

15370 Barranca Parkway Irvine, CA 92618



FARGO®C50 Printer

SERVICE MANUAL

PLT-01278 Rev 1.1

August 2013

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Revision History

Date	Description	Document Version
6-2013	C50 Card Printer Service Manual	1.0
8-2013	C50 Card Printer Service Manual	1.1 added new mainboard pictures

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1 Introduction

The service manual serves to inform the technician about the C50 Card Printer parts replacement procedures.

Important: These procedures can only be performed by authorized service personnel. Estimated repair time may vary according to the technicians experience.



Caution: Turn OFF the Printer and unplug the power cord from the Printer.

ESD precautions are necessary when handling electronics assemblies



Danger: Wear proper eye protection to perform the procedures in this section.

1.1 Safety Messages (review carefully)

The purpose of this section is to provide the User with specific replacement procedures for the Card Printer. Please review standard precautions (to take) while performing these replacement procedures.

Symbol	Critical Instructions for Safety purposes
Danger:	Failure to follow these installation guidelines can result in death or serious injury.
<u>\i\</u>	Information that raises potential safety issues is indicated by a warning symbol (as shown to the left).
	To prevent personal injury , refer to the following safety messages before performing an operation preceded by this symbol.
	To prevent personal injury , always remove the power cord prior to performing repair procedures, unless otherwise specified.
	To prevent personal injury , make sure only authorized service personnel perform these procedures.

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Symbol	Critical Instructions for Safety purposes
Caution:	This device is electrostatically sensitive. It can be damaged if exposed to static electricity discharges.
4	Information that raises potential electrostatic safety issues is indicated by a warning symbol (as shown to the left).
	To prevent equipment or media damage, refer to the following safety messages before performing an operation preceded by this symbol.
	To prevent equipment or media damage , observe all established Electrostatic Discharge (ESD) procedures while handling cables in or near the Circuit Board and Printhead Assemblies
	To prevent equipment or media damage , always wear an appropriate personal grounding device (e.g., a high quality wrist strap grounded to avoid potential damage).
	To prevent equipment or media damage , always remove the Ribbon and Cards from the Printer before making any repairs, unless otherwise specified.
	To prevent equipment or media damage , take jewelry off of fingers and hands, as well as thoroughly clean hands to remove oil and debris before working on the Printer.



1.2 Tools need for Card Printer repair- replacement procedures

T10 Torx screwdriver
E Clip tool
Small flathead screwdriver
Needle Nose Pliers

(NOTE: HID Global offers a kit that contains many of the tools needed to repair the printers. Part Number 085627)

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2 Cover Removal Procedures

2.1 Remove/Replace Printer Covers



Tools needed: T10 Torx screwdriver **Estimated Repair Time:** 15 minutes

Preparation:

Important: This procedure can only be performed

by authorized service personnel.

 Top Cover/PCB Assy
 D930034-03

 Front Door
 D930265-03

 Left Cover
 D930263-04

 Right Cover
 D930264-03

 Back Cover
 D930270-01

 Output Bin
 D930269-01

Step | Procedure

1

2



Caution: Turn OFF the Printer and unplug the power cord from the Printer.

Open the front door. Locate and remove the 2 screws. (F000178)



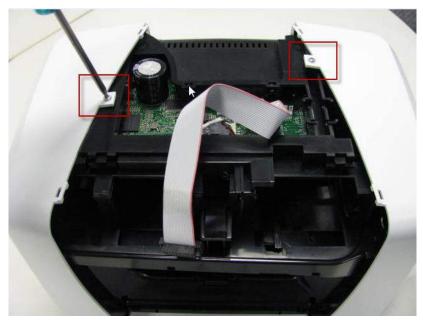
Lift up the top cover and disconnect the display cable (D930607) from the main board. Remove the top cover by flexing the center to disengage the insert tabs.

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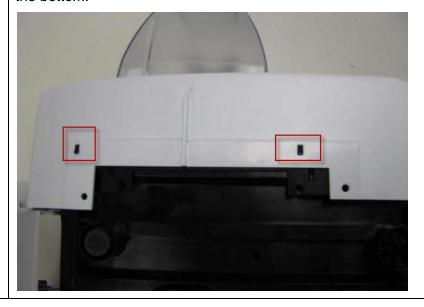
Step | Procedure

4 Remove the 2 screws (F000178) that hold the side covers to the frame.



Remove both side covers. The input and output hoppers are attached to the side covers.

When replacing the side covers, note the frame tabs fit into the cover holes to secure it at the bottom.

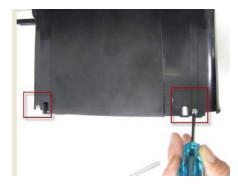


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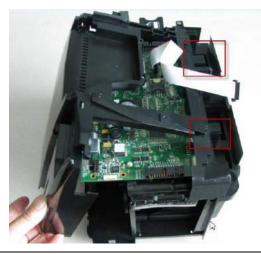


Step | Procedure

6 Remove the outer back cover. Remove the 2 screws at the base of the back cover.



Lift UP the bottom of this cover to release the upper tabs that hold the cover to the frame.



7 Remove the Front Cover by bending from the center.

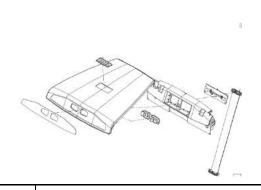


8 Procedure is complete.

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2.2 Remove/Replace Printer Top Cover/PCB display



Tools needed: T10 Torx screwdriver **Estimated Repair Time:** 15 minutes

Preparation:

Important: This procedure can only be performed

by authorized service personnel.

Top Cover/PCB Assy D930034-03

Replace complete top cover for the PCB or any part shown. Parts not sold separately.

