FCO 512-00412A: Improved tweezers assembly

Internal document number: 719-00786A Rev C

Product

- Kodak® Magnus™ 400 family with MCU (small)
- Kodak Lotem® 400 (small) family with MCU (small)

FCO priority

Next visit

Component Tweezers assembly

Background

FCO 512-00412A improves paper picking performance and enables the XY bar to successfully transport the paper to the disposal bin.

Solution

Implement FCO 512-00412A.

Time required ½ day

Prerequisites The following software versions must be installed on the platesetter to successfully implement this FCO:

Platesetter	Software Version
Magnus 400 with MCU	1.02.392 or 1.04.393
Magnus 400 Quantum with MCU	1.02.392 or 1.04.393
Lotem 400 Fiber Head	1.61.353 **Important**: In addition to version 1.61.353, you must also install Update 1 for version 1.61. See step 6 in *Installing the Chain Guide Type II Bracket*.
Lotem 400 Quantum with MCU	1.50.08 **Important**: In addition to version 1.50.08, you must also install Update 5 for version 1.50.08. See step 6 in *Installing the Chain Guide Type II Bracket*.

Parts required

Part Number	Part Name	Quantity
Tweezers Assembly		
500-04490A	Paper clamps on vacuum bar	1
252-13426A	Cover spacer for suction cups	2
380G03041	Phillips® flat-head STST 6-32 x 3/8 in.	4
380A03061	Soc head cap STST 6-32 x ½ in.	4
382D08000	Spring, L/W STST #6	4
382A07001	Flat washer STST #6S	4
252-10841A	Chain guide type II	1
Software		
651-00802A	Magnus 400 Tweezers assembly	1
Printed Documentation		
719-00786A Rev C	FCO 512-00412A Improved tweezers assembly	1

FRU after FCO implementation

- See Parts required.
- Plate roller cover – Lot 400 (part number 290G2T082)

Procedure

The tweezers assembly, which includes the tweezers housing and tweezers, has been modified to improve the performance of the paper picking and paper disposal sequences.

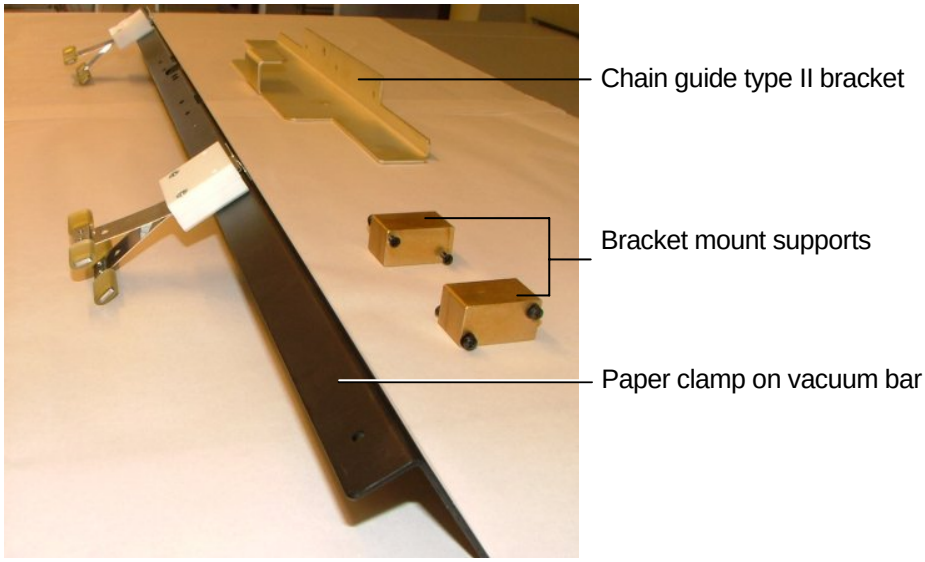


Figure 1: Tweezers assembly

Note: During the upgrade procedure, make sure to apply Loctite® 242 adhesive to all screws.

