

<b>TS-1048</b>	<b>Replacing the Roller Extend Sensor on VX Series and SOLO (SQUIX)</b>	<b>Document Owner:</b> Service Team	<b>Effective Date:</b> NOV-01-2019	<b>Page 1 of 8</b>
----------------	---	--	---------------------------------------	--------------------

## Purpose

This guide describes the process required to remove and install the roller assembly for the purpose of replacing the extend sensor in the Sci-Print VX2/VXL or SOLO instruments (with SQUIX model printer).

## Required Material and Equipment

1044/1107 Sci-Print VX2, or 1061 Sci-Print VXL, or 1045 Sci-Print Solo SQUIX CAB printer

## Intended Audience

Personnel responsible for maintaining the Scinomix instrument(s) noted above.

## Prerequisites

Before you start, make sure the power and air are off on the machine.

## Procedure

1. Remove the deck tray by pushing the latch on the quick release valve and disconnecting the airline. Remove the tray and set it aside.



Figure 1.

TS-1048	<b>Replacing the Roller Extend Sensor on VX Series and SOLO (SQUIX)</b>	<b>Document Owner:</b> Service Team	<b>Effective Date:</b> NOV-01-2019	<b>Page 2 of 8</b>
---------	---	--	---------------------------------------	--------------------

2. Remove the four bolts from the front plate with a 2.5 metric allen wrench.

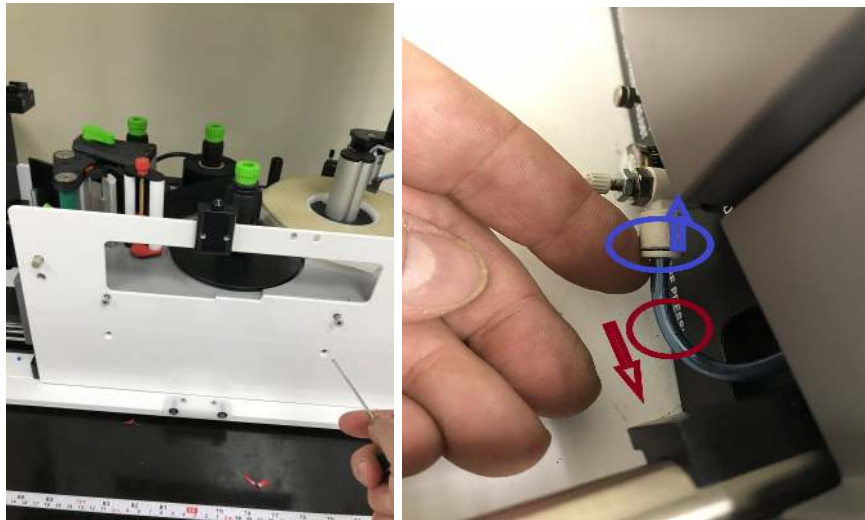


Figure 2.

3. Push up on the disconnect valve on the peel blow airline and disconnect the airline.

4. Disengage Run: Select the knob and extend the roller assembly fully to move it out of the way.



Figure 3.

<b>TS-1048</b>	<b>Replacing the Roller Extend Sensor on VX Series and SOLO (SQUIX)</b>	<b>Document Owner:</b> Service Team	<b>Effective Date:</b> NOV-01-2019	<b>Page 3 of 8</b>
----------------	---	--	---------------------------------------	--------------------

5. Slide the printer to the left and tilt the right side up to reach in and disconnect the printer power cord and the communication cable. Disconnect both cables. Remove the printer and set it aside.



Figure 4.

