

Service Bulletin

ExpressCard 2000 XY Transport Cable Clamp Retrofit Document Number D998200204-11

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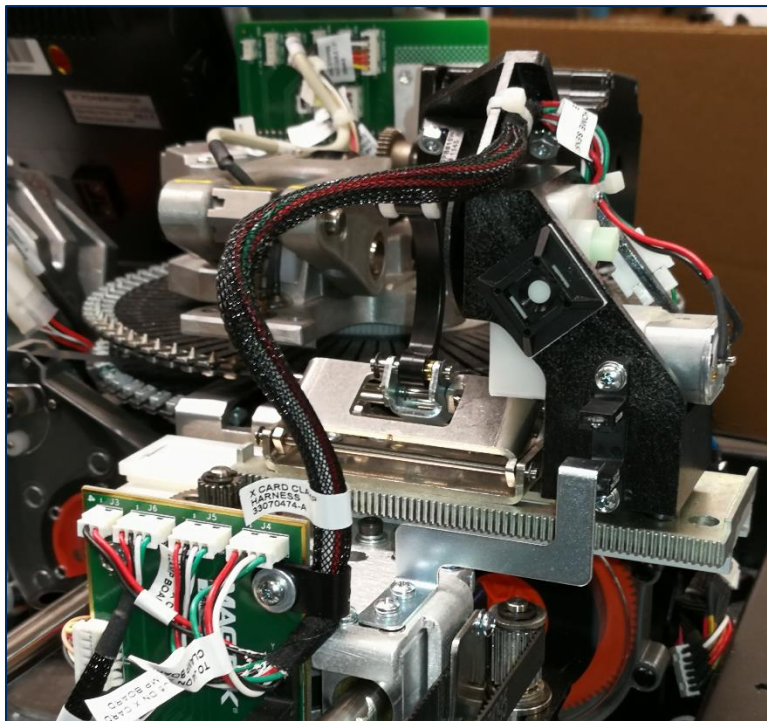


Table 1-1 - Revisions

Rev Number	Date	Notes
10	Jun 28, 2017	Initial Release
11	Jan 04, 2018	Correct missing step to reconnect cables to J3 and J4

1 Required Tools, Materials, and Documents

1.1 Required Tools

Part Number	Quantity	Description
N/A	1 ea.	No. 1 Phillips screwdriver
N/A	1 ea.	No. 2 Phillips screwdriver
N/A	1 ea.	1/4 " open-end wrench
N/A	1 ea.	Wire cutters or diagonal side cutters
N/A	1 ea.	Customer keys for the EC2000 top cover, or remote access password to open the top access door

1.2 Required Materials

These materials are **consumed** during the processes described in this document:

Part Number	Quantity	Description
1000004422	1 ea.	ASSEMBLY, REPLACEMENT KIT, XY TRANSPORT CABLE CLAMP RETROFIT, EC2000

1.3 Required Software and Documents

Part Number	Quantity	Description
D998200204	1 ea.	SERVICE BULLETIN, XY TRANSPORT CABLE CLAMP RETROFIT, EC2000

2 Introduction

This service bulletin provides instructions for field retrofit of an improved XY transport cable design onto existing ExpressCard 2000 (EC2000) devices, using the contents of **1000004422 ASSEMBLY, REPLACEMENT KIT, XY TRANSPORT CABLE CLAMP RETROFIT, EC2000**.

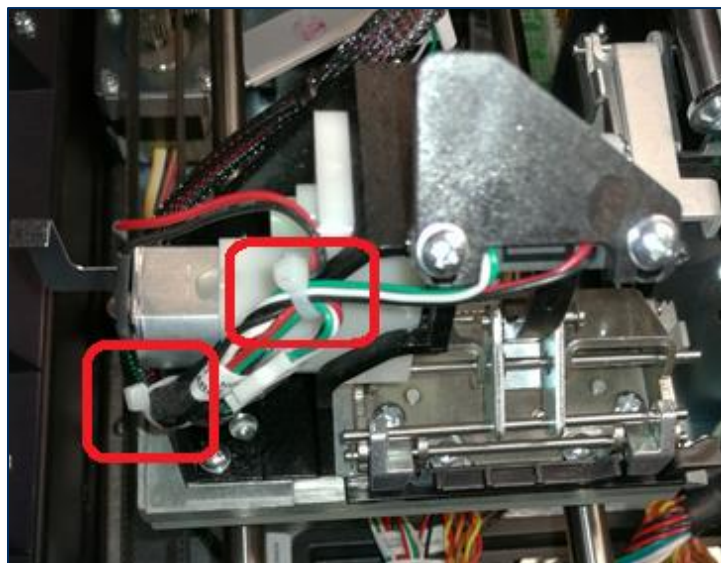
3 Procedure

To retrofit the updated cable design on an EC2000 XY transport, follow these steps:

