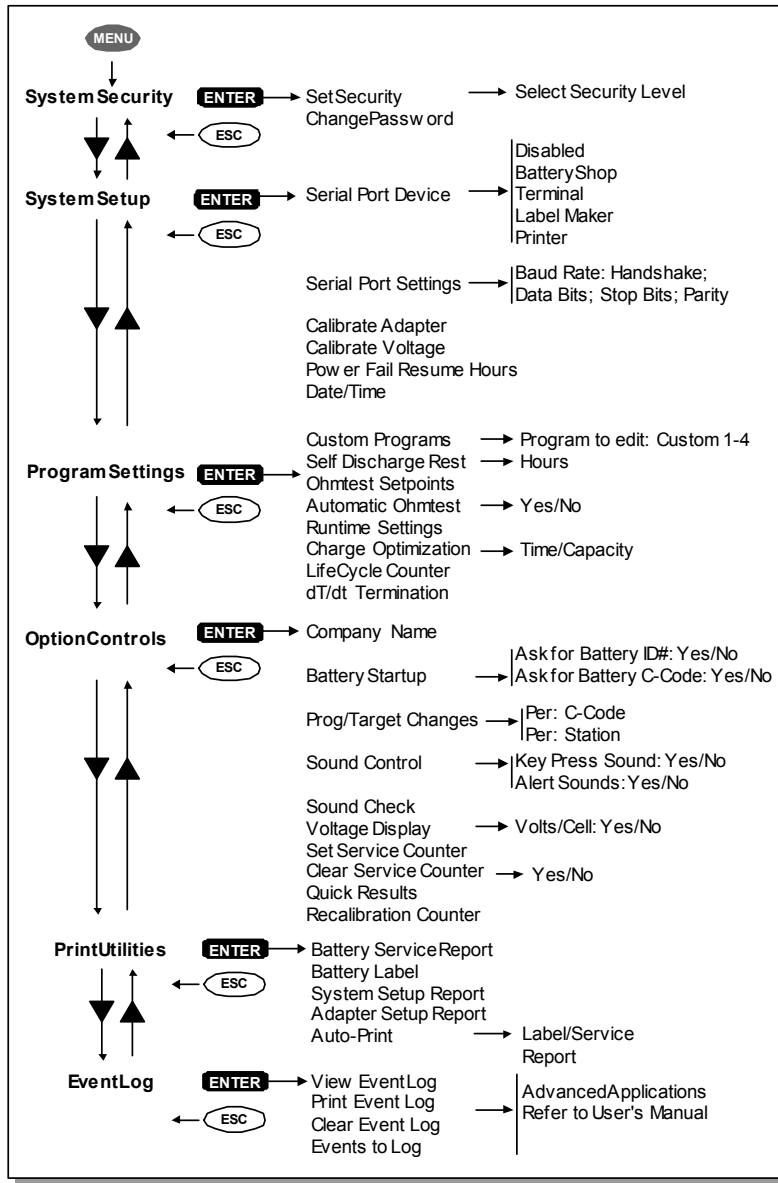


## 9. Menu



## Quick Reference Guide

For Cadex **C7200-C**, **C7400-C** and **C7400ER-C**  
Battery Analyzers — Firmware Version 1.00

### 1. Getting Started

Connect the unit to the correct voltage and turn power on. The power switch is located on the back of the unit.

EMPTY	EMPTY	EMPTY	NO ADAPT
Auto	QuickTest	Prime	

*Global start-up display shows status and selected programs. Insert battery only on **EMPTY**. (Display sample of 4-station unit)*

### 2. Viewing and Changing Settings

To view settings, press station key in **EMPTY** mode. To return to global display, press **Esc** key or wait for 30 seconds.

S1	*C1	Pgm: Auto	Target: 80% T
		Type: Li	Volts: 3.60 mAh: 600

*Pressing station key shows program, Target Capacity and C-Code. QuickTest matrix is present (T).*

Each Battery Adapter contains up to 10 individual battery settings (C-Codes).

To choose a C-Code, select station, scroll to desired location with the **▲▼ Direction keys** and press **Enter** twice. The star [\*] indicates the default setting. To choose another C-Code, press station key again, scroll to desired location and press **Enter** twice.

To select another program, press station key, press **Edit**, apply changes with **▲▼** and press **Enter**.

To change the Target Capacity, press station key, then **Edit**. Go to Target with **▶**, make changes with **▲▼** or number keys and press **Enter**.

