Technical Bulletin

W E K N O W T H E R O A D™

X-C 6000

Replacement Battery Packs

Due to battery cell discontinuations and delays in the sourcing of another NiCd battery pack, Itronix must provide NiMH battery packs as a temporary replacement for NiCDs until they become available. It is expected that the newest NiCD battery packs will be available early in the first quarter of 2000. Until that time, Itronix will be filling orders with NiMH battery packs. The table below identifies the different battery packs by part number, capacity, and availability. This table can also be used as a reference to determine the correct Battery Parameter File (BPF) file required for correct operation in the X-C 6000. The BPF files are in the battery subdirectory contained in the XCTOOLS directory on the hard drive.

Part Number	Rated Capacity	Battery Type	Battery Parameter File (BPF)	Availability
46-0022-XXX	1900 mAhr	Type 1 (NiCD)	BT0106.BPF	Not Available
46-0057-XXX	1900 mAhr	Type 1 (NiCD)	TBD	First Quarter 2000
46-0023-XXX	2800 mAhr	Type 3 (NiMH)	BT0208.BPF	In Stock
46-0052-XXX	2800 mAhr	Type 3 (NiMH)	BT0309.BPF	In Stock
46-0029-XXX	3500 mAhr	Type 5 (NiMH)	BT0522.BPF	Not Available
46-0029-XXX	3500 mAhr	Type 6 (NiMH)	BT0604.BPF	In Stock
46-0051-XXX	4500 mAhr	Type 7 (NiMH)	BT0703.BPF	In Stock

All replacement packs have been programmed with new Battery Parameter Files (BPF) to ensure proper operation on units with older versions of XCTOOLS. Operationally, there are no compatibility concerns with the substitute NiMH packs. They will perform normally. The only exception may be that battery type in Battery Status may be “unknown” if the unit contains an older version of Battery Status. Battery Maintenance (deep cycle) will also execute without problems due to change in the replacement pack BPF.

If complete compatibility with the replacement pack and updates to existing packs is required, contact your company’s help desk for the most current version of XCTOOLS.

When using the replacement NiMH packs, the user should be aware of some of the performance differences between NiCD and NiMH battery packs. Although they have a higher energy density, the NiMH packs have a shorter life cycle depending on operational environment. Also NiMH capacity is degraded more in cold and warm temperatures. One advantage of the NiMH is that due to reduced memory effect, deep cycling is required less often. Itronix recommends deep cycling NiMH Packs every 10 to 12 weeks.

IMPORTANT It is difficult to quantify the amount of decrease in charge acceptance when batteries are operated in hot or cold temperatures. Battery characteristics will change depending on the current drawn, and individual batteries may operate differently.

For more information on battery performance and tips for optimum performance refer to Technical Bulletin 97-0053-001.

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