Battery Maintenance Solutions

Setup Instructions for the Philips MRx Battery adapter (PN# 07-110-9771)

ABSTRACT

The Philips MRx battery (PN# M3538A) has a SMBus fuel gauge which requires periodic calibration. Customers familiar with the 07-110-9770 will note that the MRxCal program is not available on the standard Cadex firmware (V1.10 and greater, not ending with 'p'). As a replacement for the MRxCal program, users are advised to use the Auto program.

Program:
Charge – Fully charges the battery
Auto – Does a full charge/discharge/charge test on the battery. Resets the battery fuel gauge and tests against target capacity.
Prime – Cycles NEW batteries to get them properly calibrated.

Prerequisites:

- This document assumes that the user is familiar with the operation of the Cadex C7x00-C and/or BatteryShop™ software.
- Adapter PN# 07-110-9771

A. Adapter Setup

To create a similar functionality as the 07-110-9770 adapter, format the 07-110-9771 adapter with the following settings.

Memory Slot:	C1
Program:	Charge
Chemistry:	Li
Cell:	4 (14.40V)
mAh:	6000
Charge:	0.35C
Discharge:	0.17C
Cap. Offset:	0%
Temp. Sensor:	0°C - 45°C
End of Discharge:	3.10V/Cell
End of Charge:	0.03C
Max. Charge:	4.20V/Cell
Max. Standby:	4.05V/Cell
C-Code Name:	M3538A

Memory Slot: C2
Program: Auto
Chemistry: Li
Cell: 4 (14.40V)
mAh: 6000
Charge: 0.35C
Discharge: 0.17C
Cap. Offset: 0%
Temp. Sensor: 0°C - 45°C
End of Discharge: 3.10V/Cell
End of Charge: 0.03C
Max. Charge: 4.20V/Cell
Max. Standby: 4.05V/Cell
C-Code Name: M3538A

Memory Slot: C3
Program: Prime
Chemistry: Li
Cell: 4 (14.40V)
mAh: 6000
Charge: 0.35C
Discharge: 0.17C
Cap. Offset: 0%
Temp. Sensor: 0°C - 45°C
End of Discharge: 3.10V/Cell
End of Charge: 0.03C
Max. Charge: 4.20V/Cell
Max. Standby: 4.05V/Cell
C-Code Name: M3538A

It is important to have both the Auto program and C-Code programmed correctly to properly calibration the M3538A battery. Please contact Cadex at service@cadex.com or at 1-800-565-5228, regarding any questions.

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