This procedure includes the following sections:

- Removing the XY bar top cover and tweezers
- Tilting the XY bar
- Installing the tweezers assembly
- Installing the bracket mount support
- Installing the paper clamp on vacuum bar
- Installing the chain guide type II bracket

Removing the XY bar top cover and tweezers

1. Remove the three screws that secure the top cover to the XY bar, and remove the top cover.



Figure 2: Removing the top cover screws

2. Remove the screws that secure the two tweezers assemblies to the XY bar and remove the tweezers' assemblies.

Tilting the XY bar

Important: If washers were added to the XY bar to adjust the tilt on the platesetter with which you are working, skip this section and go to Installing the bracket mount support.

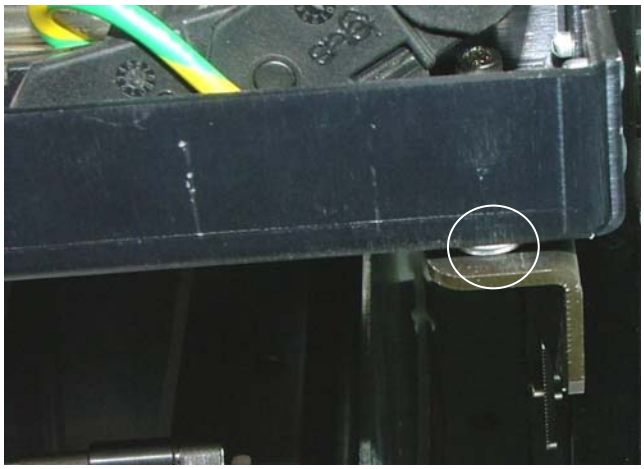


Figure 3: Washer inserted under XY bar

1. Remove the washers from the suction cups. There are six suction cups on the XY bar; the two middle cups do not have washers.

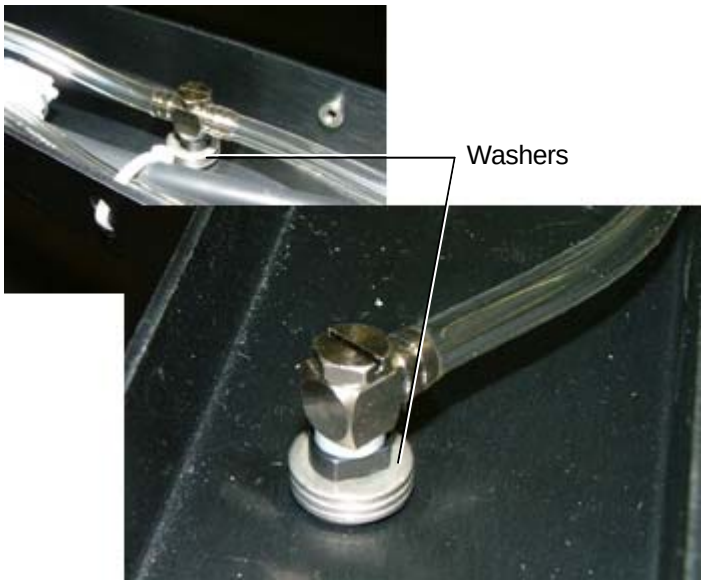


Figure 4: Removing the washers

2. On the left side of the XY bar, remove the front screw that secures the XY bar to the support and loosen the rear screw.

