

TS-1072	Replacing Z-Axis Arm (VX2/VXL)	Document Owner: Service Department	Effective Date: AUG-23-2022	Page 1 of 4
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Purpose

This document provides steps to remove and replace a Z-Axis arm on a VX2/VXL.

Intended Use

When completing upgrades or service issues with the arm or gripper.

Required Material and Equipment

- Newly Tested Z-Arm
- 3mm Allen Wrench
- #1 or #2 Phillips Head ScrewDriver

Intended Audience

Superuser

Prerequisites

- Power to the machine **must be turned off** before continuing

Procedure

3-Pulley UG to 3-Pulley UG

1. Ensure the instrument is turned off. If it is not, toggle the power switch on the control panel of the VX located on the right hand side of the machine.
2. Remove the device lid from the machine by removing four M2 flathead screws (two on either side of the lid) and then lifting straight up.



Figure 1.

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3. Freely move the X-Y gantry to gain access to the arm.



Figure 2.

4. Remove the ground strap from the Z-motor by unscrewing the screw circled in the picture below with a Phillips head screwdriver. Keep the screw close as it will be used to reattach the ground strap to the new arm.



Figure 3.

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5. Unplug ribbon cable from Z-arm (highlighted below).



Figure 4.

6. Unscrew mounting socket head screws holding Z-arm to gantry using a 3mm Allen wrench.

NOTE: Z-arm is located by dowels but will be loose once the screws are removed. Hold the Z-arm as you remove the second screws.



Figure 5.

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7. Slide Z-Arm towards you with a slight rocking motion to remove the Z-arm from being engaged with the dowel pins.
8. Reverse steps to install the replacement z-arm.
9. When a new arm is installed, and the system is powered on, home all axes under utilities.
10. Verify tube teach points in rack definitions are sufficient as arms may vary slightly.
11. When teach points are validated, run test runs to verify the machine is in working order.
12. Package the old arm and return to Scinomix.

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	SEP-28-2021	N. Shepard
B	Content review Added <i>Intended Use</i>	AUG-23-2022	Service