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› [BLACK+DECKER 20V MAX POWERCONNECT Cordless Drill Driver \(LD120VA\) Instruction Manual](#)

BLACK+DECKER LD120VA

BLACK+DECKER 20V MAX POWERCONNECT Cordless Drill Driver (LD120VA) Instruction Manual

Model: LD120VA

1. INTRODUCTION

This manual provides essential instructions for the safe operation, maintenance, and troubleshooting of your BLACK+DECKER 20V MAX POWERCONNECT Cordless Drill Driver, model LD120VA. Please read this manual thoroughly before using the tool to ensure proper and safe usage.

2. IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

General Power Tool Safety Warnings

- **Work Area Safety:** Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Personal Safety:** Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

3. PRODUCT COMPONENTS

Familiarize yourself with the parts of your BLACK+DECKER LD120VA drill driver.



Image 3.1: Overview of the BLACK+DECKER LD120VA Cordless Drill Driver, highlighting the 24-position clutch, soft-grip handle, and 20V MAX battery.



30 pc. kit
For all of your
drilling/driving
needs.

Image 3.2: The LD120VA drill driver shown with its included 30-piece accessory kit, which contains various drill and driving bits.



Image 3.3: Detailed view of the 24-position clutch, designed to prevent stripping and overdriving screws.



Image 3.4: An illustration detailing the contents of the LD120VA kit, including the cordless drill/driver, various bits, battery, and charging base.

4. SETUP AND CHARGING

4.1 Charging the Battery

1. Ensure the charger is connected to a standard electrical outlet.
2. Slide the battery pack (LB20) onto the charger (LCS20) until it clicks into place.
3. The charging indicator light on the charger will illuminate, indicating that the battery is charging.
4. A full charge typically takes approximately 3-5 hours. Refer to the charger's specific instructions for detailed charging times.
5. Once fully charged, remove the battery from the charger.

Note: The battery is designed to hold a charge for up to 18 months when not in use.

4.2 Installing/Removing the Battery

- **To Install:** Align the battery pack with the base of the drill handle and slide it in until it locks securely.
- **To Remove:** Press the release button on the battery pack and slide it out from the drill handle.

4.3 Installing Drill/Driver Bits

- Ensure the drill is off and the battery is removed before changing bits.
- Twist the chuck counter-clockwise to open the jaws.
- Insert the desired drill bit or screwdriver bit into the chuck.

- Twist the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and firmly held.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To turn the drill on, press the trigger switch. The speed of the drill is variable, depending on how far the trigger is pressed.
- To turn the drill off, release the trigger switch.

5.2 Forward/Reverse Control

- The forward/reverse button is located above the trigger.
- Push the button to the left for forward rotation (for drilling and driving screws).
- Push the button to the right for reverse rotation (for removing screws).
- Center position locks the trigger, preventing accidental startup.

5.3 Adjusting the 24-Position Clutch

The 24-position clutch allows you to select the appropriate torque setting for your task, preventing overdriving or stripping screws.

1. Rotate the clutch collar (located behind the chuck) to the desired setting.
2. Lower numbers (1-4) are for driving small screws or working with soft materials.
3. Higher numbers (5-23) are for driving larger screws or working with harder materials.
4. The drill symbol setting is for drilling applications, providing maximum torque.



Image 5.1: Demonstrates the drill in use for a typical home improvement task, highlighting its ease of handling.



Image 5.2: The drill being used to secure a wall-mounted rail, showcasing its versatility for various applications.



Soft-grip handle
Offers added comfort
while you work.

Image 5.3: An example of the drill being used with a hole saw attachment for cutting circular holes.



Image 5.4: The drill driver in action for assembling wooden furniture or structures, demonstrating its utility for fastening tasks.

6. MAINTENANCE

6.1 Cleaning

- Regularly clean the ventilation slots on the drill to prevent overheating.
- Use a soft, damp cloth to wipe down the exterior of the tool. Do not use harsh chemicals or abrasive cleaners.
- Keep the chuck free of dust and debris to ensure proper bit gripping.

6.2 Battery Care

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store batteries in a discharged state for extended periods. Recharge them periodically if not in use.

- Do not incinerate battery packs, even if severely damaged or completely worn out.

6.3 Bit Maintenance

- Inspect drill and driver bits before each use for wear or damage. Replace dull or damaged bits to ensure optimal performance and safety.
- Keep bits clean and lightly oiled to prevent rust and extend their lifespan.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill does not start.	Battery not charged or improperly installed.	Ensure battery is fully charged and securely inserted.
Reduced power or speed.	Battery charge is low.	Recharge the battery.
Screws are stripping or overdriven.	Clutch setting is too high.	Adjust the 24-position clutch to a lower setting.
Bit slips in chuck.	Chuck not tightened sufficiently or bit is worn.	Tighten chuck firmly. Replace worn bits.

8. SPECIFICATIONS

Feature	Detail
Model Number	LD120VA
Voltage	20V MAX* (18V Nominal)
Power Source	Battery Powered (Lithium Ion)
Maximum Rotational Speed	750 RPM
Maximum Chuck Size	10 mm (3/8 inch)
Clutch Settings	24 positions + Drill mode
Item Weight	3.16 pounds
Included Components	LD120 drill, LB20 20V MAX Lithium Ion Battery, LCS20 Charger, Brad Point Drill Bits (6), 1 in. Screwdriving Bits (10), 2 in. Screwdriving Bits (9), Nut Drivers (4), Magnetic Bit Tip Holder (1)

*Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18 volts.

9. WARRANTY INFORMATION

This BLACK+DECKER product is covered by a **2-Year Limited Warranty** from the date of purchase. This warranty covers defects in material or workmanship. It does not cover damage due to normal wear and tear, abuse, or unauthorized repairs.

For full warranty details and to make a claim, please refer to the official BLACK+DECKER warranty policy or contact customer support.

10. CUSTOMER SUPPORT

If you have any questions about your BLACK+DECKER 20V MAX POWERCONNECT Cordless Drill Driver (LD120VA) or require technical assistance, please contact BLACK+DECKER customer support.

- **Website:** www.blackanddecker.com
- **Phone:** Refer to the BLACK+DECKER website for regional contact numbers.