FCO 512-00425A: UDRC Sensor

Internal document number: 719-00820C Rev. A

Product

- Kodak® ThermoFlex® Narrow (with Local3 board)
- ThermoFlex Mid (with Local3 board)
- ThermoFlex Mid II

Note: Do not implement this FCO for devices that have Local2 board or use the Fuchs debris removal system.

FCO priority

Next visit

Component

Sensor for UDRC, located on the nozzle

Background

Earlier versions of ThermoFlex Narrow and ThermoFlex Mid platesetters do not monitor the UDRC particulate and chemical filters. If the UDRC malfunctions, there is no warning and the operator could be exposed to dangerous chemicals. Operators must keep track of the accumulative imaged area to know when to replace the filter.

Solution

Install the UDRC sensor. In case of a UDRC malfunction, the sensor causes ThermoFlex Controller to generate a warning message. In addition, the sensor helps to reduce the waste of filters.

Time required

Two hours

Prerequisites

- Some hardware prerequisites are necessary, as described in the Prerequisites section of the release notes 1.32.350.004 (for Microsoft® Windows® 95) and 2.03.353.003 (for Windows XP).
- If the platesetter does not have a 1-watt diode, or its serial number does not start with “FM” or “FN”, you must order and install part number 507-00203A: Suction unit (nozzle) and anti-collision assembly.

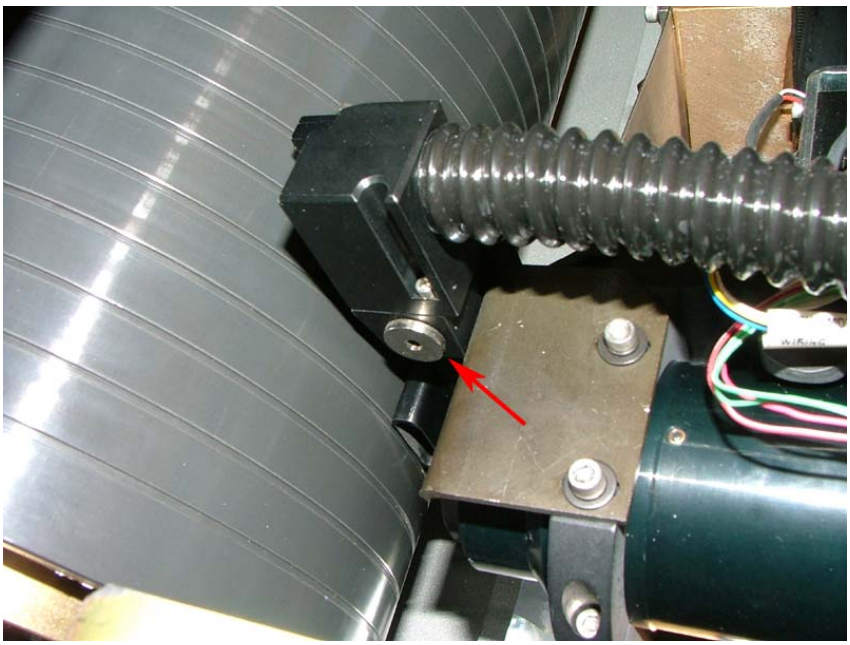
Parts required

Part Number	Part Name	Quantity
220-01463A	UDRC cable	1
220-01932A	Vacuum sensor wiring	1
344C71000A	Elbow swivel	1
344F10131A	Blue hose	3
651-00875A	ThermoFlex Controller version 2.03.355.003 (for Windows XP)	1
651-00834A	ThermoFlex Controller version 1.32.350.005 (for Windows 95)	1
651-00869A	FCO updater	1

