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Purpose

This document provides the steps required to adjust the roller sensors on the Sci-Print VX2/VXL. If the roller fails to grip a tube after attempting, or the roller has the tube but software displays error stating the tube is not in the roller, you may need to adjust the roller sensors.

Required Material and Equipment

- 2mm Allen wrench
- Small, flat head screwdriver

Intended Audience

Certified Scinomix Service Technicians

Prerequisites

N/A

Procedure

1. Turn off the blue Air Shut Off switch on the right side of the instrument (but leave the power on).



Figure 1. Air Shut Off switch

2. Switch run selector off of run, by pushing in and turning so that **RUN** is no longer showing on top.

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Figure 2. Run selector

3. Pull the roller assembly out of the instrument.



Figure 3.

4. Remove the 4 screws holding the stainless steel housing using a 2mm Allen wrench.

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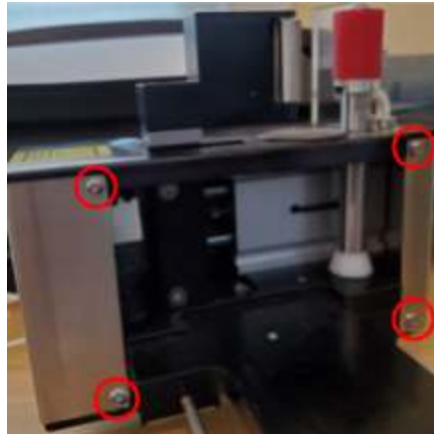


Figure 4.

5. Now gently pull the stainless housing off the roller assembly by pulling the short side off first (right side from the image above).
6. Pull the clamp roller open as far as it will go and adjust the top sensor using a very small flat head screwdriver, so that the light comes on only when it is at its farthest open position.

Note: The light should go off as soon as the clamp roller moves towards the red urethane roller.



Figure 5. Roller Open Sensor

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7. Push the Clamp roller closed and adjust the bottom sensor using a very small flat head screwdriver, so that the light comes on only when the clamp roller is in the closed position (closest possible position to red urethane roller).

Note: The light should go off as soon as the clamp roller separates from the red urethane roller.

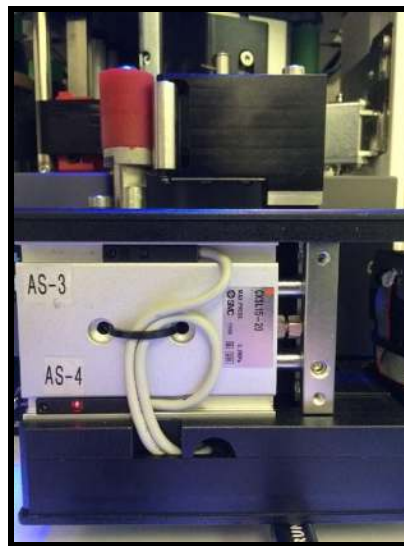


Figure 6. Roller Closed Sensor

8. Replace the stainless steel housing by bending around the roller assembly (long side first) and replace the 4 screws.
9. Lock the roller assembly back into the instrument and turn on the Air Shutoff switch (turn counterclockwise until horizontal).
10. Test the roller open/closed positions by clicking **Diagnostics > Hardware**, and toggling the **Outputs** checkbox for *Close Roller*.
11. Confirm that the **Inputs** show *Roller Open* when the roller is in the open position, and *Roller Closed* when the roller is in the closed position.

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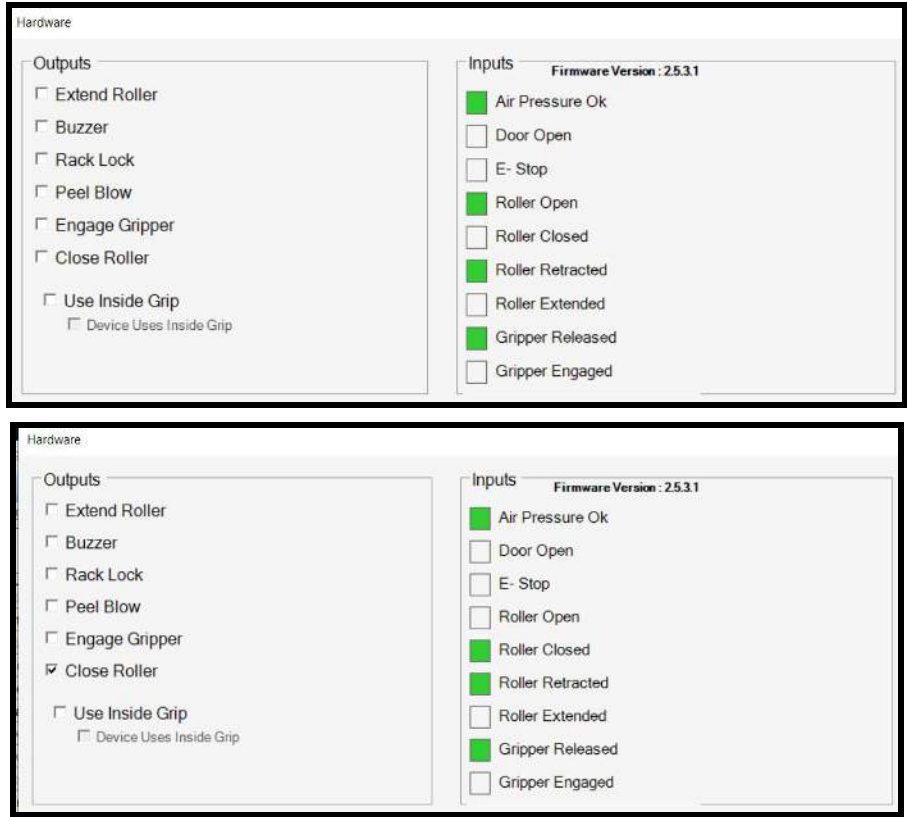


Figure 7. Hardware screen (v. 2.5)

If you need additional assistance, please call our service department at 314-298-9800 or email service@scinomix.com.

Definitions

N/A

Revision History

Version:	Change:	Effective Date:	Approved by:
A	NEW	APR-14-2020	B. Petti



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