

Safety Precautions

- Never leave the battery and charger unattended during use.
- Always let the charger cool between charges.
- Do not attach your charger to both an AC and DC power source at the same time.
- Never connect the charger to an automobile 12V battery while the vehicle is running.
- Charger and batteries may become hot during charge cycle; keep both away from any material that can be effected by heat.
- Carefully observe proper polarity at all times.
- Do not let children charge battery packs without adult supervision.

Warranty and Repair Policy

This charger is guaranteed against workmanship and manufacturing defects for a period of 5 years from the original date of purchase. This warranty is limited to the original purchaser and is not transferable. Warranty repair will not cover units that have been modified, misused or serviced by an unauthorized service center. To speak to a service technician, call 1-877-504-0233.

If your charger needs to be repaired, ship the charger in its original box (freight prepaid) to:

Horizon Service Center
Attn: Dynamite Service
4105 Fieldstone Rd.
Champaign, IL 61822

Include your complete name and address and information inside the carton and clearly write it on the outer label/return address area. Include a brief summary of the difficulty. Date your correspondence and be sure that your name and address appear on this enclosure. Also, please include a phone number where you can be reached during the business day.

Warranty Repairs

To receive warranty service, you must include your original sales receipt verifying the proof-of-purchase date. Providing warranty conditions have been met, your charger will be repaired free of charge.

Non-Warranty Repairs

Should your repair cost exceed 50% of the retail purchase cost, you will be provided with an estimate advising you of your options. Any return freight for non-warranty repairs will be billed to the consumer. For non-warranty repairs, please advise us of the credit card you prefer to use. Horizon Service Center accepts money orders, Visa and MasterCard. Please include your card number and expiration date.

TWIN PEAK

AC/DC 1-7 Cell Ni-Cd and Ni-MH Dual Peak Detection Charger

INSTRUCTION MANUAL



Introduction

Thank you for purchasing the Twin Peak AC/DC Dual Peak Detection charger. The Twin Peak fast charges 4- to 7-cell Ni-Cd and Ni-MH battery packs and automatically transitions to a safe trickle charge when the battery pack is fully charged (peaked), preventing damage to your cells from overheating. The Twin Peak charger will save you time by peak charging two battery packs at the same time. You can simultaneously charge any combination of 4- or 5-cell receiver packs and 6- or 7-cell car packs. The Twin Peak will detect how many cells you are charging and will automatically set the correct charge rate: 1 amp for 4/5-cell receiver packs and 4 amps for 6/7-cell car packs. The Twin Peak will also charge single cell Ni-Cd and Ni-MH batteries at 1 amp.

By properly following these instructions, your charger will provide you with many years of trouble-free operation.

Features

- 1- and 4-amp charge rates
- AC/DC input
- Peak detection charge circuitry
- Charges 4- to 7-cell Ni-Cd and Ni-MH battery packs
- Receiver pack charge lead included
- Voltmeter jacks
- 5-year warranty
- Auto trickle charge (100mA)
- Charges single cell Ni-Cd and Ni-MH battery packs

Supplying Power to the Charger

The Twin Peak can either be powered by plugging it into a standard AC wall outlet (110V) or it can be connected to a 12V DC power source, such as an automobile 12V battery (engine not running) or a 12V DC power supply. Never connect the AC and DC input cords at the same time. This will void any warranty repairs.

AC Power

To power the charger, use the attached standard electrical plug and plug into a standard 110V wall outlet.

DC Power

To power the charger, attach the included red (positive) alligator clip to the red (positive) terminal of the 12V power source. Attach the black (negative) alligator clip to the black (negative) terminal of the 12V power source. Make sure that you follow proper polarities at all times.

Charging 6/7-Cell Ni-Cd or Ni-MH Car Packs

1. Connect the Twin Peaks to an appropriate AC or DC power source.
2. Connect the battery(ies) to the output charge lead(s). The LEDs on the faceplate indicate pack "A" and "B".

Note: The longer charge lead matches pack "B".

3. Push the *Start* button. A brief diagnostic test determines the charge current based upon the battery voltage. The LED will turn solid red during the charge process.

4. The charger will automatically charge at 4 amps and will stop fast charging when the battery has been fully charged. If you are charging two batteries simultaneously and one of the batteries peaks, the other battery will continue to charge until it has also peaked. After the battery has peaked, the charger will automatically switch to trickle charge. You will know that the charger is in trickle charge when the corresponding LED continually flashes.
5. If you choose to re-peak your battery(ies), simply push the *Start* button without disconnecting the battery(ies) from the output charge lead. Do not re-peak the battery(ies) more than once during a charge cycle.

** If at any time during the charge process the battery pack(s) become hot, unplug the battery immediately and discontinue the charge process.*

Charging 4/5-Cell Ni-Cd or Ni-MH Receiver Packs

1. Connect the Twin Peaks to an appropriate AC or DC power source.
2. Connect the battery(ies) to the output charge leads with the included receiver pack charge lead adapter. The LEDs on the faceplate indicate pack "A" and "B".

Note: The longer charge lead matches pack "B".

3. Push the *Start* button. A brief diagnostic test determines the charge current based upon the battery voltage. The LED will turn solid red during the charge process.
4. The charger will charge the receiver packs at 1 amp. When the battery(ies) have peaked, the charger will stop fast charging and transition to trickle charge. If you are charging two batteries simultaneously and one of the batteries has peaked, the other battery will continue to charge until it has peaked as well. You will know that the charger is in trickle charge when the corresponding LED continually flashes.
5. If you choose to re-peak your battery(ies), simply push the *Start* button without disconnecting the battery(ies) from the output charge lead. Do not re-peak the battery(ies) more than once during the charge process.

Trickle Charge

Once the battery pack has peaked, the charger will automatically transition to trickle charge. Because the Twin Peak can charge two packs at the same time, there will be times when one of your packs will be on trickle charge while the other battery is still fast charging. You will know that the battery is on trickle when the LED changes from solid to flashing. The trickle charge rate is 100mA.

Re-Peaking

Once the battery(ies) have peaked, you can re-peak them. With the battery packs still connected, simply push the *Start* button, and the LED will turn solid. When the battery packs have re-peaked, the charger will once again transition to trickle charge, and the LED will flash. Failure to follow this procedure could cause damage to both the charger and battery packs.

Fuses

This charger is protected by a 2-amp buss fuse (DYN4004). If you need to replace this fuse, always replace it with a fuse of the same rating. Your local hobby shop should stock this fuse. You may also find this fuse at automotive stores.