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Guava Flow Cytometer - Troubleshooting "Tray Hold Off State"

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Abstract

Please contact Dr. Steven Wilhelm (wilhelm@utk.edu) for additional information regarding this protocol.



1 Open Millipore software to "home" (not in cleaning, InCyte, etc.)

2 Remove flow cell

Note

The flow cell will break if it is not removed

3 Power off the flow cytometer (FCM) using the toggle switch on the back of the machine

4 Unscrew two torx screws in the tray bay at the top left and right, under the door to remove the top panel of the machine.

Note

Torx size T - 10

5 Unplug the power supply and USB connection on the back of the FCM

6 Lift the front of the hood to $>45^\circ$, and slide the hood back away from the machine to free the back of the hood.

7 Pull the sampling tray forward to the "eject" position

Note

This step may require some force

8 Reset the "motor/sensor" by carefully pushing the sensor to the bottom

Note

There is an extra 'motor' in the drawer under the FCM in bubble wrap. Pull this out to practice moving the assembly prior to manipulating the machine. The sensor is marked as A on the extra motor.

9 Push the sensor part all of the way up

Note

Take care not to bend/break the thin metal piece on the bottom of the sensor. You should manipulate the motor by pushing or pulling the black "L" shaped portion or the screw. Do not push/pull the metal strip to move the sensor.

10 Move the sampling tray as far back as it will go

11 Replace the hood in the opposite order stated in steps 4-7

Note

You may wish to replace the screws after the machine initiates

12 Power the machine on

13 If FCM initiates (i.e., gears are moving etc.) continue; if not, check to make sure that the sample tray and sensor are in the correct positions (i.e., all the way to the back and top, respectively).

14 Open the cleaning program

15 Place the system in capillary shutdown mode

16 Replace flow cell

17 Operate as normal