

# Battery Replacement Instructions for Super Buddy Meter

**Purpose:** These instructions provide general direction for an experienced electronics bench technician to replace the battery pack inside a Super Buddy Meter (Hardware Version 1.3 and later). Someone lacking bench technician skills should not attempt to service the meter, but rather, should send the meter to the manufacturer for servicing to avoid damage to the meter and to avoid unsafe life safety issues.

## Tools required:

- #2 Phillips screwdriver for use with #6 screws
- #1 Phillips screwdriver for use with #4 screws
- Small needle nose pliers to grip plastic battery wire connector

## Disassembly

### Rubber Side Caps Removal:

1. Remove plastic clips or loop cables (x2) that connect the rubber side caps to the shoulder strap clips. This provides access to screws in the top of the rubber side caps.
2. Remove screws (x8 #6) from top and bottom of rubber side caps.
3. Remove screws (x4 #4) from front and back faces of rubber side caps.
4. Separate rubber side caps from chassis after removing screws.

### Metal Endplates Separation:

5. Remove top endplate screws (x2 #4) and (x1 #6 on foldover).
6. Remove bottom endplate screws (x2 #4) and (x1 #6 on foldover).
7. Gently separate (pull) top and bottom endplates (and rubber gaskets) from chassis. They will separate a few inches, but will remain tethered to circuit board via wires and cables.

### Battery Pack/Bracket Removal:

8. Unplug/disconnect the black battery clip (wires are red, black, gray) from the circuit board connector, by pulling the clip, not the wires (may use small needle nose pliers or fingers).
9. While supporting battery pack with fingers and thumb (squeezing battery pack to chassis), remove battery pack screws (x2 #6) located on backside of chassis, each side of serial number tag.
10. While meter is lying on its back (faceplate up), carefully slide/pull out battery pack/bracket towards the top, making sure to avoid contact with the circuit board above. You likely will need to move up or down the black wire (from the AC power supply module) to make room for removal of battery pack/bracket.

### Battery Pack Replacement:

11. Remove old battery pack (and fish paper insulator) from bracket. Responsibly dispose of battery at local recycler.
12. Insert new battery pack (and fish paper insulator) in metal battery bracket. Make sure the configuration of the battery in the bracket is such that wires are routed from the corner of the bracket that has been notched. This prevents wires from being pinched.

## Reassembly

13. Perform above steps in reverse order. When reconnecting battery wire clip to circuit board connector, be careful to properly orient.

