DEWALT DCF680N2

DEWALT 8V MAX Gyroscopic Cordless Screwdriver Kit (DCF680N2) Instruction Manual

Model: DCF680N2

1. Introduction

This manual provides essential instructions for the safe operation, setup, maintenance, and troubleshooting of your DEWALT 8V MAX Gyroscopic Cordless Screwdriver Kit, model DCF680N2. Please read this manual thoroughly before using the tool to ensure proper function and to prevent injury.



Figure 1: DEWALT 8V MAX Gyroscopic Cordless Screwdriver Kit (DCF680N2) including the screwdriver, charger, two batteries, and a kit bag.

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 operation and limitations.
- **Wear eye protection:** Always wear safety glasses or side shields.
- **Dress properly:** Avoid loose clothing or jewelry that can get caught in moving parts.
- **Secure workpiece:** Use clamps or a vise to hold the workpiece.
- **Maintain proper footing and balance:** Do not overreach.
- **Disconnect tool:** Always disconnect the battery pack before making adjustments, changing accessories, or storing the tool.
- **Avoid unintentional starting:** Ensure the switch is in the off position before inserting the battery pack.
- **Use the right tool:** Do not force a small tool or attachment to do the job of a heavy-duty tool.
- **Check for damaged parts:** Before further use, carefully check the tool for proper operation.
- **Keep work area clean:** Cluttered areas invite accidents.
- **Do not operate power tools in explosive atmospheres:** Such as in the presence of flammable liquids, gases, or dust.

3. Components and Features

The DEWALT DCF680N2 Gyroscopic Cordless Screwdriver is designed for precision fastening tasks. Key features include:

- **Motion Activation Variable Speed:** 0-430 RPM for precise control.
- **Adjustable Two-Position Handle:** Converts between in-line and pistol-grip for versatility.
- **15 Clutch Position Settings:** Prevents over-tightening and stripping.
- **1/4-inch Hex Chuck:** Allows for quick bit changes.
- **Integrated LED Light:** Illuminates the work area.
- **Battery Charge Status Indicator:** Displays remaining battery life.



Figure 2: The screwdriver in pistol-grip mode, highlighting its compact design.



Figure 3: The screwdriver in in-line mode, demonstrating its extended reach.

4. Setup

4.1 Charging the Battery

The kit includes two DEWALT DCB080 8V lithium batteries and a 1-hour charger. Ensure batteries are fully charged before first use.

1. Plug the charger into a standard electrical outlet.
2. Slide the battery pack into the charger until it clicks into place.
3. The charging indicator light on the charger will illuminate to show charging status.
4. Once fully charged, remove the battery pack from the charger.



Figure 4: The charger and battery components of the kit.

4.2 Installing/Removing Battery Pack

- **To Install:** Align the battery pack with the tool's handle and slide it in until it locks securely.

- **To Remove:** Press the battery release button (if present) and slide the battery pack out of the handle.

4.3 Installing/Removing Screwdriver Bits

- The 1/4-inch hex chuck accepts standard 1-inch bit tips.
- **To Install:** Push the bit firmly into the chuck until it locks.
- **To Remove:** Pull the chuck collar forward and pull the bit out.

5. Operating Instructions

5.1 Powering On/Off and Gyroscopic Control

The DCF680N2 features motion-activated variable speed control.

1. To activate the tool, press the trigger switch.
2. To drive a screw forward, rotate your wrist clockwise. The more you rotate, the faster the speed.
3. To reverse the screw, rotate your wrist counter-clockwise. The more you rotate, the faster the speed.
4. Release the trigger switch to turn off the tool.



Figure 5: Visual representation of the gyroscopic motion control for forward and reverse operation.

5.2 Adjusting the Handle Position

The handle can be adjusted for in-line or pistol-grip operation.

- To adjust, locate the pivot point on the tool.
- Gently pivot the handle to the desired position (in-line or pistol-grip) until it locks securely.



Figure 6: The screwdriver configured for pistol-grip use.



Figure 7: The screwdriver configured for in-line use.

5.3 Setting the Clutch

The clutch prevents over-tightening of fasteners. Rotate the clutch collar to select one of the 15 torque settings. Start with a lower setting and increase as needed for the application.

5.4 LED Work Light

The integrated LED light automatically illuminates when the trigger is pressed, providing visibility in dimly lit work areas.



Figure 8: The LED light feature in operation, illuminating the fastening point.

5.5 Battery Charge Status Indicator

The tool features a battery charge status indicator to show the remaining battery life. Monitor this indicator to know when to recharge the battery pack.



Figure 9: The battery charge status indicator on the tool.

6. Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** Keep the tool clean and free of dust and debris. Use a soft, damp cloth. Do not use harsh chemicals.
- **Lubrication:** This tool is factory lubricated and requires no additional lubrication.
- **Battery Care:** Store batteries in a cool, dry place. Do not store in discharged condition.
- **Inspection:** Periodically inspect the tool for any damaged parts, loose screws, or worn components.

7. Troubleshooting

Problem	Possible Cause	Solution
Tool does not operate.	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted.
Reduced power or speed.	Low battery charge.	Recharge the battery pack.
Screws are stripped or over-tightened.	Clutch setting is too high.	Adjust the clutch to a lower setting.
Bit falls out of chuck.	Bit not fully inserted or chuck collar not released.	Ensure bit is fully inserted and chuck collar is released after insertion.

8. Specifications

- **Model:** DCF680N2
- **Voltage:** 8V MAX
- **No-Load Speed:** 0-430 RPM
- **Clutch Settings:** 15
- **Chuck Size:** 1/4 inch Hex
- **Tool Weight:** 1.1 lbs (without battery)
- **Dimensions (L x W x H):** 12.5 x 3.13 x 8.88 inches
- **Battery Type:** Lithium Ion

9. Warranty and Support

This DEWALT product comes with a 3-year limited manufacturer warranty. For warranty claims, technical support, or service, please refer to the official DEWALT website or contact their customer service department.
Official DEWALT Website: www.dewalt.com

© 2023 DEWALT. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question