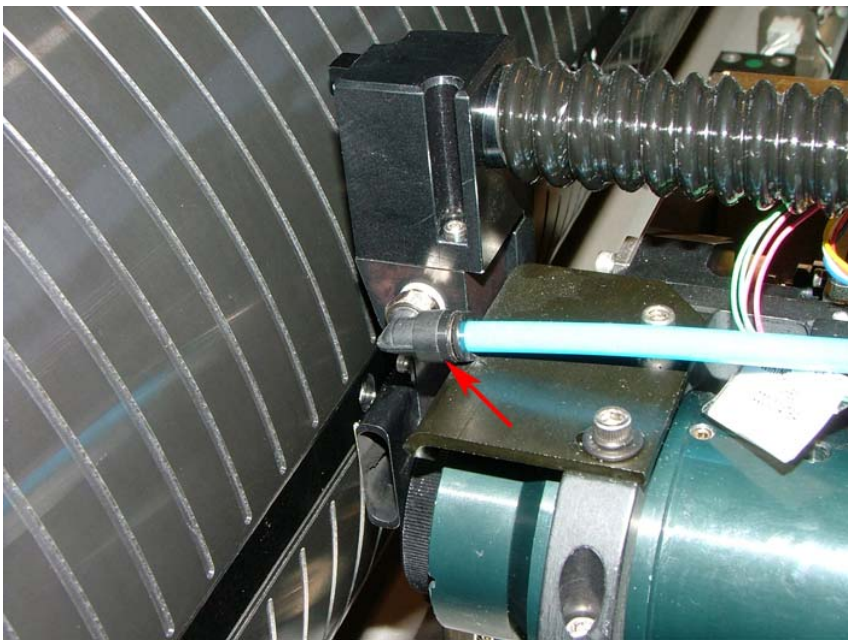
Part Number	Part Name	Quantity
719-00820C	FCO document	1
719-01004A	FCO Document, ThermoFlex Controller Version 2.03.355.003	1
719-00930A	FCO Document, ThermoFlex Controller Version 1.32.350.004	1

Procedure

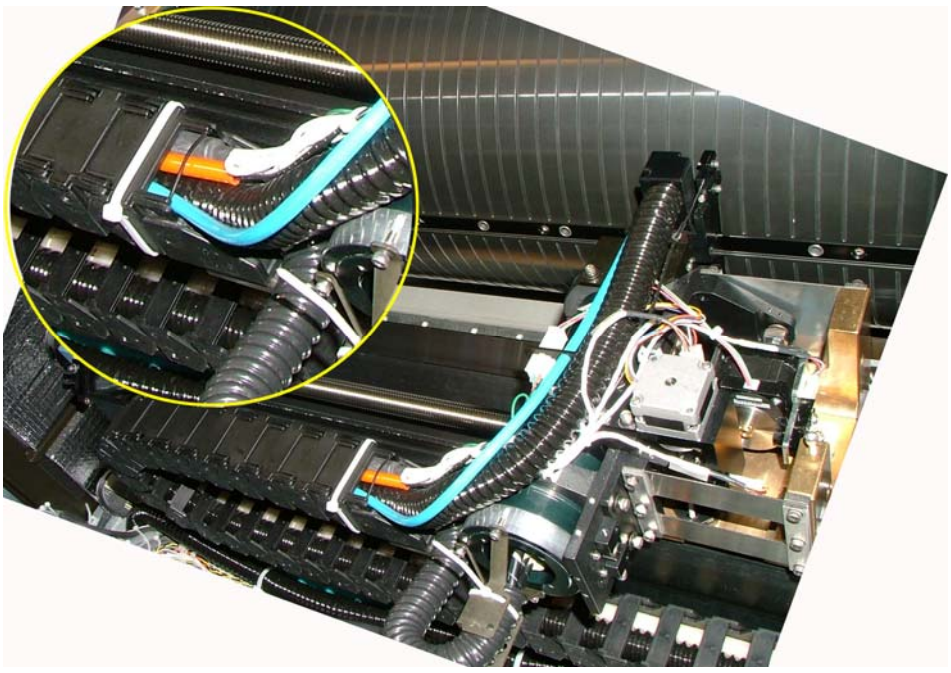
1. From ThermoFlex Controller, open the top door (for ThermoFlex Narrow) or the service door (for ThermoFlex Mid II).
2. Move the carriage to the center of the drum.
3. Exit ThermoFlex Controller and shut down the platesetter.
4. Using a 3 mm hex key, remove the plug from the debris removal nozzle.
   Note: If your device is ThermoFlex Mid 4048, save the plug. You will use it later.



