

BLACK+DECKER BDCDD186K

BLACK+DECKER 18V Cordless Drill Driver BDCDD186K Instruction Manual

1. INTRODUCTION AND OVERVIEW

Thank you for purchasing the BLACK+DECKER 18V Cordless Drill Driver, model BDCDD186K. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before use and keep it for future reference.

This cordless drill driver is designed for various DIY and professional tasks, including drilling in wood and metal, and tightening screws. It features a powerful 18V lithium-ion battery, offering reliable performance with low self-discharge and minimal memory effect.

2. SAFETY INFORMATION

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools.

General Power Tool Safety Warnings:

- **Work Area Safety:** Keep the 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.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- BLACK+DECKER 18V Cordless Drill Driver (BDCDD186K)
- 1.5Ah Lithium-ion Battery x1
- Rapid Charger (approximately 40-minute charge time)
- Kit Box
- #2 Phillips / #8 Slotted Double-Ended Bit

4. PRODUCT FEATURES

- **Lithium-ion Battery:** Utilizes a lithium-ion battery with low self-discharge and minimal memory effect, ensuring consistent power and longer shelf life.
- **2-Speed Variable Transmission:** Offers two gear settings for speed control (0-360 RPM for low speed, 0-1400 RPM for high speed), allowing adaptation to various materials and tasks.
- **High Torque:** Delivers a maximum tightening torque of 40 N·m, making it ideal for demanding drilling and screwdriving applications in wood and metal.
- **Compact and Lightweight Design:** With dimensions of 7.8cm (W) x 18cm (D) x 22.5cm (H) and a weight of 1.23kg, the tool is easy to handle and maneuver.
- **11 Clutch Settings:** Includes 10 torque settings plus a dedicated drill mode, providing precise control to prevent overtightening screws or damaging materials.
- **Keyless Chuck:** Features a 1-10mm keyless chuck for quick and easy bit changes.

5. SETUP

5.1 Charging the Battery

Before first use, fully charge the 1.5Ah lithium-ion battery. Connect the rapid charger to a power outlet and insert the battery. The charger's indicator lights will show the charging status. A full charge takes approximately 40 minutes.

5.2 Installing/Removing the Battery

- **Installation:** Align the battery with the base of the drill driver and slide it in until it clicks securely into place.
- **Removal:** Press the battery release button (if present) and slide the battery out from the tool.

5.3 Installing/Removing Drill Bits

- **Installation:** Rotate the chuck counter-clockwise to open the jaws. Insert the desired drill bit or screwdriver bit into the chuck. Rotate the chuck clockwise to tighten the jaws firmly around the bit.
- **Removal:** Rotate the chuck counter-clockwise to loosen the jaws and remove the bit.

6. OPERATION

6.1 Powering On/Off and Speed Control

The drill driver is activated by pressing the trigger switch. The speed is variable depending on how far the trigger is pressed. Release the trigger to turn off the tool.

6.2 Gear Selection

Use the gear selector switch located on top of the tool to choose between two speed settings:

- **Gear 1 (Low Speed):** 0-360 RPM, suitable for high-torque applications like driving large screws or drilling large holes.

- **Gear 2 (High Speed):** 0-1400 RPM, suitable for faster drilling in softer materials or smaller screws.

Note: Always ensure the tool is stopped before changing gear settings.

6.3 Clutch Settings

The clutch collar allows you to select the appropriate torque setting for your task. Rotate the collar to align the desired number with the indicator mark. Higher numbers provide more torque. The drill symbol bypasses the clutch for maximum torque when drilling.

- **Settings 1-10:** For driving screws, adjust the setting to prevent overtightening or stripping screw heads. Start with a lower setting and increase if needed.
- **Drill Symbol:** For drilling holes, provides maximum torque without clutch engagement.

6.4 Forward/Reverse Control

The forward/reverse lever, located above the trigger, controls the direction of rotation. Push it to the left for forward (tightening) and to the right for reverse (loosening). Center position locks the trigger for safety.

6.5 Work Light

The integrated LED work light illuminates the work area when the trigger is pressed, improving visibility in dimly lit conditions.



Image: A person using the BLACK+DECKER 18V Cordless Drill Driver to drill a pilot hole into a wooden beam on an outdoor deck. The drill is held firmly, and wood shavings are visible around the drill bit.



Image: A person operating the BLACK+DECKER 18V Cordless Drill Driver in a confined space, possibly behind a wall. The integrated LED light on the tool is active, brightly illuminating the area around the drill bit and some electrical wiring.

7. MAINTENANCE

7.1 Cleaning

Keep the ventilation slots of the tool clean to prevent overheating. Use a soft, damp cloth to wipe down the exterior. Do not use harsh chemicals or abrasive cleaners. Periodically blow out dust and debris from the motor housing with compressed air.

7.2 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 batteries regularly, even if not in use, to maintain optimal performance and lifespan.

Your browser does not support the video tag.

Video: This video demonstrates the compact size and features of a BLACK+DECKER GoPak 10.8V battery, including its USB charging capability and battery status indicator. While this video features a 10.8V battery, the general principles of compact design,

durability, and battery status indication may apply to other BLACK+DECKER lithium-ion batteries, including the 18V battery for the BDCDD186K.

8. TROUBLESHOOTING

If you encounter issues with your drill driver, refer to the following common problems and solutions:

- **Tool does not start:** Ensure the battery is fully charged and properly inserted. Check that the forward/reverse lever is not in the center (locked) position.
- **Reduced power or short run time:** The battery may need recharging. Ensure the battery is not old or damaged. Extreme temperatures can affect battery performance.
- **Bit slips in chuck:** Ensure the chuck is tightened securely around the bit. The bit shank might be dirty or worn.
- **Overheating:** Ensure ventilation slots are clear of debris. Avoid continuous heavy-duty use without breaks.

If the problem persists after trying these solutions, contact BLACK+DECKER customer support.

9. SPECIFICATIONS

Feature	Specification
Brand	BLACK+DECKER
Model Number	BDCDD186K
Power Source	Rechargeable Battery
Voltage	18V
Battery Type	Lithium-ion
Battery Capacity	1.5Ah
Max Torque	40 N·m
No-Load Speed (Gear 1)	0-360 RPM
No-Load Speed (Gear 2)	0-1400 RPM
Clutch Settings	11 (including drill mode)
Chuck Size	1-10mm
Dimensions (L x W x H)	18 cm x 7.8 cm x 22.5 cm
Weight	1.23 kg (tool only) / 2.71 lbs (product weight, likely including battery)
Color	Red
Country of Origin	China
GTIN	04536178810869

Your browser does not support the video tag.

Video: This video showcases the BLACK+DECKER 18V Multi-Tool Impact Driver, model EVO185I1. It demonstrates the tool's compact design, ergonomic grip, and the ability to swap out different head attachments for various tasks like screwdriving and bolt tightening. While the model shown is an impact driver, it illustrates the versatility and design principles common across

10. WARRANTY AND SUPPORT

BLACK+DECKER products are manufactured to high-quality standards and are guaranteed against manufacturing defects. For specific warranty details, please refer to the warranty card included with your product or visit the official BLACK+DECKER website.

For technical assistance, spare parts, or repair services, please contact BLACK+DECKER customer support in your region. Have your model number (BDCDD186K) and purchase date ready when contacting support.