Step	Procedure
1	Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Open the front door. Locate and remove the 2 screws. (F000178)
3	Lift up the top cover and disconnect the display cable (D930607) from the main board. Remove the top cover by flexing the center to disengage the insert tabs.
4	Replace with new top cover, reconnect the cable.
5	Procedure is complete

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3 Parts Replacement- Printer

3.1 Remove/Replace the Mainboard

Mainboard Part Number Printer Part Number

PCA-00031 NAM	051975 (NM)
PCA-00032 APAC/CCC	051976/ 051977 (AP)
PCA-00033 LAM	051978 (LM)
PCA-00034 BRAZIL	051979 (BR)
PCA-00035 WE	051980 (WE)
PCA-00036 EE/MEA	051981 (EE)

<u>IMPORTANT NOTE:</u> The localized Firmware allows for the use of specialized ribbons. Order the correct mainboard for your location by checking the Printer part number.



Tools needed: T10 Torx screwdriver

Estimated Repair Time: 20 min **Preparation:** Remove the Covers

Important: This procedure can only be performed by

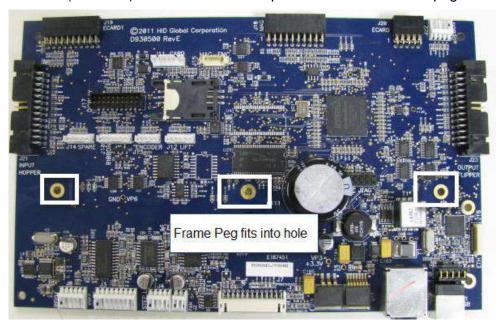
authorized service personnel.

Step	Procedure
1	Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the covers to access the mainboard.
	Remove all the wire connections from the Mainboard.
Step	Procedure

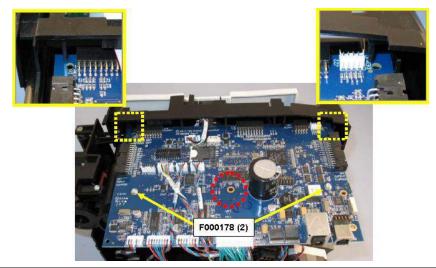
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3 Remove the 2 screws (F000178) shown. The center open hole is for the frame peg.



4 Slide board out from the slots on the front sideplate.

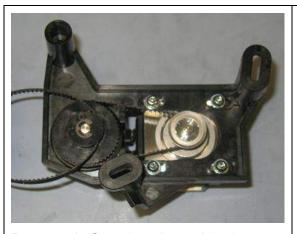


- 5 Install new board and reconnect all wires.
 - Wires are labeled for location connection.
- 6 Procedure is complete.

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3.2 Remove/Replace the Stepper Drive Motor (D930027) Remove/Replace Stepper Belt F000424 Remove/Replace Pulley D900430



D930028 is Complete Assembly shown

Tools needed: T10 Torx screwdriver

E CLIP tool

Estimated Repair Time: 30 min **Preparation:** Remove the Covers

Important: This procedure can only be performed by

authorized service personnel.

Step	Procedure
1	Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove Covers.
3	Lay printer on its front. Remove the cable harness (D930600) from the Stepper Motor.

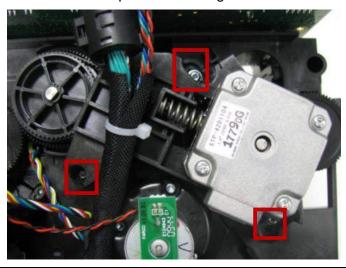
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Step Procedure

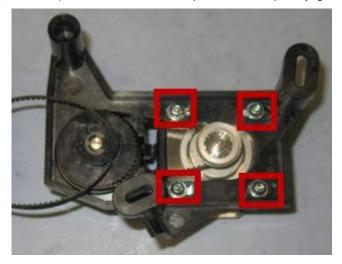
Remove the 3 screws that hold the Motor/Mount to the printer frame. (Make note of where the 2 screw/washers go and the one machine screw. Remove the printhead cable for more clearance)

The motor is attached to a plastic mounting frame.



Remove the 4 screws that hold the stepper motor to the mount frame.

One belt (F000424) will come off of the platen roller pulley/gear (D900429- not shown).



(Caution: Spring may pop out. Safety glasses required)

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Step **Procedure** 6 If replacing the Pulley D900430 remove the E CLIP (140063). Replace with new Pulley. Re- install the E-clip. 140063 Verify the E-Clip is installed with the burr' side up D900430 7 Replace the new Motor to the mount frame. Make sure Spring (F000332) gets put back into proper place 8 Install the belt (F000424) Place belt (F000424) over stepper motor pulley Rotate pulley to Start other end of belt over opposite pulley

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Step **Procedure** 9 This Stepper Motor Mount provides a self tensioning feature. Keep the four (4) screws loose while holding the Mount Frame. Allow the spring to self-tension, then tighten the four (4) screws. 10 Install belt on stepper motor assembly and then loop the belt w/stepper drive assembly around the platen roller shaft gear. Place the Stepper Mount over the pivot peg. Loop the belt around the platen pulley Pivot

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Step **Procedure** Fit the Mount behind the tab on the printers side plate frame. This locks the mount in place. 11 12 Secure the stepper drive assembly with 2 screws (F000171) with 2 washers (140040), and one screw (F000178) at the specific locations shown. NOTE: Lightly tighten all screws first then tighten the (F000171) screws last. F000171 (2) 140040 (2) F000178

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Step	Procedure
13	Plug motor cable back in.
	Replace the Printhead cable if it was removed in step 4.
14	Procedure is complete.



3.3 Remove/Replace the Mag Roller (D930122)



Located: Rear Sideplate (D930068)

Tools needed: Small flat screwdriver, T10 Torx

screwdriver

Estimated Repair Time: 20 min **Preparation:** Remove the Covers

Important: This procedure can only be performed by

authorized service personnel.

Step Procedure

1

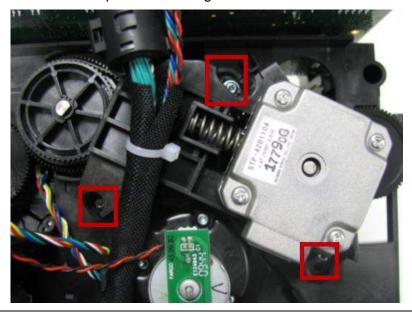


Caution: Turn OFF the Printer and unplug the power cord from the Printer.

