

NONIN OXIMETER TROUBLESHOOTING

Nonin Onyx 9500, FlightStat, SportStat \ Respironics 950

- 1) Unit will not turn on:
 - a) Install two new brand name batteries, ie Duracell, Energizer ect (avoid off brand, low quality batteries)
 - b) Verify correct installation of batteries (**FIGURE 3**)
 - c) Verify battery door has metal contact
 - d) Clean contacts inside unit and battery door with cotton swab and isopropyl alcohol
- 2) Unit will not display readings:
 - a) Verify that batteries are not low, indicated by blinking display
 - b) Verify that tester \ patient is not wearing fingernail polish
 - c) Inquire as to whether or not a RED LED is illuminated in the finger insertion
- 4) Customer reports erroneous readings:
 - a) Customer must count 10 – 12 consecutive green flashes. A single yellow or red flash requires a recount of the 10 – 12 green flashes for correct reading.
 - b) Recurrent occurrences of yellow or red may be due to poor circulation. Have customer exercise or warm fingers with warm water.
- 3) Unit draining batteries:
 - a) With the unit in the OFF state, verify that no red LED is illuminated in the finger insertion.
 - b) The ONYX provides 18 hours of *CONTINUOUS* operation, verify customer usage.
 - c) When the ONYX is OFF it still consumes a small amount of battery power. The ONYX monitors every second to determine if a finger has been inserted.
 - d) Batteries should be removed if storing for more than one month.
 - e) Install 2 new batteries, logging date and time of replacement. Ask that the customer keep track of usage, logging date and time. Log date and time of battery low indication.

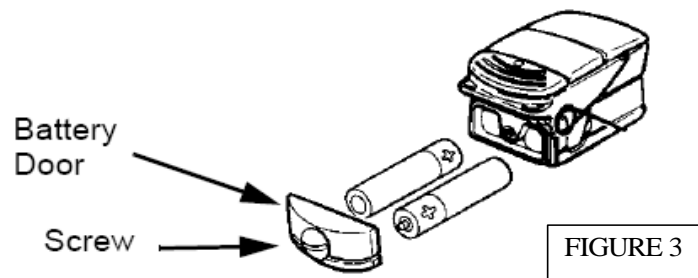


Figure 3. Inserting new batteries.

- 4) Spring has fallen off, no spring tension. Reinstall main spring (FIGURE 4)

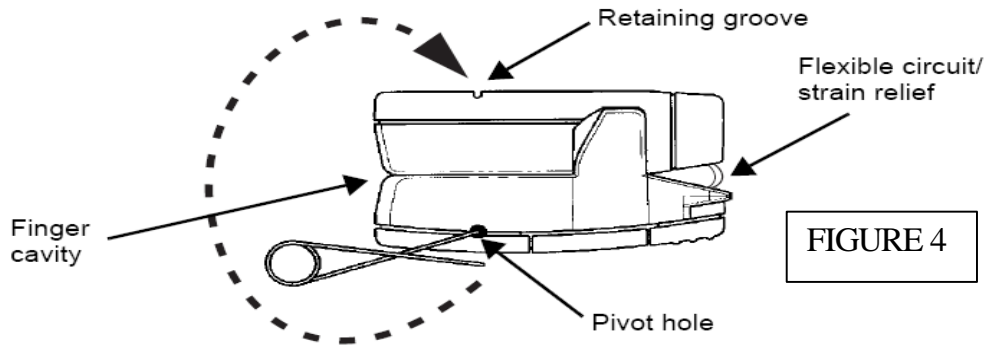


FIGURE 4