

Clore Automotive PL4050

Clore Automotive PL4050 Pro-Logix 4-Bank Battery Maintenance Station User Manual

Model: PL4050 | Brand: Clore Automotive

1. INTRODUCTION

The Clore Automotive PL4050 Pro-Logix 4-Bank Battery Maintenance Station is a fully automatic, multi-phase smart charger designed for 6V and 12V lead-acid batteries, including standard, AGM, and deep cycle types. This unit features four independent charging channels, each providing up to 5 amps, for a total of 20 amps. It offers advanced battery maintenance capabilities, including temperature compensation and recovery modes, to ensure optimal battery health and longevity.

2. IMPORTANT SAFETY INFORMATION

Read all instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always wear eye protection and protective clothing when working with batteries.
- Ensure adequate ventilation when charging batteries.
- Never smoke or allow a spark or flame in the vicinity of a battery or engine.
- Connect the charger output cables to the battery and chassis in the sequence specified in the operating instructions.
- Disconnect the AC power cord before making or breaking the connections to the battery.
- Do not expose the charger to rain or excessive moisture.
- Keep out of reach of children.
- This charger is designed for lead-acid batteries only. Do not use with other battery types.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- (1) PL4050 Pro-Logix 4-Bank Battery Maintenance Station
- (4) Clamp output leads

4. PRODUCT FEATURES

The PL4050 offers a range of features for effective battery charging and maintenance:

- **6 and 12 Volt Charging and Maintaining:** Compatible with both 6V and 12V lead-acid batteries.
- **Four Independent Channels:** Each of the four channels operates independently, allowing simultaneous charging of different batteries or battery types.
- **5 Amps Per Channel:** Each channel delivers up to 5 amps of charging current.
- **Fully Automatic, Multi-Phase Charge Process:** Optimizes charging based on battery condition, progressing through various stages for efficient and safe charging.
- **Enhanced Maintenance Mode:** Provides long-term storage maintenance to prevent self-discharge and extend battery life.
- **Temperature Compensation:** Automatically adjusts charging parameters based on ambient temperature for optimal performance in various climates.
- **Force Charge for Dead Batteries:** Capable of initiating charging on batteries with very low voltage (down to 0.0 volts).
- **Recovery Mode:** Designed to recover charging processes after power outages.

5. SETUP

Follow these steps to set up your PL4050 Battery Maintenance Station:

1. **Placement:** Place the charger on a stable, non-combustible surface in a well-ventilated area. Ensure the charger is not exposed to direct sunlight or excessive heat.
2. **Connect to Battery:** For each battery you wish to charge, connect the red positive (+) clamp to the positive battery terminal and the black negative (-) clamp to the negative battery terminal. Ensure a secure connection.
3. **Connect to Power:** Plug the charger's AC power cord into a standard 120V AC electrical outlet. The unit will power on.
4. **Select Battery Type:** For each connected bank, use the 'TYPE' button to select the appropriate battery type (STD for standard lead-acid, AGM for Absorbed Glass Mat). Use the 'VOLTS' button to select 6V or 12V as needed for the specific battery.



Image 1: Front view of the Clore Automotive PL4050 Pro-Logix 4-Bank Battery Maintenance Station, showing the four independent charging banks with controls for Start/Stop, STD/AGM, and 6V/12V selection.

6. OPERATING INSTRUCTIONS

The PL4050 operates automatically once configured. Each bank functions independently.

1. **Initiating Charge:** After connecting the battery and selecting the correct type and voltage, press the 'START/STOP' button for the desired bank. The charger will begin its multi-phase charging process. Indicators on the unit will show the charging status.
2. **Multi-Phase Charging:** The charger automatically progresses through various stages, including desulfation, bulk charge, absorption, and maintenance, to optimize battery performance and lifespan.
3. **Maintenance Mode:** Once a battery is fully charged, the unit automatically switches to a maintenance (float) mode, providing a small current to keep the battery at optimal charge without overcharging. This is ideal for long-term storage.
4. **Temperature Compensation:** The PL4050 features built-in temperature compensation, which automatically adjusts the charging voltage based on ambient temperature. This ensures efficient charging in both hot and cold environments.



TEMPERATURE COMPENSATION

UP TO
113°F

LOW AS
-22°F

AUTOMATICALLY ADJUSTS TO EXTREME TEMPERATURES.

Image 2: Illustrates the temperature compensation feature, showing the charger automatically adjusting for temperatures ranging from -22°F to 113°F.