2 Remove the Stepper Motor Assembly (D930028)

Remove the 3 screws that hold the Motor/Mount to the printer frame. (Make note of where the 2 screw/washers go and the one machine screw. Remove the Printhead cable for more clearance.)

The motor is attached to a plastic mounting frame.

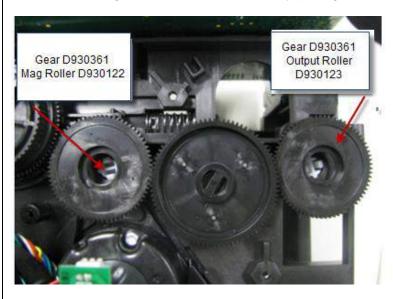


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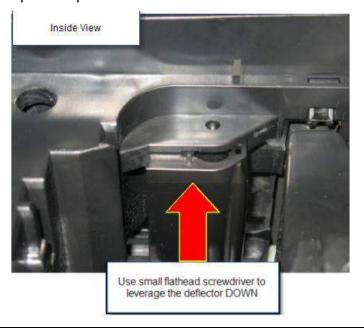


Step | Procedure

3 Remove the Mag Roller Gear (D930361) by pulling out.



Remove the Ribbon Deflector Plate (D930129) to access the Mag Roller. Release the tabs that hold the plate in place.



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Step	Procedure
5	Pull the Mag Roller out from the front side of the printer.
6	Replace with the new roller. Install the Mag Gear from the back to hold the roller in place. Make sure roller sits in front tab (hidden) in front sideplate. Make sure tabs line up and snap into place. Wiggle in place.
7	Insert tabs of the ribbon deflector into the L-shaped slots.
8	Re-install stepper motor assembly (refer to Stepper Motor D930028 procedure)
9	Procedure is complete.



3.4 Remove/Replace the Output Roller (D930123) Remove/Replace Pinch Roller-spring (D920013-F000338)





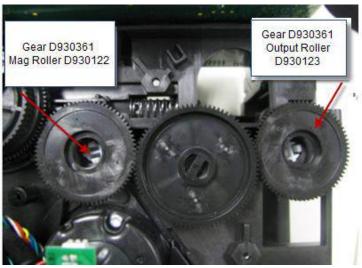
Tools needed: T10 Torx screwdriver

Estimated Repair Time: 20 min **Preparation:** Remove the Covers

Important: This procedure can only be performed

by authorized service personnel.

Step	Procedure
1	Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Output Roller Gear (D930361) by pulling straight out. No need to remove the Stepper Motor Assembly.



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Step	Procedure
3	Flip printer on front remove Roller (D930123) Pull straight up and out
4	Replace with new roller and replace the gear onto the roller. Procedure completed.
5	Remove the output roller first and then remove the Pinch Roller
	Use a small flathead screwdriver to release the spring (F000338) and the Pinch Roller (D920013).
	Replace with new roller.
6	Reverse assembly to reinstall parts.
7	Procedure is complete.



3.5 Remove/Replace the Platen Roller (D930120) & Pulley/Gear (D900429)



Tools needed: T10 Torx screwdriver

Estimated Repair Time: 45 min **Preparation:** Remove the Covers

Important: This procedure can only be performed

by authorized service personnel.

Step | Procedure

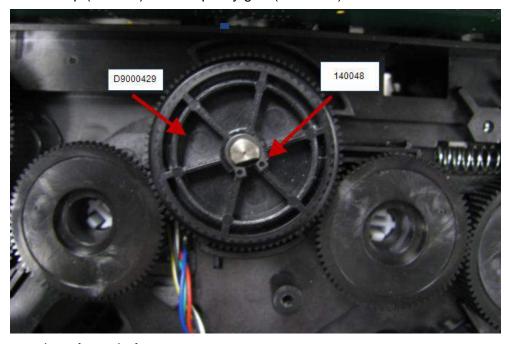
1



Caution: Turn OFF the Printer and unplug the power cord from the Printer.

2 Remove the Stepper Motor Assembly (D930028)

3 Remove the E Clip (140048) and the pulley/gear(D900429)



Remove washers from shaft.

(Replace the gear if necessary)

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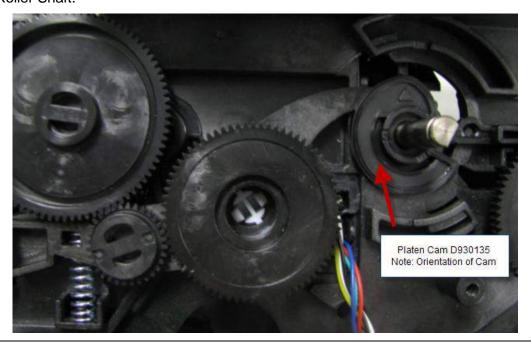


Step | Procedure

Turn the twist lock Bushing-Twist Lock (D930178) counter clockwise to unlock and lift up. It is not necessary to remove the surrounding gears.



Remove the Platen Cam (D930135). Rotate cam clockwise to remove. Pull off of the Platen Roller Shaft.



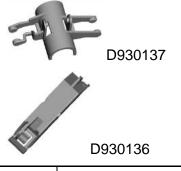
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Step	Procedure
6	Remove the print head assembly if better access is needed.
	See Printhead removal procedure.
7	Move the lever up to clear the Platen Roller (D930120)
	Lift the lever up and out of the way D930120
8	Replace with new roller.
9	Reverse assembly to reinstall parts.
10	Procedure is complete.



3.6 Remove/Replace the Lift Pinch Roller Assembly (D930137), Remove/Replace Pinch Lift Bracket (D930136)



Tools needed: T10 Torx screwdriver

Estimated Repair Time: 20 Min

Preparation: . Remove the Covers

Important: This procedure can only be performed by

authorized service personnel.

Step Procedure

Caution: Turn OFF the Printer and unplug the power cord from the Printer.

Remove the mainboard.

Pull the tabs apart on the Bracket (D930136) to release. Lift up and out.

