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## Nicad BATTERY CHARGING/DISCHARGING INSTRUCTIONS

CAPACITY	STANDARD TRICKLE CHARGE	PEAK CHARGE RATE	MAX DISCHARGE RATE
250mah AAA	75mah ~ 4-6 hours	.4 amps	1 amp
600mah 2/3 A	100mah ~ 8-9 hours	.90 amps	10 amps
800mah AA	100mah ~ 11-12 hours	1.2 amps	5 amps
1100mah AA	100mah ~ 15-16 hours	1.6 amps	10 amps
1400mah A	100mah ~ 14-16 hours	2.0 amps	10 amps
1500mah 4/5 A	150mah ~ 14-16 hours	2.3 amps	15 amps
1700mah A	150mah ~ 14-16 hours	2.6 amps	20 amps
2100mah sub-C	200mah ~ 12-14 hours	3.0 amps	25 amps
2400mah sub-C	240mah ~ 14-16 hours	3.6 amps	30 amps
5000mah D	500mah ~ 14-16 hours	7.5 amps	30 amps

**\*\*Calculate your charge time: Battery Capacity +10% / Charger output = hours charge time**

### Nicad Battery Pack Discharging- See our complete line of dischargers at [onlybatterypacks.com](http://onlybatterypacks.com)

It is necessary to discharge your Nicad cells after every use, for these cells develop a discharge "memory". Each time you use the pack without fully discharging the capacity reduces until the pack will no longer accept a charge. If you want to fully discharge a pack do not discharge lower than .90v per cell minimizing the possibility of cell reversal. You can easily make your own discharger as follows; For small packs such as AA & A wire together 2 (4 amps) #1157 automotive turn signal bulbs in parallel). For Large sub-C packs wire 5 (10 amps) bulbs in parallel. Discharge the pack until the lights are dim or until the pack reaches the following voltage;

Note: Discharge cutoff voltage: .90 volts per cell

Cells	1	2	3	4	5	6	7	8	9	10	12
Cutoff	.90v	1.80v	2.70v	3.60v	4.50v	5.40v	6.30v	7.20v	8.10v	9.00v	10.8v

### Nicad Battery Pack Maintenance

- 1.) New battery packs will require 4-6 full charge /discharge cycles to reach full capacity. Charging a pack with a timed charger that has not been discharged will destroy it, if you are using a timed charger it will keep on trying to charge the pack even if it is fully charged. The battery will then output the extra power in heat and will cause the cells to vent and loose capacity. It is always recommended to use a peak detection charger to get full capacity and life out of your packs.
- 2.) Trickle charge time listed in the chart above is for fully discharged packs.
- 3.) **Always let the batteries cool to room temperature before charging, discharging and before using. Heating your Nicad battery pack up beyond 125 F degrees indicates an overcharge condition and will lead to cell damage.**
- 4.) Batteries should be charged with a peak charger for the most accurate results. If you do not have a peak charger hook a multi-meter up to the pack and monitor the voltage once the voltage peaks and starts going down the pack has been fully charged. Another way to tell when a pack is near fully charged is when it is warm to the touch (not to hot to handle).
- 5.) Do not leave your Nicad batteries charged when not using them, always discharge them. If you do not discharge each time the battery will slowly loose capacity until it will no longer accept a charge.
- 6.) Charging 2 packs at the same time with one charger: Both packs must be identical voltage, chemistry and mah. Both packs must be completely discharged to .90 volts per cell before charging.