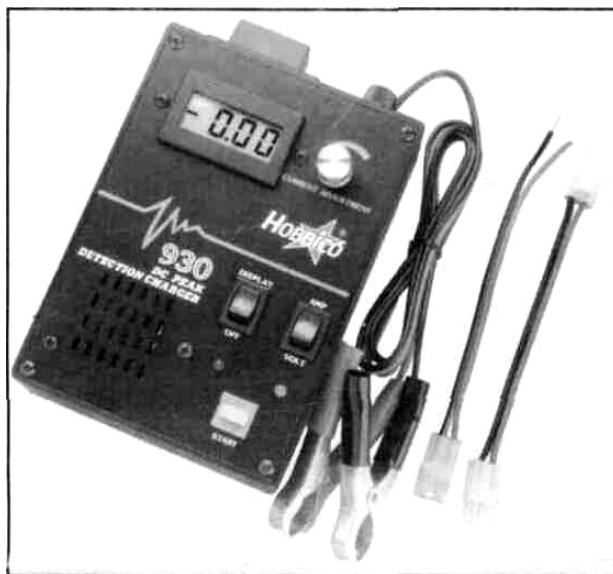


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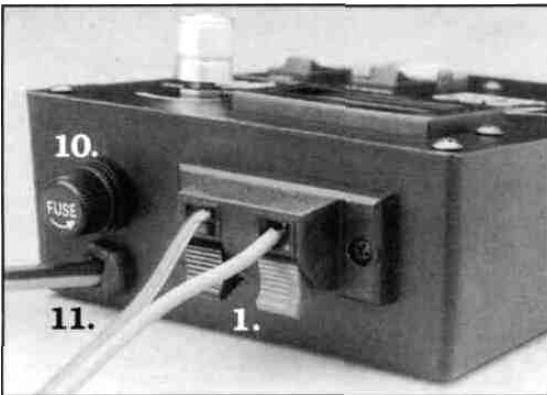
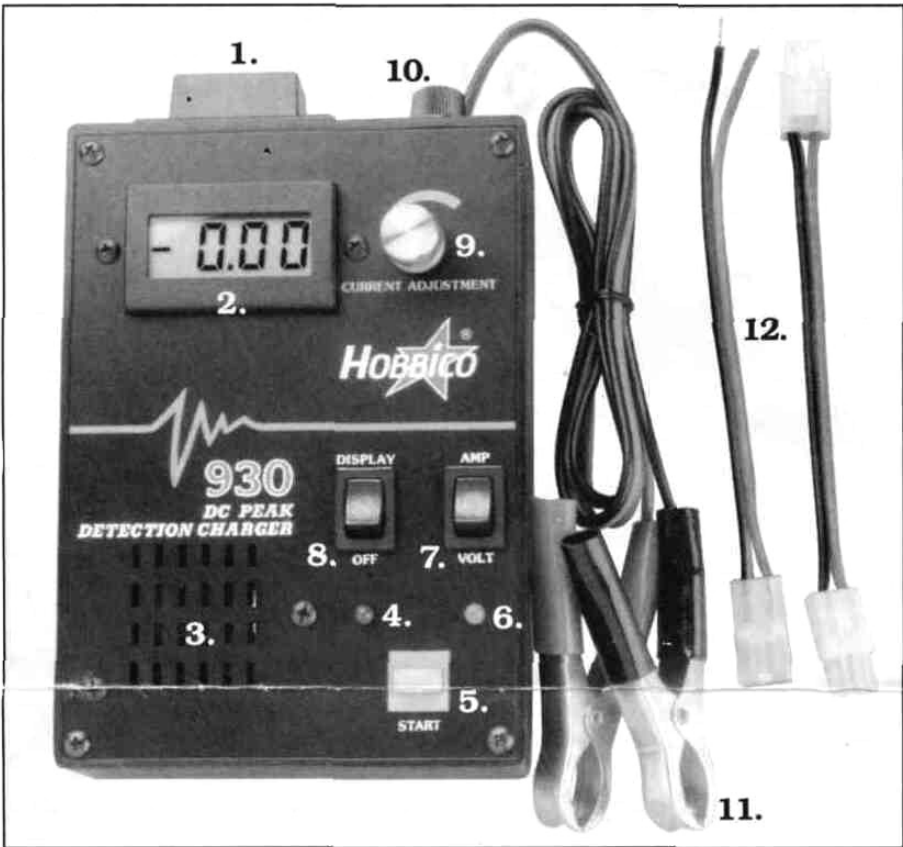
# HOBBICO 930 DC PEAK DETECTION CHARGER



## Introduction

The **Hobbico 930 DC Peak Detection Charger** maximizes the potential of your batteries using state-of-the-art peak detection circuitry that resists false peaks. You can use a wide variety of DC power sources, including a 12V battery, 12V battery charger or 12V power supply with an output of at least 5 amps.

