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L3Harris Battery User's Guide

This document provides information on the care and use of rechargeable battery packs for L3Harris portable land mobile radios. Typically, L3Harris portable radios use Lithium Ion (Li-Ion) or Lithium Ion Polymer (or Lithium Polymer) batteries. Unless otherwise specified in this document, the term "Li-Ion" will be used to refer to both types. Some Nickel-Cadmium (NiCd) batteries and Nickel Metal Hydride (NiMH) batteries are still available, but these are being phased out in favor of higher capacity Li-Ion batteries.

L3Harris battery packs are constructed from top quality materials to provide high performance and long life. Their best performance and useful life can be achieved through proper care and maintenance, as explained in this document.

L3Harris Batteries and Chargers

Background Information on Batteries

New batteries shipped from L3Harris require full charging before their first use. Nickel-based battery packs must be conditioned prior to their first use – please refer to the "Charging Guidelines" section herein for instructions on how to condition the battery pack. Li-Ion batteries do not require conditioning.

Batteries are chemical-based devices, and the active chemicals contained within the batteries will be depleted over time, even during storage. The life of the battery can be affected by

- Age of the battery
- Extreme cold or hot temperature exposure
- Number of times the battery is charged and discharged
- Extreme physical shock or damage that may have occurred during a battery's lifetime

For best results

- Use the batteries upon receipt and avoid storing batteries
- Avoid exposing batteries to high temperatures for extended periods
- Avoid subjecting batteries to physical abuse
- Replace batteries promptly after they have exceeded their recommended cycle life, even if they are still providing satisfactory performance. Refer to Table 1 for cycle life limits per battery chemistry.

WARNING

Do not use L3Harris batteries with non-L3Harris chargers.

Do not use non-L3Harris batteries with L3Harris chargers.

For a charger with an external power adapter, be sure to use the adapter that was supplied with the charger.

Using L3Harris Chargers

Use only the L3Harris-specified batteries and charger for each radio model. Li-Ion technology is rapidly advancing, and some of the changes may result in incompatibilities when using third-party batteries or chargers. These incompatib

Monitor and promptly replace batteries that have exceeded the recommended cycle life. Generally, cycle life may be estimated by the number of working days the battery has been used. Replace the battery even if it still appears to function properly. Continued service beyond the recommended cycle life increases the risk of unexpected failure during service. For Li-Polymer batteries, the risk of battery swelling also increases. (For further information, refer to Table 1 for cycle life limits.)

Promptly replace batteries that no longer provide satisfactory

