NEP-595 O’ RING REPLACEMENT PROCEDURE



OBSERVATOR INSTRUMENTS

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2.4 Clean the O ring surfaces using damp cloth and apply O’ring grease. 9

2.5 Replaces the O ring with new and apply enough O’ring grease on the top. See Figure 19, Figure 20. 9

2.6 Fix the data cap back together using spacer (washers and screw. See Figure 21, Figure 22. 10

- Hold the O ring holder while tightening the screw. See Figure 23. Make sure that the two parts can rotate independently 10

Materials included in “NEP595 O-ring replacement kit”.

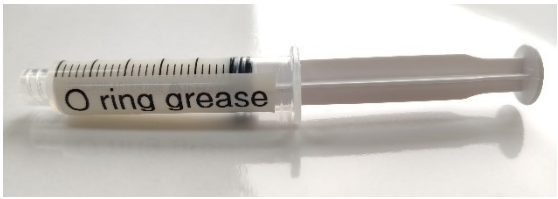
Order code – “NEP595-Oring-kit”

1. GMT160260203 26X3 N70 NITRITE O RING - 2nos
   GMT160450393 45X3 N70 NITRITE O RING - 2nos





2. O ring grease.



3. O’ring removal tool.



4. Allen key for - Grub screws.



5. Phillips screwdriver.



1. When to use the NEP595 O’ring replacement kit.

1) Physical damage to the existing O’rings.
2) After one year of field use.
3) Routine overall of the product.

1. Replacing the front end O'rings.

1.1 Unscrew the NEP595 front end from the assembly. See Figure 1.



Figure 1 front end

1.2 Unscrew all 4 "Dog point" grub screws and remove the SUBCONN mount from the front end. See Figure 2, Figure 3.



Figure 2 Shows location of the Dog point grub screws.



Figure 3 subconn mount after disassembling

1.3 Carefully remove the O rings using the O’ring pick tool and care must be taken to avoid scratching or damage of the O ring groves. See Figure 5, Figure 4. Use the provided plastic “O’ring removal tool”



Figure 5 Use the O’ring pick tool.



Figure 4 remove the first O'ring.

1.4 Clean the O ring surface with a damp cloth and apply O’ring grease to the O’ring grooves. See Figure 7, Figure 6.



Figure 7 remove the second O 'ring.



Figure 6 apply O’ring grease.

1.5 Replace both O rings with provided O-rings and then apply enough O'ring grease top of the O rings. See Figure 8, Figure 9.



Figure 8 replacing O'ring.



Figure 9 apply O'ring grease.

1.6 Secure the cable and assemble the Subconn assembly to front part until it touches (See Figure 10) and use locking cap to tight (Figure 11).

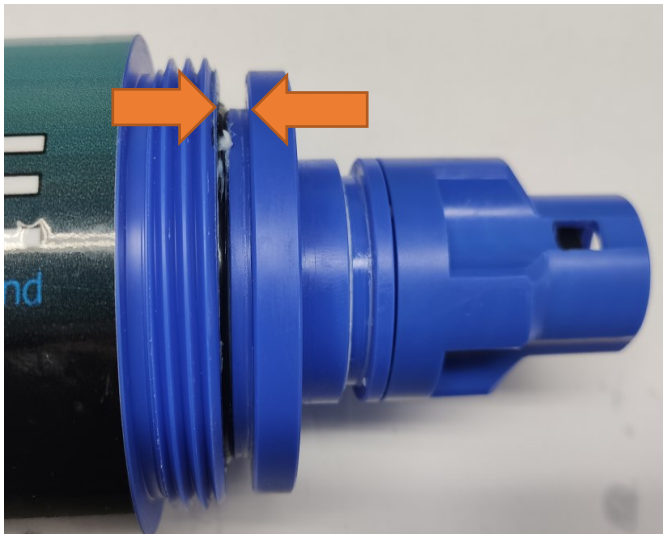


Figure 10 assembling subconn.

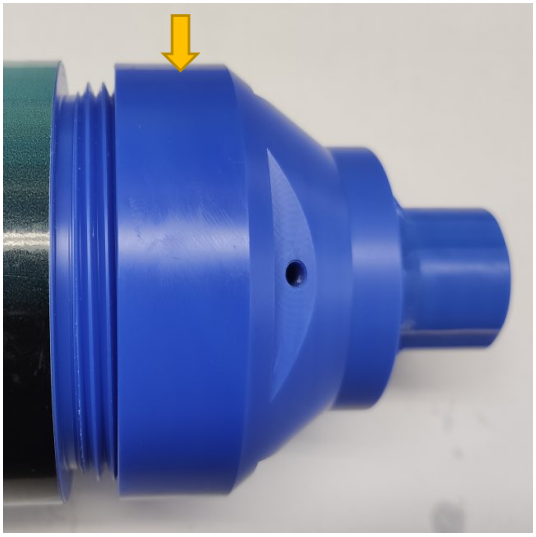


Figure 11 screwing the locking nut.