To create or modify C-Code, press station key, select C-Code to be modified with **▲▼** and press **Edit**. Go to lower line by pressing **▶** twice. Change settings with **▲▼**. Move to extended C-Code settings (if needed) using **◀▶**. Press **Enter** to save the changes.

To erase a C-Code, select C-Code to be erased and press **Fn-0**.

To reset extended C-Code to default setting, select C-Code and press **Fn-1**.

To erase QuickTest matrix, select C-Code and press **Fn-2**.

**Note:** Reprogramming a C-Code will erase the matrix. To protect against tampering, activate System Security with menu.

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

### 3. Servicing a Battery

Insert battery into Battery Adapter and press **Enter** to verify settings. If correct, press **Enter** again to start service.

To change settings, press **Edit**, apply changes and press **Enter**.

To change C-Code, go to correct location with **▲▼** and press **Enter** twice.

<b>S1 Discharge</b>	<b>Cap : 98%</b>
<b>3.10V/Ce11 -600mA 120mΩ 25 °C 1:30</b>	

*Sample of display during battery service; Cap % advances if flashing; mΩ is taken during service.*

### 4. Printing

To print, select station and press **Print** key, scroll to desired print option with **▲▼** and press **Enter**. Select Port Device with menu (see 9. Menu, System Setup).

### 5. Programs

#### Basic Programs

**Auto** Exercises battery and applies Recondition (nickel-based batteries only) if the Target Capacity cannot be reached.

**Charge** Applies fast charge only; no capacity readings taken.

**Prime** Prepares a new battery for field use by repeated cycling until maximum capacity is reached.

**QuickSort** To rapidly sort Li-Ion, 3.6V, 500-1500mAh batteries.

**Advanced** Press **▶** to enter **Advanced Programs**

#### Advanced Programs

**SelfDCH** Tests battery self-discharge.

**LifeCycle** Cycles battery continuously until capacity drops to target setting.

**DCHOnly** Discharges battery, then stops.

**ExtPrime** Applies 16h trickle charge, then *Prime*. Used for stored batteries.

**OhmTest** Measures internal battery resistance.

**RunTime** Provides 3 discharge levels, set in hours and minutes (5-5-90).

**Boost** Wakes up dead batteries, applies 3 min slow charge. Pressing station key for 3 seconds starts *Boost*. Press **ESC** to cancel.

**Q-Learn** Adds QuickTest matrix by scanning new battery (3-5 min).

**Learn** Improves QuickTest matrix by scanning additional batteries (3-8h). *Important: Run batteries in sequence from high to low capacity.*

**QuickTest** Checks battery state-of-health in 3 minutes. Applies brief charge or discharge if outside range. (*16K adapters only*)

**Custom** Allows four separate user-defined programs.

**Basic** Press **▶** to return to **Basic Programs**.

### 6. Target Capacity

**90-100%** Critical applications; fewer batteries will pass.

**80%** Recommended nominal setting.

**60-70%** Less stringent applications; more batteries will pass.

**Note:** The target setting does not affect the charge level; the batteries are always fully charged.

### 7. Short Key Functions

Common functions can be set with the **Fn** or **Alt** with number key.

From Edit Display		From Global Display	
<b>Fn-0</b>	Deletes C-Code	<b>Fn-5</b>	Views Service Counter
<b>Fn-1</b>	Resets extended C-Code to default settings	<b>Fn-7</b>	Views Firmware Version
<b>Fn-2</b>	Erases QuickTest matrix	<b>Fn-8</b>	Calibrates Adapter
<b>Fn-3</b>	Copies single C-Code	<b>Fn-9</b>	Toggles between stand alone and BatteryShop mode
<b>Fn-6</b>	Copies all C-Codes from one adapter to another	<b>Alt-0</b>	Resets defaults and restarts unit
<b>Fn-9</b>	Matrix Protect		
<b>Alt-Edit</b>	Enters unique names for C-Codes	<b>Stn Key</b>	3 second key press starts Boost
		<b>Alt-Stn Key</b>	Restart Program

### 8. Abbreviations

**S1** = Station 1 selected.

**C1** = C-Code 1 selected. Each adapter holds 10 C-Codes.

**\*** = Default C-Code setting.

**SOH** = State-of-health indication in % on *QuickTest*.

**CG** = Confidence Grade for QuickTest.

**T** = QuickTest matrix present. Matrix added using *Q-Learn* or *Learn*.

**S** = Charge/discharge rate scaled back due to excess current.

**L** = C-Code locked for safety reasons.

**P** = Matrix locked.