Purpose
This document explains the process for adjusting the pneumatic Z-axis belt tension on the Sci-Print VX2/VXL.

Intended Use
Whenever the pneumatic Z-axis belt tension requires adjustment.

Required Material and Equipment
Sci-Print VX2 or VXL
3mm allen wrench

Intended Audience
Superuser

Prerequisites
N/A

Procedure
1. Engage E-stop the unit.
2. Remove the grounding strap from inside the hood.

Figure 1.

3. Remove hood by unscrewing the four hood screws with a 3mm allen wrench.
4. Pull the hood straight up and free from the gantry.

Figure 2.

5. Move the Z-axis over to the roller side of the unit and extend it down to allow access.

   At the top of the Z-axis are two stainless steel screws with springs around them (circled in Figure 3.)

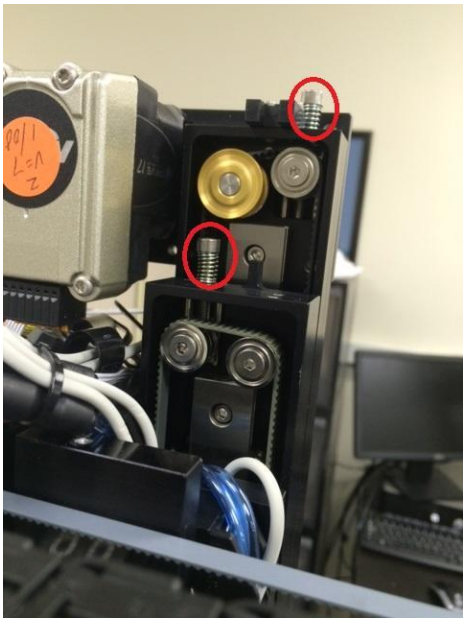

Figure 3.

Note: These screws should be tight but spring back slightly when pressing down on them.

6. Tighten these screws using a 3mm allen wrench until they are tight, but still have a slight spring back to them.
7. Check all connections on the Z-axis circuit board by pressing them into the connectors.
8. Check all connections on the Z-axis motor as well by pressing them into the connectors.
9. Check the tightness and confirm when the arm is compressed and then released, it extends slowly and smoothly at the desired tension.
10. Visually inspect the belts on the Z-arm (at least the visible parts) and look for any missing teeth.
11. Check all connections on the upper gantry circuit board by pressing them into their connectors.
12. Replace the hood and re-attach the grounding strap.
13. Reverse the E-stop and Home the instrument.
14. Reattempt the run.

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	AUG-23-2022	Service