# iSED® (Serial Numbers >5000) and iSED ELITE Automated Erythrocyte Sedimentation Rate Analyzer

## Manual Bleach Cleaning Procedure, 222-28-004 Rev. 1

### Purpose

This procedure describes how to perform a manual Bleach Cleaning of the hydraulic system in the event of a dried blood blockage or when frequent Tail Sensor Calibration errors occur in the iSED (serial numbers 5000 and above) and iSED ELITE Automated ESR Analyzers, when directed by an ALCOR® Scientific Technical Support team member.

### Scope

This document describes the procedure to be followed when the tubing system of iSED/iSED ELITE needs cleaning with bleach solution, as directed by ALCOR Scientific Technical Support, or when the criteria for cleaning is met as described in the iSED/iSED ELITE Service Manual. Alternatively, the procedure can be performed in an automated process by following the “Deep Wash” or “Deep Clean” procedure outlined in the analyzer’s Operator’s Manual.

### Materials:

1. Empty, unused 13 x 75 blood collection tubes with pierceable cap, with or without EDTA
2. Bleach (6% hypochlorite), diluted with deionized water
3. iWASH® with enough fluid for minimum of 6 washes
4. Empty iWASTE® Container
5. Timer set to 5 minutes

### Preparation:

Remove cap of empty blood collection tube and fill with Bleach (6% hypochlorite) to the tube maximum fill line with a minimum of 4.0mL. **Replace Tube Cap.**

### Procedure:

1. Press the “Burger” icon on top left side of screen as highlighted in pink in Figure 1.



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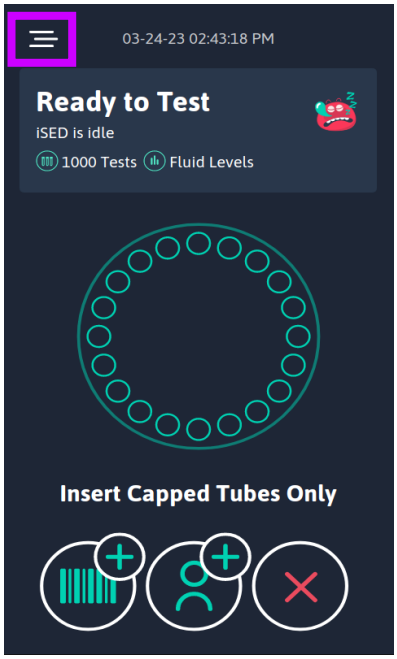



**Figure 1**

2. Press the Maintenance button highlighted in pink in Figure 2.
3. Perform three washes by pressing the Run button in the Quick Clean area as highlighted in pink in Figure 3.

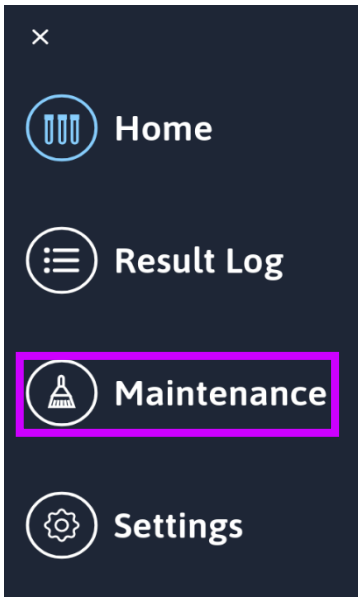



**Figure 2**

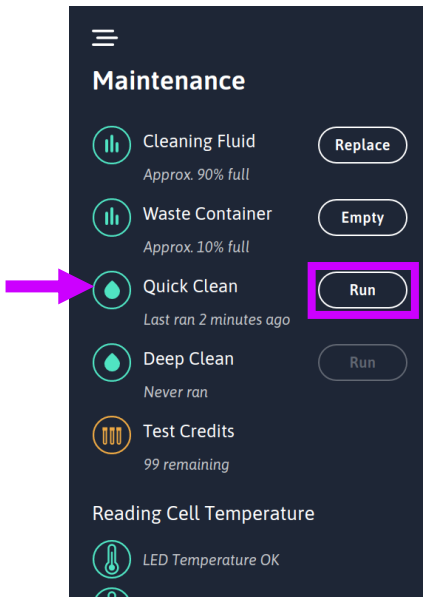



**Figure 3**

4. Once the three wash cycles have completed, press the “Burger” icon as highlighted in pink in Figure 4.
5. Press the Settings button in the “Options” screen as highlighted in pink in Figure 5.

