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BLACK+DECKER CD121K50

BLACK+DECKER CD121K50 12V Cordless Drill Machine Driver Instruction Manual

1. PRODUCT OVERVIEW

The BLACK+DECKER CD121K50 is a 12V 10mm 1.3 Ah Li-ion Cordless Drill Machine Driver designed for various drilling and driving tasks. This versatile tool features a multi-torque clutch, keyless chuck, and comes with a 50-piece accessory kit, making it suitable for a wide range of home improvement and DIY projects in wood, metal, and concrete.



Figure 1: BLACK+DECKER CD121K50 Cordless Drill with Key Specifications

Your browser does not support the video tag.

Video 1: Overview of the BLACK+DECKER 12V Cordless Drill, demonstrating its features and ease of use for various tasks like assembling furniture and driving screws.

2. PRODUCT FEATURES AND COMPONENTS

Familiarize yourself with the main parts of your drill driver:



Figure 2: Labeled Components of the Cordless Drill

- **Keyless Chuck:** Allows for quick and easy bit changes without the need for a chuck key.
- **17-Position Torque Control:** Provides precise power adjustment to prevent over-driving screws or damaging materials.
- **Variable Speed Trigger:** Offers control over drilling and driving speed based on pressure applied.
- **Forward/Reverse Slider:** Changes the rotation direction for drilling, driving, and removing screws.
- **Ergonomic Grip Handle:** Designed for user comfort and to reduce hand fatigue during extended use.
- **Battery:** 12V 1.3 Ah Li-ion battery pack for cordless operation.
- **Air Vents:** Facilitate motor cooling during operation.
- **Bit Holder:** Conveniently stores bits on the tool.

Included Components:

The BLACK+DECKER CD121K50 comes with a comprehensive accessory kit:



Figure 3: All Included Accessories

- 12 Volts Drill/Driver
- 1.3 Ah Ni-Cd battery pack
- Charger
- 1 double-ended screwdriver bit
- 12 titanium-coated high-speed drill bits
- 4 wood drill bits

- 4 wood spade bits
- 3 x 50mm screwdriver bits
- 20 x 25mm screwdriver bits
- 4 x nut drivers
- 2 x screw finders
- 1 x magnetic bit holder
- 1 kit box and warranty card

3. SETUP

3.1 Charging the Battery

Before first use, fully charge the battery. Connect the charger to a power outlet and insert the battery pack into the charging dock. The indicator light on the charger will show the charging status. Once fully charged, remove the battery from the charger.



Figure 4: Drill, Battery, and Charger

3.2 Installing and Removing the Battery

To install the battery, align the battery pack with the base of the drill handle and slide it in until it clicks securely into place. To remove, press the battery release button and slide the battery pack out.



Figure 5: Battery Release Button

3.3 Installing and Removing Drill Bits

The drill features a keyless chuck for easy bit changes:

1. To open the chuck, rotate the front collar counter-clockwise until the jaws are wide enough to insert the bit.
2. Insert the desired drill bit or screwdriver bit into the chuck. Ensure the bit is centered and fully seated.

3. Rotate the front collar clockwise to tighten the chuck jaws firmly around the bit. Hand-tighten only; do not use tools.
4. To remove a bit, rotate the collar counter-clockwise to loosen the jaws and pull the bit out.



Figure 6: Keyless Chuck and Torque Adjustment Collar

4. OPERATING INSTRUCTIONS

4.1 Selecting Torque Setting

The 17-position torque control collar allows you to adjust the amount of torque (rotational force) the drill applies. Rotate the collar to select the appropriate setting:

- Lower settings (1-5) are for driving small screws or working with soft materials.
- Medium settings (6-12) are for driving larger screws or working with medium-density materials.
- Higher settings (13-17) are for driving large screws or working with hard materials.
- The drill symbol setting is for drilling applications, providing maximum torque.

4.2 Selecting Rotation Direction

Use the forward/reverse slider located above the trigger to select the rotation direction:

- Push the slider to the left for forward rotation (drilling and driving screws).
- Push the slider to the right for reverse rotation (removing screws or freeing jammed bits).
- Center position locks the trigger for safety during storage or bit changes.



Figure 7: Forward/Reverse Slider and Variable Speed Trigger

4.3 Starting and Stopping

To start the drill, squeeze the variable speed trigger. The speed increases as you apply more pressure. To stop, release the trigger.

4.4 Drilling Techniques

When drilling, always wear appropriate safety gear. Secure your workpiece. Apply steady, even pressure. For wood, use wood drill bits or spade bits. For metal, use titanium-coated high-speed drill bits and consider using cutting oil to prolong bit life.



BATTERY

RELEASE BUTTON

EASY TO ACCESS BATTERY

Figure 8: Drilling into Wood



INCLUDED COMPONENTS

- 1 12V DRILL/DRIVER
- 2 CHARGER
- 3 BIT ACCESSORIES
- 4 DRILL BITS
- 5 4X WOODEN SPADE DRILL BITS
- 6 CHARGING DOCK
- 7 9.6V NI-CD BATTERY

Figure 9: Drilling into Metal

4.5 Driving Screws

Select the appropriate screwdriver bit and torque setting. Start with a lower torque setting and increase if necessary to avoid stripping screw heads or damaging the material. Apply firm, steady pressure to keep the bit engaged with the screw head.

5. MAINTENANCE

5.1 Cleaning

Regularly clean the tool's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Keep the air vents clear of dust and debris to ensure proper motor cooling.

5.2 Battery Care

To maximize battery life, store the battery in a cool, dry place away from direct sunlight. Avoid fully discharging the battery before recharging. If the tool will not be used for an extended period, charge the battery periodically.

5.3 Storage

Store the drill and its accessories in the provided kit box in a dry, secure location, out of reach of children. Ensure the forward/reverse slider is in the center (locked) position to prevent accidental startup.

6. TROUBLESHOOTING

- **Tool not starting:** Ensure the battery is fully charged and properly installed. Check that the forward/reverse slider is not in the center (locked) position.
- **Reduced power or slow operation:** The battery may be low on charge. Recharge the battery. If the issue persists, the battery may need replacement.
- **Bit slipping in chuck:** Ensure the chuck is tightened securely around the bit. The bit shank should be clean and free of oil or debris.
- **Overheating:** Ensure air vents are clear. Reduce continuous heavy load. Allow the tool to cool down.

7. SPECIFICATIONS

Feature	Specification
Brand	BLACK+DECKER
Model Number	CD121K50-IN
Power Source	Battery Powered
Voltage	12 Volts
Amperage	1.3 Amps
Battery Capacity	1.3 Amp Hours
Chuck Capacity	10 Millimetres
Number of Torque Settings	17
No-Load Speed	550 RPM
Drilling Capacity Wood	10 Millimetres
Drilling Capacity Metal	10 Millimetres
Material	Plastic
Item Weight	2780 Grams

Feature	Specification
Product Dimensions (L x W x H)	25L x 21.7W x 14.3H Centimeters
Special Feature	Variable Speed

8. WARRANTY AND SUPPORT

8.1 Warranty Information

This BLACK+DECKER CD121K50 drill driver comes with a **1-year warranty** provided by the manufacturer from the date of purchase. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For any warranty-related issues, product feedback, or technical assistance, please contact BLACK+DECKER customer care:



Figure 10: Customer Care Contact Information

Phone: 1800-203-0644 (Monday to Friday, 10 AM to 5 PM, except government holidays)

Email: SBD-CUSTOMERCOMMUNICATIONS@SBDINC.COM

WhatsApp: Scan the QR code in Figure 10 or visit <https://api.whatsapp.com/send?phone=919606055835>

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