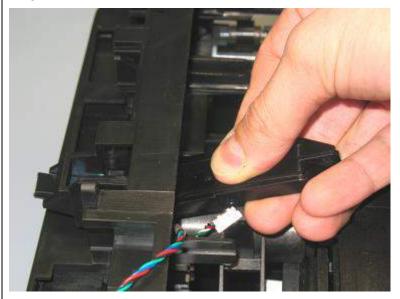
Pull tabs outward to engage with the lift bracket

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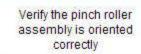


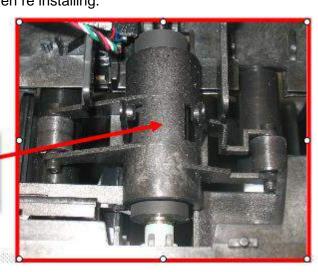
Step Procedure

Rotate the Lift Bracket (D930136) with the spring (D930266) upwards to disengage the hinge.



Lift out the Pinch Roller Bracket (D930137).
 NOTE: Verify orientation when re installing.



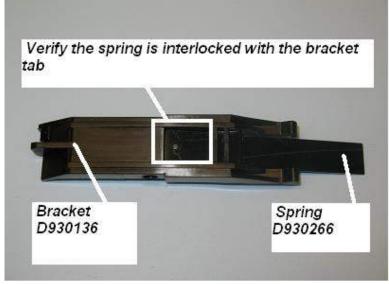


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tep	Procedure
6	Replace with new Platen Roller.
	Lock platen with cam first into the front sideplate.
7	To reinstall the Pinch Roller Assembly:
	a. Verify orientation of the Pinch Roller Assembly
	Verify the pinch roller assembly is oriented correctly b. Connect the spring to the bracket. Verify the spring is interlocked with the bracket

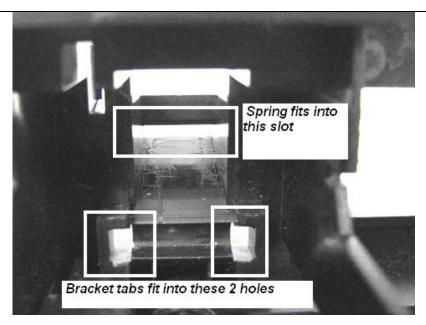


c. Insert the Bracket tabs into the holes provided in the sideplate frame.

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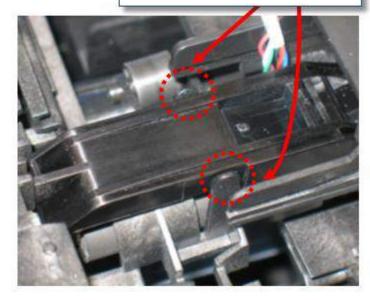
- d. Tilt the spring upward and fit in to the slot provided. Some force is needed to snap the spring and tabs in place.
- e. Click the Bracket into the frame.





f. Snap the Roller Bracket tabs to the Lift Bracket.

Verify both sides of the roller bracket are engaged with the lift bracket



g. Procedure is complete.

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3.7 Remove/Replace the Cleaning Roller (D930121), Remove/Replace Input Feed Lever (D930132), Remove/Replace Input Lever Gear (D930164)



Tools needed: T10 Torx screwdriver

Estimated Repair Time: 30 min **Preparation:** Remove the Covers

Important: This procedure can only be performed by

authorized service personnel.

Step	Procedure
1	Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the ribbon supply assembly.
3	Remove the mainboard (D930500)
4	Remove the Cleaning Roller Gear (D930124)

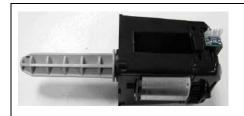
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Step	Procedure
5	Remove the stepper motor assembly and belt (D930028)
6	Remove the pulley (e-clip) and washers.
7	Remove platen cam rotation. Locking bushing.
8	Remove the Lever. Be careful not to lose the spring. NOTE: How the spring is set into the pegs. The gear will pull straight out.
9	From the front of the printer release the cleaning roller from the peg by pushing all the way back and dropping the roller. D930121
10	Replace with new roller.
11	Insert the Spring into the upper and lower pegs. Install the Lever then the Gear. Turn the black platen gear to verify the gears turn simultaneously.
12	Reinstall cam, locking bushing, stepper motor, ribbon supply assembly.
13	Procedure is complete.



3.8 Remove/Replace Supply Spindle RFID Motor (D930015-01)



Tools needed: T10 Torx screwdriver

Estimated Repair Time: 20 min

Preparation: Remove the Covers

Important: This procedure can only be performed by

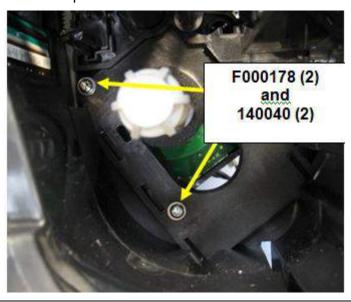
authorized service personnel.

Step Procedure

1

Caution: Turn OFF the Printer and unplug the power cord from the Printer.

2 Remove the 2 screws (F000178) & washers (140040) from the motor assembly. This is done from the front of the printer.



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Step	Procedure
3	Slide the Supply Spindle DOWN To release. Slide the Motor UP to install.
	NOTE: You do not need to remove the gears or the Stepper Motor for this procedure.
	NOTE: If ribbon wrinkle occurs after replacing the motor, move the motor assembly DOWN slightly in the frame. Loosen the 2- F000178 screws from the supply spindle, move down 1/16 th inch then tighten the F000178 screws.
4	Remove the RFID cable (D930603) from the Supply Spindle.
4	Remove the Encoder Sensor cable harness (D930600) from the encoder sensor.
	NOTE: The routing of these wires under the clip.
	THE TEXT TO GUILLE WHO CHILD SHIP.
5	Replace the complete assembly Motor.
	Reconnect wires.

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6

Procedure is complete.