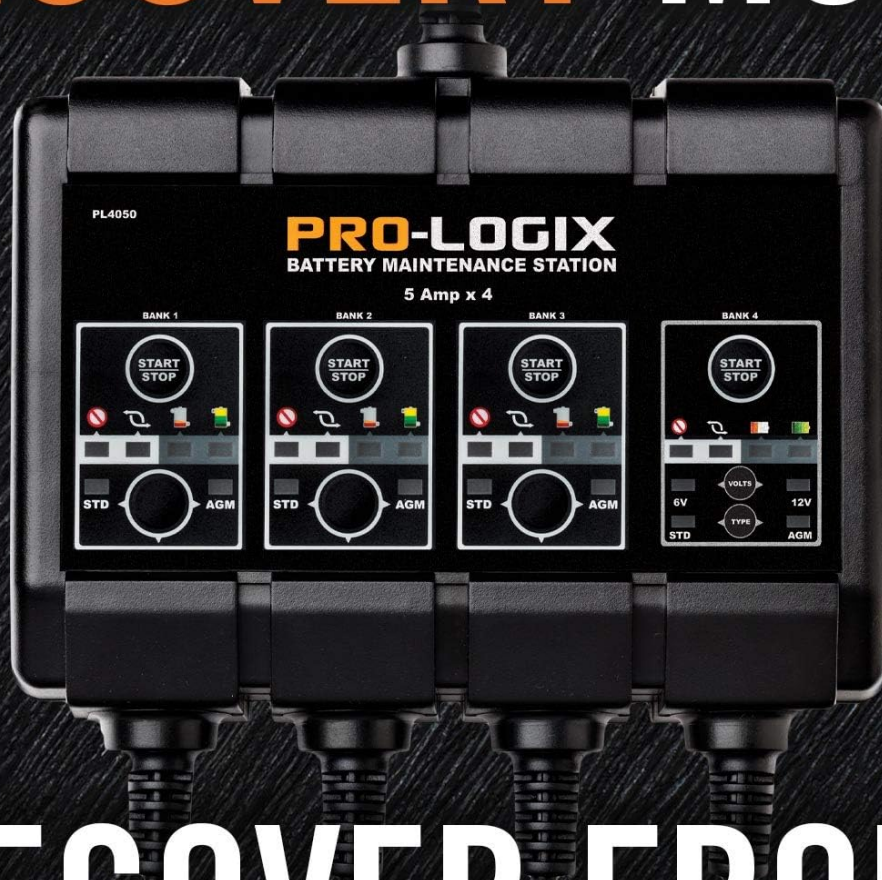
5. **Force Charge for Deeply Discharged Batteries:** The PL4050 can initiate charging on batteries that are deeply discharged, even down to 0.0 volts. If a battery is extremely low, the charger will attempt to recover it before entering the standard charging cycle.



Image 3: Depicts the charger's ability to force charge deeply discharged batteries, even those at 0.0 volts.

6. **Recovery Mode After Power Outages:** In the event of a power interruption, the charger is designed to resume its charging process automatically once power is restored, ensuring continuous battery maintenance.

RECOVERY MODE



RECOVER FROM POWER OUTAGES

Image 4: Shows the recovery mode feature, indicating the charger's ability to resume operation after a power outage.

7. **Stopping Charge:** To stop charging a battery, press the 'START/STOP' button for that specific bank. Disconnect the AC power cord from the outlet first, then disconnect the battery clamps.

7. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your PL4050 unit:

- **Cleaning:** Periodically wipe the exterior of the charger with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the charger in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure cables are neatly coiled to prevent damage.
- **Cable Inspection:** Regularly inspect the AC power cord and output cables for any signs of damage, such as cuts, fraying, or exposed wires. Do not use the charger if any cables are damaged.

8. TROUBLESHOOTING

If you encounter issues with your PL4050, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not turn on.	No AC power; faulty outlet.	Check AC power connection. Test outlet with another device.
Charging does not start.	Incorrect battery connection; battery voltage too low for initial detection; incorrect battery type/voltage selected.	Ensure clamps are correctly connected (positive to positive, negative to negative). Verify battery type (STD/AGM) and voltage (6V/12V) selection. For extremely low batteries, the charger may take longer to initiate or require a brief jump start from another battery to raise voltage for detection.
Charger stops unexpectedly.	Overheating; internal fault; power interruption.	Ensure adequate ventilation. Disconnect and reconnect. If problem persists, contact support.
One bank not working.	Faulty connection; internal bank issue.	Check connections for that specific bank. Try with a different battery. If issue persists, contact support.


