



iSED® Automated Erythrocyte Sedimentation Rate Analyzer

Primary Pump Rotor Replacement Procedure, 112-28-018 Rev. 0

Purpose

The purpose of this procedure is to guide the customer with the replacement of the Primary Pump Rotor in the *iSED*® ESR Analyzer.

Scope

This procedure applies to *iSED*® instruments that meet the requirements for Rotor replacement as described in the September 2021 Technical Bulletin (112-20-019).

Required

1. All necessary Personal Protective Equipment
2. Biohazard Disposal
3. Isopropyl alcohol
4. Pump Rotor Replacement kit (112-13-033), which includes:
 - a. Replacement Primary Pump Tube (112-13-002)
 - b. 3-Roller Rotor Assembly (100-08-003)

Preparation

1. Power on *iSED*[®]
2. Run a Wash Cycle by pressing the Wash Cycle Icon.
3. Remove the Needle Access Door from the rear panel of the *iSED* by turning the locking screw counter-clockwise. (Figure 1)



Figure 1

Procedure - Replace Primary Pump Tubing and Rotor Assembly

1. Remove the tubing from the white connector on the left side of the peristaltic pump and unscrew the brown thumbscrew on the right. (Figure 2)

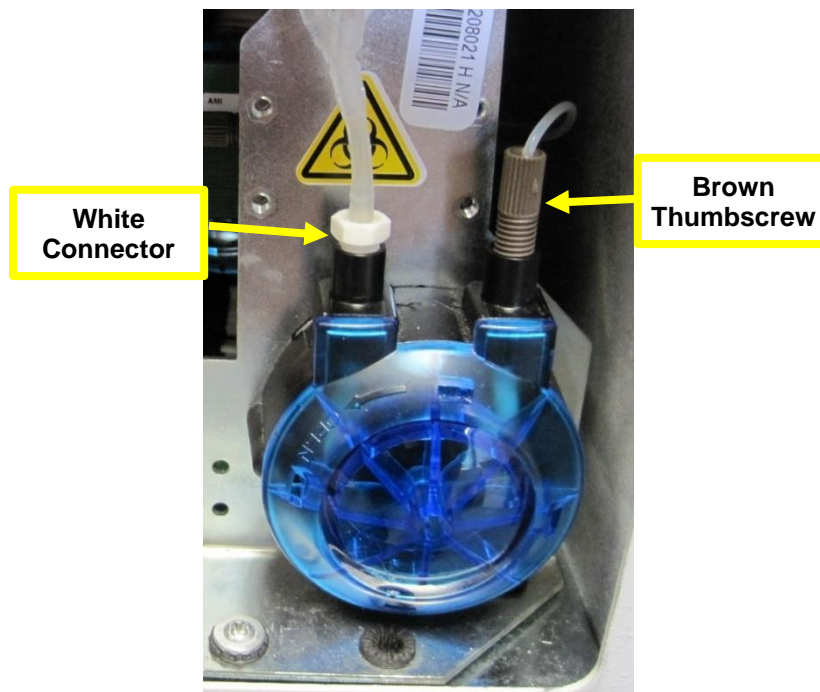


Figure 2

2. Loosen and remove the blue cap on the peristaltic pump in the same manner as the wash pump cover.
3. Remove the old tubing from the peristaltic pump by gently pulling on the tubing through the alignment tabs within the pump housing. Rotate rotor to assist in removal. Dispose of tubing in proper biohazard disposal container. (Figure 3)



Figure 3

4. Remove the old 4-Roller Rotor: hold the pump's housing to secure it, pull the rotor away from the housing. Use needle-nose pliers if necessary. Dispose of rotor in proper biohazard disposal container. (Figure 4)

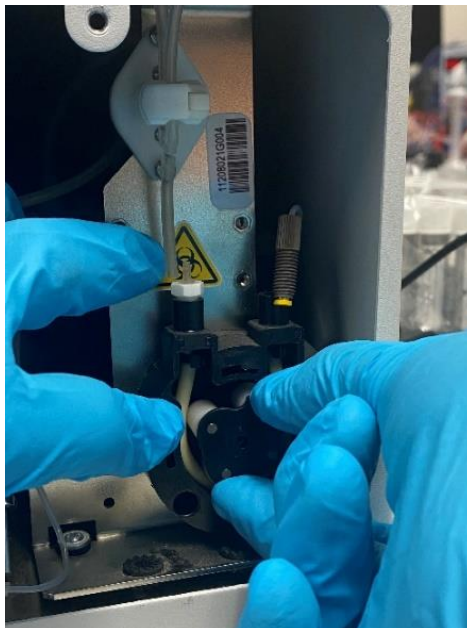


Figure 4

5. Install the new 3-Roller Rotor Assembly, with the round side towards the back of the pump, as shown in (Figure 5)



Figure 5

6. Starting on the left side of the primary pump, insert the grooves of the new tubing into the slot on the pump. Slowly work the tubing in the pump. Once the tubing is in place, insert the grooves of the new tubing into the slot on the right side of the pump. See Figure 6 for correct placement.



