Hi – Peak Auto Fast Charger

Introduction

The Hi-Peak has been designed for fast charging 7.2 & 8.4 volt 1200-2400mAH Nicad packs for R/C models. 8 bit digital circuitry assures accurate and reliable delta peak cut off to significantly improve run time compared to normal timer chargers. Supplied with cigarette lighter plug to connect to a 12v DC supply and Tamiya type Nicad connector. Linear charge current of 4 amps (max) gives typical charge time of 30 to 55 minutes.

Specification

Charge Current;	3 to 4 Amps (Dependant on 12 volt supply and Nicad)
Charge Voltage range;	7.2 – 8.4 volts
Nicad Capacity;	1200 – 2400mAH
DC input Voltage range;	11.5 to 13.8 volts recommended (max rating 15 volts, see warnings)
Start Up Peak Lockout;	60 Seconds

Charging

The charger gets **HOT** during use. Place the charger and Nicad on a surface not damaged by heat and allow good ventilation.

When connecting to the 12 volt DC supply the LED may be on or off, either is OK.

Connect your Nicad to the Tamiya style output connector.

If the red ‘charge’ LED is ON charge is in progress. If not press the yellow ‘go’ button once, the red ‘charge’ LED should be ON.

When your Nicad is fully charged the LED will go OFF and your Nicads should be warm.

If at any point your Nicads become hot disconnect them immediately and allow them to cool in a safe place. Return your charger for service.

Always allow your Nicads to cool down after use before recharging them.

Charge Time

The charge time will depend on the condition of the DC supply and the type of Nicads to be charged. Obviously the greater the capacity of the Nicads the longer the charge time. Typical Nicads will take between 30 and 55 minutes to charge.

Hints and Tips

If you connect the Nicad backwards your charger could become vert hot and the fuse resistor inside may blow. The charger will survive a very brief reverse connection.

If you wish to double check the peak detector is functioning correctly you can do so by connecting a pack of Nicads and commencing to charge them, then disconnect the Nicad and leave your charger for 30 seconds (with red LED on). When you reconnect your Nicads the Red 'charge' LED should go out. This indicates correct operation of your Hi-Peak automatic cut-off.

Warnings

Your charger will get **HOT** during use, this is normal. **Never** leave your charger on a surface that might be damaged. **Always** ensure adequate ventilation.

The Hi-Peak will get **hotter** on a 13.8v supply than a 12v battery.

Don not use a supply voltage higher than 13.8 volt DC. The electronics are rated at 15 volts but the unit will get **very hot.**

Don't attempt to charge you 12v supply battery while your Hi-Peak is connected to it.

During charge, **NEVER** press the yellow 'go' button as this may cause overcharging of the Nicads.

Sometimes when charging new nicads for the first times the peak detector cannot properly detect the peak and there is a possibility of overcharge. Feel the temperature of new Nicads during charge. If they become hot, disconnect them from your charger.

Always keep your Nicads, insulated and connectors in perfect conditions. This will reduce the risk of accidents and improve performance.

Do not charge a hot Nicad. Do not charge normal drycells. Do not get water inside the charger.