RYOBI RB1840X

RYOBI RB1840X 18V ONE+ 4.0Ah Lithium+ Battery User Manual

Model: RB1840X

1. Introduction

This manual provides essential information for the safe and effective use of your RYOBI RB1840X 18V ONE+ 4.0Ah Lithium+ Battery. This battery is designed for use with the RYOBI ONE+ system of cordless tools. It incorporates Lithium+ battery technology, which provides enhanced power output, extended run-times, and increased durability compared to previous lithium battery designs. Key features include IntelliCell technology for individual cell monitoring and balancing, a 4-stage fuel gauge, and a robust design with built-in impact protection.



Figure 1: Front view of the RYOBI RB1840X 18V ONE+ 4.0Ah Lithium+ Battery.

2. Safety Information

Always read and understand all safety warnings and instructions provided with the battery and the tool it powers. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Do not disassemble, open, or shred battery cells or packs.
- 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 packs to heat or fire. Avoid storage in direct sunlight.
- Do not subject battery packs 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 packs clean and dry.
- Recharge only with the charger specified by the manufacturer.
- 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 packs out of the reach of children.

- Observe the plus (+) and minus (-) marks on the battery and equipment and ensure correct use.

3. Setup

3.1 Initial Charging

Before first use, fully charge the battery pack. A compatible RYOBI ONE+ charger (sold separately) is required. Refer to the charger's instruction manual for specific charging procedures.

1. Connect the charger to a power outlet.
2. Slide the battery pack onto the charger until it clicks into place.
3. Allow the battery to charge until the charger indicates a full charge (refer to charger manual for indicator lights).
4. Once charged, remove the battery pack from the charger.

3.2 Inserting the Battery into a Tool

Ensure the tool is switched off before inserting or removing the battery pack.

1. Align the battery pack with the battery port on the tool.
2. Slide the battery pack into the tool until it clicks securely into place.
3. To remove, press the battery release latch (if present on the tool) and slide the battery pack out.



Figure 2: The RB1840X battery properly inserted into a RYOBI ONE+ drill.

4. Operating

4.1 Fuel Gauge

The RB1840X battery features a 4-stage fuel gauge to indicate the remaining charge level. Press the fuel gauge button on the battery to activate the indicator lights.

- **Four lights:** Approximately 100% charge remaining.
- **Three lights:** Approximately 75% charge remaining.
- **Two lights:** Approximately 50% charge remaining.
- **One light:** Approximately 25% charge remaining.
- **No lights:** Battery is discharged and requires charging.



Figure 3: The 4-stage fuel gauge on the RB1840X battery indicating charge level.

4.2 IntelliCell Technology

This battery incorporates IntelliCell technology, which monitors and balances individual cells within the battery pack. This technology helps to maximize run-times, extend storage life, and enhance overall safety during operation and charging.



Figure 4: Diagram showing the internal structure and cell monitoring of IntelliCell technology.

5. Maintenance

5.1 Cleaning

Keep the battery pack clean and free of debris. Use a clean, dry cloth to wipe down the exterior of the battery. Do not use water, solvents, or harsh chemicals.

5.2 Storage

For optimal battery life, store the battery pack in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery has a partial charge (e.g., 50-75%). Avoid storing fully discharged batteries.

5.3 Disposal

Lithium-ion batteries should not be disposed of with household waste. Always follow local regulations for proper disposal or recycling of battery packs. Contact your local waste management authority for information on recycling options.

6. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Battery not charging	• Charger not plugged in. • Battery not properly seated on charger. • Battery or charger is faulty. • Battery too hot or too cold.	• Ensure charger is securely plugged into a working outlet. • Reseat the battery on the charger. • Test with another known-good battery or charger if available. • Allow battery to reach room temperature before charging.
Tool not operating with battery	• Battery not fully charged. • Battery not properly inserted into tool. • Battery or tool is faulty.	• Charge the battery fully. • Ensure battery is securely clicked into the tool. • Test with another known-good battery or tool if available.
Reduced run-time	• Battery is old or worn out. • Operating in extreme temperatures. • Tool is under heavy load.	• Consider replacing the battery if it's significantly older. • Operate tools within recommended temperature ranges. • Ensure the tool is appropriate for the task.

7. Specifications

Model Number: RB1840X

Part Number: 5133005053

Brand: RYOBI

Voltage: 18 Volts

Battery Capacity: 4.0 Amp Hours (4.0Ah)

Battery Cell Type: Lithium Ion

Product Dimensions: 16.5 x 7.5 x 7.5 cm

Item Weight: 700 g

Compatibility: RYOBI ONE+ System

8. Warranty Information

RYOBI products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official RYOBI website. Keep your proof of purchase for warranty claims.

9. Support

For technical assistance, replacement parts, or further information regarding your RYOBI RB1840X battery, please contact RYOBI customer service. Contact details can typically be found on the RYOBI official website or on the product packaging.

Online Resources: www.ryobitools.com (Note: This is a general link, specific regional sites may vary.)