3.9 Remove/Replace Ribbon Take-Up Motor (D930014)



Tools needed: T10 Torx screwdriver

Estimated Repair Time: 20 min **Preparation:** Remove the Covers

Important: This procedure can only be performed by

authorized service personnel.

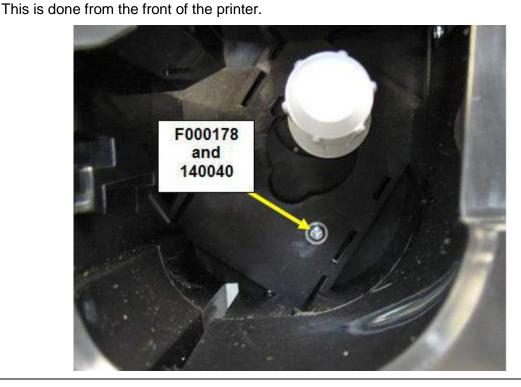
Step | Procedure

1



Caution: Turn OFF the Printer and unplug the power cord from the Printer.

2 Remove the screw F000178 from the motor assembly.



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Step	Procedure			
3	From the back of the printer, the motor fits into the track located on the rear sideplate. Slide the Take-Up Motor DOWN to release & remove. Slide the Motor UP to install the replacement. NOTE: You do not need to remove the gears or the Stepper Motor for this procedure.			
NOTE: If ribbon wrinkle occurs after replacing the motor, move the motor asser slightly in the frame. Loosen the screw (F000178) from the take up spindle, mount 1/16 th inch then tighten the F000178 screw.				
4	Remove the wire connection (D930600 harness) from the top of the Take-Up Motor.			
5	Replace the complete assembly Motor.			
6	Reconnect wires.			
7	Procedure is complete.			



3.10 Remove/Replace Encoder Sensor (A930514) for RFID Supply Spindle/ Cable (D930605), Remove/Replace PCB board (A000365-01)

NOTE: For any other parts (motor/ encoder wheel) REPLACE COMPLETE ASSEMBLY (D930015-01).



A000365-01



Tools needed: Torx screwdriver and flat head

screwdriver

Estimated Repair Time: 30 min **Preparation:** Remove the Covers

Important: This procedure can only be performed by authorized service personnel.

RFID Cable D930603

Encoder Sensor Cable D930605

Step	Procedure
1	Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove Supply Spindle-RFID assembly. Refer to: Remove/Replace Supply Spindle RFID Motor (D930015-01)

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3 Remove the Damper Cap (F000487)

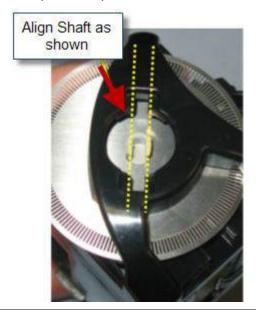
Use a thin flathead screwdriver to loosen one side.

The cap will pop off.



Note: Replace the Damper Cap by lining up the shaft first then snap the Damper Cap back on.

Verify the gray shaft is pushed up to hold the encoder wheel in place.



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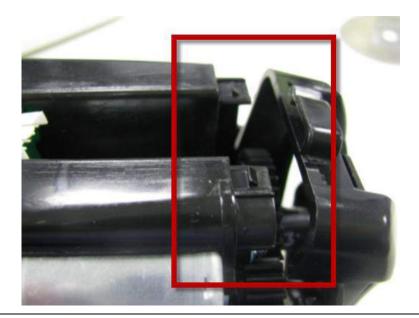


4 Remove the supply cover (D930116) by pulling up from the open end.



This will unlatch the tabs holding the cover to the frame.

This allows for access to the sensor.



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Step	Procedure		
5	Remove the sensor. Use a thin flat blade screwdriver to unlatch the tabs holding the sensor to the frame.		
6	Press the new sensor into the assembly. Make sure the encoder wheel is in between the sensor.		
7	Replace with new Sensor (A930514) and/ or Cable (D930605)		
8	Line up the sensor with the slot and snap back in. Reconnect cable to J18		
9	Procedure is complete.		



3.11 Remove/Replace the PCB board (A000365-01)

Step	Procedure		
1	Remove Supply Spindle-RFID assembly. See procedure above (D930015-01). Un-snap the PCB from the frame. The PCB with the HOLES is set under the corner tabs. Lift up this end first. See picture below.		
2	Replace with new PCB and/ or Cable.		
3	Insert one end first then snap into the corner tabs. Replace cable to J9. NOTE: Orientation of PCB		
9	For both procedures route the cables under the holding tab. Route wires as shown Route wires as shown		
10	Reverse assembly to reinstall parts		
11	Procedure is complete.		

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3.12 Remove/Replace Ribbon Sensor (D930016)



Tools needed: T10 Torx screwdriver Estimated Repair Time: 30 min

Preparation: Remove the Covers

Important: This procedure can only be performed by

D900429

authorized service personnel.

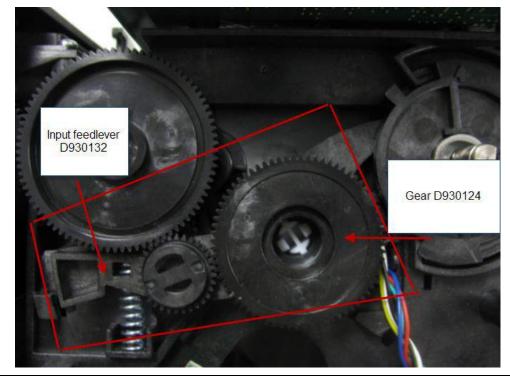
Ribbon Sensor Cable D930608

Step **Procedure** 1 Caution: Turn OFF the Printer and unplug the power cord from the Printer. 2 Remove the stepper motor assembly first. 3 Remove the Platen Roller Gears to access the Ribbon Sensor. Remove the retaining ring and pull off the gear. Platen Roller Gear

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4 Remove the Input Feed Lever (D930132), Spring and Gear to access the Ribbon Sensor.



From the INSIDE of the printer: Pinch the tabs on the other side to help remove the sensor from the frame.

PUSH the Ribbon Sensor back to release the tabs and remove the sensor.

