

Manuals.plus /

- › XL Perform Tool /
- › XL Perform Tool 553983 Charger XL User Manual

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Automatic 12V Battery Charger and Maintainer

1. PRODUCT OVERVIEW

The XL Perform Tool 553983 Charger XL is an automatic 12V battery charger and maintainer designed for a wide range of vehicles, including cars and motorcycles. It is suitable for batteries with capacities between 10Ah and 95Ah. This device features an automatic charge maintenance function, making it ideal for keeping batteries fully charged over extended periods. The charger provides real-time display of battery capacity, voltage, and charging current.

It offers multiple charging modes to suit various needs, including automatic, 2A, and 8A settings. For urgent situations, a special 30-minute rapid charge function is available. Additionally, the charger includes an automatic reconditioning function for deeply discharged batteries. For convenience, it features an integrated compartment for cable storage.



Image 1.1: Front view of the XL Perform Tool 553983 Charger XL, showing the digital display, control buttons, and

attached battery clamps.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the charger. 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 the charging area is well-ventilated.
- Keep the charger away from flammable materials, sparks, and open flames.
- Do not charge frozen batteries. Allow them to thaw before charging.
- Never attempt to charge non-rechargeable batteries.
- Ensure the charger is disconnected from the power outlet before making or breaking connections to the battery.
- Connect the positive (red) clamp to the positive (+) battery terminal and the negative (black) clamp to the negative (-) battery terminal. If connecting to a vehicle, connect the negative clamp to the vehicle chassis away from the battery and fuel line.
- Avoid short-circuiting the battery clamps.
- Do not expose the charger to rain or excessive moisture.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- XL Perform Tool 553983 Charger XL Unit
- Integrated Battery Clamps (Red and Black)
- Integrated AC Power Cord
- User Manual (This document)



Image 1.2: Product packaging displaying key features and battery compatibility information.

4. SETUP

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and a baking soda solution.
2. **Connect Battery Clamps:**
 - Connect the **red positive (+)** clamp to the **positive (+)** terminal of the battery.
 - Connect the **black negative (-)** clamp to the **negative (-)** terminal of the battery.
 - If charging a battery installed in a vehicle, connect the negative clamp to the vehicle chassis away from the battery and fuel line.

Important: Ensure correct polarity. Reversing polarity can damage the battery and charger. The charger has a polarity protection feature, but always double-check.

3. **Connect to Power:** Plug the charger's AC power cord into a standard 230V AC wall outlet. The charger will power on, and the display will illuminate.

5. OPERATING INSTRUCTIONS

Once connected, the charger will automatically detect the battery voltage and display its current status. Use the control buttons (if present, typically labeled 'Function' or 'Mode') to select the desired charging program.

5.1. Charging Modes

- **Automatic Mode:** This is the default and recommended mode for most charging scenarios. The charger intelligently adjusts the charging current and voltage based on the battery's condition. It transitions to maintenance mode once fully charged.
- **2A Mode:** A lower current setting, suitable for smaller batteries (e.g., motorcycle batteries) or for a slower, gentler charge.
- **8A Mode:** A higher current setting for faster charging of larger batteries (e.g., car batteries).
- **30-Minute Rapid Charge:** A special function for emergency situations when a quick boost is needed to start a vehicle. This mode delivers a high current for a short duration. Use this mode sparingly as frequent rapid charging can impact battery lifespan.
- **Reconditioning Mode:** Automatically activated for deeply discharged batteries. This mode attempts to restore the battery's capacity and extend its life.

5.2. Display Information

The digital display provides the following information:

- **Battery Capacity (%):** Shows the estimated charge level of the battery.
- **Voltage (V):** Displays the current battery voltage.
- **Charging Current (A):** Indicates the current flowing into the battery.

5.3. Charge Maintenance

Once the battery reaches full charge, the charger automatically switches to a maintenance (float) mode. In this mode, it supplies a small current to keep the battery at optimal charge without overcharging, making it safe to leave connected for extended periods, such as during winter storage.

5.4. Disconnecting the Charger

1. Unplug the AC power cord from the wall outlet.
2. Disconnect the negative (black) clamp from the battery terminal or vehicle chassis.
3. Disconnect the positive (red) clamp from the battery terminal.

6. MAINTENANCE

- **Cleaning:** Wipe the charger casing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Cable Storage:** Utilize the integrated cable storage compartment to keep the cables tidy and prevent damage when not in use.
- **Inspection:** Periodically inspect the cables and clamps for any signs of damage, fraying, or corrosion. Replace if necessary.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not power on.	No AC power; faulty outlet; damaged power cord.	Check AC power connection. Test outlet with another device. Inspect power cord for damage.
Charger displays an error code (e.g., F05 mentioned in reviews).	Incorrect battery connection; deeply discharged battery; internal fault.	Verify battery clamp connections and polarity. Allow the reconditioning mode to attempt to revive deeply discharged batteries. If error persists, contact support.
Battery not charging or charging slowly.	Loose connections; battery too large for selected mode; faulty battery.	Ensure clamps are securely connected. Select a higher amperage mode (e.g., 8A). Have the battery tested by a professional.
Charger fan is noisy.	Normal operation during high current charging; dust accumulation.	Some noise is normal, especially in 8A or Rapid Charge modes. Ensure vents are not blocked. Clean dust if necessary (with charger unplugged).

8. SPECIFICATIONS

Brand	XL Perform Tool
Model Number	553983
Color	Orange
Item Weight	1.69 Kilograms
AC Power Input	Standard Mains (e.g., 230V AC)
Battery System Voltage	12 Volts
Charging Current Options	Automatic, 2A, 8A, 12A (Max Current Rating)
Compatible Battery Capacity	10Ah - 95Ah
Compatible Battery Types	All 12V technologies (e.g., Lead-Acid, VRLA, MF)
Number of Ports	1
Special Functions	30-Minute Rapid Charge, Automatic Reconditioning, Charge Maintenance

9. WARRANTY AND SUPPORT

Information regarding specific warranty terms and customer support contact details is not available in the provided product data. Please refer to the product packaging or the manufacturer's official website for warranty registration and support inquiries.

Manufacturer: IMPEX SAS