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**DEWALT DCF680N1**

# DEWALT 8V MAX Gyroscopic Cordless Screwdriver (DCF680N1) Instruction Manual

## 1. Introduction

The DEWALT 8V MAX Gyroscopic Cordless Screwdriver (DCF680N1) is engineered for precision, speed, and control in various fastening applications. Its innovative motion-activated variable speed and reversing control, combined with an adjustable two-position handle, provide versatility for both in-line and pistol-grip operations. This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your screwdriver.

## 2. Safety Information

Always adhere to 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 safety guidelines before use.
- **Wear Eye Protection:** Always wear appropriate eye protection that complies with ANSI Z87.1 standards.
- **Secure Workpiece:** Use clamps or a vise to hold the workpiece. This is safer than using your hand and frees both hands to operate the tool.
- **Maintain Good Balance:** Ensure proper footing and balance at all times.
- **Avoid Accidental Starting:** Ensure the switch is in the off position before inserting the battery pack.
- **Use Correct Tool:** Do not force the tool or attachment to do a job for which it was not designed.
- **Keep Work Area Clean:** Cluttered areas and benches invite injuries.
- **Store Idle Tools:** When not in use, tools should be stored in a dry, high, or locked-up place, out of reach of children.
- **Dress Properly:** Do not wear loose clothing or jewelry. Contain long hair.

## 3. Package Contents

The DEWALT 8V MAX Gyroscopic Cordless Screwdriver kit (DCF680N1) typically includes the following items:

- DEWALT 8V MAX Gyroscopic Cordless Screwdriver (DCF680N1)
- 1-Hour Charger (DCB095)

- One (1) 8V MAX Compact Battery
- Kit Bag




Figure 1: DEWALT DCF680N1 kit including the screwdriver, charger, battery, and carry bag.

## 4. Setup

### 4.1. Charging the Battery

Before initial use, fully charge the 8V MAX Lithium Ion battery. The charger is designed to charge the battery pack in approximately one hour.

- Connect the charger (DCB095) to a standard electrical outlet.
- Insert the 8V MAX battery pack into the charger. Ensure it is seated firmly.
- The charger's indicator light will show the charging status. Refer to the charger's specific instructions for light patterns (e.g., solid red for charging, solid green for fully charged).
- Once fully charged, remove the battery pack from the charger.




Figure 2: DEWALT 8V MAX battery charger (DCB095).

Video 1: This official DEWALT video demonstrates the charging process for the 8V MAX battery and charger.

## 4.2. Installing/Changing Bits

The DCF680N1 features a 1/4-inch hex chuck for quick and easy bit changes.

- To install a bit, pull the chuck collar forward and insert the 1/4-inch hex bit into the chuck.
- Release the collar to lock the bit in place. Ensure the bit is securely seated.
- To remove a bit, pull the chuck collar forward and pull the bit out.




Figure 3: Close-up view of the screwdriver's head, highlighting the 1/4-inch hex chuck for bit installation.

Video 2: This video demonstrates the process of installing and changing screwdriver bits in the 1/4-inch hex chuck.

## 5. Operating Instructions

### 5.1. Adjustable Two-Position Handle

The screwdriver features an adjustable handle that allows for operation in two positions:

- **In-line:** For extended reach and precision in tight spaces.
- **Pistol-grip:** For comfortable handling and increased leverage.

To adjust the handle, locate the pivot point and gently rotate the handle until it locks into the desired position.




Figure 4: The screwdriver configured in the pistol-grip position.




Figure 5: The screwdriver configured in the in-line position.

Video 3: This official DEWALT video illustrates how to adjust the screwdriver's handle between in-line and pistol-grip configurations.

## 5.2. Motion-Activated Control (Gyroscopic Technology)

The screwdriver utilizes gyroscopic technology for intuitive speed and direction control.