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Step **Procedure** 6 Replace with the new sensor. Push the sensor back in using the tabs to snap the sensor in place. This is done from the rear sideplate of the printer near the gears. Note: The wire routing to the frame. Insert assembly into the rear sideplate Route wires 7 Reverse assembly to reinstall parts. Verify wave washer is in place. 8 Procedure is complete

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3.13 Remove/Replace Card Path/Cover Sensor (D930613)



Tools needed: T10 Torx screwdriver **Estimated Repair Time:** 30 min

Preparation: Remove the Covers

Important: This procedure can only be performed by

authorized service personnel.

Step **Procedure** 1 Caution: Turn OFF the Printer and unplug the power cord from the Printer. 2 Remove the mainboard. Remove the J11 and J17 connector from the mainboard. 3 Use a small flathead screwdriver to GENTLY pry the sensor up. The sensor must be released from the small tab holding the sensor. (See the RED arrow) (The cable is shown on THIS side of the frame for clarity.)

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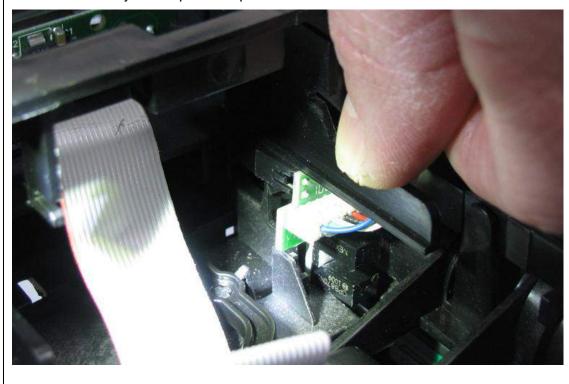
4 Replace with the new sensor.

Line up the sensor and push down to snap it in place UNDER the small tab.

Route the cable on the right side of the frame as shown in the picture below.

Connect to the mainboard

Reverse assembly to complete the procedure.



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3.14 C50 Printhead procedure

The guide serves to instruct the user about replacing the Printhead. This procedure can only be performed by authorized service personnel.

Kit part number: 047500

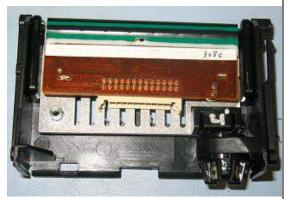


Caution: Turn OFF the Printer and unplug the power cord from the Printer.



Danger: Wear proper eye protection to perform the procedures in this section.

Reverse the disassembly steps to reassemble the Card Printer. ESD precautions are necessary when handling electronics assemblies.



Tools needed: Flathead screwdriver

Torx Wrench (included in kit)

Estimated Repair Time: 20 minutes

Preparation: Remove Printhead mount

Important: This procedure can only be performed by

authorized service personnel.

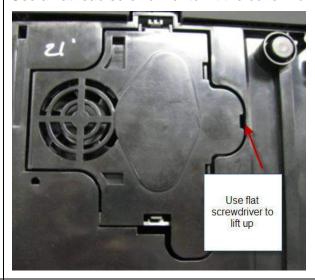
Make note of the resistance value on the new printhead; verify this value in the Advanced Settings driver option. Refer to the User Guide for more information.

Step	Procedure
1	Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Turn the printer over to access the Headlift cover.

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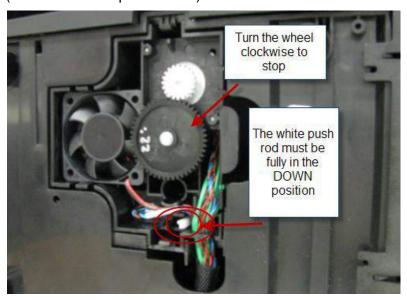


3 Use a flathead screwdriver to lift the cover from the frame.



4 **VERY IMPORTANT STEP**

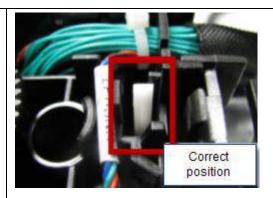
Turn the gear clockwise until the Push Rod is in the **DOWN** position. (in relation to the printer base)

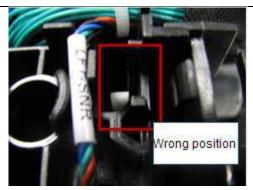


Continued on next page

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correct position

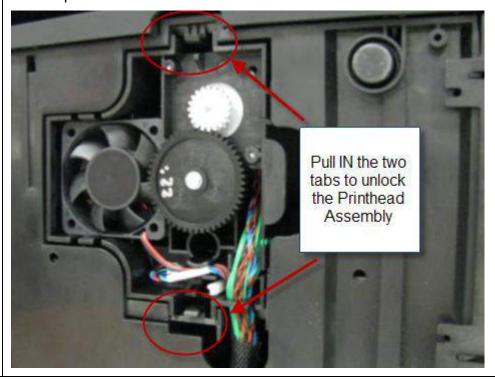
wrong position

5 Pull the 2 tabs IN and pull UP to *loosen* the Printhead assembly.

Hold UP until you can push the white rod to the right.

Do not pull up until the push rod has been moved.

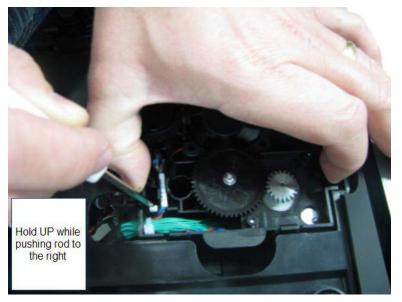
See step 6 below.

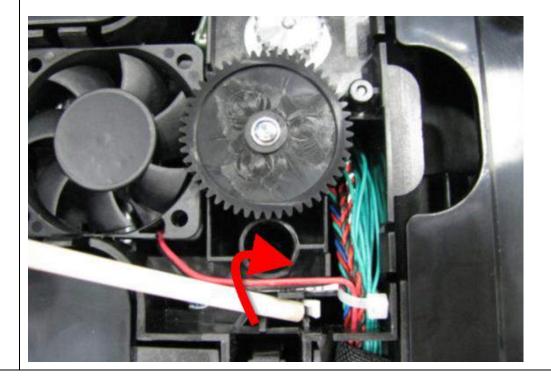


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6 Unlock the push-rod by moving it from the left to the right side of the tab.