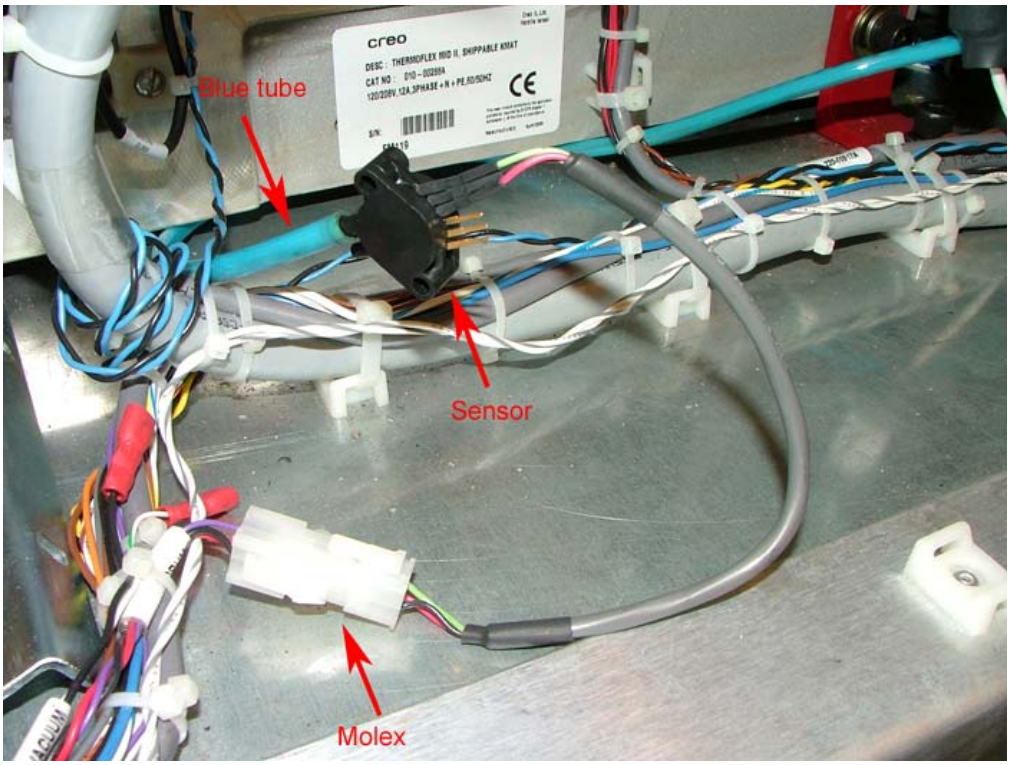
5. Using a 13 mm open wrench key, tighten the elbow swivel to the hole in the nozzle, and connect the blue hose to the nipple.



