

TS-1084	Replacing the X-axis Idler Pulley	Document Owner: Service Department	Effective Date: AUG-23-2022	Page 1 of 4
----------------	--	--	---------------------------------------	--------------------

Purpose

This document provides the steps required to replace the X-axis idler pulley of the Sci-Print VX2/VXL or RETROS instruments.

Intended Use

When the X-axis idler pulley needs to be replaced.

Required Material and Equipment

4mm allen wrench
3mm allen wrench

Intended Audience

Superuser

Procedure

1. Power off the instrument.
2. Remove the hood of the unit, and set aside.
3. Locate the X-axis idler pulley, shown in Figure 1 below.



Figure 1.

4. Use a finger to push against the belt, and take a mental note of the tension for later.

TS-1084	Replacing the X-axis Idler Pulley	Document Owner: Service Department	Effective Date: AUG-23-2022	Page 2 of 4
---------	-----------------------------------	---------------------------------------	--------------------------------	-------------

5. Loosen the two bracket screws using a 4mm allen wrench to allow the tensioner to move, as shown in Figure 2 below.



Figure 2.

6. Loosen the X-axis tension screw by using a 3mm allen wrench to relieve belt tension on pulley, shown in Figure 3 below. **Do not remove the screw, only loosen it.**

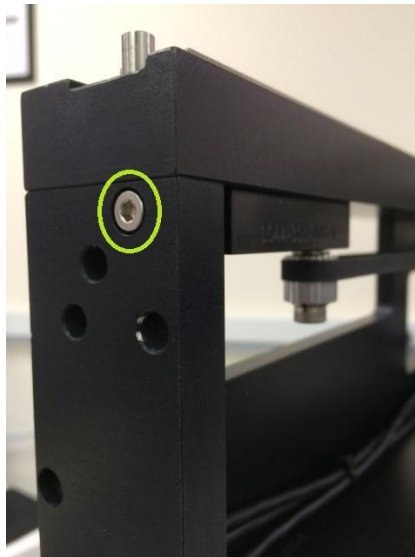


Figure 3.

TS-1084	Replacing the X-axis Idler Pulley	Document Owner: Service Department	Effective Date: AUG-23-2022	Page 3 of 4
----------------	--	--	---------------------------------------	--------------------

- The belt should be loose enough to pull off the pulley and let it loosely hang as shown in Figure 4 below.

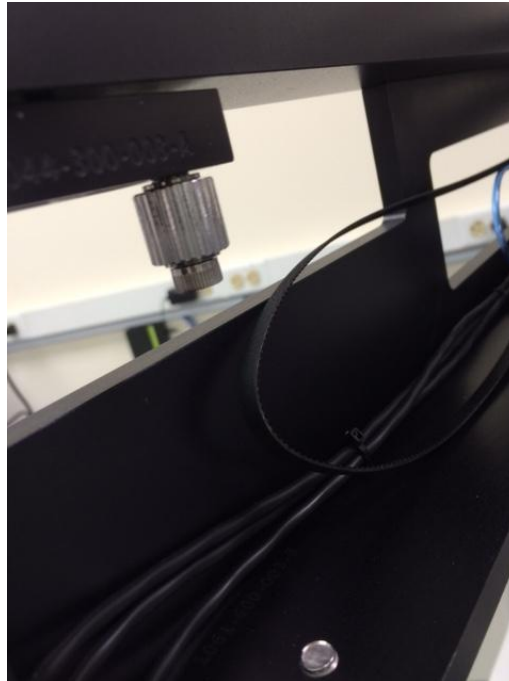


Figure 4.

- Remove the bearing using the provided 1/8 allen wrench, as shown in Figure 5 below.



Figure 5.

- Replace with the provided new pulley.
- Slip the belt back on the new pulley.



TS-1084	Replacing the X-axis Idler Pulley	Document Owner: Service Department	Effective Date: AUG-23-2022	Page 4 of 4
----------------	--	--	---------------------------------------	--------------------

11. Tighten the X-axis tension screw to the tension noted in step 3. If available, use the sonic tensioner to check the tension.
12. Tighten the bracket screws so the tension bracket does not move.
13. Replace the hood of the unit.
14. Power the unit ON. Wait for the beep.
15. Open the software, and HOME ALL.
16. Test operation as normal. Rack Positions need to be re-taught, because removing the belt changes positioning.

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