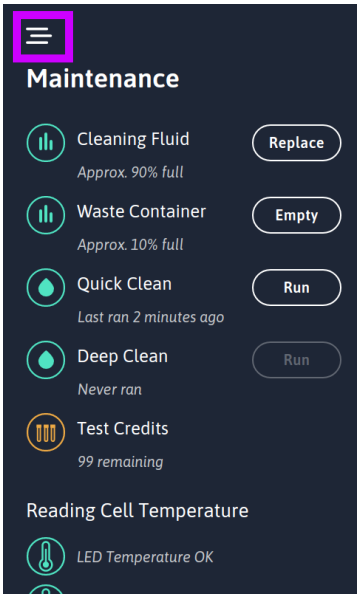



**Figure 4**

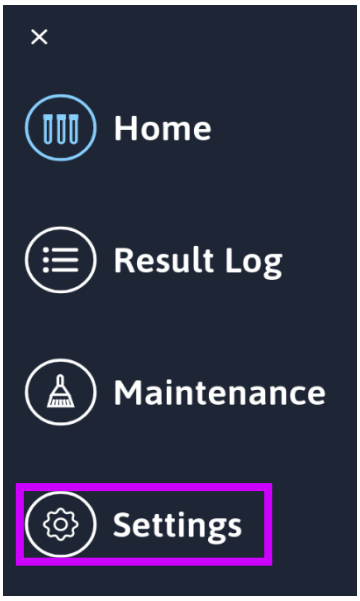



**Figure 5**

6. Press the Advanced settings button (Figure 6) that lead to the Instrument Setup Page (Figure 7). Select Robotics Controls which opens the Robotics Control Pin Page (Figure 8). Enter the PIN: 19912 and press Continue.

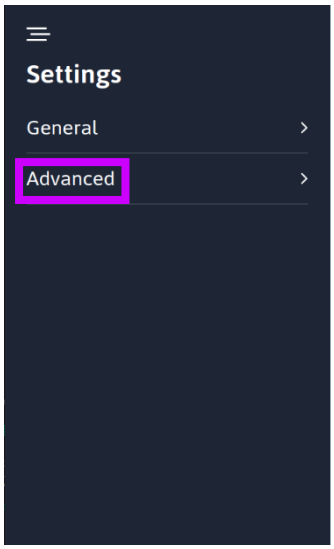



**Figure 6**

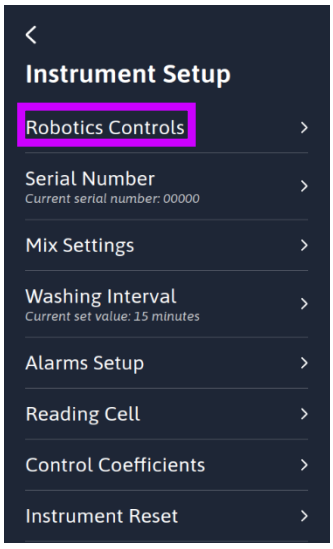



**Figure 7**

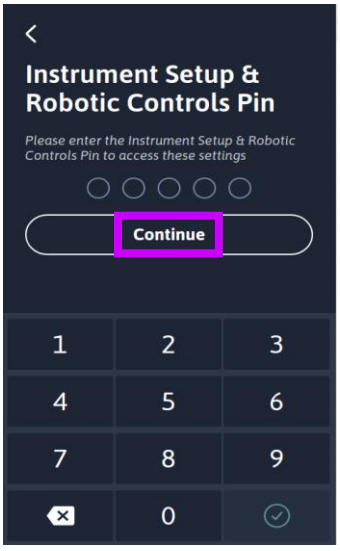
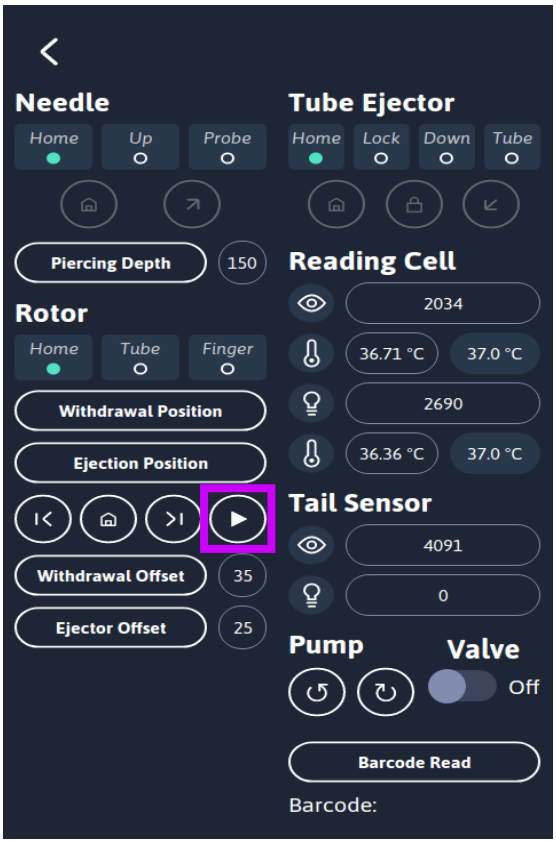



