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Makita XRV01T

Makita XRV01T 18V LXT Lithium-Ion Cordless 4' Concrete Vibrator Kit User Manual

Comprehensive instruction manual for the Makita XRV01T 18V LXT Lithium-Ion Cordless 4-foot Concrete Vibrator Kit, covering setup, operation, maintenance, and safety.

1. Introduction

This manual provides essential information for the safe and effective use of the Makita XRV01T 18V LXT Lithium-Ion Cordless 4' Concrete Vibrator Kit. Please read and understand all instructions before operating the tool. Keep this manual for future reference.

The Makita XRV01T is designed to consolidate concrete by removing air bubbles, thereby increasing the strength and finish quality of concrete pours. It features a Makita-built motor delivering 13,000 VPM and offers extended run time with 18V LXT 5.0Ah batteries.



Image 1.1: Makita XRV01T Kit including the vibrator tool, two 18V LXT 5.0Ah batteries, a rapid optimum charger, and a tool case.

2. Safety Information

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. This section outlines general safety guidelines applicable to power tools.

2.1 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 such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. It will do the job better and safer at the rate for which it was designed.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

2.2 Specific Concrete Vibrator Safety Warnings

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
- Ensure the concrete vibrator is securely assembled before use.
- Do not operate the tool if the vibrator shaft is damaged or bent.

- Keep hands and clothing clear of the vibrating shaft during operation.
- Avoid prolonged exposure to vibration, which can cause hand-arm vibration syndrome. Take regular breaks.
- Do not immerse the motor housing in water or concrete.
- Ensure the battery is fully charged and properly inserted before starting work.

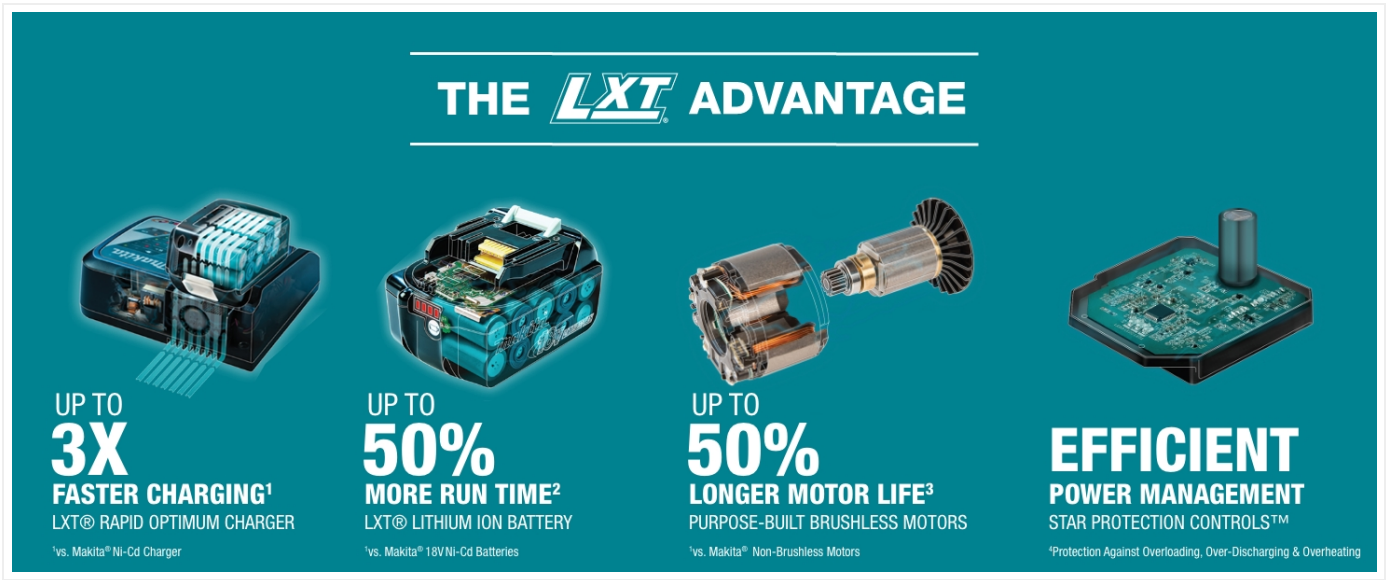


Image 2.1: Important safety warning regarding the use of genuine Makita Lithium-Ion batteries to prevent hazards.

