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## DEWALT DCK299D1W1



# DEWALT 20V MAX XR Cordless Drill Combo Kit User Manual

Model: DCK299D1W1

## INTRODUCTION

This manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of your DEWALT 20V MAX XR Cordless Drill Combo Kit, model DCK299D1W1. This kit includes a DCD998 20V MAX XR 1/2-inch 3-Speed Hammer Drill and a DCF887 20V MAX XR 1/4-inch 3-Speed Impact Driver, along with two lithium-ion batteries (8.0Ah and 2.0Ah) and a fast charger. Please read

this manual thoroughly before initial use.



Figure 1: DEWALT 20V MAX XR Cordless Drill Combo Kit (DCK299D1W1) components.

## Kit Contents

The DCK299D1W1 kit includes the following items:

- (1) DCD998 20V MAX\* XR® Brushless 1/2 in. Hammer Drill/Driver With POWER DETECT™
- (1) DCD887 20V MAX\* XR® Brushless 1/4 in. Impact Driver
- (1) DCB208 20V MAX\* Lithium Ion 8.0Ah Battery
- (1) DCB203 20V MAX\* Lithium Ion 2.0Ah Battery
- (1) Charger
- (1) Kit Bag

## KIT INCLUDES

DCD998 1/2" HAMMERDRILL, SIDE HANDLE, DCF887 1/4" IMPACT DRIVER, (1) 20V MAX\* XR® DCB208 BATTERY (8 AH), (1) 20V MAX\* XR® DCB203 BATTERY (2 AH), CHARGER, KIT BAG



\* MAXIMUM INITIAL BATTERY VOLTAGE (MEASURED WITHOUT A WORKLOAD) IS 20 VOLTS. NOMINAL VOLTAGE IS 18.

Figure 2: Included components of the DCK299D1W1 kit.

## SETUP

### 1. Battery Charging

Before first use, fully charge both lithium-ion batteries. The DCB118 Fast Charger is compatible with 20V MAX\* batteries and FLEXVOLT 20V/60V MAX\* batteries. The charge rate is 8 amps for premium batteries and 4 amps for compact batteries.

1. Connect the charger to a standard power outlet.
2. Slide the battery pack onto the charger until it clicks into place.
3. The charging indicator light will illuminate. Refer to the charger's specific manual for light patterns indicating charging status.
4. Once fully charged, remove the battery from the charger.

### 2. Attaching Batteries to Tools

To attach a battery, align the battery pack with the tool's battery port and slide it in until it locks securely. To remove, press the release button on the battery and slide it out.

### 3. Installing Accessories (Hammer Drill)



## 11 CLUTCH SETTINGS

Figure 3: Hammer Drill 1/2-inch Chuck.

1. Ensure the tool is off and the battery is removed.
2. Rotate the chuck counter-clockwise to open the jaws.
3. Insert the drill bit or accessory into the chuck.
4. Rotate the chuck clockwise to tighten the jaws securely around the accessory.
5. The DCD998 features a heavy-duty 1/2-inch ratcheting nitro-carburized metal chuck with carbide inserts for superior bit gripping strength.

### 4. Installing Accessories (Impact Driver)



Figure 4: Impact Driver with 1/4-inch Hex Chuck.

1. Ensure the tool is off and the battery is removed.
2. Pull the 1/4-inch hex chuck collar forward.
3. Insert the hex shank accessory (e.g., screwdriver bit) into the chuck.
4. Release the collar to lock the accessory in place.

## OPERATING INSTRUCTIONS

### DCD998 Hammer Drill/Driver



Figure 5: DCD998 Hammer Drill/Driver features.

- **Power Detect Technology:** When used with high-capacity XR batteries (like the included 8.0Ah battery), the DCD998 maximizes performance, delivering up to 29% more power compared to using a DCB205 battery.
- **3-Speed Transmission:** The hammer drill features a 3-speed, high-performance, all-metal transmission. Select the appropriate speed for the task:
  - Speed 1: Lower speed, higher torque for heavy-duty drilling and driving.
  - Speed 2: Medium speed for general drilling and driving.
  - Speed 3: High speed for fast drilling in lighter materials.
- **Clutch Settings:** The DCD998 has 11 clutch settings to prevent overdriving screws and damaging materials. Rotate the clutch collar to the desired setting. For drilling, set the collar to the drill icon.



