

TS-1071	Replacing EMAC Chip In VX2/VXL	Document Owner: Service Department	Effective Date: AUG-24-2022	Page 1 of 4
---------	--------------------------------	---------------------------------------	--------------------------------	-------------

Purpose

This document provides steps to remove and replace an EMAC chip in the carrier board in a VX2/VXL.

Intended Use

When troubleshooting a communication issue, the chip is potentially deemed bad.

Required Material and Equipment

- Newly Programmed EMAC Chip

Intended Audience

Certified Scinomix Technician

Prerequisites

- Must complete [TS-1050 Removal and Installation of Squix Printer](#) prior to beginning.

Procedure

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. Locate carrier board, half of the board will be hidden by wiring (see Figure 1 below).

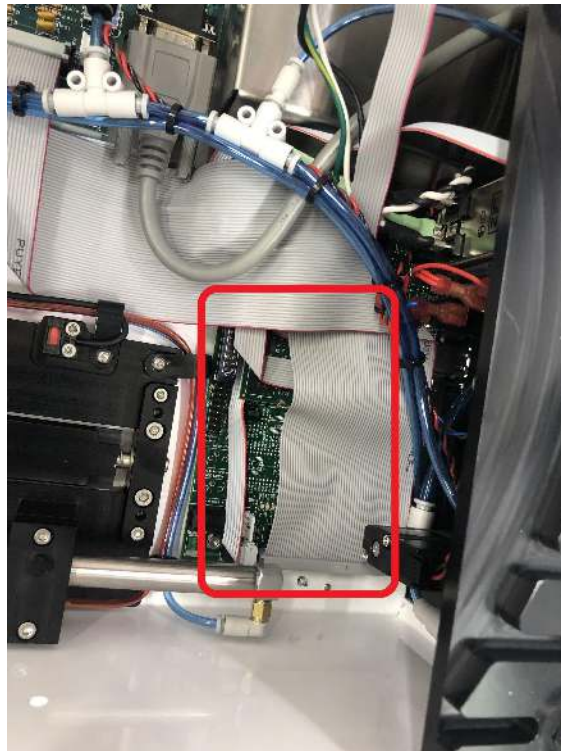


Figure 1.

TS-1071	Replacing EMAC Chip In VX2/VXL	Document Owner: Service Department	Effective Date: AUG-24-2022	Page 2 of 4
---------	-----------------------------------	---------------------------------------	--------------------------------	-------------

