

# OPERATION MANUAL



## CH-94/ CH-94DC



### CH-94/CH-94DC Lithium Ion Charger

Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.



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## THANK YOU...

*for purchasing a Huskie Tools product. Our mission is to supply the finest steel cable connecting and cutting tools and cable-related products to the transmission and distribution markets. Huskie Tools products represents the state-of-the-art tools and are dependable & safe. Trust, integrity, teamwork and mutual respect - these words are something we take to heart here at Huskie Tools.*

*Please take the time to read this manual carefully to learn how to correctly operate and maintain your tool.*

## NOTE:

The **NEW CH-94** is a direct replacement for the CH-90 Tri-Chem charger. This charger is for Huskie Lithium Ion batteries only. Will NOT charge old Ni-MH & Ni-Cd batteries.

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## Features

- Charge control inside each charger.
- Power supply: Single Unit Charger: 24V @ 2.5 Amp International switching power supply.
- **Li-Ion:**
  - Minimum current
  - Timeout
- Agency approvals: UL/CUL
- Fault indicators for open or shorted cells and temperature faults.
- More control for next generation products.

**Power supply:** POWERTRON ELECTRONICS CORP (E248122), model PA1060-240T1A250, input rated 100-240 Vac, 50/60 Hz, 1.8A; output rated 24 Vdc, 2.5A, 60W max.

## Operating Temperature Ranges

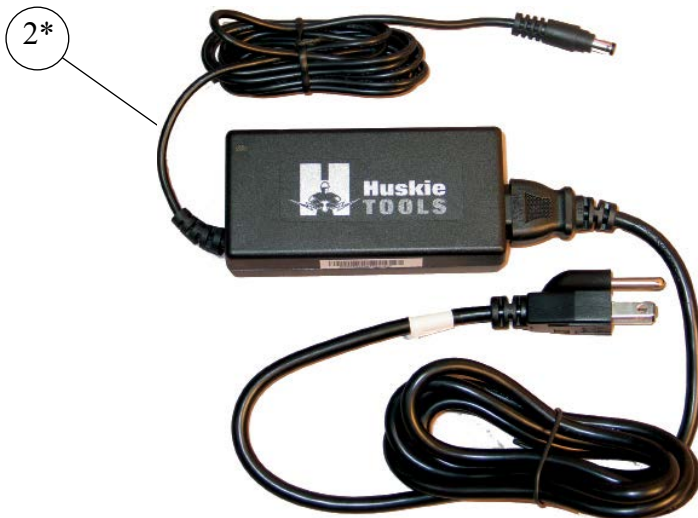
### CAUTION

Do not charge a battery that is below 32°F (0°C). Allow the battery to warm up to room temperature before charging.

The operating temperature of the charger is 32°F (0°C) - 113°F (45°C). For best results, charge batteries at room temperature 68°F -77°F (20°C - 25°C). Batteries charged in conditions above or below room temperature will exhibit battery cycle life and capacity below their rated values. This also applies to the temperature of the battery itself. Allow batteries to adjust to room temperature before charging.

## CH-94/CH-94DC

1. Single Unit Charger
2. AC Power Cord with Power Supply



\*Available in 110V or 220V AC

The power supply uses a nominal 110 or 220 volt circuit. The power supply manages and conditions the power input to the charger. The power supply does not use a resettable or replaceable fuse. If a power surge occurs the power supply temporarily interrupts the current supply until the condition is corrected. If the power light on the power supply fails to light, an extreme surge may have occurred and the power supply may trigger an internal fuse that must be serviced by the manufacturer. Return the power supply for repair or replacement immediately.