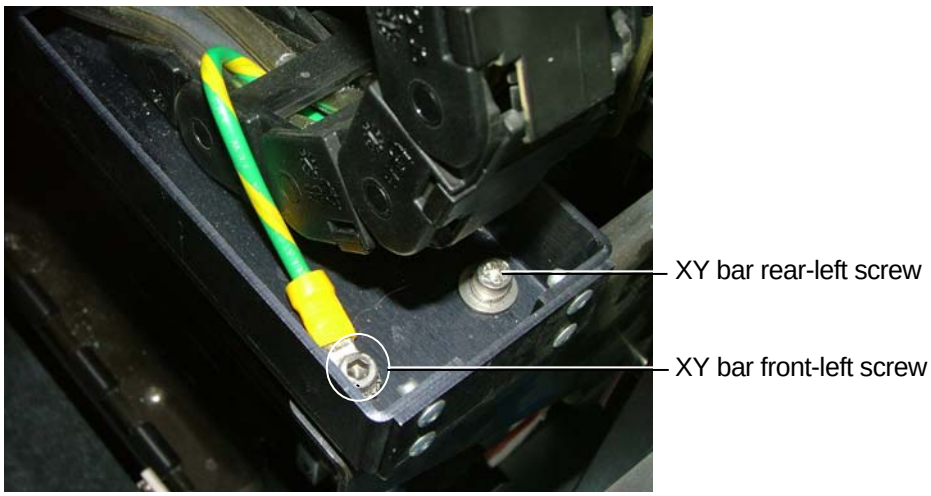


Figure 5: Removing the front-left screw

3. On the right side of the XY bar, remove the front screw that secures the XY bar to the support and loosen the rear screw.

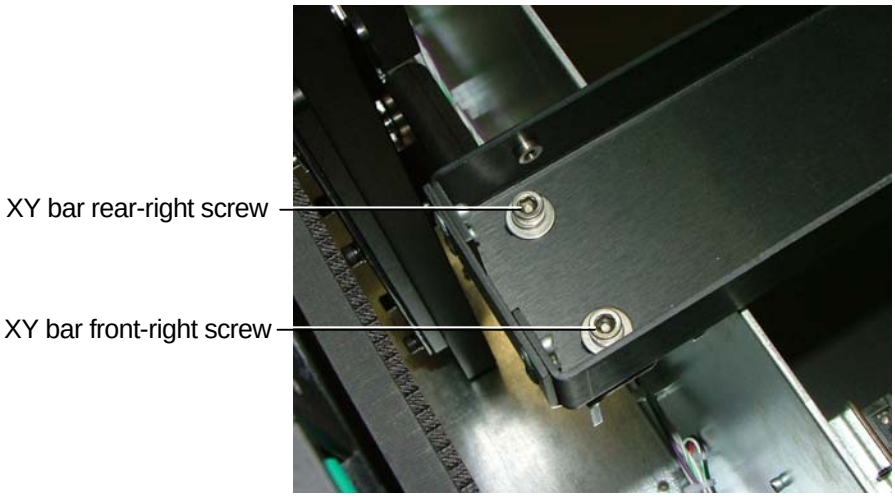


Figure 6: Removing the front-right screw

4. On the left side of the XY bar, insert two washers between the XY bar and the support, and then do the same on the right side of the XY bar.

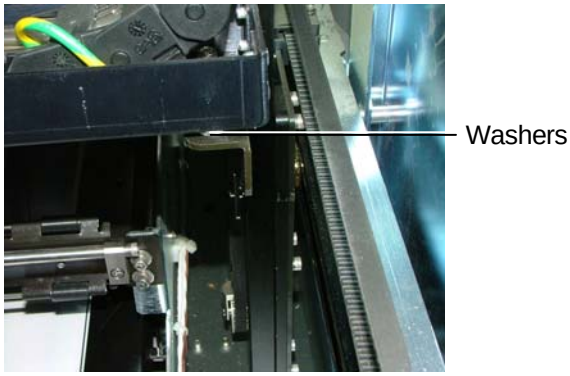


Figure 7: Inserting washers

5. Return the two front screws that secure the XY bar to the support and tighten, and then tighten the two rear screws.
6. Verify that the suction cups are tilted toward the direction of the loading sequence.

Installing the tweezers assembly

To accommodate a customer's minimum plate or paper size, install the tweezers assembly so that it is as close as possible to the edges of the minimum plate size.

- Insert the two screws and secure the bracket mount support to the paper clamp on vacuum bar.

