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› Schumacher Electric SC1446 Wheeled Manual 10A Car Battery Charger and 200A Engine Starter User Manual

## Schumacher Electric SC1446

# Schumacher Electric SC1446 Wheeled Manual Battery Charger and Engine Starter

User Manual

## 1. INTRODUCTION

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The Schumacher Electric SC1446 is a versatile 2-in-1 wheeled manual battery charger and engine starter designed for 6V and 12V power sport, automotive, and marine batteries. This unit provides a 200-amp 12V engine start, 40-amp 12V boost, 20-amp 6V/12V boost, and 10-amp 12V charging capabilities. It is compatible with standard, AGM, gel, and deep-cycle battery types. The manual timer control allows for precise management of the charging process, making it suitable for reviving deeply discharged batteries.



Figure 1: Schumacher Electric SC1446 unit with cables and clamps.

## 2. IMPORTANT SAFETY INFORMATION

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

- **Eye Protection:** Always wear safety glasses when working with batteries.

- **Ventilation:** Ensure adequate ventilation when charging batteries, as they can produce explosive gases.
- **Flammable Materials:** Keep sparks, flames, and smoking materials away from batteries.
- **Electrical Shock:** Do not touch uninsulated battery clamps or terminals. Ensure the charger is unplugged before making or breaking connections.
- **Proper Voltage:** Use the charger only with 6V or 12V lead-acid batteries (Standard, AGM, Gel, Deep-Cycle). Do not attempt to charge dry-cell batteries.
- **Damaged Equipment:** Do not operate the charger if it has been dropped, damaged, or has a damaged power cord or output cables.
- **Children and Pets:** Keep the charger and batteries out of reach of children and pets.
- **Proposition 65 Warning:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### 3. PRODUCT FEATURES AND COMPONENTS

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The SC1446 unit is designed for durability and ease of use. Familiarize yourself with its main components:



Figure 2: Key components of the Schumacher SC1446.

- **Ammeter:** Analog display for visually monitoring charging current.
- **Timer:** 135-minute manual timer for controlling charge duration.
- **Charge Rate Selector Switch:** Allows selection between Charge, Boost, and Engine Start modes.
- **Retractable Handle:** For easy transport and storage.
- **Compact Wheels:** Facilitate movement of the unit.
- **AC Power Cord:** 79-inch reach for connecting to a 120V outlet.
- **Heavy-Duty Color-Coded Clamps:** 72-inch reach, red for positive (+), black for negative (-).
- **8-Gauge, 6-Foot Boost Cable:** Durable cables for power delivery.

#### 4. SETUP AND INITIAL ASSEMBLY

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The Schumacher SC1446 typically requires minimal assembly. Ensure all components are present and securely attached before first use.

1. **Unpack:** Carefully remove the charger and all accessories from the packaging.
2. **Inspect:** Check the unit for any signs of damage during shipping. Do not use if damaged.
3. **Handle Assembly:** If the handle is not already extended, pull it up until it locks into place.
4. **Wheel Attachment:** Ensure the compact wheels are securely attached to the base of the unit.

## 5. OPERATING INSTRUCTIONS

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This section details the procedures for charging a battery and using the engine start function.

### 5.1. Charging a Battery

1. **Prepare Battery:** Ensure the battery terminals are clean. If the battery has removable caps, check fluid levels and add distilled water if necessary.
2. **Connect Clamps:** Connect the red positive (+) clamp to the positive battery terminal. Connect the black negative (-) clamp to the negative battery terminal. For in-vehicle charging, connect the black clamp to a non-moving metal part of the vehicle chassis, away from the battery and fuel line.
3. **Plug In:** Plug the charger's AC power cord into a standard 120V AC electrical outlet.
4. **Select Charge Rate:** Use the Charge Rate Selector Switch to choose the desired charging mode:
  - **10A Charge (12V):** For standard charging of small or large batteries.
  - **20A Boost (6V/12V) / 40A Boost (12V):** For quickly adding charge to severely discharged batteries prior to engine start.
5. **Set Timer:** Rotate the timer dial to the desired charging duration, up to 135 minutes. The ammeter will indicate the charging current.
6. **Monitor:** Observe the ammeter. As the battery charges, the current will gradually decrease.
7. **Disconnect:** Once the timer expires or charging is complete, unplug the AC power cord first, then disconnect the negative (-) clamp, followed by the positive (+) clamp.