3. Setup

3.1 Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the tool for any signs of damage that may have occurred during shipping. Do not operate a damaged tool. Contact your dealer for assistance.

3.2 Battery Installation and Charging

1. Insert the 18V LXT Lithium-Ion battery into the rapid optimum charger. Ensure it clicks into place.
2. Connect the charger to a standard power outlet. The charger indicator lights will show the charging status.
3. Once fully charged, remove the battery from the charger.
4. Align the charged battery with the battery port on the concrete vibrator handle. Slide the battery into place until it locks securely.
5. To remove the battery, press the release button and slide the battery out.

3.3 Assembling the Vibrator Shaft

The 4-foot vibrator shaft is typically pre-assembled or easily attached. Ensure the connection between the motor unit and the flexible shaft is tight and secure before operation.



Image 3.1: The Makita XRV01T concrete vibrator tool with battery attached, ready for use.

4. Operating Instructions

4.1 Pre-Operation Checks

- Verify the battery is fully charged.
- Inspect the vibrator shaft for any damage or wear.
- Ensure all connections are secure.
- Confirm the work area is clear of obstructions and hazards.

4.2 Starting and Stopping the Tool

- To start the tool, press the power switch. The Makita XRV01T features a dual-directional switch, allowing convenient operation in either horizontal or vertical positions.
- To stop the tool, release the power switch.

4.3 Concrete Consolidation Technique

1. Insert the vibrating head into the wet concrete vertically, allowing it to penetrate to the bottom of the pour or previous lift.
2. Hold the vibrator in place for 5-15 seconds, or until air bubbles stop rising to the surface and the concrete appears uniform.
3. Slowly withdraw the vibrator, allowing the concrete to flow back into the space created by the vibrator head.
4. Overlap vibrated areas to ensure complete consolidation.
5. Avoid touching rebar or formwork with the vibrator head for extended periods, as this can cause damage or segregation.
6. Do not over-vibrate, as this can lead to segregation of aggregates.



Image 4.1: Operator using the Makita XRV01T to consolidate concrete in a formwork.

5. Maintenance

5.1 Cleaning

- After each use, clean the vibrator shaft and head thoroughly to remove any concrete residue. Hardened concrete can impair performance and cause damage.
- Use a damp cloth to wipe down the motor housing. Do not use harsh chemicals or abrasive cleaners.
- Ensure the tool is dry before storing.

5.2 Storage

- Store the tool and batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep out of reach of children.
- If storing for extended periods, ensure batteries are partially charged (around 50%) to prolong their lifespan.

5.3 Battery Care

- Do not store batteries in a discharged state.
- Avoid exposing batteries to water or high heat.
- Only use genuine Makita chargers for Makita batteries.

6. Troubleshooting

Problem	Possible Cause	Solution
Tool does not start	Battery not inserted correctly or discharged.	Ensure battery is fully seated. Charge battery if necessary.
Reduced vibration power	Low battery charge. Vibrator head or shaft obstructed/damaged.	Recharge battery. Inspect and clean vibrator head/shaft. If damaged, seek professional service.
Tool stops unexpectedly	Battery overheated or discharged. Tool overloaded.	Allow battery to cool down. Recharge battery. Reduce load on the tool.

If troubleshooting steps do not resolve the issue, contact Makita customer support or an authorized service center.

7. Specifications

Feature	Detail
Model Number	XRV01T
Voltage	18 Volts
Battery Type	LXT Lithium-Ion
Vibrations Per Minute (VPM)	13,000 VPM
Shaft Length	4 feet
Shaft Diameter	1 inch
Run Time (with 5.0Ah battery)	Up to 41 minutes under load
Item Weight (with battery)	Approximately 7.7 lbs
Included Components	(2) 18V LXT® Lithium-Ion 5.0Ah Battery (BL1850B), 18V LXT 4' Concrete Vibrator (XRV01Z), 18V LXT Lithium-Ion Rapid Optimum Charger (DC18RC), Tool Case

Image 7.1: Overview of the Makita LXT Advantage, highlighting battery and motor technology.

8. Warranty and Support

8.1 Warranty Information

The Makita XRV01T tool, battery, and charger are covered by a**3-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the warranty card included with your product or visit the official Makita website.

8.2 Customer Support

For technical assistance, service, or warranty claims, please contact Makita customer support:

- **Phone:** (800)-4-MAKITA (800-462-5482)
- **Service Centers:** Locate a Makita Factory Service Center or Authorized Service Center through the official Makita website.

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