

Battery Maintenance

NiCd (Nickel Cadmium) Batteries

NiMH (Nickel Metal Hydride) Batteries

- Nickel Cadmium and Nickel Metal Hydride batteries by nature need to be "deep cycled" (fully discharged) before being placed back in their charger. Deep cycling your battery will help your NiCd battery maintain its maximum performance.

CARE TIPS

- Your new battery comes in a discharged condition and must be charged before use, Always "initialize" brand new batteries. To initialize, let your battery stay in the charger (14-16 hours), Approximately 50% longer than a normal charge. This will enable you to obtain maximum battery capacity.
Only perform initialization on the first Charge.
- When charging the battery for the first time your charger may indicate that charging is complete after just 10 or 15 minutes. This is a normal phenomenon with rechargeable batteries. Simply remove the battery and repeat the charging procedure.
- New NiCd, un-initialized batteries can be stored in a cool dry place without significant cycle life loss for up to 2 years.
- New NiMH, un-initialized batteries can be stored in a cool dry place without significant cycle life loss for up to 1 year.
- Wait until your equipment signals "low battery" before placing the battery back into its charger.
- Failure to "deep cycle" NiCd batteries will result in "memory" buildup. Memory will reduce the amount of energy you can draw each time you use the battery. It will also shorten your battery's overall cycle life.
- Only charge your battery when it needs charging. Don't return a charged battery to charger for an 'Extra Boost'. This will significantly reduce battery life. Only battery conditioners allow the end user to leave the battery in the charger for extended periods of time without reducing cycle life or damaging the battery.
- It is normal for a battery to become warm during charging and discharging
- Stabilize battery to room temperature 72 degrees before charging. Charging below 40 degrees and above 104 degrees will decrease battery life.
- Never leave your battery in its charger longer than the recommended charging time. Some chargers have indicator lights which signal charging has completed. To prevent memory buildup, immediately remove the battery when the charge cycle is finished.
(Don't use your charger as a radio stand).
- NiCd batteries can be stored up to two years without suffering from significant cycle loss. If you plan to store your batteries for an extended period, we recommend fully discharging and recharging your batteries every 90 days.
- Do not leave battery exposed to direct sunlight or extreme heat for extended periods of time.
- Leave battery in charger for an additional 1-2 hours after the GREEN light appears.
(When using a Motorola Rapid Charger).
- Recommend a second battery for multiple/longer duty cycle applications.
- A higher mAH rating is indicative of a longer lasting (higher capacity) battery and will not cause any incompatibilities. Actual battery run-time depends upon the power demands made by the equipment. The total run-time of the battery is also heavily dependent upon the design of the equipment.

Battery Maintenance

Pb (Lead Acid) Batteries

- Lead Acid batteries by nature need to be constantly charged. If a lead acid battery becomes fully discharged, it is imperative that it be given a full charge immediately. This will prevent internal "sulfation" from occurring, which is a condition that will permanently destroy your battery.

CARE TIPS

- Always keep lead acid batteries fully charged. If your battery serves as a backup energy source, be sure your equipment is always plugged in.
 - Store lead acid batteries in a cool, dry location. Never store your batteries on ground, metal or cement surfaces.
 - Always keep batteries clean and dry.
 - Stabilize battery to room temperature 72 degrees before charging. Charging below 40 degrees and above 104 degrees will decrease battery life.
 - Do not leave battery exposed to direct sunlight or extreme heat for extended periods of time.
 - If stored for more than 90 days, give your batteries a full charge.
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