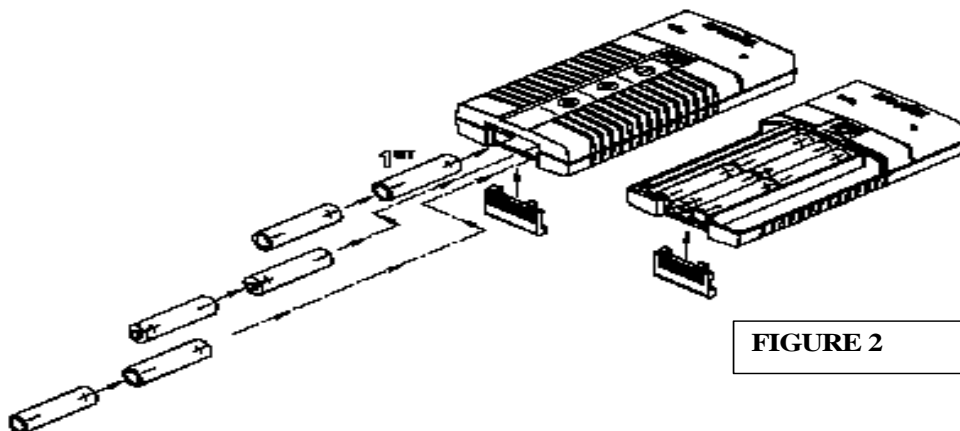


# NONIN OXIMETER TROUBLESHOOTING

## Nonin 8500, 8500M, 8500MA

- 1) Unit will not turn on:
  - a) Install six new batteries, ie Duracell, Energizer ect (avoid off brand low quality batteries)
  - b) Verify correct polarity of the batteries (**FIGURE 2**)
  - c) Verify battery door has metal contact
  - d) Disconnect any accessories attached to the device
  - e) Verify battery contacts, inspect for corrosion / clean contacts
- 2) Unit will not retain memory:
  - a) Verify Model # of the device, must have “M” in the model # to have memory capability (8500M, 8500MA, 920M)
  - b) Has the device lost battery power for more than 2 minutes, unit will clear memory after 2 minutes with no battery power.
  - c) Has more than 2 minutes of data been recorded.
  - d) Unit must have 6 new good batteries (no flashing displays), good sensor reading 2 minutes or more.
- 3) Unit will not display readings:
  - a) Verify that only Nonin accessories are being used
  - b) Verify integrity of all batteries, is display blinking
  - c) Try another sensor
  - d) If 8500I is being used, remove and try again using only the sensor.
  - e) Verify that tester \ patient is not wearing fingernail polish
- 4) Unit is displaying erratic readings
  - a) Follow steps in item #2 above
- 5) Numeric displays blink at one-second intervals (Low Battery Indication)
  - a) Install six new batteries
  - b) Verify correct installation (polarity) of ALL batteries (**FIGURE 2**)

## Nonin 8500, 8500M, 8500MA – Battery placement configurations



Battery installation (6) – Left to Right - #1, #3, #5  
#2, #4, #6

**Location: Reverse (5 other batteries correct polarity)**

#1 – Will power ON, Blinking Display HR and SPO2, will provide readings, but blink

#2 – Will power ON, Blinking Display HR and SPO2, will provide readings, but blink

#3 – Will power ON, Blinking Display HR and SPO2, will provide readings, but blink

#4 – Will power ON, Blinking Display HR and SPO2, will provide readings, but blink

#5 – Will power ON, Blinking Display HR and SPO2, will provide readings, but blink

#6 – Will power ON, Blinking Display HR and SPO2, will provide readings, but blink

\* Any two batteries reversed grouped together, No Power (1 – 2 or 3 – 4 or 5 – 6)

\* Any two batteries, not grouped together, will power ON, only dashes no readings.

\* Three batteries reversed, no power, no indications.