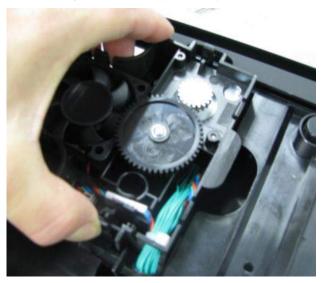




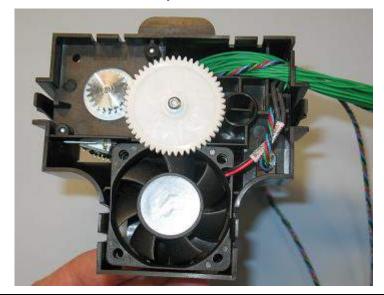
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7 The printhead assembly can now be pulled up and out from the frame.



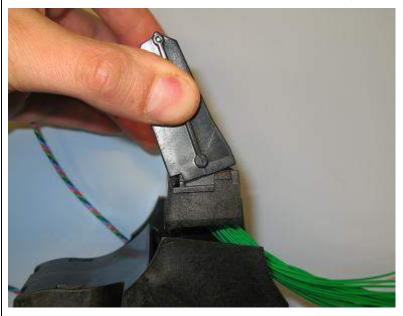
8 The back side of Printhead assembly shown has been removed from the printer.



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9 Grasp the printhead mount and rotate to release the printhead from the main assembly.





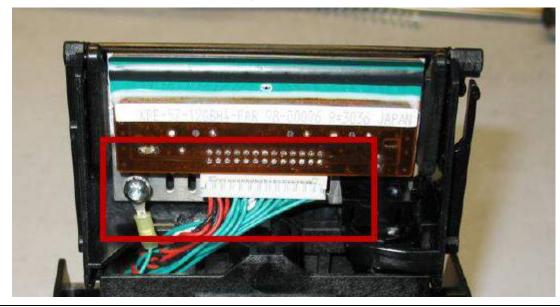
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10 Remove the cable (D930602). Be careful not to damage the pins.

Remove the Torx screw (F000170) and release the ground cable.

Leave the wires in the main assembly.



Before installing the new Printhead make note of the **R=xxxx** value. This number will be used after the Printhead is installed and ready to make the final adjustment.

See Advanced Adjustments below.



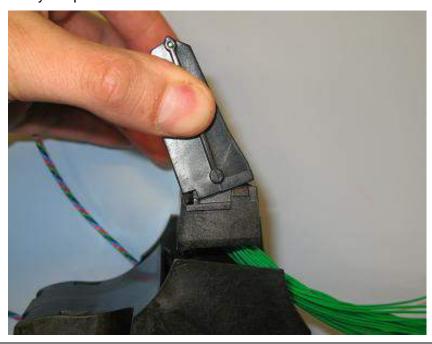
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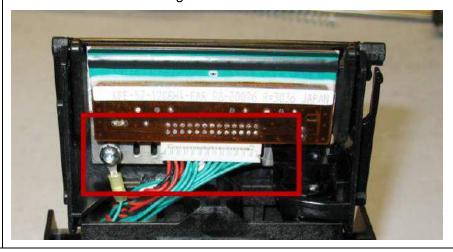
12 Replace with the new printhead.

Install the printhead assembly holes into the tabs and tilt to snap the printhead assembly into place.

Verify the printhead is secure in the mount.



13 Reconnect the cable and ground cable.



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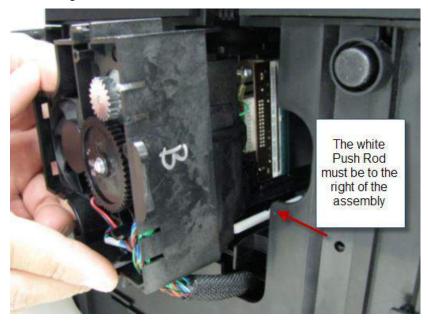


14 VERY IMPORTANT STEP

Reinstall the printhead mount assembly into the printer.

Line up the Printhead assembly.

IMPORTANT NOTE: Verify the white Push Rod is to the right of the assembly before reinserting.



Verify the push-rod is in the correct position. It will rest to the right side of the tab.



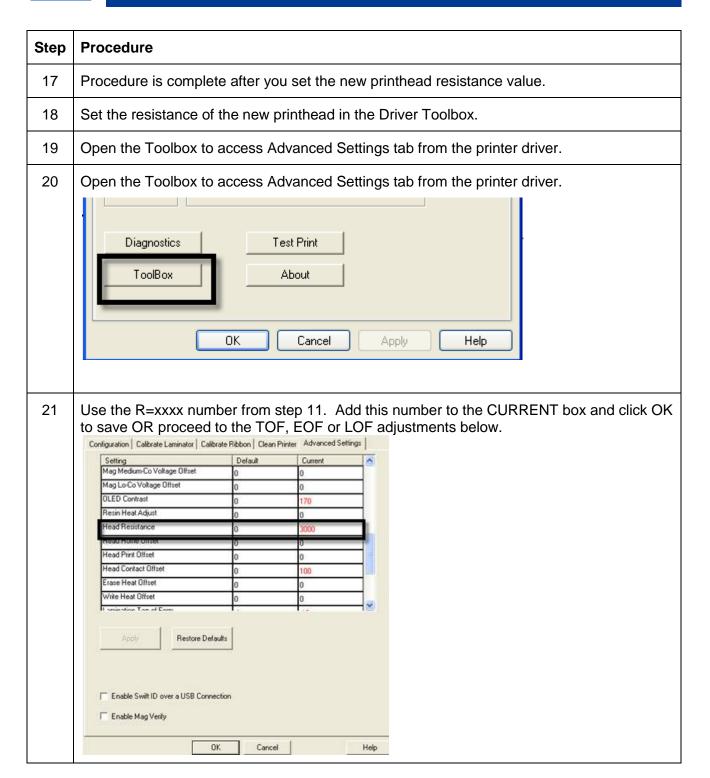
15 **CAREFULLY** re-insert the completed printhead assembly.