6. Disconnect the second energy chain link from the bolted bracket.

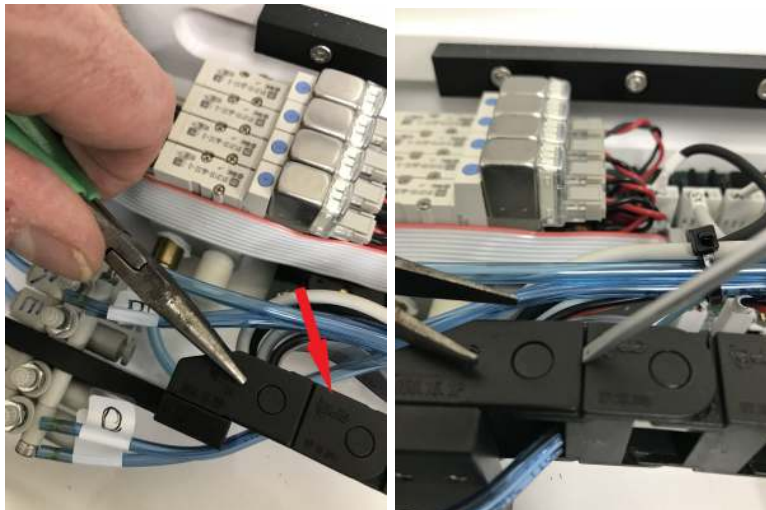


Figure 5.



TS-1048	Replacing the Roller Extend Sensor on VX Series and SOLO (SQUIX)	Document Owner: Service Team	Effective Date: NOV-01-2019	Page 4 of 8
---------	--	---------------------------------	--------------------------------	-------------

7. Disconnect and label the open and close airlines. In newer models, the airlines are color coded and labels are not needed.

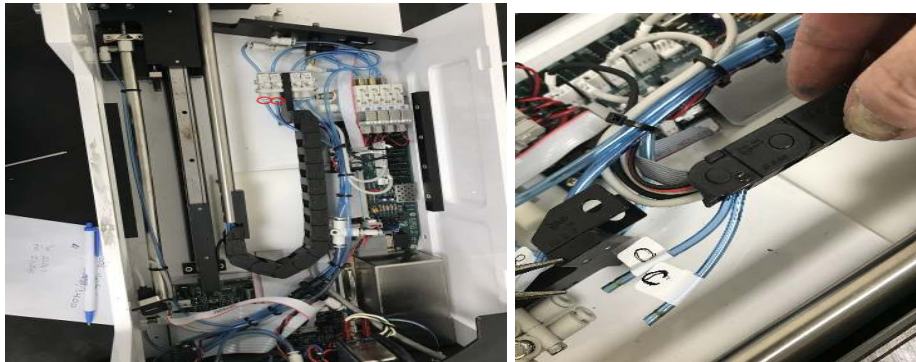


Figure 6.

8. Cut these 4 zip ties carefully to avoid cutting any other wires or airlines. Disconnect these 5 wires.

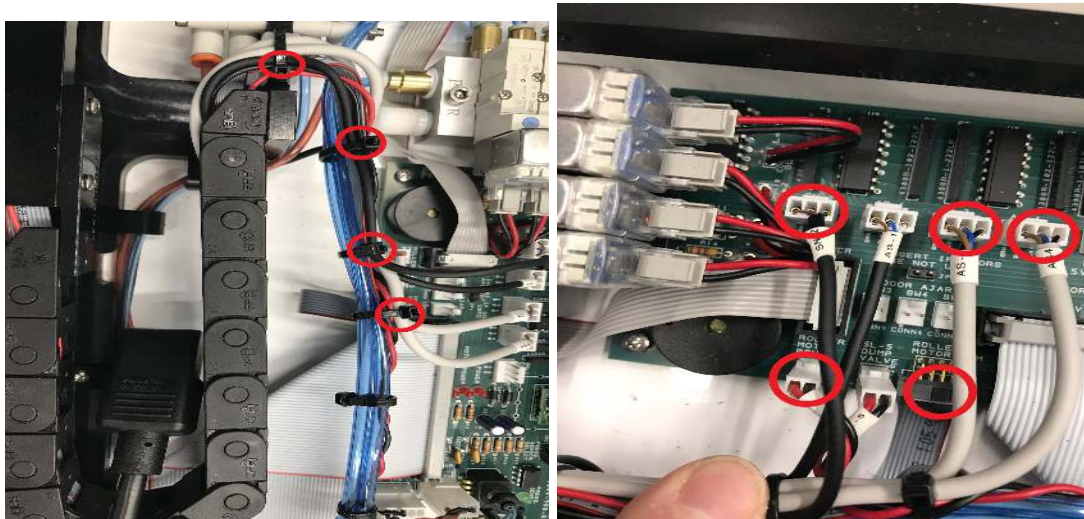


Figure 7.