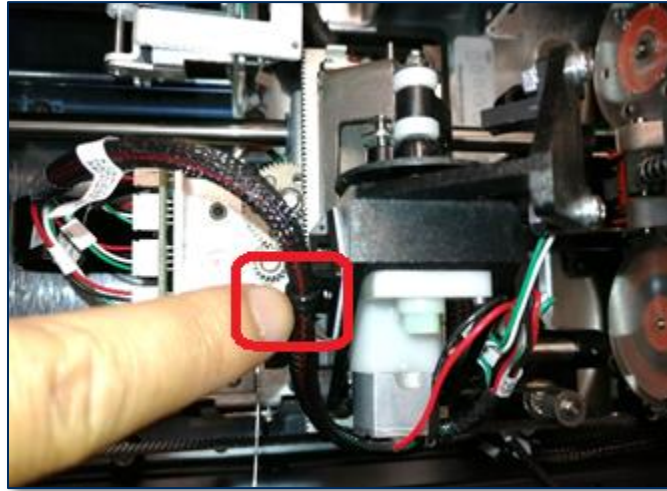
- 1) Power down the device.
- 2) Disconnect the device's power and network cables.
- 3) Use the keys or remote access to open the device's top access door.
- 4) Pull the belt of the XY transport to move the carriage close to the front of the device, near the embosser module.



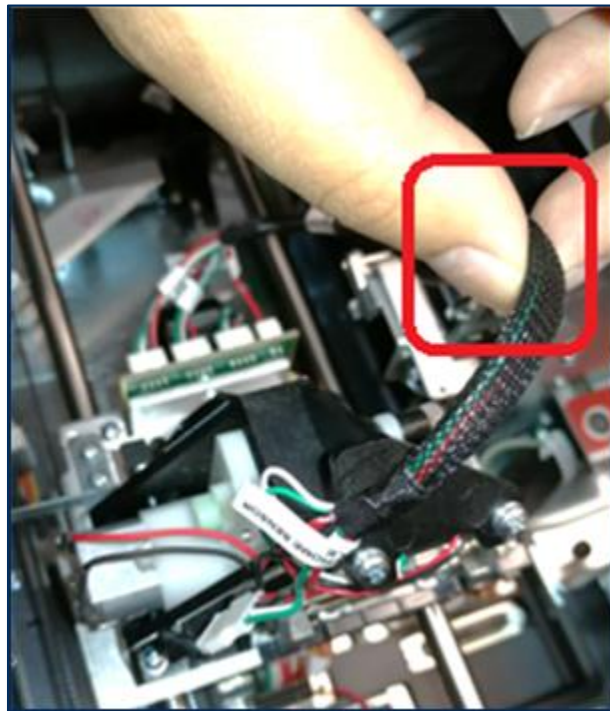
- 5) Find the two cable ties on the X carriage shown in the picture, cut them, and remove them.



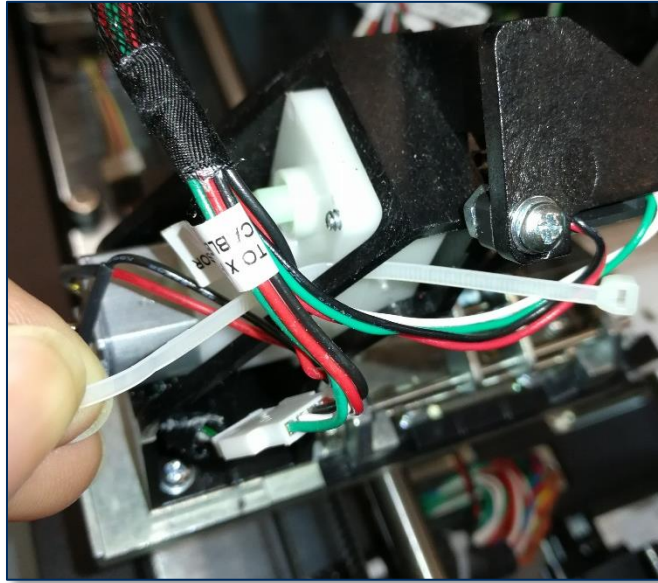
- 6) Find the black cable tie on the X carriage shown in the picture, cut it to free the sleeved cable, and remove it.