Figure 6

7. Reinstall the blue cap as removed turning clockwise to lock in place. Reconnect the silicone tubing to the white connector on the left and re-attach the brown thumbscrew to the right of the peristaltic pump.



Figure 7

Procedure – Reset the Maintenance Counter

8. Power on the iSED®. On the Main measurement screen, press the “Tools” icon. (Figure 8)

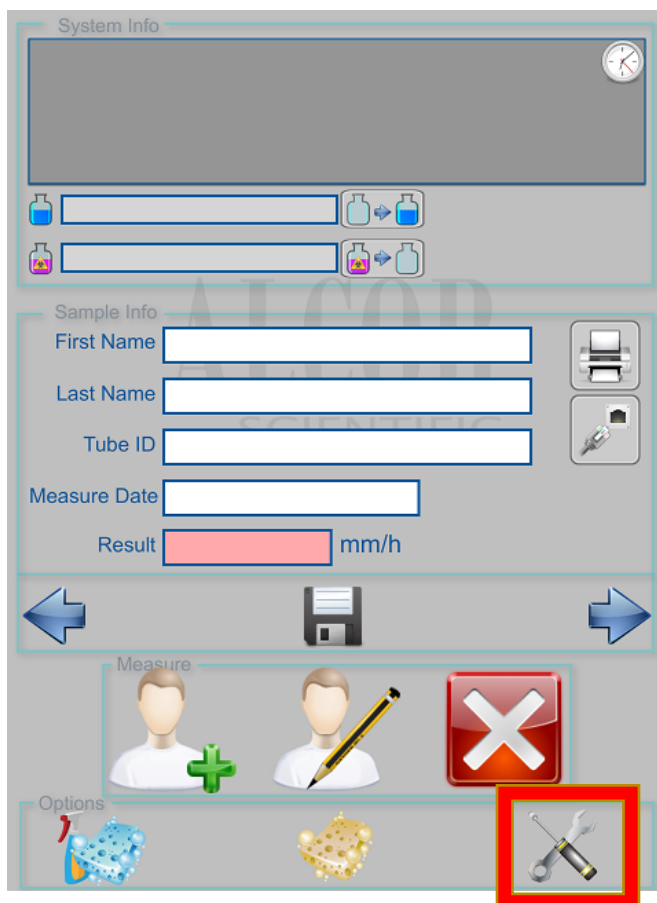


Figure 8

9. Enter the code "19912" and press the enter key to submit the code.
10. Press the right-hand pointing Blue arrow at the lower right corner of the screen 2 times, or until Tech Screen #3 is displayed (screen number is shown in the upper right corner of the screen).
Figure 9
11. Press the Grey box next to the pump icon outlined in red in Figure 9. This will reset the Maintenance Counter number inside that grey box to 0.

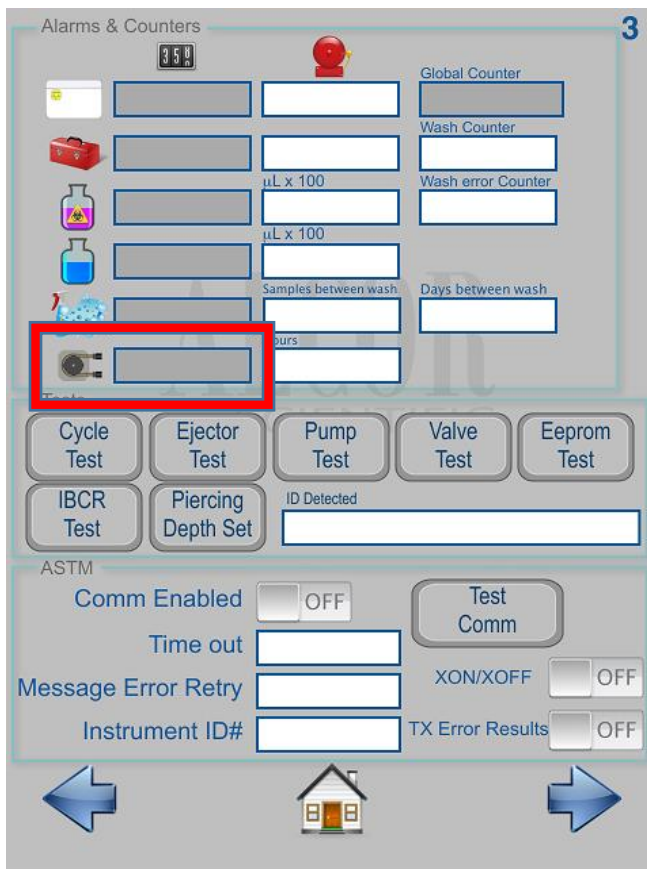


Figure 9

12. Press the Home button at the bottom of the screen to return to the Main screen.

**Contact Technical Support @ (800)-495-5270 or +1 (401) 737-3774, or at
techservice@alcorscientific.com for any assistance.**