6. Open the chain, thread the blue hose through the chain, and then close the chain.

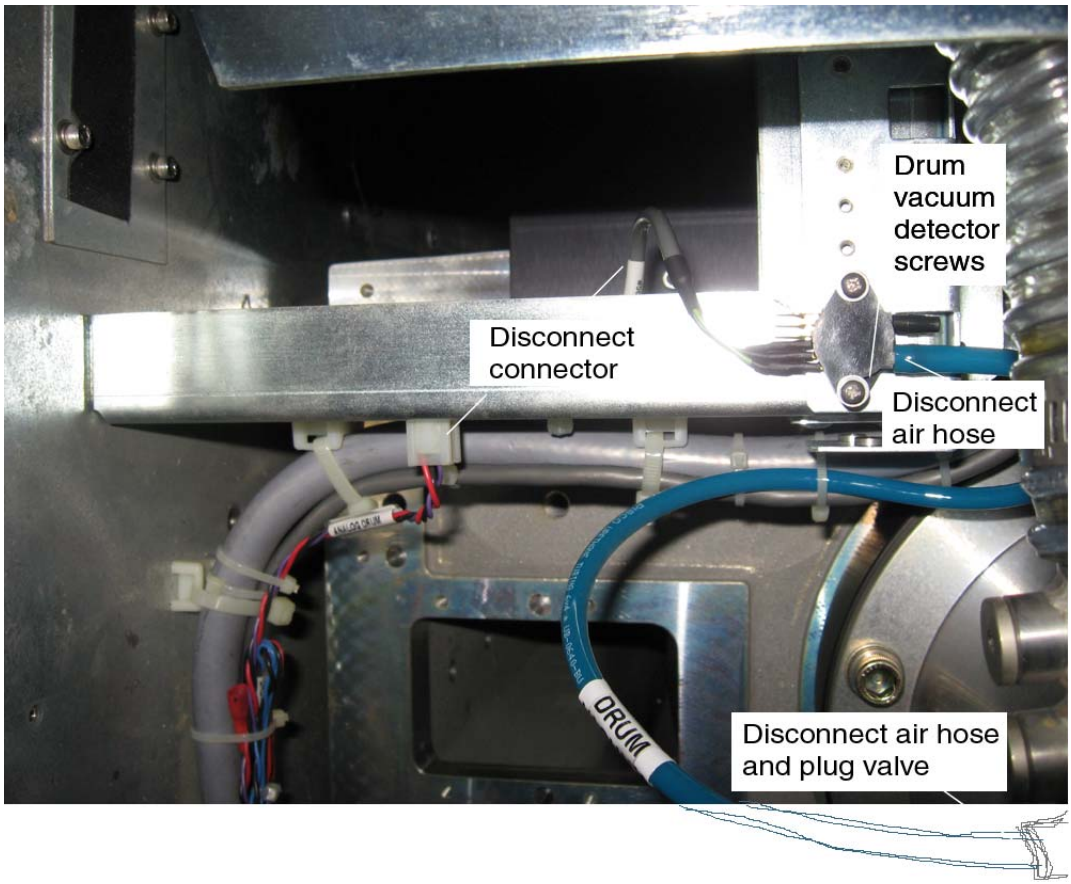


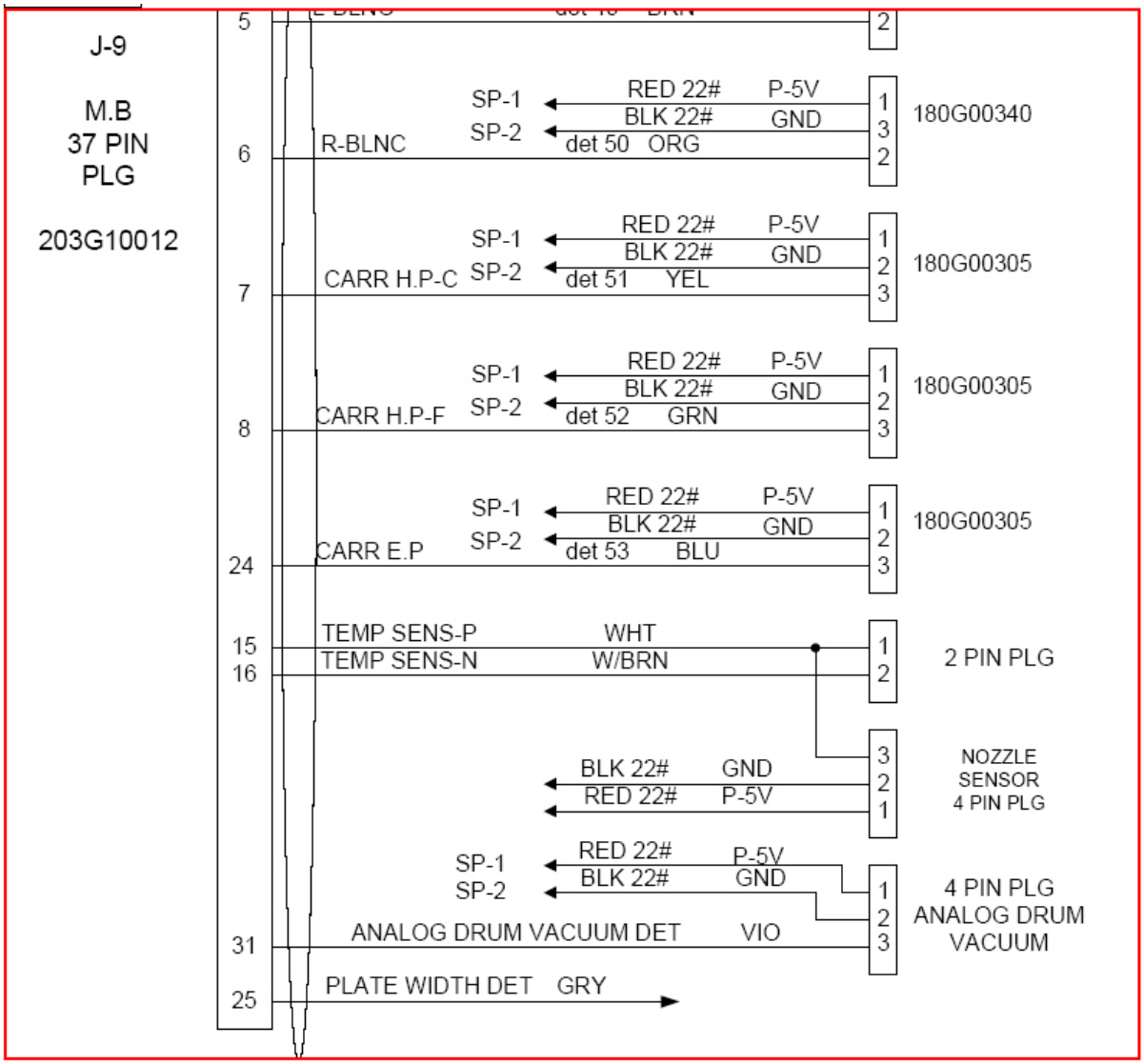
7. Open the left door and panel (for ThermoFlex Narrow) or the right door and panel (for ThermoFlex Mid II) and place the sensor under the drum motor.
8. Connect the blue tube to the vacuum sensor wiring.



