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› **Flex DD 4G 18.0-EC Cordless Drill Driver Instruction Manual**

## Flex 447765

# Flex DD 4G 18.0-EC Cordless Drill Driver Instruction Manual

Model: DD 4G 18.0-EC (447765)

## INTRODUCTION

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This manual provides comprehensive instructions for the safe and efficient operation of your Flex DD 4G 18.0-EC Cordless Drill Driver. Please read this manual thoroughly before using the tool and keep it for future reference. Understanding the features and proper usage will ensure optimal performance and extend the lifespan of your tool.

## SAFETY INFORMATION

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### General Power Tool Safety Warnings

- Always wear eye protection.
- Keep work area clean and well lit.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- Keep children and bystanders away while operating a power tool.
- Avoid accidental starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the 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.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.

### Specific Drill Driver Safety Warnings

- Hold power tool by insulated gripping surfaces when performing an operation where the cutting

accessory may contact hidden wiring or its own cord.

- Always ensure the workpiece is securely clamped or held.
- Do not force the drill. Allow the tool to work at its own pace.
- Ensure the chuck is tightened securely before operation.

## PACKAGE CONTENTS

The Flex DD 4G 18.0-EC Cordless Drill Driver package typically includes the following items:

- Flex DD 4G 18.0-EC Cordless Drill Driver (Tool only, battery and charger sold separately)
- 1 Handle (Part No. 489.417)
- 1 Belt Clip (Part No. 467.154)
- 1 Bit Holder (Part No. 453.995)
- 1 Bit Garage (Part No. 430.862)
- 1 L-BOXX 136 Transport Case (Part No. 414.085)
- 1 Case Insert (Part No. 477.591)



An image showing the Flex DD 4G 18.0-EC Cordless Drill Driver, its auxiliary handle, and the L-BOXX 136 transport case with its insert. The drill is red and black, resting on top of the closed black L-BOXX case.

## KEY FEATURES

The Flex DD 4G 18.0-EC Cordless Drill Driver is designed for high performance and durability. Key features include:

- **Electronic Management System (EMS):** Protects the machine, extends service life, and increases efficiency.
- **Brushless Motor:** Provides higher efficiency and a longer service life.
- **4-Speed Gearbox:** Offers speeds up to 4200 RPM for maximum drilling and screwdriving efficiency.
- **Accelerator Switch with Lock-on Function:** Allows for variable speed control and continuous operation.
- **Electronic Quick Brake:** Stops the chuck rotation quickly for increased safety and control.
- **Robust Die-Cast Aluminum Gear Housing:** Ensures durability and heat dissipation.
- **Metal Keyless Chuck with Auto-Lock Function:** For quick and easy bit changes.
- **Tool-Free Removable Chuck:** Enhances versatility for various applications.
- **Right/Left Rotation with Interlock:** For both driving and removing fasteners.
- **Extendable Handle:** Provides user protection even with high torque applications.
- **Ergonomic Non-Slip Rubber Grip:** For comfortable and secure handling.
- **Integrated LED Light:** Illuminates the work area.
- **LED Battery Capacity Display:** Shows the remaining battery charge.
- **Flex Battery System:** Compatible with all 18.0 V battery packs (sold separately).

## SETUP

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### Attaching the Auxiliary Handle

The auxiliary handle provides additional control and safety, especially during high-torque applications.

1. Loosen the handle by rotating it counter-clockwise.
2. Slide the handle onto the front of the drill driver, positioning it for comfortable use.
3. Tighten the handle by rotating it clockwise until it is secure.



A close-up image of the Flex DD 4G 18.0-EC Cordless Drill Driver with its auxiliary handle attached. The handle is positioned on the front of the tool, providing an additional grip point.

## Installing/Removing the Battery Pack

This tool operates with Flex 18.0 V battery packs (not included).

- 1. Installation:** Align the battery pack with the base of the tool and slide it in until it clicks into place.
- 2. Removal:** Press the battery release button (usually located on the battery pack) and slide the battery pack out.

## Installing/Removing Drill Bits or Screwdriver Bits

The tool features a metal keyless chuck.

- 1. Installation:** Rotate the chuck counter-clockwise to open the jaws. Insert the bit fully into the chuck. Rotate the chuck clockwise to tighten the jaws securely around the bit.
- 2. Removal:** Rotate the chuck counter-clockwise to open the jaws and remove the bit.



A close-up image of the metal keyless chuck on the Flex DD 4G 18.0-EC Cordless Drill Driver. The chuck jaws are visible, ready to accept a drill bit or screwdriver bit.

### Removable Chuck Function

The chuck can be removed without tools for specific applications or to use a bit directly in the spindle.

1. Ensure the tool is switched off and the battery is removed.
2. Rotate the chuck counter-clockwise until it detaches from the spindle.
3. To reattach, align the chuck with the spindle and rotate clockwise until it locks securely.

## OPERATING INSTRUCTIONS

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### Powering On/Off and Speed Control

1. **Power On:** Press the accelerator switch to start the tool. The speed is variable depending on the pressure applied to the switch.
2. **Power Off:** Release the accelerator switch. The electronic quick brake will stop the chuck rotation.
3. **Lock-on Function:** For continuous operation, press the accelerator switch and then engage the lock-on button (if present, typically on the side of the switch). To release, press the accelerator switch again.

### Selecting Rotation Direction (Forward/Reverse)

A forward/reverse switch is located above the accelerator switch.