1.7 Make sure the locking nut has closed fully and no gap between the assemblies. See Figure 12.

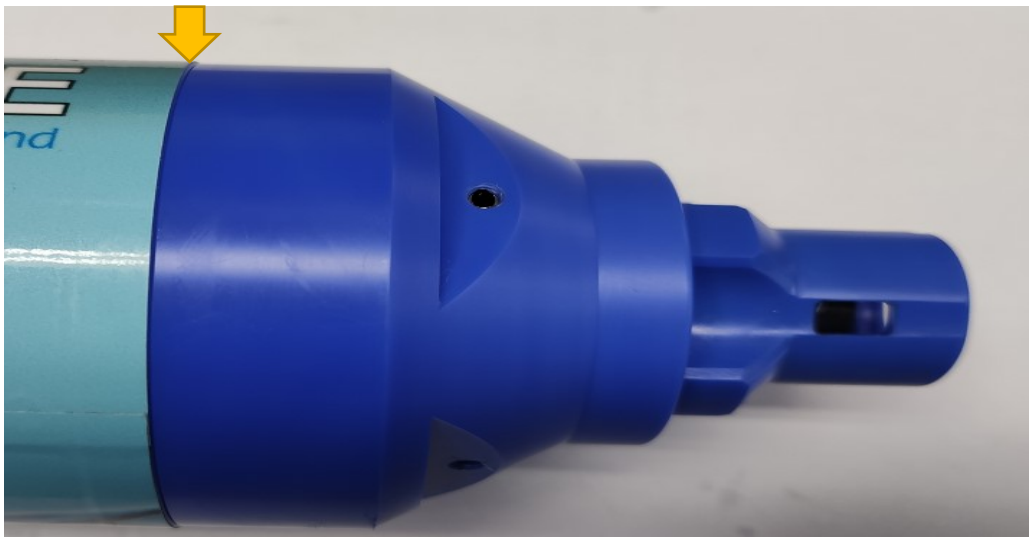


Figure 12 make sure no gap between the assemblies.

1.8 Tight the "dog point grub screw" until it touches the surface and unscrew half thread back for the free movement of the two parts. (If two parts are not free to rotate from each other, the cable inside will twist while this part is rotating). See Figure 13.

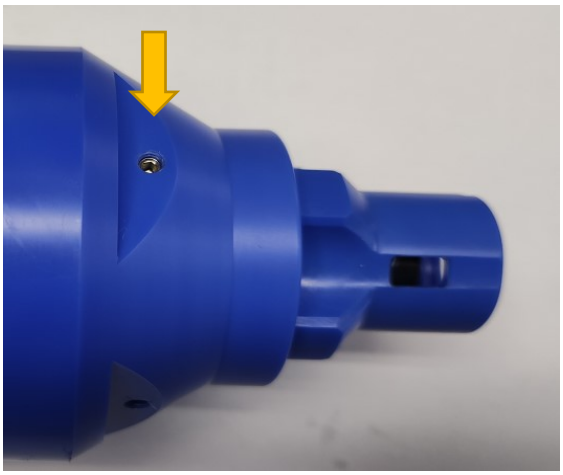


Figure 13 make sure Grub screws are unscrew half thread back after tightening.

2. Step 2: Replacing the Data cap O'rings.

2.1 Remove the Back-end CAP from the assembly. See Figure 15.

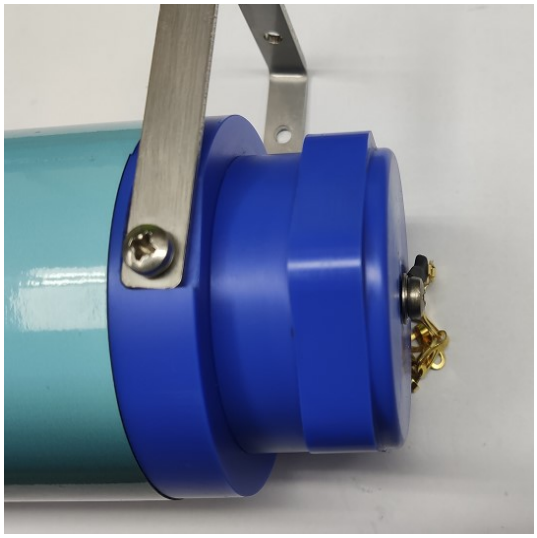


Figure 14



Figure 15 remove the back end

2.2 Remove the O ring holder by unscrew the screw (hold tight the O ring holder while unscrewing). See Figure 16.



Figure 16 remove the O'ring holder

2.3 Remove both O'rings using the O'ring pick tool without the damaging the O ring surfaces. See Figure 17, Figure 18.



Figure 17 remove first O'ring.



Figure 18 remove second O'ring.

2.4 Clean the O ring surfaces using damp cloth and apply O'ring grease.

2.5 Replaces the O ring with new and apply enough O'ring grease on the top. See Figure 19, Figure 20.



Figure 19 apply O'ring grease.



Figure 20 apply O'ring grease.

2.6 Fix the data cap back together using spacer (washers and screw. See Figure 21, Figure 22.



Figure 21 fix the data cap together.



Figure 22 insert the spacer first then washers and screws.

- Hold the O ring holder while tightening the screw. See Figure 23. Make sure that the two parts can rotate independently.



Figure 23 hold the holder while tightening the screw.