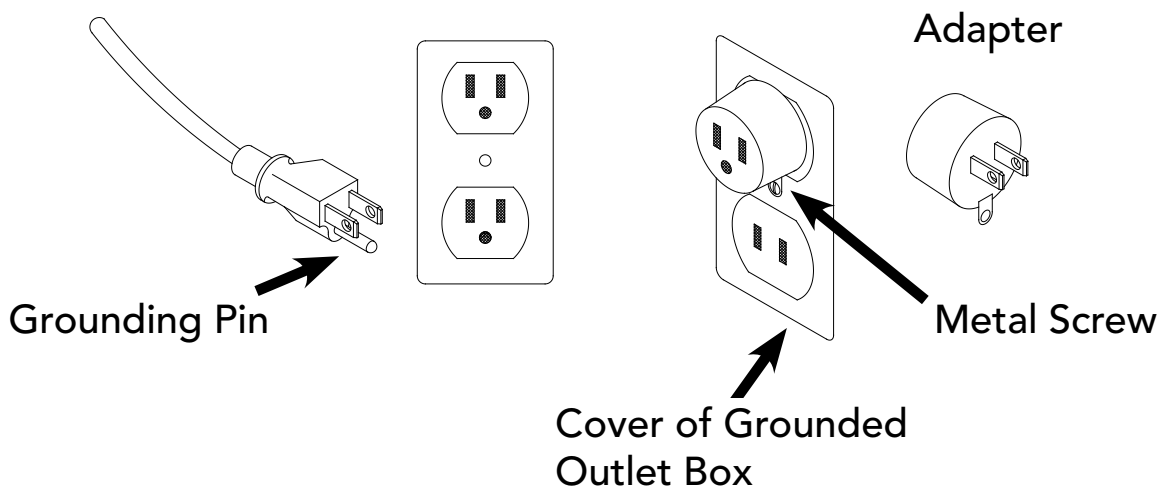
### WARNING

*Never alter an AC cord or its plug. If it does not fit into your outlet, have a proper outlet installed by a qualified electrician. An improper connection can cause an electric shock. To reduce the risk of electric shock, the charger must be grounded.*

### WARNING

*Before using an adapter, ensure that the outlet box is grounded. If you are not sure the box is grounded, have it checked and repaired, if necessary, by a qualified electrician.*

A temporary adapter can be used to connect the grounding plug to a properly grounded two-prong outlet. A 110-volt adapter is shown below. Connect the grounding plug on the adapter to the outlet box using the cover plate screw. Use the temporary adapter only until a properly grounded, three-prong outlet can be installed by a qualified electrician.



Symptom/Situation	Probable Cause	Corrective Action
Power indicator (charger) is not lit/displayed. (All stations)	AC power supply cord not connected to wall outlet. Power supply cord not connected to battery charger.  Bad power supply.  Bad fuse.	Check power supply connections.  Replace power supply.  Replace fuse.
Power indicator (charger) is not lit/displayed. (Single Station/ Fault)	Bad docking station, charger.  Faulty LED.	Do not use station.  Return for repair. Try another charger.
Battery Rejected indicator is displayed. (Amber flashing)	Faulty condition identified.  Over discharge of battery.  Defective Battery.	Remove battery from charger and reinsert. Re-seat docking station.  Allow to sit in charger for 15 minutes, then reinsert.  Replace battery.
Station goes to ready in a short period of time (5-15 minutes).	Battery is fully charged.  Faulty battery.  New Battery.	Try conditioning battery.  Replace battery. Remove battery from charger and reinsert.
Station will not go into Charge mode. (Amber solid indicator)	Charger not seated correctly.  Bad charger.  Defective battery.  Faulty LED.	Re-seat charger.  Replace charger.  Replace battery.  Send in for repair.
Battery becomes hot	Defective battery.	Immediately remove battery from charger and replace.
Power supply shuts down temporarily.	Power line surge.	Power will automatically reset.



## Battery Status Display

### Power:

- Solid green when power is available, but the battery is not inserted.

### Ready:

- Solid green when battery has been 100% fully charged.

### Charge / Fault:

- Solid amber when battery is charging.
- Fast flashing amber (2 per second) if battery is rejected due to a fault condition.

