Cadex RigidArm™ (C Series)
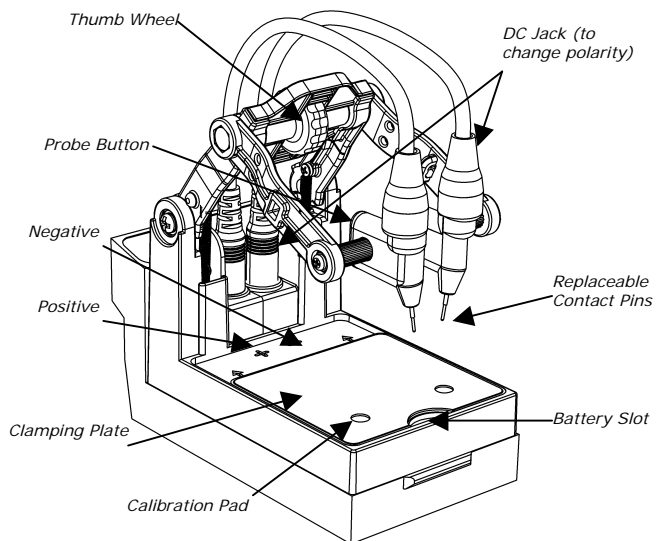## User's Guide

Introduction

The Cadex 4-wire RigidArm™ (P/N 07-110-0192) is designed to handle a wide range of cellular phone and other small rechargeable battery packs up to 18V. It features moveable spring-loaded probes that adjust to reach the battery contacts, and a slot to place the battery vertically.

The RigidArm™ universal adaptor is for use with Cadex C7200-C, C7400-C and C7400-C-ER and C5100 Battery Analyzers utilizing Cadex's patented QuickSort™ technology.

Note: Do **NOT** use the RigidArm™ to service Li-ion batteries on the C7000 & C7000-ER Analyzers or on older versions (non "-C") of the C7200, C7400, or C7400-ER that do not have QuickSort™ installed.

Thumb Wheel
DC Jack (to change polarity)
Probe Button
Negative
Positive
Replaceable Contact Pins
Clamping Plate
Battery Slot
Calibration Pad

Mounting a Battery

1. Place the arm in the upright position – do not let the arm fall as this may damage the contact pins.
2. Before inserting the battery, locate the positive ("+") and negative ("-") terminals on the battery (these should appear on the label)
3. For a vertical mounting orientation (preferred), insert the battery by sliding the retractable clamping plate toward the back and placing the battery into the resulting battery slot vertically with the terminals on the top.
4. For a horizontal mounting orientation, place the battery on top of the clamping pad with the battery terminals located toward the front of the adapter
5. Prior to connecting the contact pins to the battery terminal, check that the positive and negative pins on the adapter align with the positive and negative terminals on the battery. If they are reversed (eg. positive-negative) the polarity of the adapter pins can be changed by swapping the jacks. To do this, carefully remove the cables from adjustable pin holders and reconnect them so that they are now correctly aligned with the terminals. Note: a warning sound will occur upon connection if the polarity is incorrect.
6. Once the battery is in place and the polarity is correct, connect the pins to the terminals by pressing the probe buttons and rotating and/or sliding the adjustable probes until the pins are in contact with the appropriate terminals with the arm lowered.
7. To ensure good contact, tighten the arm in position by turning the thumb wheel.

The RigidArm™ includes one magnetic battery guide to hold the battery in place.

⚠ **Always use the correct C-Code to service a battery. A wrong setting may cause damage to the battery, fire or explosion.**

Configuration Codes ("C-Codes")

The RigidArm™ is pre-programmed to service 3.7V Li-ion batteries ranging from 600-1500mAh. Please see the Analyzer Users Manual to set other values.

Note: The *Edit* key on the Analyzer steps you through the programming process.

Maintenance

Cleaning: Keep the contact pins clean using a cotton swab and Isopropyl alcohol.

Calibration: Cadex recommends that the RigidArm™ be calibrated annually or approximately every 5000 tests for high volume users. Calibration measures contact wear. To determine if the RigidArm™ requires calibration, inspect the surface of the pins – if the gold plating is undamaged calibration may not be required.

See the appropriate Analyzer Manual for calibration instructions. Before calibration, clean the calibration pads with Isopropyl alcohol. During calibration, when prompted to short the contacts, place the pins to the calibration pads on the adapter plate. If the surface of the pins is pitted or damaged or you are repeatedly asked to recalibrate during the calibration procedure, replace the pins.

Replacing Pins: Pull out and insert new pin. Additional pins are available from Cadex (P/N 65-523-0005).

Disclaimer

While every effort is made to ensure that the information contained in this guide is accurate and up-to-date, the manufacturer does not warrant or guarantee its accuracy. Further, the manufacturer makes no warranties, either expressed or implied, as to the merchantability or fitness for a particular purpose of the Cadex RigidArm™. In no event will the manufacturer or its officers or employees be responsible for any consequential, incidental, or indirect damages (including damages for loss of business profits, business interruption, and the like) arising out of the use or inability to use the Cadex RigidArm™ Adapter and/or its documentation.

RoHS Compliance

The RigidArm™ complies with the European Union's Directive 2002/95/EC, Restrictions of Hazardous Substances (RoHS)

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