT 20V MAX battery system. Ensure the battery is fully charged before use.

1. **To Install:** Align the battery pack with the tool's battery port. Slide the pack into the tool until it locks securely in place.
2. **To Remove:** Press the battery release button and pull the battery pack out of the tool.

4.2 Blade Installation and Adjustment

The planer uses reversible carbide blades. Refer to the included user guide for detailed instructions on blade replacement. Always disconnect the battery before performing any maintenance.

- Replacement blades: DEWALT Part Number DW6654.

4.3 Attaching the Guide Fence

The guide fence helps maintain a straight cut along the edge of your workpiece.

1. Insert the guide fence rods into the designated slots on the planer base.
2. Adjust the fence to the desired distance from the blade and tighten the locking knob securely.



Figure 4.1: The DEWALT DCP580B planer with its guide fence accessory installed, demonstrating how it aids in straight and consistent planing.

5. Operating Instructions

5.1 Adjusting Depth of Cut

The planer features a calibrated depth adjustment knob for precise control over material removal.

1. Rotate the front depth adjustment knob to select the desired cutting depth. The knob allows for adjustments in increments

as fine as 1/256 inch (approximately 0.01 mm).

2. The maximum depth of cut is 5/64 inch (2 mm).



Figure 5.1: A detailed view of the planer's depth adjustment knob, showing the calibrated markings for precise cut depth settings.

5.2 Planing Techniques

For best results, ensure your workpiece is stable and properly supported.

- **Starting the Cut:** Place the front shoe flat on the workpiece, ensuring the blades are not touching. Start the planer, then slowly advance it into the material.
- **Maintaining Control:** Apply even pressure to both handles and move the planer smoothly across the workpiece.
- **Edge Chamfering:** The precision machined groove in the front shoe allows for easy edge chamfering.
- **Kickstand Feature:** The integrated kickstand allows you to rest the planer on a work surface without damaging the workpiece or the blades.



Figure 5.2: A user demonstrating the DEWALT DCP580B planer in action, smoothing a large wooden beam outdoors.



Figure 5.3: A close-up image showing the integrated kickstand on the planer's base, designed to protect the workpiece and blades when the tool is set down.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your planer. Always disconnect the battery before performing any maintenance.

6.1 Cleaning

- Periodically clean the tool's ventilation slots to prevent overheating.
- Remove sawdust and debris from the planer base and blade area using a brush or compressed air.
- Do not use solvents or harsh chemicals for cleaning.

6.2 Blade Replacement

Worn or damaged blades will affect cutting performance. Replace blades as needed.

- Refer to the detailed instructions in the full user guide for the specific procedure for replacing the reversible carbide blades.
- Always use genuine DEWALT replacement blades (Part Number DW6654) for optimal performance and safety.

7. Troubleshooting

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

- **Planer does not start:** Check if the battery is fully charged and properly inserted. Ensure the safety switch is disengaged.
- **Poor cut quality (gouging, uneven surface):** Inspect blades for dullness, nicks, or improper installation. Ensure the workpiece is stable and the planer shoes are clean.
- **Excessive vibration or noise:** This could indicate loose components, damaged blades, or an issue with the motor. Discontinue use and inspect the tool.
- **Motor stalls under load:** Ensure you are not attempting to remove too much material in a single pass. Reduce the depth of cut.

8. Technical Specifications

Specification	Detail
Model Number	DCP580B
Power Source	Battery Powered (20V MAX)
Motor Type	Brushless
Maximum Rotational Speed	15,000 RPM
Cuts Per Minute	30,000
Maximum Cut Depth	5/64 in. (2 mm)
Depth Adjustment	Calibrated knob to 1/256 in. (0.01 mm)
Planing Width	3-1/4 in.
Item Weight	7.4 Pounds
Product Dimensions	13.6"L x 8"W x 8.9"H
Included Components	Planer, Users Guide, Guide Fence, Wrench

9. Warranty Information

DEWALT offers a limited warranty for the DCP580B planer.

- **3-Year Limited Warranty:** Covers defects in material or workmanship.
- **1-Year Free Service:** DEWALT will maintain the tool and replace worn parts caused by normal use, for free, any time during the first year after purchase.
- **90-Day Money Back Guarantee:** If you are not completely satisfied with the performance of your DEWALT Power Tool, Laser, or Nailer for any reason, you can return it within 90 days from the date of purchase for a full refund.

For full warranty terms and conditions, please refer to the official DEWALT warranty documentation or visit the DEWALT website.

10. Customer Support

For further assistance, technical support, or to locate a service center, please contact DEWALT customer service or visit the official DEWALT website.

- **Online Resources:** Visit the official DEWALT website for FAQs, product registration, and service center locators.
- **Contact Information:** Refer to your product packaging or the DEWALT website for current customer service contact details.

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