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RYOBI P131

Ryobi P131 One+ Portable Dual Chemistry Charger Instruction Manual

Model: P131

Product Overview

The Ryobi P131 One+ Portable Dual Chemistry Charger is designed for convenient in-vehicle charging of all past and current Ryobi 18V ONE+ batteries. This charger offers flexibility, allowing you to charge batteries while driving or in locations with limited access to standard power outlets. It incorporates advanced technology to monitor battery status and protect your vehicle's electrical system.

- **Dual Chemistry Compatibility:** Charges both Ryobi ONE+ Lithium-Ion and NiCad 18V batteries.
- **Charge Status Indicators:** Onboard LEDs provide clear indications of battery testing, charging progress, and completion.
- **Protective Circuitry:** Features an audible warning and automatic shutdown if your vehicle's battery voltage drops too low, preventing vehicle battery drain.
- **Mounting Options:** Includes a keyhole hanger for secure mounting in vehicles or work areas.
- **Integrated Fuse:** Equipped with a 250 Volt, 8 Amp, 5 x 20 mm fuse for protection against power surges.

Setup

Before using the charger, ensure your vehicle's 12V DC outlet (cigarette lighter socket) is clean and free of debris. The charger is designed for use in standard 12V vehicle power outlets.

1. **Connect to Vehicle Power:** Insert the charger's 12V DC plug firmly into your vehicle's 12V DC outlet. The "Power On" LED indicator on the charger should illuminate, indicating it is receiving power.
2. **Mounting (Optional):** If desired, use the integrated keyhole hanger on the back of the charger to securely mount it in your vehicle or on a workbench. Ensure the mounting location is stable and allows for proper ventilation.



Figure 1: The Ryobi P131 charger showing its main components, including the 12V DC plug.

Operating Instructions

Follow these steps to charge your Ryobi ONE+ batteries using the P131 vehicle charger:

1. **Insert Battery:** Slide your Ryobi 18V ONE+ battery (Lithium-Ion or NiCad) into the charger's battery port until it clicks securely into place.
2. **Monitor Charging Status:** Observe the LED indicators on the charger:
    - **Power On:** Solid green light indicates the charger is connected to power.
    - **Testing:** A blinking green light may indicate the charger is testing the battery.
    - **Charging:** A solid red light indicates the battery is actively charging.
    - **Charged:** A solid green light (after charging) indicates the battery is fully charged.
    - **Defective Battery:** A blinking red light typically indicates a defective battery.
    - **Vehicle Battery Low:** An audible warning and flashing yellow light indicate your vehicle's battery voltage is too low. The charger will shut down to prevent draining your vehicle's battery.
3. **Charging Time:** Charging times vary depending on the battery type, capacity, and its current charge level. The charger will automatically stop charging once the battery is full.
4. **Remove Battery:** Once charging is complete (solid green "Charged" light), press the battery release tabs and slide the

battery out of the charger.



Figure 2: The Ryobi P131 charger in use inside a vehicle, demonstrating its portability and convenience.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your charger.

- **Cleaning:** Regularly wipe the charger's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Keep the battery terminals and charger contacts clean and free of debris.
- **Storage:** Store the charger in a dry, indoor location away from direct sunlight and extreme temperatures.
- **Fuse Replacement:** The 12V adapter contains a 250 Volt, 8 Amp, 5 x 20 mm fuse. If the charger stops receiving power from the vehicle, check and replace the fuse if necessary. Refer to the fuse compartment on the 12V plug for instructions.

Troubleshooting

Problem	Possible Cause	Solution
Charger not powering on.	No power from vehicle's 12V outlet; Blown fuse in 12V plug; Loose connection.	Ensure vehicle's ignition is on (if required); Check and replace fuse in 12V plug; Re-insert plug firmly into outlet.
Blinking red light (Defective Battery).	Battery is too hot/cold; Battery is truly defective.	Allow battery to reach room temperature; Try charging a different battery; If problem persists, battery may need replacement.
Audible warning and flashing yellow light (Vehicle Battery Low).	Vehicle battery voltage is too low to safely charge.	Start vehicle engine to increase voltage; Disconnect charger to prevent further vehicle battery drain.
Battery not charging (no red light).	Battery not fully seated; Charger contacts dirty.	Re-insert battery firmly; Clean charger and battery contacts.

Specifications

Feature	Detail
Model Number	P131
Input Voltage	12V DC (Vehicle Outlet)
Output Voltage	18 Volts
Compatible Battery Types	Ryobi ONE+ Lithium-Ion, NiCad
Product Dimensions	4 x 4 x 8.5 inches (approx.)
Item Weight	1.9 pounds
Fuse Specification	250 Volt, 8 Amp, 5 x 20 mm

Warranty and Support

For detailed warranty information, please refer to the warranty card included with your original product purchase or visit the official Ryobi website. For technical support, replacement parts, or service inquiries, please contact Ryobi customer service directly. Contact information can typically be found on the product packaging or the manufacturer's website.

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