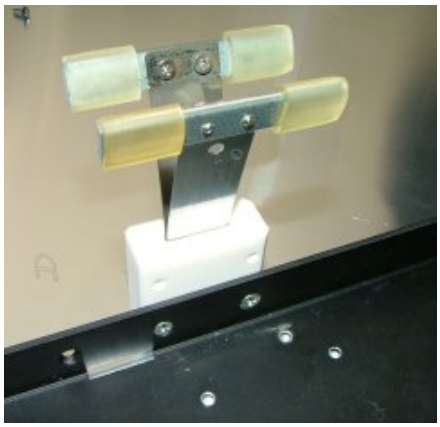


Figure 8: Installing the tweezers assembly

Installing the bracket mount support

1. Align the bracket mount support over the hole from which you removed the old tweezers assembly so that the diagonal holes in the XY bar match their corresponding holes on the bracket mount support.



Figure 9: Diagonal holes on XY bar

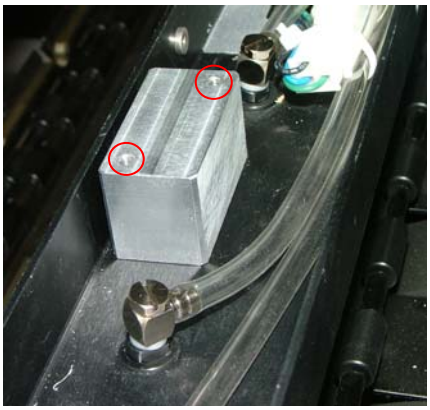


Figure 10: Aligning the bracket mount support

2. From the bottom of the XY bar, on each bracket mount support, insert two long screws and loosely secure.

Installing the paper clamp on vacuum bar

The paper clamp on vacuum bar is supplied with the tweezers assemblies already installed on the bar, and replaces the earlier XY bar top cover.

1. Place the paper clamp on vacuum bar (with tweezers assembly) on top of the XY bar.
2. For each tweezers assembly, insert two conical screws into the paper clamp on vacuum bar and tighten.

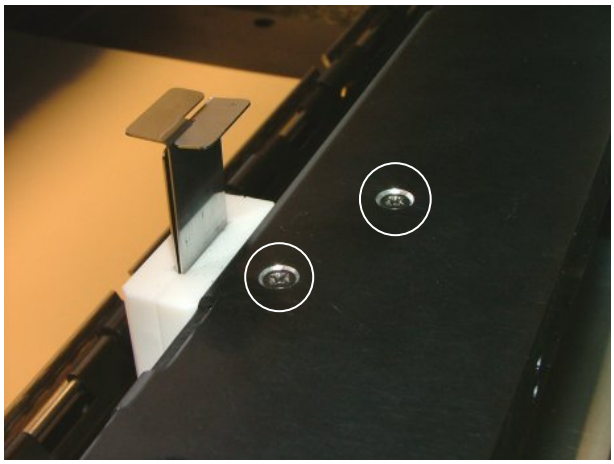


Figure 11: Conical screws inserted on paper clamp on vacuum bar

3. On each end of the paper clamp on vacuum bar (top cover), insert a screw to secure the paper clamp on vacuum bar to the XY bar, and tighten.



Figure 12: Installing the paper clamp on vacuum bar

Installing the chain guide type II bracket

1. Manually slide the XY loading assembly bar out of the MCU until you can easily reach it.
2. Remove the three screws that secure the bracket to the XY loading assembly bar, and remove the bracket.
3. Insert the chain guide type II bracket on top of the XY loading assembly bar.



Figure 13: Installing the chain guide type II bracket

4. Insert the three screws that secure the bracket to the XY loading assembly bar and tighten.
5. For Lotem 400 Quantum platesetters *only*, install Lotem Controller 1.50.08 Update 5.
6. For Lotem 400 Fiber Head platesetters only, install Lotem Controller 1.61.351 Update 1.

Testing the loading assembly functionality

After you finish the electronic and hardware installations and the software installations, you need to test the loading assembly functionality.

To verify that the loading assembly is working properly, check the following functionalities:

- Plate-picking functionality (for all cassettes)
- Paper-picking and tweezers functionality
- Load plate-to-drum functionality

With both doors open, perform a load/unload plate sequence using all three cassettes to check the tweezers assembly functionality.

1. When performing plate loading from cassette 1, if the tweezers assembly collides into the cassette 2 rollers, adjust the **X Position in Cassette For Cst 1(mm)** parameter using incremental steps.
   a. In the Magnus 400 Controller software, on the Operation toolbar, select **Utilities > Hardware**.
   b. In the Hardware window, expand **Loading System**.
   c. Right-click the **Loading System** node and select **Properties**.