### 5.2. Engine Starting

The 200A engine start feature provides a quick burst of power to start vehicles with a weak or run-down battery.



## QUICK START GUIDE

- **Connect the Clamps to the Battery**
- **Plug the Charger into a 120V Outlet**
- **Set the Charge Rate Selector to the Engine Start Position**
- **Crank the Engine**

Refer to the user manual for detailed instructions.

Figure 3: Quick Start Guide for engine starting.

1. **Connect Clamps:** Connect the red positive (+) clamp to the positive battery terminal. Connect the black negative (-) clamp to a non-moving metal part of the vehicle chassis, away from the battery and fuel line.
2. **Plug In:** Plug the charger's AC power cord into a standard 120V AC electrical outlet.
3. **Select Engine Start:** Set the Charge Rate Selector Switch to the 'Engine Start' position.
4. **Crank Engine:** Attempt to crank the vehicle's engine for no more than 5 seconds. If the engine does not start, wait 3-5 minutes before trying again to allow the charger to cool.
5. **Disconnect:** Once the engine starts, unplug the AC power cord first, then disconnect the negative (-) clamp, followed by the positive (+) clamp.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your SC1446 charger.

- **Cleaning:** Clean the case and cables with a soft, dry cloth after each use. Do not use solvents or abrasive cleaners.
- **Cable Care:** Inspect cables and clamps for damage before each use. Replace if insulation is cracked or wires are

exposed.

- **Storage:** Store the charger in a cool, dry place with the cables neatly wrapped. Do not store the unit with the clamps connected to a battery.
- **Ventilation:** Ensure the ventilation slots on the unit remain clear of obstructions.

## 7. TROUBLESHOOTING

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If you encounter issues with your SC1446, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on/no power	No AC power; faulty outlet; damaged power cord.	Check AC outlet with another device. Inspect power cord for damage. Ensure cord is fully plugged in.
No charging current (ammeter reads zero)	Incorrect clamp connection; battery fully charged; severely discharged battery (below minimum voltage); faulty battery.	Verify correct polarity and secure connection of clamps. Check battery voltage. If battery is below 2V, it may not accept a charge.
Engine will not start	Insufficient boost time; battery too weak; engine problem.	Ensure 'Engine Start' mode is selected. Allow a few minutes for the charger to provide some boost before cranking. Do not crank for more than 5 seconds. If the battery is severely discharged, a longer charge in 'Boost' mode may be needed first.
Unit gets hot during use	Normal operation; poor ventilation; prolonged use.	Some heat is normal. Ensure adequate ventilation around the unit. If excessively hot, disconnect and allow to cool. Reduce charging time if possible.

## 8. SPECIFICATIONS

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Technical details for the Schumacher Electric SC1446.

- **Model:** SC1446
- **Input:** 120V AC
- **Output Voltage:** 6V DC, 12V DC
- **Charging Amperage:** 10A (12V)
- **Boost Amperage:** 20A (6V/12V), 40A (12V)
- **Engine Start Amperage:** 200A (12V)
- **Timer:** 135-minute manual
- **Battery Types:** Standard, AGM, Gel, Deep-Cycle
- **Product Dimensions:** 8.91"D x 11.76"W x 33.37"H
- **Item Weight:** Approximately 29.9 pounds

## 9. WARRANTY AND SUPPORT

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For detailed warranty information and customer support, please refer to the warranty card included with your product or visit the official Schumacher Electric website. Keep your purchase receipt as proof of purchase for any warranty claims.

**Manufacturer:** Schumacher Electric

**Website:** [www.schumacherelectric.com](http://www.schumacherelectric.com)