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Metabo 601749500

Metabo PowerMaxx BS BL Q Cordless Drill/Driver User Manual

Model: 601749500

1. Introduction

Thank you for choosing the Metabo PowerMaxx BS BL Q Cordless Drill/Driver. This tool is designed for professional users, offering reliability, compact size, and powerful performance for various drilling and screwdriving tasks. This manual provides essential information for safe operation, proper setup, effective use, and maintenance of your new tool.



Figure 1: Metabo PowerMaxx BS BL Q Cordless Drill/Driver

This image shows the Metabo PowerMaxx BS BL Q cordless drill/driver from a side angle, highlighting its compact design, ergonomic grip, and the 12V battery pack at the base. The chuck, LED work light, and belt hook are visible.

2. General Safety Instructions

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

2.1. Work Area Safety

- Keep your 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.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2. Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

2.3. Personal Safety

- Stay alert, watch what you are doing, and use common sense when operating a power tool.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the tool.

2.4. Power 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.
- 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 and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool’s operation.

2.5. Battery Tool Use and Care

- Recharge only with the charger specified by the manufacturer.
- Use power tools only with specifically designated battery packs.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.

3. Package Contents

Your Metabo PowerMaxx BS BL Q Cordless Drill/Driver package includes the following components:

- Metabo PowerMaxx BS BL Q Cordless Drill/Driver
- Quick-change drilling chuck
- Belt hook
- 2 x Li-Power slide-on battery packs (12 V/2.0 Ah)
- LC 40 battery charger

