

**MODIFICATION INSTRUCTIONS**  
**for the**  
***Kodak X-Omat 180 LP PROCESSOR***  
**Service Codes: 3227**

***Kodak X-Omat 180 LPS PROCESSOR***  
**Service Code: 3198**

**Modification No. 11**  
**Type 1 Required**

- Purpose:** To improve the PROCESSOR reliability by:
- changing the AC input voltage to the QUAD POWER SUPPLY to lower the temperature
  - installing a new QUAD POWER SUPPLY
  - installing new software to eliminate errors caused by mis-adjusted ENTRANCE DETECTOR SWITCHES
  - installing new STANDOFFS on the PROCESSOR INTERFACE CONNECTOR to minimize communication errors



**Important**

Use qualified personnel to install this modification.



HEALTH IMAGING

---

---

**PLEASE NOTE** The information contained herein is based on the experience and knowledge relating to the subject matter gained by Eastman Kodak Company prior to publication.

No patent license is granted by this information.

Eastman Kodak Company reserves the right to change this information without notice, and makes no warranty, express or implied, with respect to this information. Kodak shall not be liable for any loss or damage, including consequential or special damages, resulting from any use of this information, even if loss or damage is caused by Kodak's negligence or other fault.



This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

**Service Effects:** Make wiring changes to the wiring diagrams DIAGRAM PACKAGE, 1C7841.

**Special Requirements:** The 180 LP SORTER, if fitted, must have Modification No. 1, 1C7525.

**Serial Numbers:** 101-3999.....180 LP PROCESSOR  
10001-13499.....180 LPS PROCESSOR

**Installation Time:** Approximately 1.5 hours.

**Special Tools:**

- PORTABLE COMPUTER
- INTEFACE CABLE TL-4391

**Parts Status:** Available through Service Parts Management.

**Parts Requirements:** See table below.

MODIFICATION KIT 7C8702 includes:

Part No.	Description	Qty.
7C8295	MODIFICATION INSTRUCTIONS	1
955745	QUAD POWER SUPPLY	1
7C8704	WIRING KIT: <ul style="list-style-type: none"><li>• WIRE No. 13</li><li>• WIRE No. 14</li><li>• CONNECTOR J9 AND WIRING ASSEMBLY</li><li>• 17 TIE WRAPS</li></ul>	1
9B8473	SOFTWARE DOWNLOAD DISK, Version 2.25	1
918095	STANDOFF KIT	1
655272	HEATSINK COMPOUND PACKET	1

## Installing the new QUAD POWER SUPPLY



### Warning

Dangerous Voltage

- [1] De-energize the PROCESSOR.



### Note

If the PROCESSOR has a SORTER, remove the BIN ASSEMBLY.

- [2] Lift the TOP COVER.

- [3] Remove:

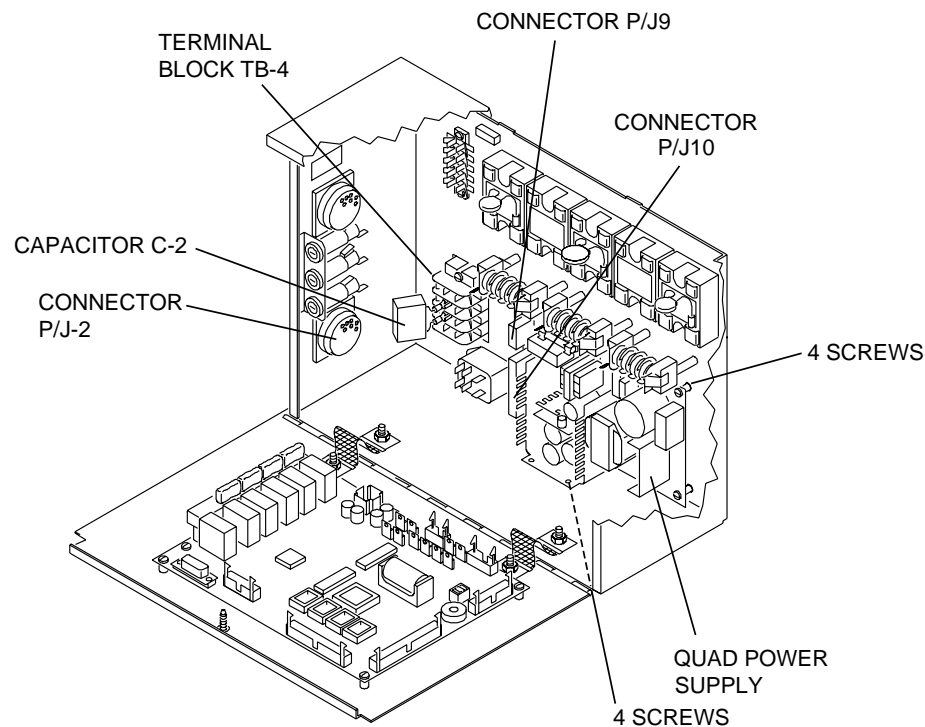
- DRIVE SIDE PANEL
- INTERFACE CABLE
- NON-DRIVE SIDE PANEL
- DRYER SIDE PANEL



### Note

**Optional:** The ELECTRICAL BOX can be removed from the PROCESSOR to do the following procedures.

- [4] Open the ELECTRICAL BOX.



H127\_0245HCC  
H127\_0245HC

- [5] Remove from the QUAD POWER SUPPLY:

- CONNECTORS J9 and J10
- 4 SCREWS inside the ELECTRICAL BOX that hold the POWER SUPPLY
- 4 SCREWS under the ELECTRICAL BOX that hold the POWER SUPPLY (SCREWS not shown.)

- [6] Remove and discard the QUAD POWER SUPPLY. (QUAD POWER SUPPLY has been damaged by heat.)



### Important

All the old HEATSINK COMPOUND must be removed for correct contact.

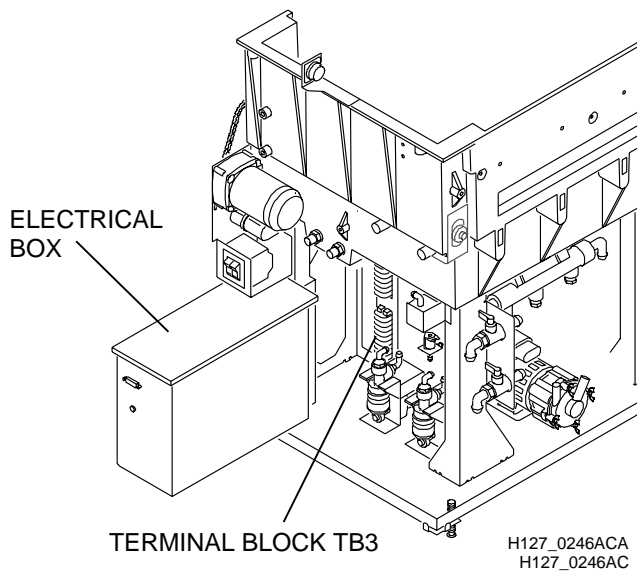
- [7] Clean the old HEATSINK COMPOUND from inside the ELECTRICAL BOX.
- [8] Apply a thin layer of the new HEATSINK COMPOUND to the surface of the new QUAD POWER SUPPLY. Make sure the surface is covered with the COMPOUND.
- [9] Install:
  - new QUAD POWER SUPPLY in the ELECTRICAL BOX
  - CONNECTOR J10 to the QUAD POWER SUPPLY



### Note

Do not install CONNECTOR J9 at this time.

## Installing the New 120 V AC WIRES Outside of the ELECTRICAL BOX



- [1] Locate the following COMPONENTS outside of the ELECTRICAL BOX:
  - TERMINAL BLOCK TB3, rotate the ELECTRICAL BOX to see the TERMINAL BLOCK
  - CONNECTOR J2  
(See illustration on Page 3.)
- [2] Disconnect J2 from the outside of the ELECTRICAL BOX.
- [3] Loosen the SCREWS for the STRAIN RELIEF on CONNECTOR J2.
- [4] Rotate the BODY of the CONNECTOR to disassemble.
- [5] Slide the STRAIN RELIEF backward to have access to the WIRE TERMINALS.
- [6] Install the new WIRE No. 14 on TERMINAL 4 of TERMINAL BLOCK TB3.