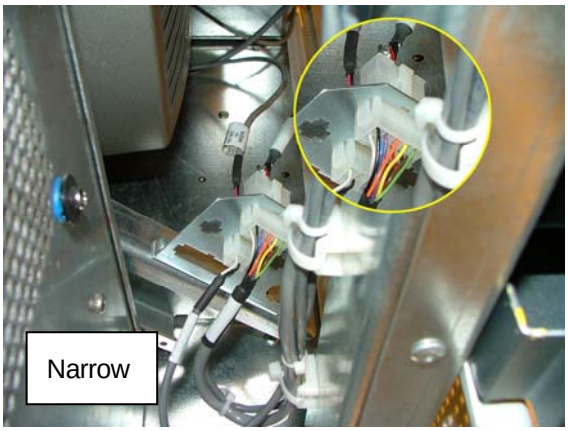
9. On the side of the platesetter where the drum vacuum is located, connect the vacuum sensor wiring molex to the free molex on the main machine harness.
    - Mid II and Narrow Hybrid—on the other side of the platesetter, if the offset option is *not* implemented, the side-to-side detector connector is free. Be careful not to connect the UDRC sensor to the side-to-side detector wiring. See the wiring diagram on page 6.

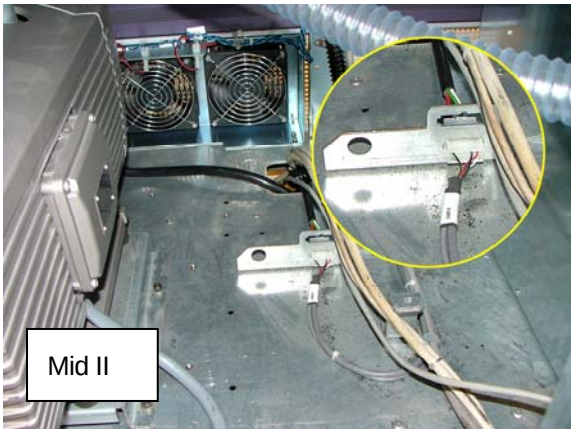
- Mid 4048—before you can connect the UDRC sensor, you must disconnect the drum vacuum detector (which is no longer necessary), as follows:
  a. Disconnect the blue air tube from the drum vacuum detector, and from the vacuum hose bracket.
  b. Use the plug that you removed in step 4 to close the outlet in the vacuum hose bracket.
  c. Disconnect the drum vacuum detector connector wiring from the molex on the main machine harness. You can now connect the UDRC sensor wiring connector.
  d. Open the two hex screws on the drum vacuum detector and remove the detector.