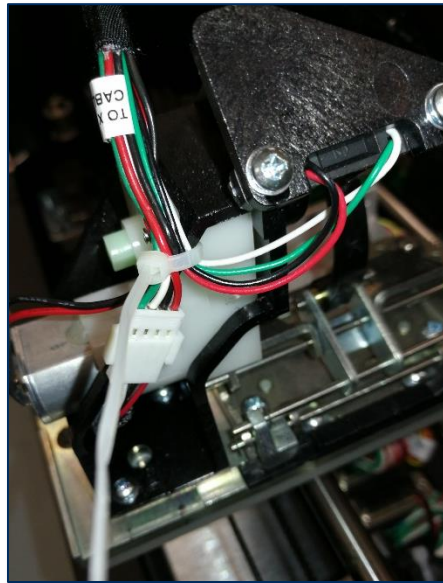
- 7) Reroute the sleeved cable over the top of the X carriage bracket.



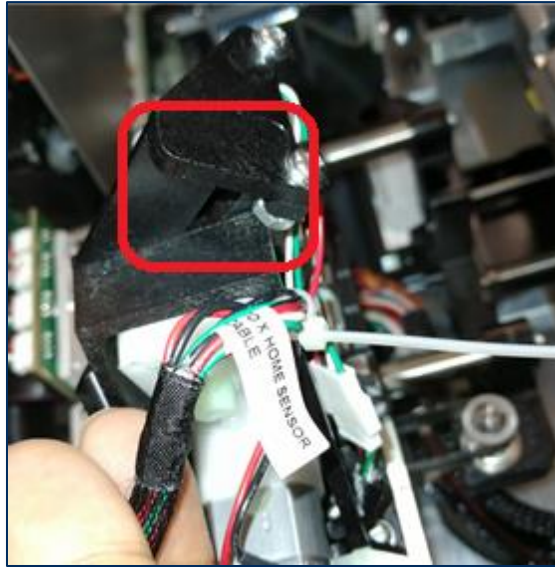
- 8) Insert cable tie 89800006 through the wires and the X-carriage bracket.



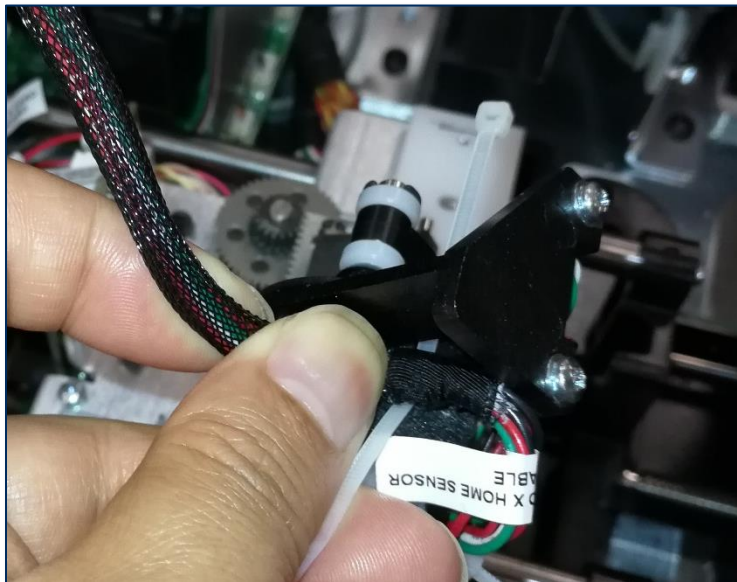
- 9) Tighten the cable tie around the wires.