### Important

Press the SOCKET TERMINALS into CONNECTOR J2. The TERMINALS should snap into position.

- [7] Feed the SOCKET TERMINAL END of WIRE No. 14 through the STRAIN RELIEF.
- [8] Insert the SOCKET TERMINAL END of WIRE No. 14 into position 2 of CONNECTOR J2.
- [9] Install the new WIRE No. 13 on TERMINAL 8 of TERMINAL BLOCK TB3
- [10] Feed the SOCKET TERMINAL END of WIRE No. 13 through the STRAIN RELIEF.
- [11] Insert the SOCKET TERMINAL END of WIRE No. 13 into one of the following positions:

PROCESSOR	Serial No.	Position in J2 CONNECTOR
180 LP	below 3000	5
180 LPS	below 13000	
180 LP	3000 and above	16
180 LPS	13000 and above	

- 
- [12] Slide the STRAIN RELIEF forward.
- [13] Rotate to assemble the BODY onto the CONNECTOR.
- [14] Tighten the SCREWS for the STRAIN RELIEF.
- [15] Fasten the new WIRES to the PROCESSOR HARNESS with the TIE WRAPS provided.
- 

## Removing the Old 240 V AC WIRES and CAPACITOR from the Inside of the ELECTRICAL BOX

- [1] Locate the following COMPONENTS inside the ELECTRICAL BOX: (See the illustration on Page 3.)
- TERMINAL BLOCK TB4
  - CAPACITOR C2
  - CONNECTOR J9
- [2] Cut the WIRE TIES to remove the J9 WIRES from the HARNESS.

### Note

Note the position of the GROUND WIRES, STAR WASHERS, and NUT to assemble later.

- [3] Disconnect the yellow/green J9 GROUND WIRE from the GROUNDING STUD.
- [4] Remove:
- J9 WIRE No. 35 from TERMINAL 2 of TB4
  - J9 WIRE No. 36 from TERMINAL 3 of TB4
- [5] Discard the old CONNECTOR J9 and WIRING ASSEMBLY
- [6] Remove CAPACITOR C2 from TERMINALS 2 and 3 on TB4 and discard the CAPACITOR.
- 

## Installing the New WIRES Inside of the ELECTRICAL BOX

- [1] Locate following COMPONENTS inside the ELECTRICAL BOX: (See the illustration on Page 3.)
- CONNECTOR P2
  - QUAD POWER SUPPLY
- [2] Insert the PIN TERMINAL END of WIRE No. 14 from the new CONNECTOR J9 and WIRING ASSEMBLY, into position 2 of CONNECTOR P2.
- [3] Insert the PIN TERMINAL END of WIRE No. 13 from the new CONNECTOR J9 and WIRING ASSEMBLY, into one of the following positions of CONNECTOR P2:

PROCESSOR	Serial No.	Position in P2 CONNECTOR
180 LP	below 3000	5
180 LPS	below 13000	
180 LP	3000 and above	16
180 LPS	13000 and above	



### Important

The GROUND WIRES, STAR WASHERS, and NUT must be installed in the correct sequence.

[4] Install on the GROUNDING STUD:

- STAR WASHER
- existing yellow/green WIRE
- yellow/green GROUND WIRE for CONNECTOR J9
- STAR WASHER
- NUT, and tighten

[5] Install CONNECTOR J9 to the QUAD POWER SUPPLY.

[6] Fasten the wires to the HARNESS with TIE WRAPS.

[7] Close the ELECTRICAL BOX.

[8] Install CONNECTOR J2 to P2 on the outside of the ELECTRICAL BOX.