<b>TS-1048</b>	<b>Replacing the Roller Extend Sensor on VX Series and SOLO (SQUIX)</b>	<b>Document Owner:</b> Service Team	<b>Effective Date:</b> NOV-01-2019	<b>Page 5 of 8</b>
----------------	---	--	---------------------------------------	--------------------

9. Disconnect the two bolts in the front of the roller assembly and the two bolts in the back.



Figure 8

10. Disconnect the two bolts from the end of piston rod under the roller box.

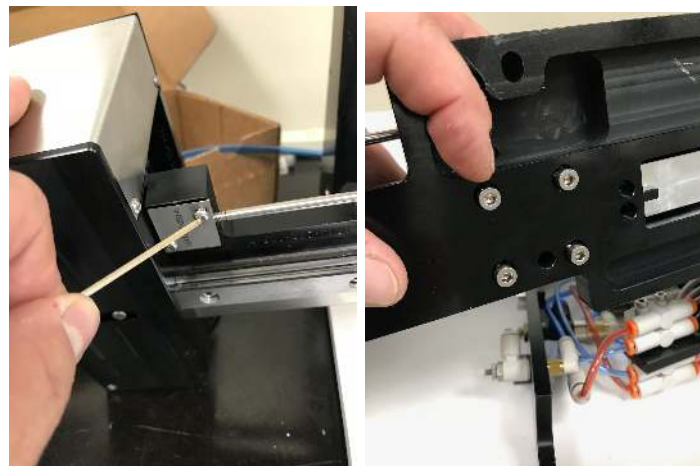


Figure 9.

<b>TS-1048</b>	<b>Replacing the Roller Extend Sensor on VX Series and SOLO (SQUIX)</b>	<b>Document Owner:</b> Service Team	<b>Effective Date:</b> NOV-01-2019	<b>Page 6 of 8</b>
----------------	---	--	---------------------------------------	--------------------

11. Disconnect the four bolts from the bearing rail underneath the roller assembly.

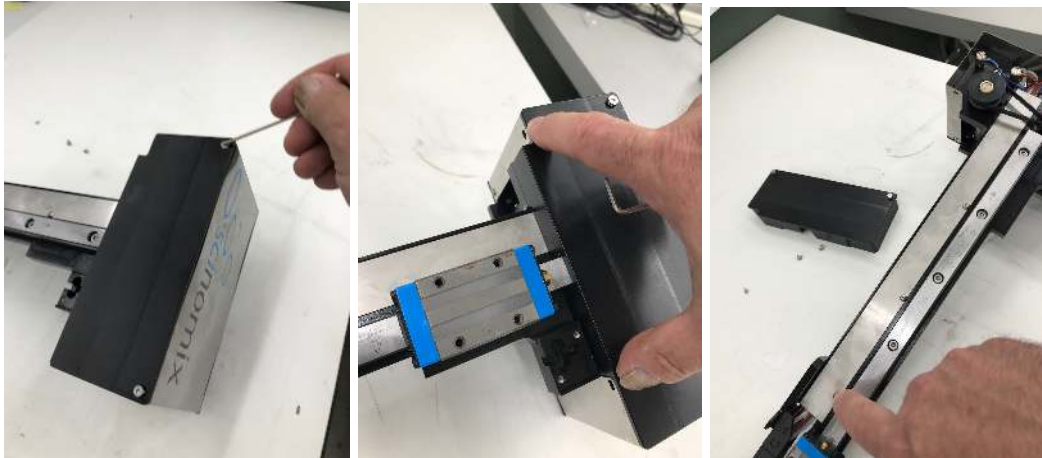


Figure 10.

12. After the roller assembly is removed, place it upside down and remove the two bolts from the bottom plate. You also need to remove the screws from the inside bottom portion of the roller box to remove the bottom plate. Set the plate aside.