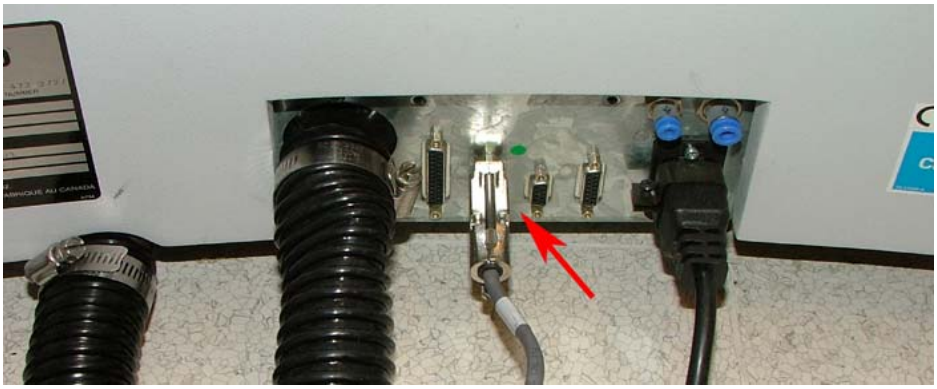

J-9
M.B
37 PIN
PLG
203G10012
5
6
7
8
24
15
16
31
25
SP-1
SP-2
RED 22#
BLK 22#
P-5V
GND
R-BLNC
det 50 ORG
180G00340
CARR H.P-C
det 51 YEL
180G00305
CARR H.P-F
det 52 GRN
180G00305
CARR E.P
det 53 BLU
180G00305
TEMP SENS-P
TEMP SENS-N
WHT
W/BRN
2 PIN PLG
NOZZLE
SENSOR
4 PIN PLG
ANALOG DRUM VACUUM DET
VIO
4 PIN PLG
ANALOG DRUM
VACUUM
PLATE WIDTH DET GRY

10. Route the sensor wiring and tube along the harness and secure them with cable ties.
11. Open the left side door (for ThermoFlex Narrow) or the rear panel (for ThermoFlex Mid II).
12. Disconnect the UDRC cable from the platesetter and connect the UDRC cable from the kit (part number 220-01463A) to the platesetter.





13. Disconnect the UDRC cable from the UDRC and then connect the free end of the UDRC cable that you connected to the platesetter in step 12 to the UDRC.



14. For ThemoFlex Narrow 2630, Mid 4045 and Mid 4048 devices only, make the following wiring change in the L-box. For all other devices, proceed to step 15.

    Important: To avoid exposure to hazardous laser radiation, you must take all precautions to disconnect the power, as described in steps 14a-14c.

    a. Access the L-box, then exit ThermoFlex Controller and turn off the platesetter.

    b. Unplug the power cord from the wall socket.

    c. On the L-box, turn the power switch to OFF.

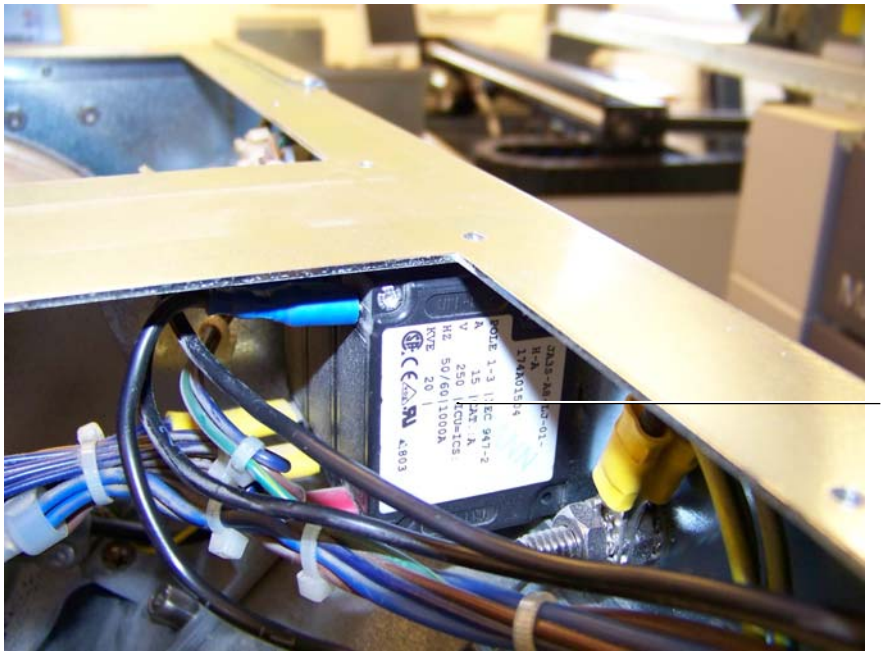
d. When you have disconnected the power, open the two hex screws and pull the L-box out so that you can access its cover.