- Plastic case

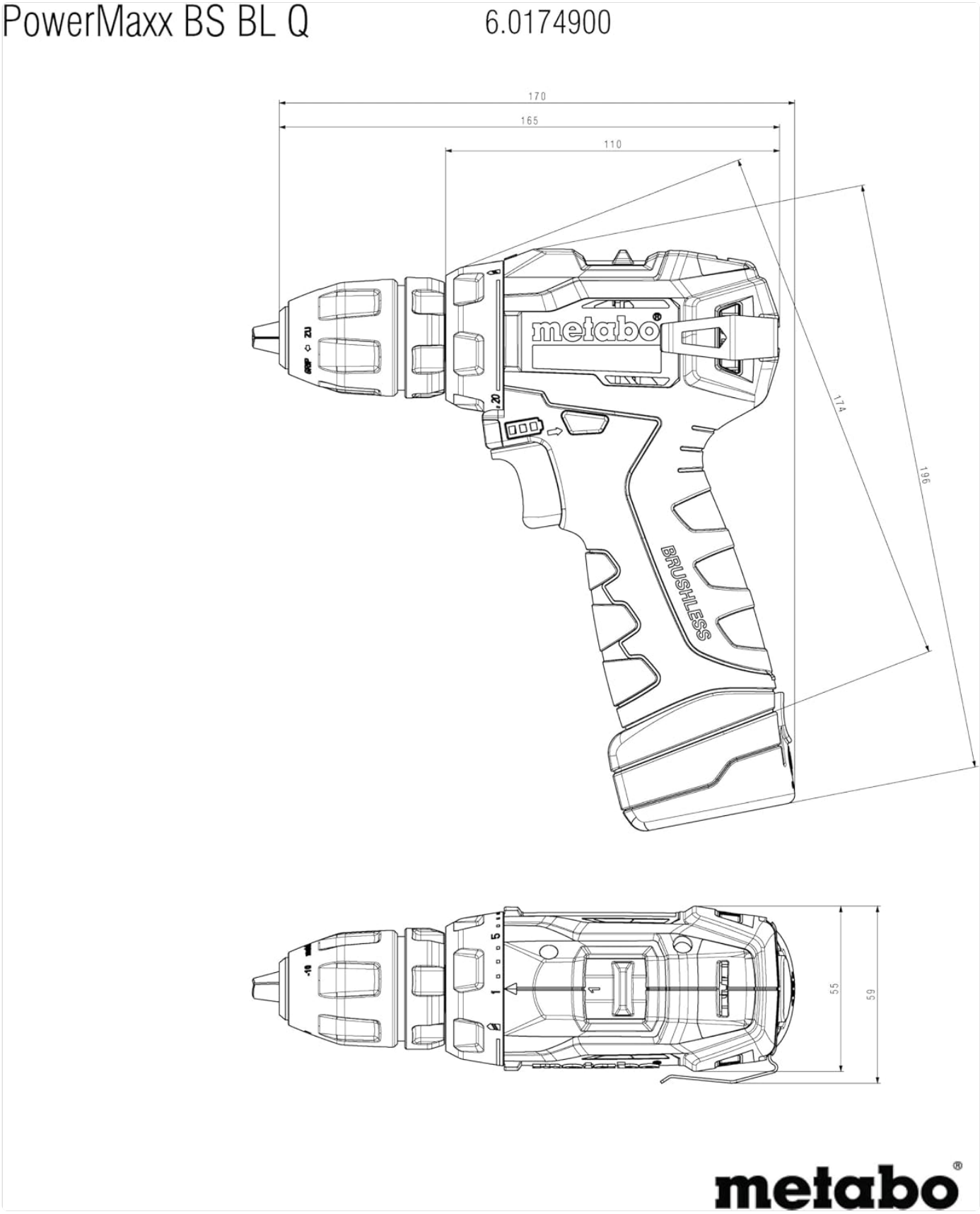


Figure 2: Metabo PowerMaxx BS BL Q with various accessories

This image displays the Metabo PowerMaxx BS BL Q drill/driver alongside its quick-change chuck, a drill bit, a screwdriver bit, and a right-angle attachment, illustrating the versatility of the system.

4. Setup

4.1. Charging the Battery Pack

1. Connect the LC 40 battery charger to a power outlet.
2. Slide the Li-Power battery pack onto the charger until it clicks into place.
3. Allow the battery to charge fully before first use. The charger indicator light will show charging status.

4.2. Attaching/Detaching the Quick-Change Chuck

The PowerMaxx BS BL Q features a quick-change system for various attachments.

1. To attach the quick-change drilling chuck: Align the chuck with the spindle of the drill and push it firmly until it locks into place.
2. To detach the quick-change drilling chuck: Pull the chuck forward away from the drill body to release it.



Figure 3: Metabo PowerMaxx BS BL Q without quick-change chuck

This image shows the Metabo PowerMaxx BS BL Q drill/driver with its quick-change chuck removed, revealing the hexagonal bit holder on the spindle, ready for direct bit insertion or attachment of other accessories.



Figure 4: Metabo PowerMaxx BS BL Q with quick-change chuck attached

This image shows the Metabo PowerMaxx BS BL Q drill/driver with the quick-change chuck securely attached, demonstrating its readiness for drilling operations.

4.3. Inserting Drill Bits/Screwdriver Bits

Bits can be inserted directly into the spindle or into the quick-change chuck.

- **Direct Insertion:** For screwdriver bits, push the bit directly into the hexagonal spindle until it locks.
- **Using the Chuck:** Open the chuck jaws by rotating the chuck collar. Insert the drill bit or screwdriver bit and tighten the chuck collar firmly to secure the bit.





Figure 5: Close-up of Metabo PowerMaxx BS BL Q chuck

This close-up image focuses on the chuck of the Metabo PowerMaxx BS BL Q drill/driver, showing the quick-change mechanism and the adjustable torque settings.

4.4. Attaching the Belt Hook

The practical belt hook can be attached to either the right or left side of the tool without tools.

- Align the belt hook with the designated slot on the side of the tool.
- Push the hook firmly until it clicks into place.

5. Operating Instructions

5.1. Powering On/Off and Speed Control

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

5.2. Forward/Reverse Rotation

The direction of rotation is controlled by the forward/reverse switch located above the trigger.

- Push the switch to the left for forward rotation (for drilling and screwdriving).
- Push the switch to the right for reverse rotation (for unscrewing).
- Ensure the switch is in the neutral (middle) position when not in use to prevent accidental starting.