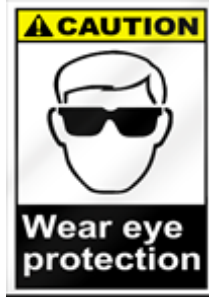
## Charging the Battery

Insert the battery into its appropriate charger. When the battery is inserted, the charging system begins the rapid charge cycle. When the charge cycle is completed, the "READY" indicator turns solid green, and the battery is fully charged. To attain 100% of its capacity, the battery should remain in the charger until the indicator is solid green. A charged battery may be stored in the charger indefinitely.



**Safety Alert Symbol:**

This safety alert symbol indicates a potential personal injury hazard; it is not used for messages related to property damage only.



**Wear eye protection:**

When operating this tool, failure to wear eye protection could result in serious eye injury from flying debris.



**Electric Shock hazard:**

Use proper personal protective equipment when using this unit on or near energized electrical lines.

**Pinch Point Hazard:**

Compression Dies at high force can cause severe personal injury. Keep all body parts away from moving parts of the tool while operating.



**WARNING**

To reduce risk of injury, use this charger only with authorized products. Other batteries or adapters may cause personal injury and/or damage.

- Do not expose the charger to rain, snow or direct sunlight.
- Use the charger at room temperature 68°F (20°C) to 77°F (25°C).
- Place the charger in a well-ventilated area free of foreign objects/matter.
- To reduce risk of electric shock, unplug the charger from the outlet before cleaning or changing adapters.
- Dispose of used batteries in accordance with local hazardous material laws.
- Do not disassemble, incinerate, modify or short circuit batteries, charger or related components.



## Warranty

Huskie Tools products carry a warranty that makes us a leader in the tool industry. No other manufacturer dares to back its tools as we do.

All Huskie REC-SERIES battery operated products carry a 5 year warranty. The ECO-SERIES battery operated products carry a 1 year warranty. The BP-80 & BP-84 batteries carry a 5 year warranty from the date stamped on the battery. The BP-82 battery carries a 1 year warranty.

### PRODUCT WARRANTY

REC-Series battery operated products	5 Years
ECO-Series battery operated products	1 Years
Batteries (BP-80, BP-84)	5 years/ (BP-82) 1 year
Chargers (CH-90, CH-94)	5 Years

The warranty does not cover any damages incurred from a Huskie tool including damages to property, bodily injuries and lost wages resulting from such injuries. This warranty solely covers the repair or replacement of tools supplied by Huskie. These remedies are exclusive, and the total liability of Huskie Tools, LLC whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the tool. In no event shall Huskie Tools, LLC be liable for consequential, incidental or special damages.

HUSKIE TOOLS, LLC MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

Huskie reserves the right to determine all warranty claims. Huskie will not warranty tools containing parts or batteries not originally supplied by Huskie. Failure due to misuse, improper maintenance, misapplication, not following instructions or warnings, abuse or repairs attempted by anyone other than Huskie Tools, LLC, or an authorized service center renders this warranty null and void.

### Repair and Warranty Claims

All claims must be sent to Huskie for inspection and authorization. A Return Goods Authorization (RGA) is required before shipping tools to Huskie. Secure the authorization by telephoning or writing to Huskie's main office with details of the claim. Non-warranty repairs are handled using the same procedure. Repairs exceeding 50 percent of the cost of a new tool will be advised before repairs are made.

### Payment Terms

Upon credit approval Huskie's standard payment terms are net-30 days. Visa, Mastercard, Discover and American Express are also accepted.

### Freight

All Huskie tools are FOB, Glendale Heights, Illinois. Goods will be shipped pre-paid and added, unless otherwise specified. Freight shipments over \$17,000 are pre-paid.

### Quotations

Special quantity quotations should be phoned in to discuss the scope of your tool requests.

### Complete Support Services

Our customers have direct access to us for training, service, and problem solving. As specialists in tools, we maintain a trained repair staff and a large stock of parts. This contrasts with many tool suppliers who carry tools as a sideline without offering support services. Here are some reasons why our customers love to do business with us:

- Quick delivery
- We maintain inventory at our headquarters.
- Training and troubleshooting services.
- Fast repair service.
- Design and engineering service for special tool needs.



Notes:



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