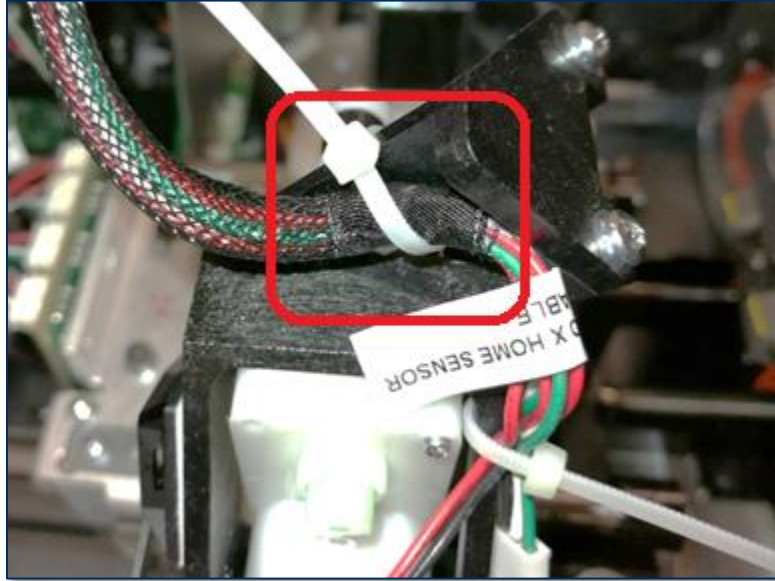
10) Find the opening on top of the X carriage bracket.



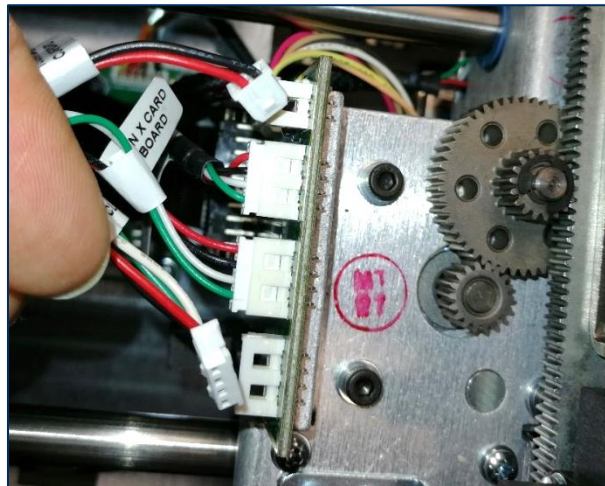
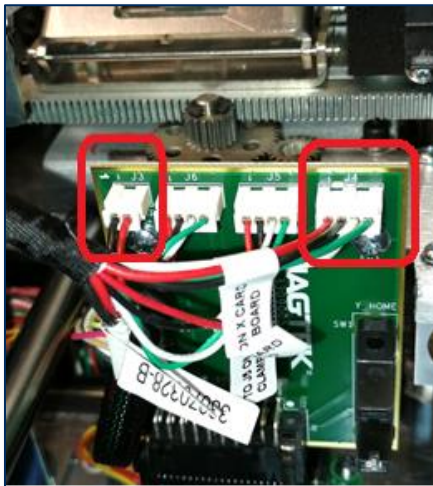
11) Insert cable tie 89800006 through the opening and below the sleeved cable.



- 12) Tighten the cable tie around the portion of the sleeved cable that has heat shrink tubing on it.
- 13) Tighten and trim the two cable ties.



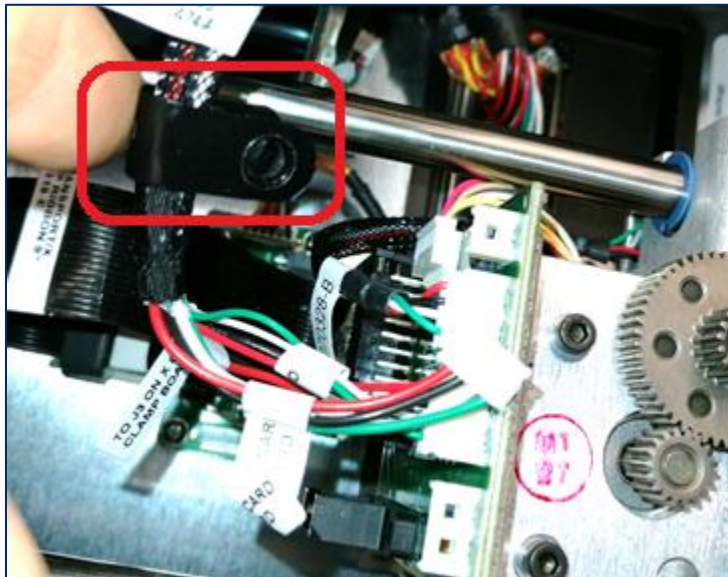
- 14) Find the **J3** and **J4** connectors on the X clamp connector board and disconnect both of the connectors