5.3. Torque Setting

The torque setting ring allows you to adjust the amount of torque applied, preventing overtightening of screws or damage to materials.

- Rotate the torque setting ring to select the desired torque level. Lower numbers are for smaller screws or softer materials, higher numbers for larger screws or harder materials.
- For drilling, set the ring to the drill symbol for maximum torque.

5.4. Integrated LED Work Light

The integrated LED work light illuminates the work area for optimal visibility, especially in dimly lit conditions. It also features a night light function.

- The LED light activates automatically when the trigger is pressed.

5.5. Battery Capacity Display

A convenient capacity display allows you to monitor the battery's charge level.

- Press the battery capacity button (if available) or observe the indicator lights on the battery pack to check the remaining charge.

5.6. Using Special Attachments (e.g., Right-Angle Attachment)

The quick-change system allows for easy attachment of specialized accessories like the right-angle attachment, useful for working in confined spaces.



Figure 6: Metabo PowerMaxx BS BL Q with right-angle attachment

This image shows the Metabo PowerMaxx BS BL Q drill/driver fitted with a right-angle attachment, demonstrating its capability for accessing tight or awkward spaces during operation.





Figure 7: User operating drill with right-angle attachment in a confined area

This image depicts a user operating the Metabo PowerMaxx BS BL Q drill/driver with the right-angle attachment to work on electrical wiring in a very confined space, highlighting the tool's utility in difficult-to-reach areas.



Figure 8: User operating drill inside a cabinet

This image shows a user utilizing the Metabo PowerMaxx BS BL Q drill/driver to work on hardware inside a cabinet, demonstrating its compact size and maneuverability for interior assembly or repair tasks.

6. Maintenance

6.1. Cleaning

- Regularly clean the ventilation slots of the tool to prevent dust accumulation, which can affect performance and motor life. Use a soft brush or compressed air.
- Wipe the tool housing with a damp cloth. Do not use harsh cleaning agents or solvents.

6.2. Battery Care

- Store battery packs in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, charge battery packs to approximately 50-70% capacity.
- Do not expose battery packs to water or moisture.

6.3. Chuck Maintenance

- Keep the chuck jaws clean and free of debris to ensure proper gripping of bits.
- Apply a small amount of light machine oil to the chuck jaws periodically if they become stiff.

7. Troubleshooting

If you encounter issues with your Metabo PowerMaxx BS BL Q, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not turn on.	Battery not charged or not inserted correctly.	Ensure battery is fully charged and properly seated.
Loss of power during operation.	Battery charge low.	Recharge the battery pack.
Chuck not holding bit securely.	Chuck jaws dirty or worn.	Clean chuck jaws. If problem persists, consider replacing the chuck.
Tool overheating.	Overloading or blocked ventilation.	Reduce load, allow tool to cool, clear ventilation slots.

If the problem persists after attempting these solutions, please contact Metabo customer support or an authorized service center.

8. Specifications

Key technical specifications for the Metabo PowerMaxx BS BL Q Cordless Drill/Driver:

Feature	Specification
Model Number	601749500
Manufacturer	Metabo
Power Source	Battery
Battery Type	Lithium-ion
Battery Voltage	12 Volts
Battery Capacity	2 Ah
Max Torque (Hard)	38 Newton-meters
Max Torque (Soft)	20 Newton-meters
No-Load Speed	1500 rpm
Product Dimensions (L x W x H)	50 x 50 x 28 cm
Product Weight	700 grams
Special Features	Cordless, Integrated LED work light, Quick-change chuck, Belt hook



Figure 9: Technical drawing of Metabo PowerMaxx BS BL Q

This technical drawing provides precise dimensions and an outline of the Metabo PowerMaxx BS BL Q drill/driver, useful for understanding its physical characteristics and fit in various applications.

9. Warranty and Support

Metabo products are manufactured to the highest quality standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Metabo website.

For technical support, spare parts, or service inquiries, please contact your local Metabo dealer or the Metabo customer service department. Ensure you have your product model number (601749500) and serial number ready when contacting support.

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