Figure 6: Hammer Drill 11 Clutch Settings.

- **Hammer Mode:** For drilling into masonry materials, engage the hammer mode by rotating the collar to the hammer icon.
- **LED Work Light:** The DCD998 features a 3-mode LED with a spotlight mode for a 20-minute shutoff function, allowing for extended work time in dark or confined spaces.



## 3-MODE LED

Figure 7: Hammer Drill 3-Mode LED.

### DCF887 Impact Driver

- **3-Speed with Precision Drive:** The DCF887 offers three speed settings, including a Precision Drive mode, to optimize torque and speed for various applications.
  - Precision Drive: For delicate fastening applications, preventing overtightening and material damage.
  - Speed 2: Medium speed for general fastening.
  - Speed 3: High speed for maximum torque (1,825 in-lbs) and fast driving (0-3,250 RPM, 0-3,600 impacts per minute).
- **Compact and Lightweight:** Its compact size (5.3-inch front-to-back length) and lightweight design (3.4 lbs) make it suitable for working in confined spaces.

### MAINTENANCE

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

- **Cleaning:** Keep ventilation openings clear of dust and debris. Use a soft, damp cloth to clean the tool's exterior. Do not use solvents or harsh chemicals.

- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store batteries in a discharged state for extended periods.
- **Chuck Maintenance (Hammer Drill):** Periodically inspect the chuck jaws for wear. Clean any debris from the chuck mechanism.
- **General Inspection:** Regularly check for loose screws, damaged cords (if applicable to charger), or worn parts. Have any damaged parts repaired by a qualified service technician.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly inserted.	Ensure battery is fully charged and securely inserted.
Reduced power/performance	Battery charge is low; incorrect speed/clutch setting.	Recharge battery; adjust speed or clutch setting for the task.
Chuck not holding bit (Hammer Drill)	Bit not inserted correctly; chuck jaws worn or dirty.	Reinsert bit and tighten chuck firmly; clean chuck jaws. If wear is significant, seek service.
Impact driver bit wobbles	Bit not fully seated in hex chuck.	Pull collar forward, reinsert bit fully, and release collar.

If problems persist, contact DEWALT customer service or an authorized service center.

## SPECIFICATIONS

### General

- **Brand:** DEWALT
- **Model Number:** DCK299D1W1
- **Power Source:** Battery Powered
- **Voltage:** 20V
- **Battery Type:** Lithium Ion
- **Product Dimensions:** 16.63 x 9.9 x 6.9 inches
- **Item Weight:** 3.5 Pounds (tool only, without battery)
- **Included Components:** (1) DCD998 20V MAX\* XR® Brushless 1/2 in. Hammer Drill/Driver With POWER DETECT™; (1) DCD887 20V MAX\* XR® Brushless 1/4 in. Impact Driver; (1) DCB208 20V MAX\* Lithium Ion 8.0Ah Battery; (1) DCB203 20V MAX\* Lithium Ion 2.0Ah Battery; (1) Charger; (1) Kit Bag

### DCD998 Hammer Drill/Driver

- **Chuck Size:** 1/2 inch
- **Transmission:** 3-Speed, All-Metal
- **Clutch Settings:** 11
- **LED:** 3-Mode with 20-minute spotlight function
- **Power Detect:** Maximizes performance with high-capacity XR batteries

### DCF887 Impact Driver

- **Chuck Size:** 1/4 inch Hex
- **Max Torque:** 1825 Inch Pounds
- **Speed:** 0-3250 RPM
- **Impacts Per Minute:** 0-3600 IPM
- **Length (Front-to-back):** 5.3 inches

### **DCB118 Fast Charger**

- **Compatibility:** 20V MAX\* and FLEXVOLT 20V/60V MAX\* batteries
- **Charge Rate:** 8 Amps (premium batteries), 4 Amps (compact batteries)
- **Cooling:** Fan-cooled

### **WARRANTY AND SUPPORT**

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DEWALT provides a limited warranty for its products. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official DEWALT website. Keep your proof of purchase for warranty claims.

For technical assistance, service, or to locate an authorized service center, please visit the DEWALT Support website or contact their customer service department.