3. Remove the ribbon cables shown in the pictures below to reveal the chip mounted to the top of the carrier board.

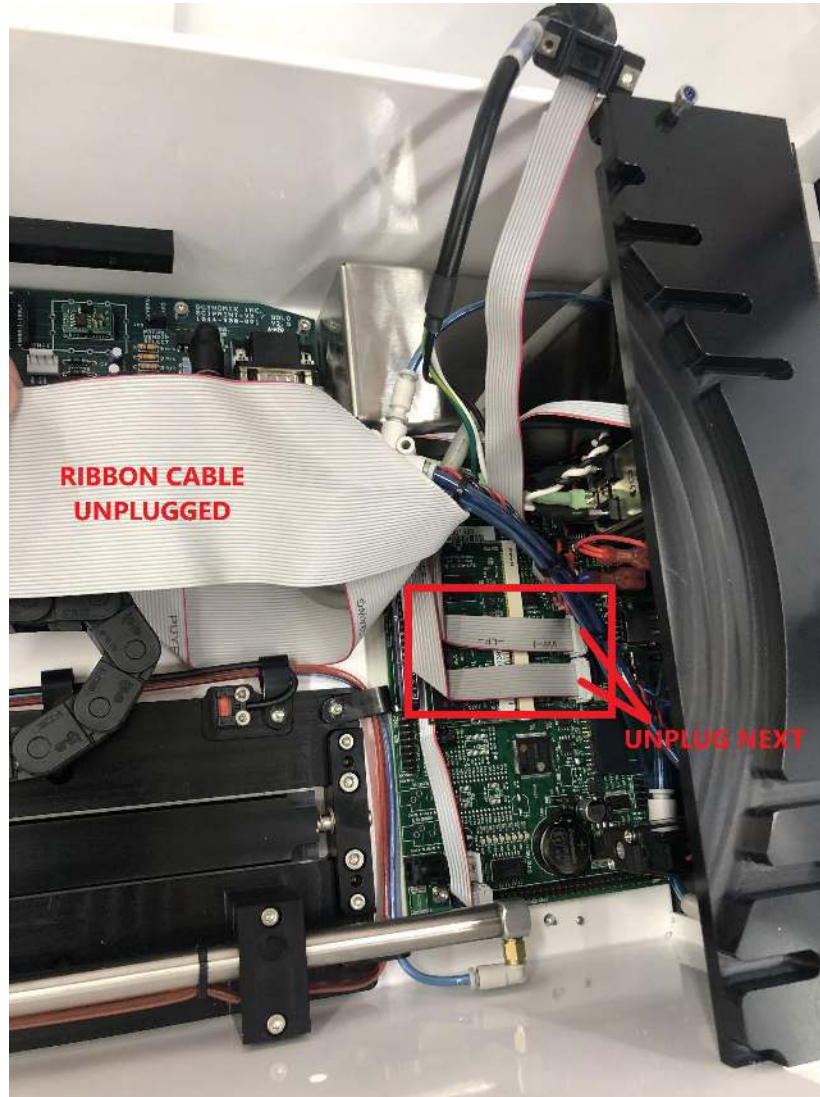


Figure 2.

TS-1071	Replacing EMAC Chip In VX2/VXL	Document Owner: Service Department	Effective Date: AUG-24-2022	Page 3 of 4
---------	--------------------------------	---------------------------------------	--------------------------------	-------------

4. Remove chip from carrier board by unlatching the tabs on either side and slower lifting the board away from the white pin reader. Do this process slowly as damage could occur if the chip is pulled or twisted if it is still latched or engaged in the reader.

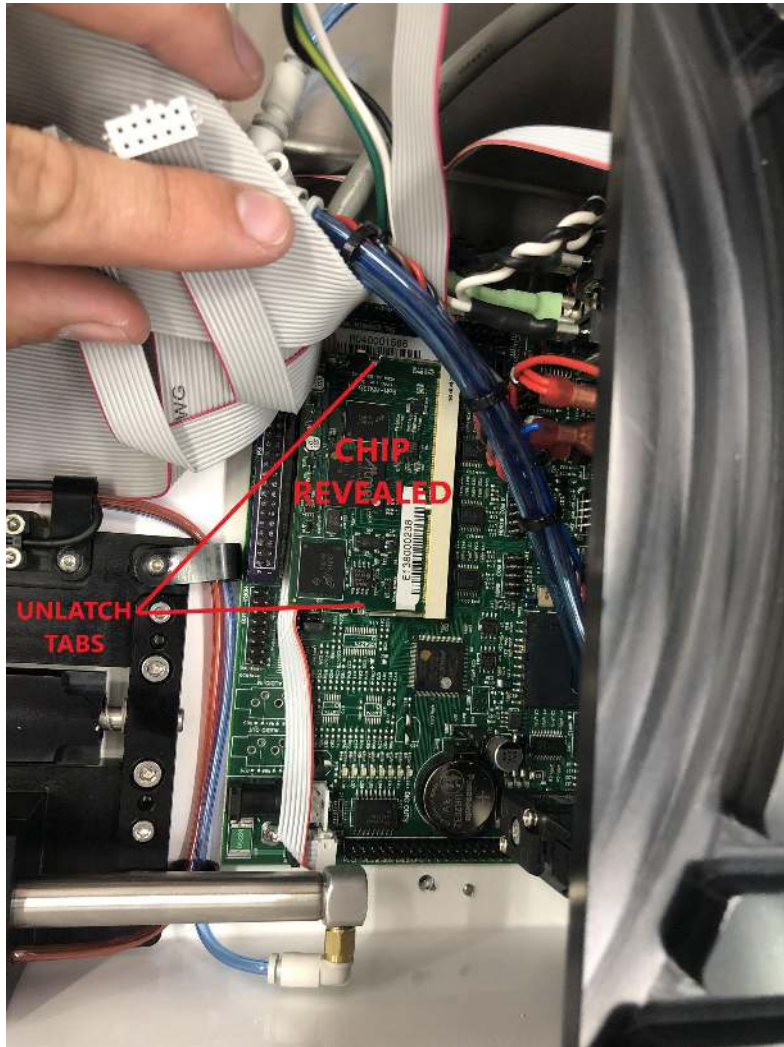


Figure 3.

5. Package the old chip and send it back to Scinomix.
6. Locate the new chip and prepare for installation. Record the serial number on the white tag.
7. Reverse steps for installing the replacement chip.
 - a. Insert chip into reader and push down until latches engage.
 - b. Replace ribbon cables into respective ports.
 - c. Verify all connections made.
8. Replace printer.
9. Turn on machine power.

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

TS-1071	Replacing EMAC Chip In VX2/VXL	Document Owner: Service Department	Effective Date: AUG-24-2022	Page 4 of 4
----------------	---	--	---------------------------------------	--------------------

Definitions

EMAC: Ethernet Media Access Controller

Revision History

Version:	Change:	Effective Date:	Approved by:
A	New Release	SEP-28-2021	Nick Shepard
B	Content review Added Intended Use	AUG-24-2022	Service