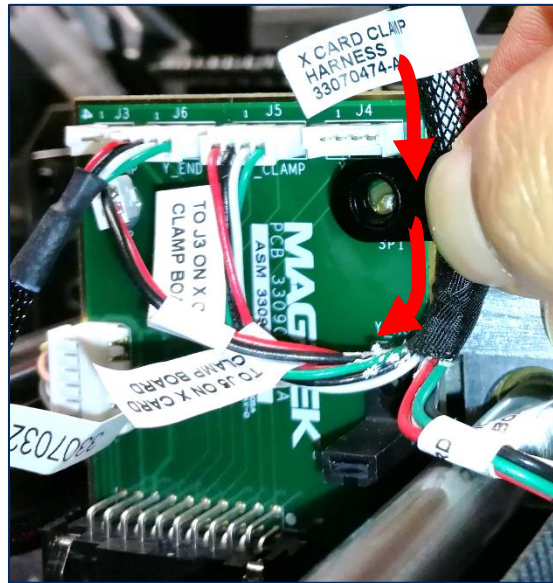
15) Use the No. 2 Phillips screwdriver to remove the screw under the **J4** header and set it aside.



16) Place cable clip 1000004386 around the heat shrink portion of the sleeved harness cable.



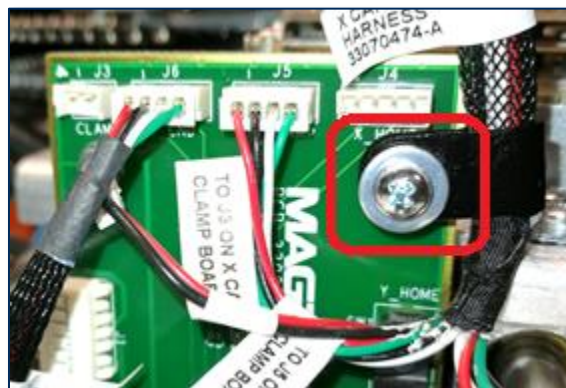
- 17) Bend the cable toward the floor (see arrow direction), then align the screw hole on the cable clamp with the screw hole on the connector board.



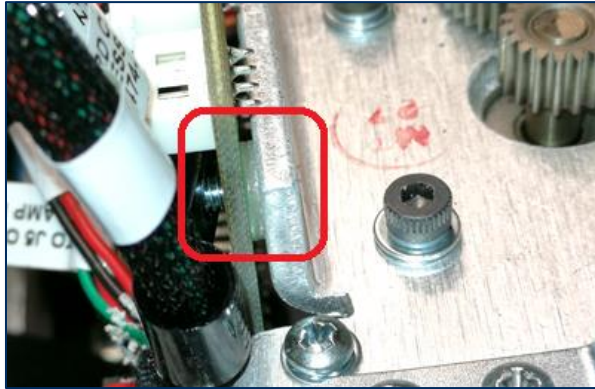
- 18) Onto 1 ea. screw 46500056, stack 1 ea. flat washer 48190002.



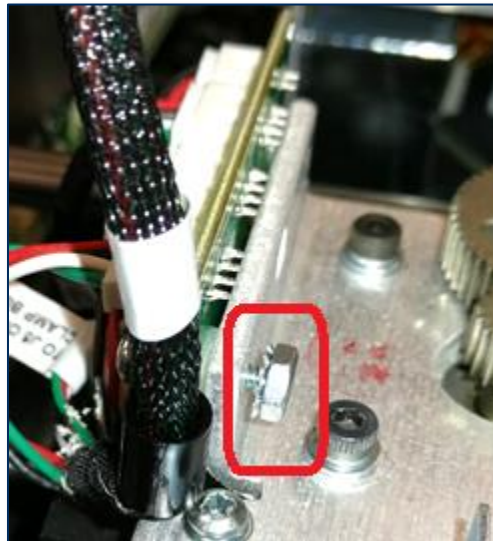
- 19) Use your fingers to press the screw/washer assembly all the way through the holes.



- 20) Make sure the two spacers 88600015 are still between the connector board and the motor mounting bracket.