13. Remove the four small screws from the wire/airline cover and set it aside.

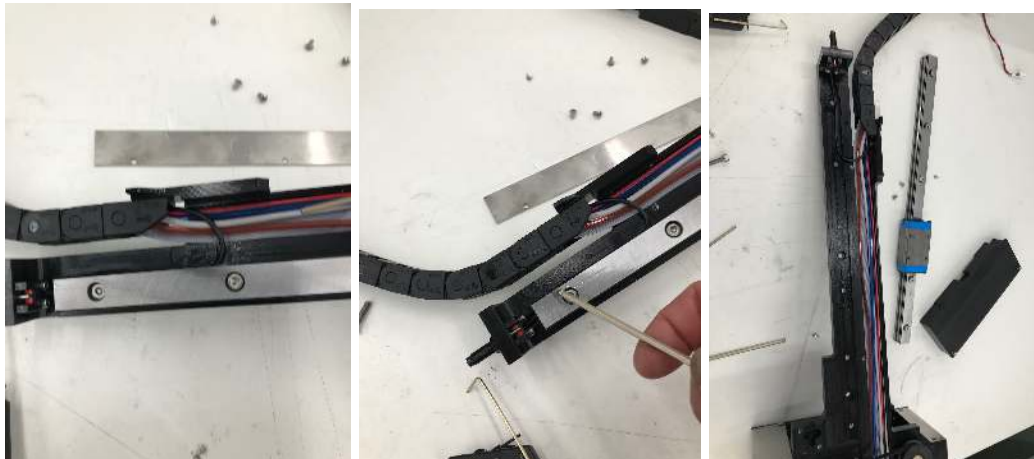


Figure 11.

14. Remove the six bolts connecting the bearing rail being careful not to remove the bearing from the rail. The extend sensor wire is exposed.



<b>TS-1048</b>	<b>Replacing the Roller Extend Sensor on VX Series and SOLO (SQUIX)</b>	<b>Document Owner:</b> Service Team	<b>Effective Date:</b> NOV-01-2019	<b>Page 7 of 8</b>
----------------	---	--	---------------------------------------	--------------------

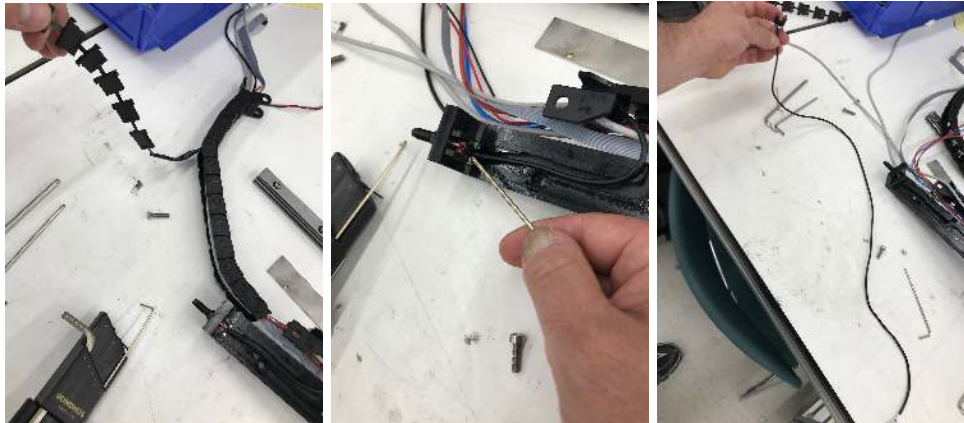


Figure 12.

15. Remove the energy chain backing and the two screws on the sensor. Use the old sensor wire to determine the length, cut and terminate the end of the wire using black, blue, and brown wires.(The white wire is not used) Insert the wires into the 3 pin connector in the order from left to right as shown below. Reassemble in reverse order.



Figure 13.

*If you need additional assistance, please call our service department at 314-298-9800 or email [service@scinomix.com](mailto:service@scinomix.com).*



<b>TS-1048</b>	<b>Replacing the Roller Extend Sensor on VX Series and SOLO (SQUIX)</b>	<b>Document Owner:</b> Service Team	<b>Effective Date:</b> <b>NOV-01-2019</b>	<b>Page 8 of 8</b>
----------------	---	--	--	--------------------

## Definitions

N/A

## Revision History

<b>Version</b>	<b>Change</b>	<b>Effective Date</b>	<b>Approved by</b>
A	NEW	NOV-02-2019	E. Proffer