

**O-RING KIT FOR NIBP100D – RXNIBP100D-KIT**

This O-ring repair kit for the NIBP100D Noninvasive Blood Pressure Monitor (CNAP® Monitor 500) allows the user to replace the O-rings on the main unit, sensor cable and sensor.

Kit includes 20 O-rings, a repair tool, and lubricant.

**1. O-RING LUBRICATION**

O-rings are used for leak-proof distribution of air throughout the CNAP® hardware. The O-ring bushings of the CNAP® finger cuff and the CNAP® cable (Figure 1) need to be lubricated regularly (every 12 months) in order to assure a free moving connection and avoid air leakage.



Figure 1

CNAP™ Error Codes associated with air leakage:
CNAP Fault Initial Pressure. Technical description: Self-Test Manifold Pump Does Not Reach Minimum Pressure Threshold
CNAP Fault Pump/Tubing/Valve Leaky. Technical description: Self-Test Manifold Pump/Tubing/Inlet Valve Leakage

**Lubricate the O-ring bushings (air connectors) of CNAP® Monitor 500 with O-lube.**

- a. Apply a small amount of O-lube to a Q-tip. (Figures 2-4). Avoid applying too much O-lube on the Q-tip (as in Figure 2) by distributing excess lube on the back of your hand (Figure 3). Figure 4 depicts the proper amount of lube.



Figure 2

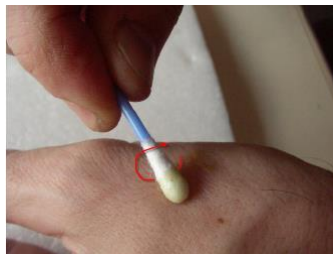


Figure 3



Figure 4

- b. Apply O-lube into each of the two bushings (lateral holes used for air supply) of the CNAP® finger cuff and the CNAP® cable (both ends) as shown in Figures 5 and 6.

**IMPORTANT:** The electrical connections in the middle of the connector must not come in contact with the O-lube.

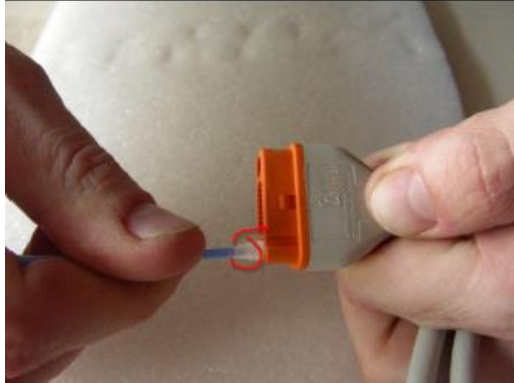


Figure 5



Figure 6

- c. Start the NIBP100D CNAP® Monitor and CNAP® hardware (CNAP® controller, CNAP® finger cuff and CNAP® cable). If the status message "CNAP initializing" is displayed upon startup, the connection is working properly. Otherwise, repeat Steps b and c.

## 2. O-RING INSTALLATION

O-rings are used in the CNAP® controller (four O-rings) and CNAP® cable port (two O-rings) to distribute leak-proof air throughout the CNAP® hardware.

### How to change the O-rings (air connectors) on the NIBP100D CNAP® Monitor 500

- a. Remove the four red O-rings from the CNAP® controller. (Two O-rings for each connector, see Figures 7 and 8.)

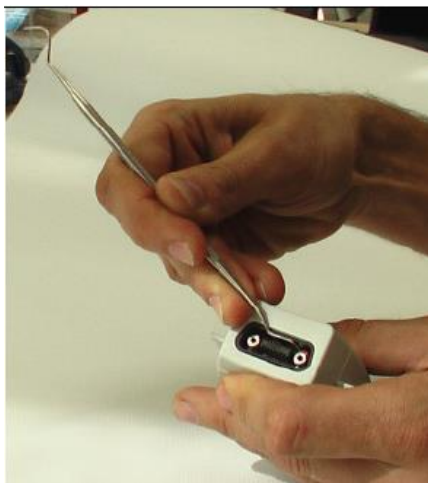


Figure 7



Figure 8

- b. Slide/roll O-ring onto the provided O-ring mounting tool (O-ring at the end of the conus, as shown in Figures 9 and 10).

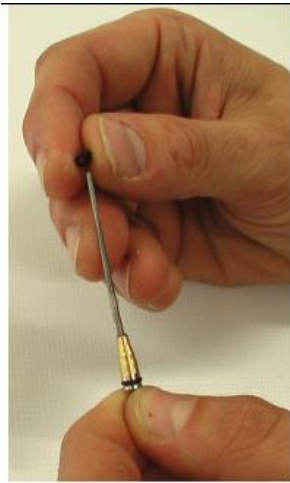


Figure 9

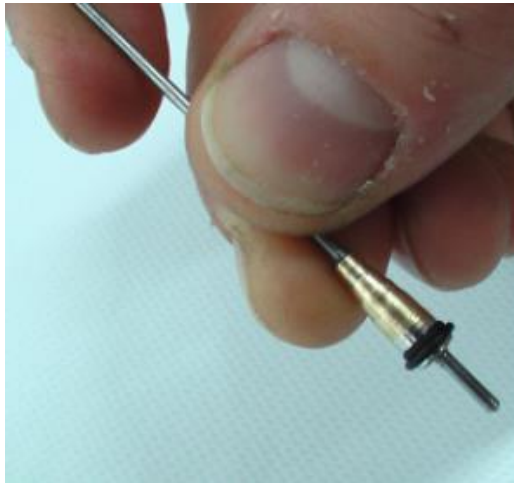


Figure 10

- c. Attach the O-ring mounting tool to one of the O-ring carriers (as shown in Figure 11). Then use the green O-ring plug socket to slide the O-ring onto the O-ring carrier (Figure 12). Make sure that the O-ring sits in position on the O-ring carrier.



Figure 11

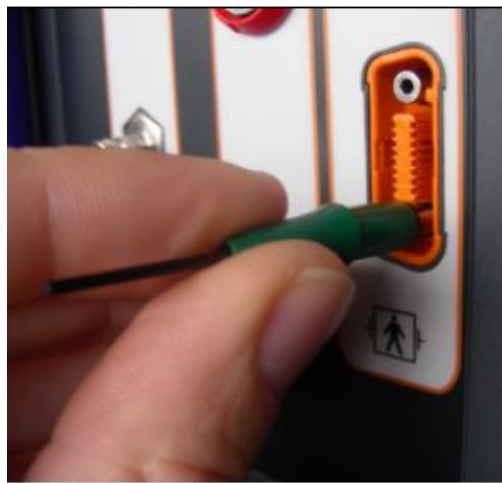


Figure 12

- d. Remove the O-ring plug socket and O-ring mounting tool.
- e. Repeat Steps a-d for all four O-rings of the CNAP<sup>®</sup> controller and the two O-rings of the cable port on the NIBP100D CNAP<sup>®</sup> Monitor 500.
- f. Lubricate all O-ring bushings as described in Section 1.