Makita BL1820

Makita BL1820 18V Compact 2.0Ah Lithium-Ion Battery Instruction Manual

Introduction

This manual provides essential information for the safe and effective use of your Makita BL1820 18V Compact 2.0Ah Lithium-Ion Battery. This battery is designed to deliver reliable power for Makita 18V LXT and 18V Compact cordless tools, offering extended run time and a fast charge capability.

The Makita BL1820 battery provides up to 50% more run time per charge compared to the 18V 1.5Ah battery (BL1815) and can reach a full charge in approximately 25 minutes when used with a Makita Rapid Optimum Charger (sold separately). It is engineered to deliver consistent power and performance, even in extreme temperatures.



Image: Makita BL1820 18V Compact 2.0Ah Lithium-Ion Battery, front view.

Important Safety Information

Always read and understand all safety warnings and instructions before using this battery. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Do not disassemble, open, or shred battery pack.
- Do not short-circuit a battery pack. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials.
- Do not expose battery pack to heat or fire. Avoid storage in direct sunlight.
- Do not subject battery pack to mechanical shock.
- In the event of battery leakage, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Keep battery pack clean and dry.
- Recharge only with the charger specified by Makita. Do not use any charger other than that specifically provided for use with the equipment.
- Do not use any battery pack which is not designed for use with the equipment.
- Keep battery pack out of the reach of children.
- Observe the plus (+) and minus (-) marks on the battery and equipment and ensure correct use.
- Dispose of battery pack properly.

Setup and Charging

Initial Charging

Before first use, fully charge the battery. Connect the battery to a compatible Makita Rapid Optimum Charger (sold separately). The charger will indicate when the battery is fully charged. A full charge typically takes 25 minutes or less.

Installing the Battery

To install the battery into a compatible Makita 18V LXT or 18V Compact cordless tool:

1. Align the battery with the battery port on the tool.
2. Slide the battery into the port until it clicks securely into place. Ensure it is fully seated and locked.



Image: Underside view of the Makita BL1820 battery, showing the connector terminals.

Removing the Battery

To remove the battery from a tool, press the release button(s) on the battery pack and slide the battery out of the tool.

Operation

The Makita BL1820 battery is designed for use with Makita 18V LXT and 18V Compact cordless tools. Once installed, the tool is ready for operation according to its specific instruction manual.

Optimal Performance Tips

- Always use fully charged batteries for best tool performance.
- Avoid completely draining the battery before recharging to prolong its lifespan.
- The battery delivers consistent power even in extreme temperatures, down to -4°F (-20°C).

Maintenance and Storage

Cleaning

Keep the battery terminals clean. Use a dry cloth to wipe off any dust or debris. Do not use water or chemical cleaners.

Storage

- Store the battery in a cool, dry place, away from direct sunlight and excessive heat.
- For long-term storage, it is recommended to store the battery with a partial charge (around 50%).
- Do not store the battery in a discharged state for extended periods.

Troubleshooting

If you encounter issues with your Makita BL1820 battery, refer to the following table:

Problem	Possible Cause	Solution
Battery not charging	Battery not properly seated in charger; Charger not plugged in; Faulty charger or battery.	Ensure battery is fully seated. Check charger connection. Try another charger/battery if available.
Tool not operating	Battery discharged; Battery not properly installed; Tool malfunction.	Charge battery. Re-install battery securely. Consult tool's manual for troubleshooting.
Reduced run time	Battery nearing end of life; Stored in extreme conditions; Heavy tool usage.	Consider replacing battery. Store battery in recommended conditions.

Product Specifications

Feature	Detail
Model Number	BL1820
Voltage	18 Volts
Battery Capacity	2.0 Amp Hours (2.0Ah)
Battery Cell Type	Lithium-Ion
Item Weight	13 ounces
Product Dimensions	7 x 7 x 3 inches
Charge Time (Rapid Optimum Charger)	25 minutes or less
Compatibility	All Makita 18V LXT and 18V Compact cordless tools

Warranty Information

The Makita BL1820 18V Compact 2.0Ah Lithium-Ion Battery comes with a 3-year limited warranty. For specific terms and conditions, please refer to the official Makita warranty documentation or contact Makita customer service.

Support and Contact

For further assistance, technical support, or service inquiries regarding your Makita BL1820 battery or compatible tools, please visit the official Makita website or contact Makita customer service directly.

You can also visit the Makita Store on Amazon for product information and accessories.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question