**Figure 8**

7. Press the “Play” button once on Robotics Control page as highlighted in pink square in Figure 9. The Rotor keeps on spinning. Keep it running for 2-3 secs. Press it again, bringing the Rotor to Home position. The “Home sensor” lights green once Rotor is at Home position.
8. Once the Rotor stops, insert the Bleach Tube.



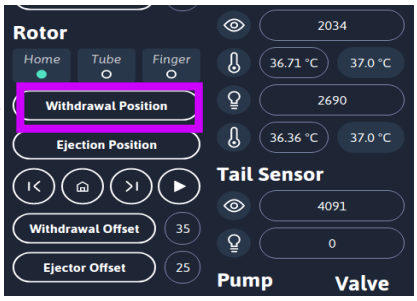




**Figure 9** **Figure 10**

9. Press the Withdrawal Position Button highlighted in Figure 10. When the numerical keypad is visible, select the number 1.
10. On pressing the Withdrawal position 1, the “Needle Up” Button gets activated as highlighted in pink in Figure 11. Press the “Needle Up” Button to pierce the patient sample tube. Observe that “Green light’ is activated on Up and Probe sensor during piercing action.

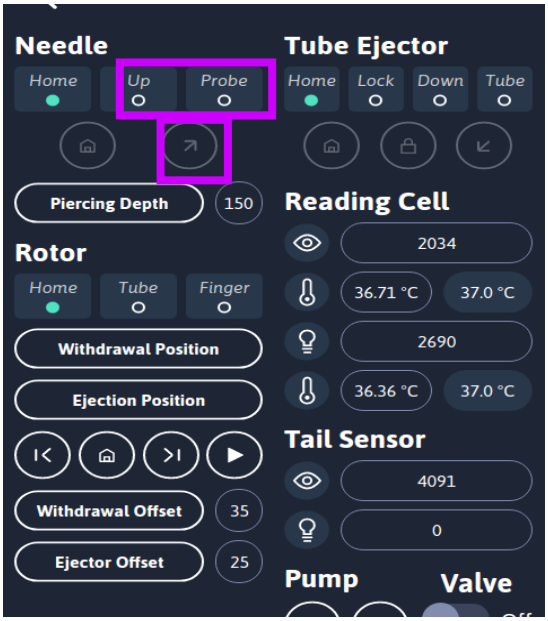



**Figure 11**

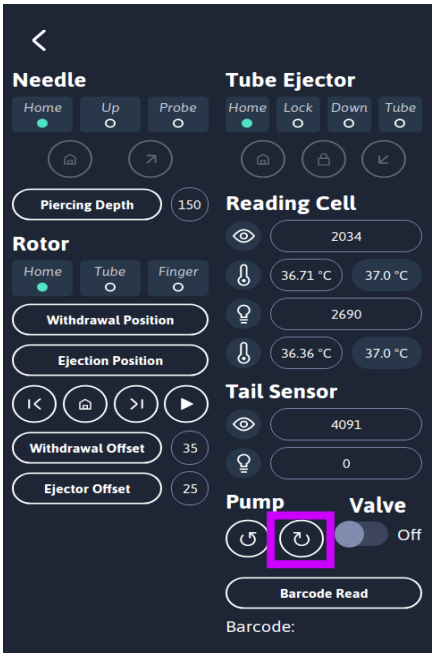



**Figure 12**

11. Press the Peristaltic Pump “Forward” Button as highlighted in Figure 12. Press this button 8 times waiting a second between each time the button is pressed. This will withdraw the bleach from the sample tube.
12. Set a timer for 5 minutes.
13. Once the timer alarms, press the “Home” button highlighted in Figure 13.