---

## Removing the ACTUATOR MAGNETS from the ENTRANCE DETECTOR RACK

[1] Remove the ENTRANCE DETECTOR RACK.

[2] Remove and discard:

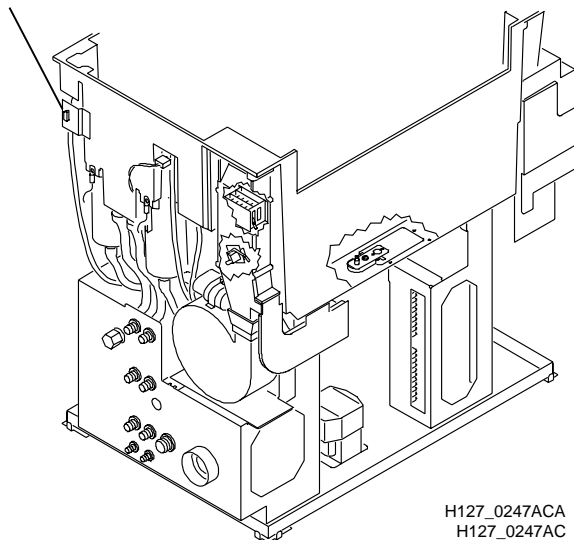
- 2 SCREWS
- 2 LOCKWASHERS
- 2 FLAT WASHERS
- 2 ACTUATOR MAGNETS

[3] Install the ENTRANCE DETECTOR RACK.

---

## Installing the STANDOFF SCREWS on the PROCESSOR CONNECTOR P29

CONNECTOR P29



[1] Locate CONNECTOR P29 on the NON DRIVE SIDE of the PROCESSOR.

[2] Remove and discard the old:

- 2 STANDOFF SCREWS
- 2 LOCKWASHERS

[3] Open the STANDOFF KIT and discard:

- 2 WASHERS
- 2 NUTS

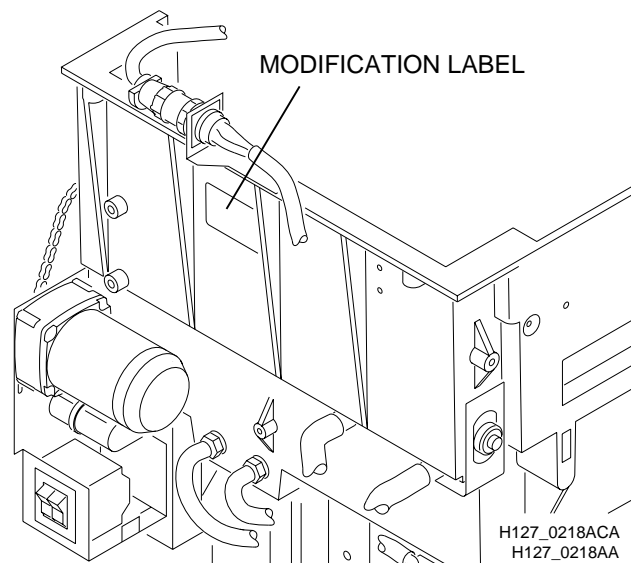
[4] Install and tighten the new STANDOFF SCREWS. (No WASHERS are used.)

---

## Installing the New Operating Software

[1] Install the new Operating Software Version 2.25. See the Instructions included with the DISK.

## Completing the Modification



- [1] Circle "11" on the MODIFICATION LABEL.
- [2] Install:
  - DRIVE SIDE PANEL
  - NON DRIVE SIDE PANEL
  - DRYER SIDE PANEL
- [3] Connect the INTERFACE CABLE for the PRINTER to CONNECTOR P29.
- [4] Close the TOP COVER.
- [5] Install the BIN ASSEMBLY if necessary.
- [6] Energize the PROCESSOR
- [7] Check for correct operation of the PROCESSOR.

## Publication History

Print Date	Pub No.	ECO No.	Affected Pages	File Name	Notes
15APR98	7C8295	2619-167	All	ma3227_7_15apr98.doc	First printing.

*Kodak and X-Omat are trademarks.*