- Push the switch to the left for forward rotation (drilling/driving).
- Push the switch to the right for reverse rotation (removing screws/bits).
- Position the switch in the center for the lock-off position, preventing accidental starting.

### Selecting Torque and Speed Settings

The tool features a torque collar and a 4-speed gearbox.

1. **Torque Setting:** Rotate the torque collar to select the desired torque level (1-11) for screwdriving. The drill symbol indicates drill mode, which bypasses the clutch for maximum power.
2. **Speed Setting:** Use the gear selector switch (typically on top of the tool) to choose between the four speed ranges (1, 2, 3, 4). Lower speeds are for higher torque applications (e.g., driving large screws), while higher speeds are for drilling.



A person wearing work gloves is operating the Flex DD 4G 18.0-EC Cordless Drill Driver to drill a hole into a metal sheet. The drill is held firmly with both hands, demonstrating proper usage.



A person is using the Flex DD 4G 18.0-EC Cordless Drill Driver to drill into a wooden beam with a large auger bit. The auxiliary handle is attached, providing stability during the operation.

## MAINTENANCE

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### General Cleaning

- Keep the ventilation slots of the tool clean to prevent overheating.
- Regularly clean the tool housing with a soft, damp cloth. Do not use solvents or abrasive cleaners.
- Remove any dust or debris from the chuck jaws.

### Battery Care

- Store battery packs in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store battery packs fully discharged. Charge them periodically if not in use for extended periods.
- Refer to the battery pack and charger manuals for specific charging and storage instructions.

### Chuck Maintenance

- Periodically inspect the chuck jaws for wear or damage.
- If the chuck becomes stiff, apply a small amount of dry lubricant to the jaws.

## TROUBLESHOOTING

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### Tool Does Not Start

- Ensure the battery pack is fully charged and properly inserted.
- Check that the forward/reverse switch is not in the center (lock-off) position.

- Verify that the accelerator switch is being pressed firmly.

## Reduced Power or Performance

- The battery pack may be low on charge. Recharge the battery.
- The selected torque setting may be too low for the application. Increase the torque setting or switch to drill mode.
- The drill bit or screwdriver bit may be dull or damaged. Replace with a sharp, appropriate bit.
- Overload protection may have activated. Allow the tool to cool down.

## Chuck Not Holding Bits Securely

- Ensure the chuck is tightened firmly.
- Check for debris inside the chuck jaws. Clean if necessary.
- Inspect the chuck jaws for wear or damage. If damaged, the chuck may need replacement.

## SPECIFICATIONS

The following are the technical specifications for the Flex DD 4G 18.0-EC Cordless Drill Driver:

| Specification                        | Value                       |
|--------------------------------------|-----------------------------|
| Battery Voltage                      | 18 V                        |
| Battery Capacity (compatible)        | 2.5 / 5.0 Ah                |
| Max. Torque (Soft/Hard)              | 64 / 135 Nm                 |
| Torque Settings                      | 11 + 1 (Drill Mode)         |
| No-Load Speed (1st/2nd/3rd/4th Gear) | 460 / 910 / 2100 / 4200 RPM |
| Chuck Width                          | 1.5 - 13 mm                 |
| Max. Drilling Diameter (Steel)       | 13 mm                       |
| Max. Drilling Diameter (Wood)        | 76 mm                       |
| Weight (without battery)             | 1.5 kg                      |
| Product Dimensions (L x W x H)       | 24 x 7.5 x 21.5 cm          |
| Manufacturer                         | FLEX                        |
| Model Number                         | 447765                      |
| Power Source                         | Cordless, Battery Powered   |
| Material                             | Metal                       |

## WARRANTY AND SUPPORT

### Warranty Information

Please refer to the warranty card included with your product or visit the official Flex website for detailed

warranty terms and conditions. Keep your proof of purchase for warranty claims.

## Customer Support

For technical assistance, spare parts, or service, please contact Flex customer support. Contact information can typically be found on the Flex website or in the product packaging.

### Related Documents - 447765

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|    | <p><a href="#"><b>FLEX PD 2G 18.0-EC/5.0 Set: 18V Cordless Impact Drill Driver</b></a></p> <p>Detailed overview of the FLEX PD 2G 18.0-EC/5.0 Set, a 2-speed 18V cordless impact drill driver featuring brushless motor technology, electronic management system, and included accessories like batteries and L-BOXX case.</p>   |
|   | <p><a href="#"><b>FLEX DD 4G 18.0-EC/5.0 Set 18V Cordless Drill/Driver - 4-Speed Technical Specifications</b></a></p> <p>Comprehensive technical specifications and features for the FLEX DD 4G 18.0-EC/5.0 Set, an 18V cordless drill/driver with 4-speed transmission, brushless motor, EMS, and included accessories like batteries and charger. Details include performance data, dimensions, and equipment.</p> |
|  | <p><a href="#"><b>FLEX DD 2G 18.0-EC LD C 18V Cordless Drill - Features and Technical Specifications</b></a></p> <p>Comprehensive details on the FLEX DD 2G 18.0-EC LD C 18V cordless drill, highlighting its compact design, brushless motor, 2-speed functionality, and key technical specifications for professional use. Includes delivery contents.</p>   |
|  | <p><a href="#"><b>FLEX DD 2G 18.0-EC HD 18V Cordless Drill Driver - Technical Specifications and Features</b></a></p> <p>Detailed information on the FLEX DD 2G 18.0-EC HD 18V 2-speed cordless drill driver, including technical specifications, features, and standard equipment. Learn about its brushless motor, high torque, and ergonomic design.</p>  |