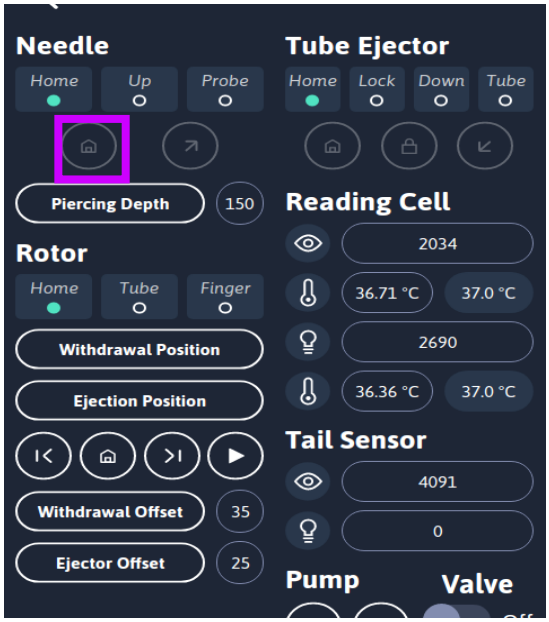



**Figure 13**

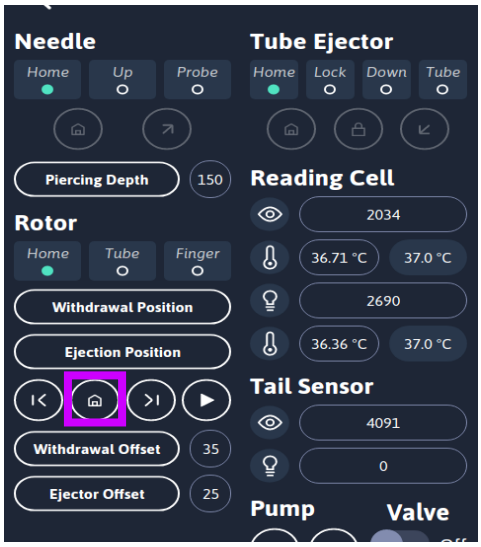



**Figure 14**

14. Press the “Home” Rotor Button as highlighted in Figure 14. This will return the bleach tube to the loading position. At this point, the tube can be removed and discarded.
15. Press the “Back” buttons and go back to the “Options” screen as highlighted in pink in the following sequence of operations in Figure 15.

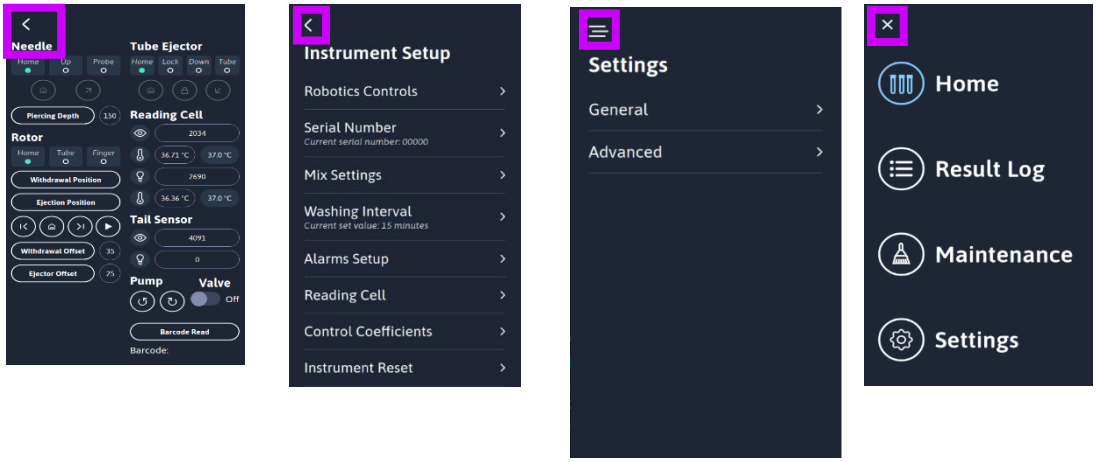



**Figure 15**

16. Perform three wash cycles by pressing the “Maintenance” Button and pressing Quick Wash in Figure 16.

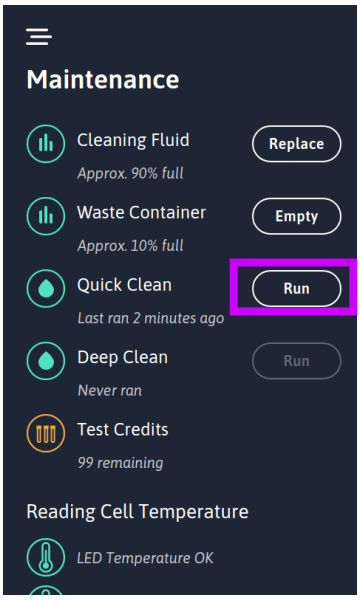



**Figure 16**

17. Verify that all three washes were completed without any errors. If any errors occur, contact ALCOR Scientific Technical Support at 1-800-495-5270 or +1 401-737-3774 or email techsupport@alcorscientific.com for additional assistance.