      The Properties: Loading System window appears.

d. Double-click **Load Plate**.

e. Double-click **From Cassette to Punch Entry Stage**.

f. Using incremental steps of 1, adjust the **X Position in Cassette For Cst 1(mm)** parameter.

2. When performing plate loading from cassette 2, if the tweezers assembly collides into the cassette 3 rollers, adjust the **X Position in Cassette For Cst 2(mm)** parameter using incremental steps.

   a. To adjust the X position parameter, repeat steps a to ff.

   b. Using incremental steps of 1, adjust the **X Position in Cassette For Cst 2(mm)** parameter.

3. To test the paper-picking and tweezers functionality, perform a paper disposal sequence to verify that paper disposal from all three cassettes is working smoothly.

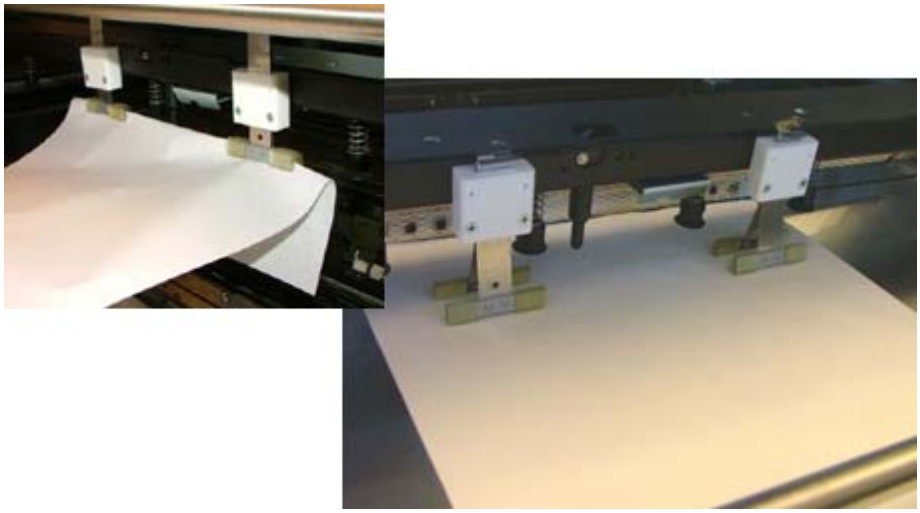


Figure 14: Verifying the paper-picking and tweezers functionality

4. If the paper-picking fails, clean the plate roller covers on the tweezers with alcohol.

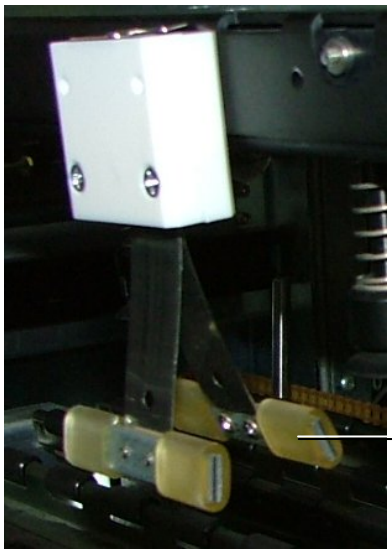


Figure 15: Plate roller covers on tweezers assembly

Important: To avoid damaging the plate roller covers (on the tweezers), make sure the paper sequence parameters defined on your platesetter do not cause the plate roller covers to descend too low and touch the disposal rollers.

5. In the Lotem or Magnus Controller software, expose a file and verify that the tweezers are working properly.

   Note: To troubleshoot paper picking problems, see Paper bin task fails on Magnus 400 and Lotem 400 platesetters.

FCO Updater Utility

After completing the FCO procedure, insert the FCO Updater Utility CD into the CD-ROM drive and run the utility.

Material disposition	Dispose old tweezers assembly
Technical contact	Mario Amir
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Last updated	12 May 2008