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 calibrate the M3538A battery. Please contact Cadex at service@cadex.com or at 1-800-565-5228, regarding any questions.

-END-