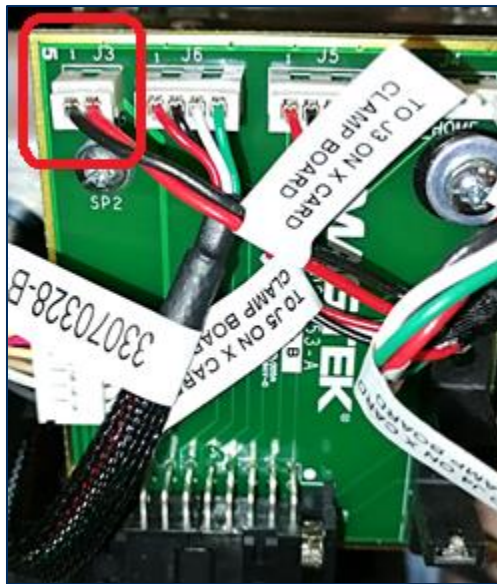
- 21) Use your fingers to install 1 ea. lock nut 88500027 on the end of the screw.



22) Use ¼" open-end wrench and the No.1 Philips screwdriver to tighten the screw and lock nut.



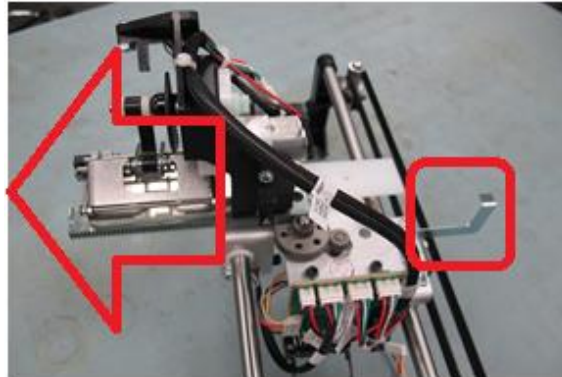
23) Reconnect the 2-pin connector disconnected earlier to the **J3** header.



24) Reconnect the 4-pin connector disconnected earlier to the **J4** header.



25) Push the Carriage away from the flag as shown. Inspect and make sure the sleeve cable is stress free.



26) Make sure the cable ties, clamps, and cable routing look like **Figure 3-1** below.

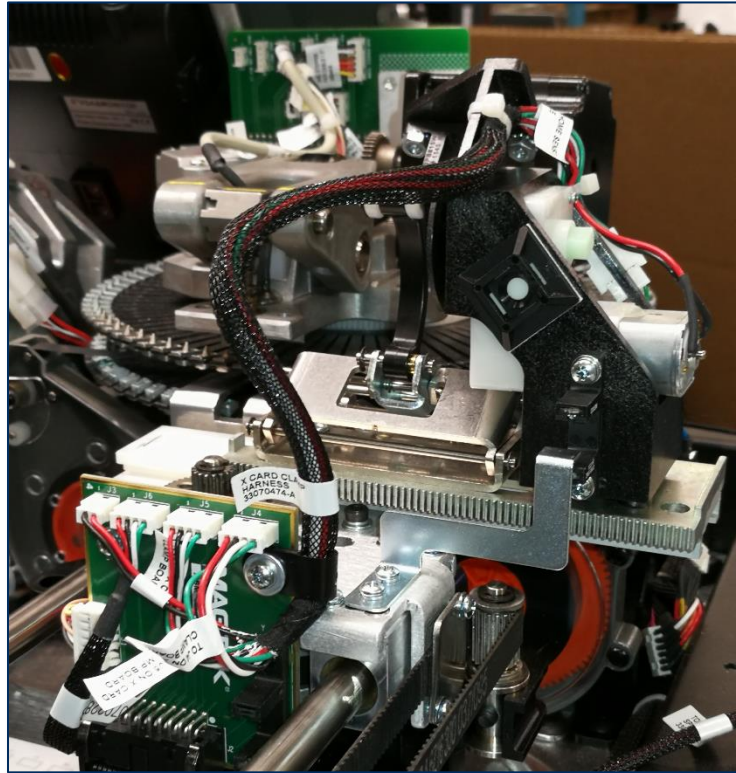


Figure 3-1 - XY Transport Cable Clamp Retrofit Complete

- 27) Cable design retrofit is complete. Finish any other procedures you are performing inside the device, such as replacing the XY transport ribbon cable, cleaning, or preventive maintenance, before proceeding.
- 28) Make sure the device does not have any tools and materials left inside, close and lock the top access door, reconnect the device's cables, power on the device, and create a sample card to make sure the device functions as expected.