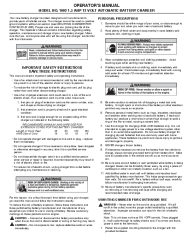




9. SPECIFICATIONS

- **Model:** PL4050
- **Input Voltage:** 120V AC
- **Output Voltage:** 6V / 12V DC
- **Charging Current:** 5 Amps per channel (20 Amps total)
- **Battery Types:** Standard Lead-Acid, AGM
- **Dimensions:** Approximately 15.3 x 4 x 11.3 inches
- **Item Weight:** Approximately 5.5 pounds
- **Manufacturer:** SOLAR

10. WARRANTY AND SUPPORT

Clore Automotive products are designed for reliability and performance. For specific warranty details, please refer to the documentation included with your purchase or visit the official Clore Automotive website. If you require technical assistance or have questions regarding your PL4050, please contact Clore Automotive customer support through their official channels.

Clore Automotive Website: www.cloreautomotive.com

	<p>PRO-LOGIX PL2140: 6/12V 4.0A Intelligent Battery Charger & Maintainer</p> <p>Discover the PRO-LOGIX PL2140 by Clore Automotive, a versatile 6/12V 4.0A intelligent battery charger and maintainer. Featuring advanced multi-phase charging, LiFePO4 compatibility, recovery mode, and battery repair functions for optimal battery care.</p>
	<p>Clore Automotive Model 1002 1.5 Amp 12 Volt Automatic Battery Charger Operator's Manual</p> <p>This operator's manual provides essential safety, operation, maintenance, and storage instructions for the Clore Automotive Model 1002 1.5 Amp 12 Volt Automatic Battery Charger. Learn how to safely and effectively charge your vehicle's battery.</p>
	<p>Clore Automotive Jump-N-Carry JNCAIR 1700 & JNC660 Jump Starter User Manual</p> <p>Comprehensive user manual for Clore Automotive Jump-N-Carry JNCAIR 1700 Peak Amp Jump Starter with Air Compressor and JNC660 1700 Peak Amp 12 Volt Jump Starter. Includes safety guidelines, operating instructions, recharging procedures, battery replacement, troubleshooting, and warranty information for these portable power sources.</p>
	<p>Clore Automotive JNC325 12V Jump Starter and Power Supply Operator's Manual</p> <p>Comprehensive operator's manual for the Clore Automotive JNC325 12V Jump Starter and Power Supply. Covers safety, operation, maintenance, specifications, troubleshooting, and warranty information.</p>
	<p>Clore Automotive VRLA Rechargeable Battery Safety Data Sheet (SDS) - JNC Jump Starters</p> <p>Comprehensive Safety Data Sheet (SDS) for Clore Automotive VRLA Rechargeable Batteries and JNC Portable Jump Starters, detailing hazards, handling, first aid, and disposal information.</p>
	<p>Safety Data Sheet: Clore Automotive VRLA Rechargeable Batteries and Portable Jump Starters</p> <p>This Safety Data Sheet (SDS) provides comprehensive information on Valve Regulated Lead-Acid (VRLA) rechargeable batteries and portable jump starters from Clore Automotive. It details product identification, hazards, chemical composition, first-aid measures, fire-fighting procedures, accidental release measures, handling and storage, exposure controls, physical and chemical properties, stability, toxicological and ecological information, disposal considerations, and transport and regulatory information. Essential for safe handling, storage, and disposal of these products.</p>



[\[pdf\]](#) User Manual Instructions

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Operator s Manual Battery Charger Model No. **PL4050** Part No. 141-450-000

WARNING Failure to follow instructions may cause damage or explosion, always shield eyes. Read entire instruction manual before use. **WARNING** This product can expose you to chemicals, including Vinyl-Chloride, Styrene and Acryl...

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Model No. **PL4050** BATTERY MAINTENANCE STATION Compatible with a wide variety of battery types: Model No. **PL4050** Intelligent Battery Maintenance Station - 6/12 Volt, 5 Amp x 4 Channel Model **PL4050** is a perfect charger to meet the needs of mechanical repair shops, collision repair facilities, fleet o...

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[\[pdf\]](#) User Manual Instructions

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WARNING Failure to follow instructions may cause damage or explosion, always shield eyes. Read entire instruction manual before use. **WARNING** This product can expose you to chemicals, including Vinyl-Chloride, Styrene and Acryl...

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