Do not scratch the printhead surface.

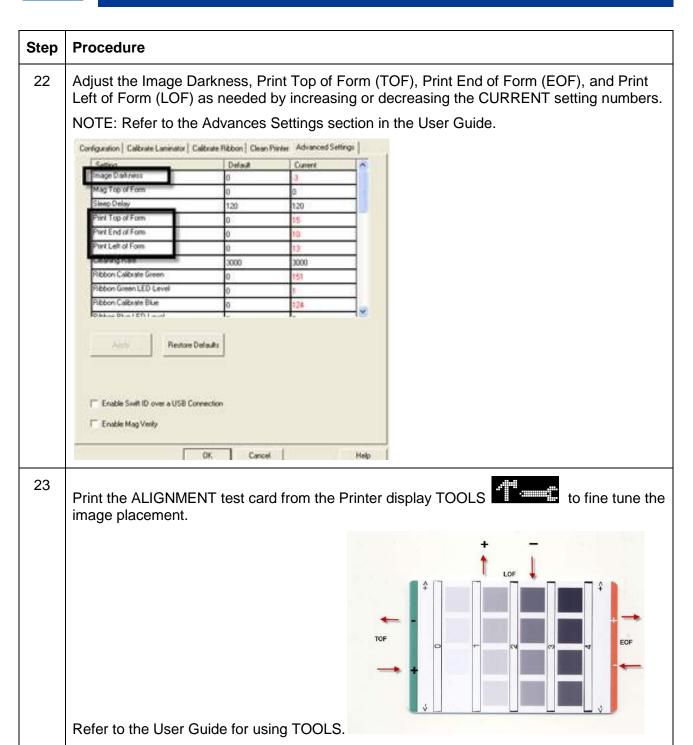
16 Replace the Headlift cover by snapping back into place.

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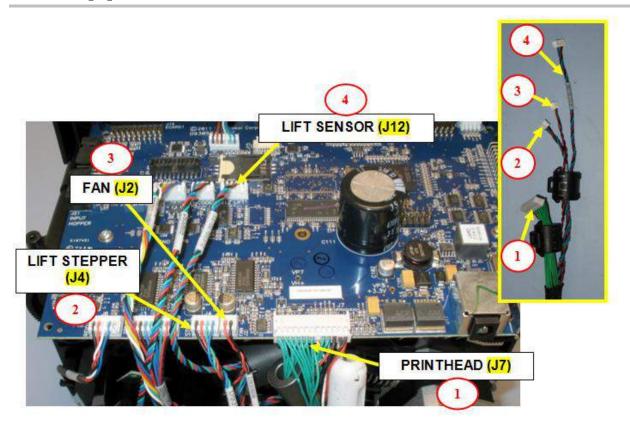




Step	Procedure						
24	To adjust IMAGE DARKNESS: Increase the number to darken the image density or decrease the number to lighten the image density.						
DTC4500 Card Printer							
	Configuration Calibrate Laminator Calibrate Ribbon Clean Printer Advanced Settings						
	Setting	Default	Current				
	Image Darkness	0	-3				
	Mag Top of Form	0	0				
25	Procedure is now complete.						



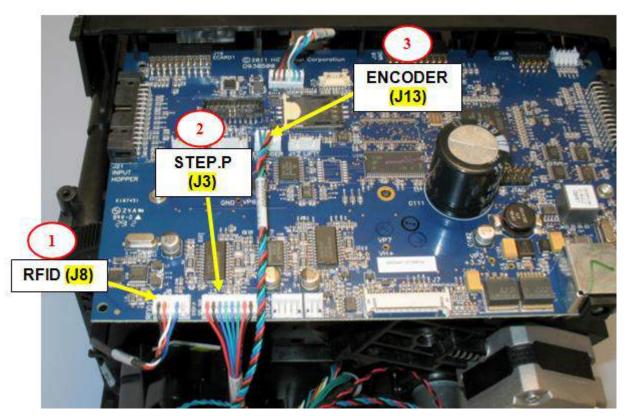
4 **Appendix D** Printer Mainboard connections



J2-J4-J7-J12 Printhead Harness Cable (D930628) Printhead, Lift Stepper & Sensor, Fan

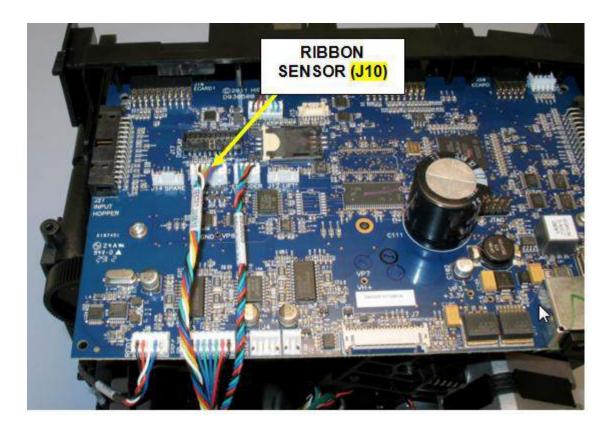
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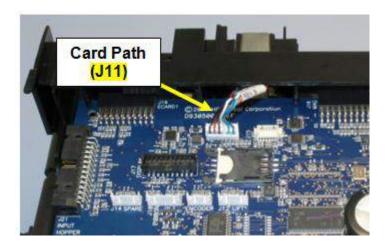


- J3 Motor Harness Cable (D930600) Stepper Motor, Ribbon Supply, Ribbon Take-up
- J8 RFID Cable (D930603)
- J13 Encoder Cable (D930605)





J10 (D930608) Ribbon Sensor Cable



J11 (D930613) Card Path Cable



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5 Appendix E Engineering Drawings

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