The 930 Charger's input operating voltage ranges from 12 to 16 volts DC. Output current is adjustable from 0-5 amps. An easy-to-read LCD display shows input source voltage, battery pack output voltage and input charge current. Fuse protection adds an extra measure of safety, should the connectors accidentally short together or be attached backwards.



1. Quick-change output connector
2. Input amperage/battery voltage LCD display
3. Heat dissipation vents
4. Charge-in-progress LED
5. Charge start switch
6. Volt/Amp indication LED
7. Volt/Amp display switch
8. Display on/off switch
9. Current adjust knob
10. Fuse protected
11. DC input
12. Output leads for Kyosho battery with adaptor for Tamiya battery

# Operating Instructions

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## Peak Charging

**NEVER** leave batteries unattended while charging.

- 1) Inset the bare leads for the output cable into the quick-change output connector. Attach the red wire (positive) to the red clip and the black wire (negative) to the black clip.
- 2) Noting the correct polarity (red for positive or "+" / black for negative or "-"), connect the 930 Charger's input power cord to your power source. Select the Volt position on the Volt/Amp switch—the charger's LCD display will show input source voltage.
- 3) Turn the current adjust knob fully counter-clockwise to its lowest position.
- 4) Connect your battery pack to the input cable, noting the battery polarity, red wire to red wire and black wire to black wire. The red "charge" LED will now begin to flash. This flashing LED indicates the battery is trickle charging.
- 5) Select the Amp position of the Volt/Amp switch. The Volt/Amp LED indicator should now glow orange.
- 6) Press the start switch to begin charging. The red "charge" LED will now glow steadily.
- 7) Using the current adjust knob, increase the current until the desired input current is shown on the LCD display. NOTE: Never charge your batteries at a rate more than three times the normal battery capacity. For example, a 1700 mAh SCR pack can be charged at up to 5 Amps (5000 mAh), and a 1500 mAh pack at up to 4.5 Amps (4500 mAh).
- 8) The battery will now charge up to its peak. The charger will then shut off automatically and the "charge" LED will again begin to flash.
- 9) If, after pressing the start switch as directed in step 5, your battery peaks after only one or two minutes of charging, simply press the start switch again. This is not a false peak, but rather the result of a circuit in the 930 Charger that resists reverse polarity charging when the battery level is too low.
- 10) After your battery has reached its peak, allow it to cool. Re-peak your batteries twice before actually running—this brings them up to operating temperature. NOTE: Be careful to avoid overheating SCE batteries.
- 11) When charging a totally discharged pack i.e., one that has been on a discharge resistor, it may be necessary to allow the pack to "trickle" for 1-2 minutes before a fast charge can be started. This allows the 930 to stabilize, then begin "sensing" the pack voltage for the most accurate charge possible.

NOTE While charging, you can monitor the battery voltage (Volts) as well as the input current (Amps) by moving the Volts/Amp switch position. When the Volt position is selected, the LED below will glow green. When the Amp position is selected, the LED will glow orange.

## Special Notes for Charging 4-Cell Battery Packs

Hobbico's 930 Charger will charge any battery with 4-7 cells. During charging of 4-cell packs, much heat builds up which is dissipated through the charger's face plate. **You must use a fan to cool the faceplate when charging 4-cell battery packs.** Failure to do so may result in overheating, which could permanently damage your charger.

## Care and Maintenance

- **Never** leave batteries unattended during quick charge.
- To give your batteries long life, **never** overcharge them. Overcharging can cause the cells to emit a great deal of heat and may damage the battery pack.
- **Always** let your batteries cool before charging and after discharging.
- When replacing the fuse **only use one of equal value (1 ampere)**. Using higher rated fuses may damage the charger and void the warranty.
- If the digital display functions erratically or does not operate, replace the 9 volt battery under the face plate.

### HOBBICO 930 CHARGER ONE YEAR WARRANTY

HOBBICO warrants this **HOBBICO 930 CHARGER** to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase. During that period, we will repair or replace, at our option, any charger that does not meet these standards. You will be required to provide proof of purchase date (receipt or invoice).

If, during the one year warranty period, the **HOBBICO 930 CHARGER** shows defects caused by abuse, misuse, or accident, it will be repaired or replaced, at our option, at a service charge not greater than 50% of the current retail list price. The charger will be returned to you C. O. D.

NOTE: Under no circumstances will the buyer be entitled to consequential or incidental damages.

#### Warranty coverage is subject to the following conditions:

1. Chargers **cannot** be modified in any way.
2. Worn parts due to normal use, such as wires, cords, fuses, and connectors are **not** covered.
3. Damage resulting from reverse polarity connections of source or charging batteries is **not** covered.

For service to your **HOBBICO 930 CHARGER**, either in or out of warranty, please include a written, detailed description of the problem and return address. Send the unit post paid to:

**Hobby Services, 1610 Interstate Drive, Champaign, IL 61821 Phone (217)398-0007**