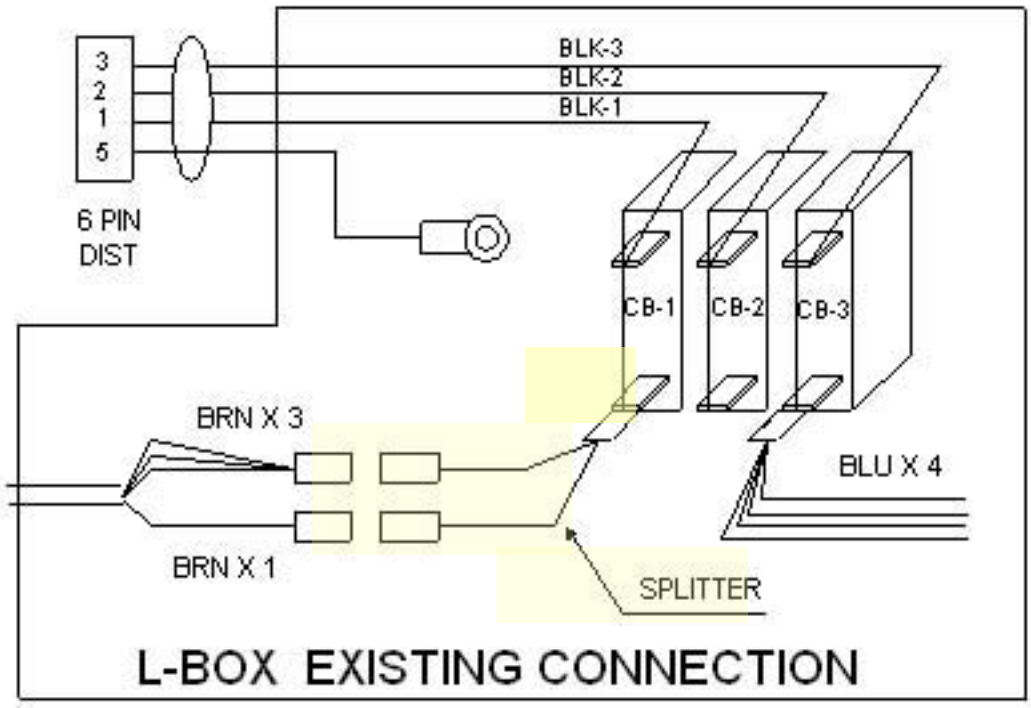


e. On the top of the L-box, on each of the metal plates, remove the ten crosshead screws and remove the metal plates.



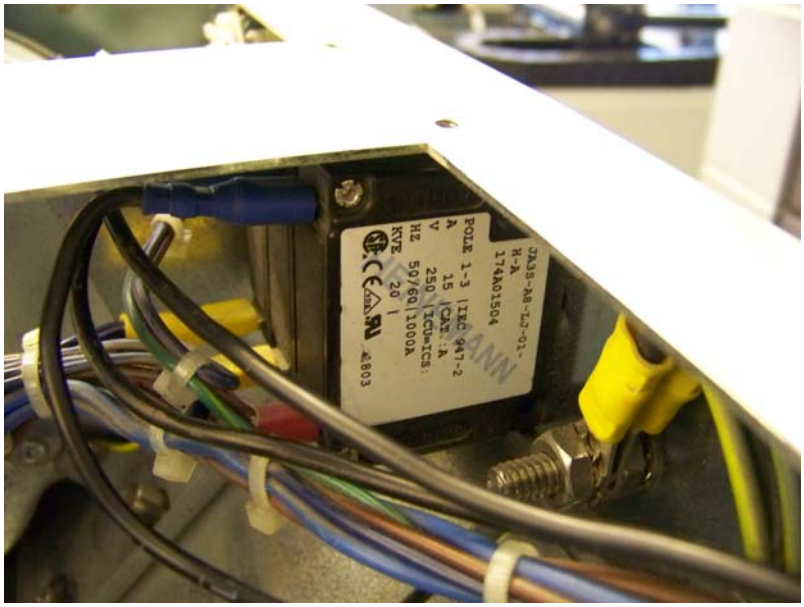
f. On the circuit breaker, disconnect the splitter. (You can throw away the splitter.)