- Press the trigger to activate the tool.
- To drive a screw, rotate your wrist to the right (clockwise). The more you rotate, the faster the speed (up to 430 RPM).
- To remove a screw, rotate your wrist to the left (counter-clockwise). The more you rotate, the faster the speed.
- The tool will stop when your wrist returns to the neutral position.

Video 4: This official DEWALT video demonstrates the motion-activated gyroscopic control for driving and removing screws.

Video 5: This video provides a detailed overview of the gyroscopic control, showing how wrist movement dictates direction and speed.

## 5.3. Torque Settings

The screwdriver features a torque adjustment collar to prevent over-tightening or stripping screws.

- Rotate the collar to select the desired torque setting. Lower numbers indicate lower torque, suitable for delicate materials or small screws. Higher numbers provide more torque for tougher applications.
- Start with a lower torque setting and increase it as needed to avoid damaging the workpiece or fastener.

## 5.4. LED Work Light

An integrated LED light illuminates the work area, improving visibility in dimly lit conditions.

- The LED light activates automatically when the trigger is pressed.
- It provides illumination without shadowing, enhancing precision.




Figure 6: The screwdriver with its integrated LED light illuminating the work area.

## 5.5. Battery Status Indicator

The screwdriver includes a battery charge status indicator to monitor remaining power.

- The indicator lights up when the tool is in use or when the trigger is briefly pressed.
- Multiple green bars indicate a full charge, while fewer bars suggest the battery needs recharging.




Figure 7: The battery charge status indicator displaying a full charge.

### 5.6. Lock Button

A lock button is provided to prevent accidental activation and conserve battery life during storage or transport.

- Engage the lock button when the tool is not in use to prevent unintentional operation.
- Disengage the lock button before operating the tool.

## 6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your DEWALT screwdriver.

- **Cleaning:** Keep the tool's ventilation slots clean to prevent overheating. Use a soft, damp cloth to wipe down the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store batteries in a discharged state for extended periods.
- **Bit Maintenance:** Inspect screwdriver bits regularly for wear or damage. Replace worn bits to ensure efficient fastening and prevent cam-out.
- **Storage:** Store the screwdriver and its accessories in the provided kit bag in a dry, secure location, out of reach of children. Ensure the lock button is engaged before storage.

## 7. Troubleshooting

If you encounter issues with your DEWALT 8V MAX Gyroscopic Cordless Screwdriver, refer to the following common troubleshooting steps:

- **Tool Not Operating:**
  - Check if the battery is fully charged and properly inserted.
  - Ensure the lock button is disengaged.
  - Verify that the trigger is fully depressed.
- **Reduced Power/Speed:**
  - Recharge the battery pack.
  - Ensure the torque setting is appropriate for the task.
  - Check for worn or damaged bits and replace if necessary.
- **Bit Slipping/Stripping Screws:**
  - Ensure the correct bit type and size are used for the fastener.
  - Adjust the torque setting to a lower value.
  - Apply firm, steady pressure to keep the bit engaged with the screw head.

For persistent issues, contact DEWALT customer support or an authorized service center.

## 8. Specifications

| Feature | Specification |
|---|---|
| Brand | DEWALT |
| Model Number | DCF680N1 |
| Power Source | Battery Powered |
| Voltage | 8 Volts |
| Speed (No Load) | 0-430 RPM |
| Chuck Size | 1/4-inch Hex |
| Material | Plastic |
| Item Weight | 2.83 pounds |

| Feature | Specification |
|---|---|
| Product Dimensions | 12.5"L x 3.13"W x 8.88"H |
| Battery Cell Composition | Lithium Ion |
| Number of Batteries | 1 (included) |
| Special Features | Electric, Gyroscopic Technology |

## 9. Warranty and Support

The DEWALT 8V MAX Gyroscopic Cordless Screwdriver (DCF680N1) comes with a 3-year limited manufacturer warranty. For warranty claims, technical support, or service inquiries, please refer to the official DEWALT website or contact their customer service department. Keep your proof of purchase for warranty validation.


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