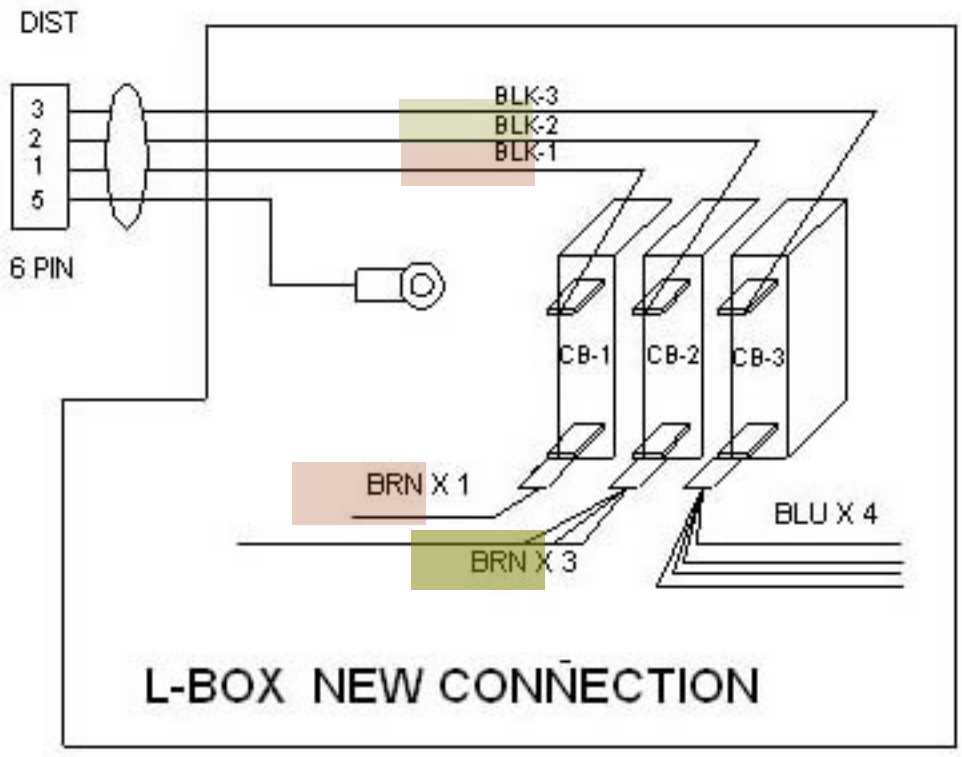




g. Connect the wiring that was connected to the splitter as follows:

- Single brown wire to the connection facing the black (BLK-1) wire.
- Three brown wires to the connection facing the black (BLK-2) wire.





15. Close all platesetter panels and doors.
16. If required, install the latest ThermoFlex Controller version that supports the UDRC sensor.

    Note: The FCO kit includes both versions. See the version 2.02.354.005 for Windows XP and version 1.32.350.004 for Windows 95 release notes.
17. Update the ThermoFlex Controller UDRC Installed parameter.
    a. In the registry, locate HKEY_LOCAL_MACHINE\SOFTWARE\Scitex\Projects\LotemFlexo\Machine.
    b. Click **UDRC Installed** (NONE=0, UDRC_BP = 1, UDRC_LC = 2, UDRC_BF = 3, OTHER = 4).
    c. Select **1** or **3** according to the UDRC type.

Test

Expose a job and confirm the job produced the required image quality.

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 of the UDRC cable that you removed.
Technical contact	Viki Arviv
Date submitted	20 Dec 2007
Last updated	24 Jun 2008