



# SERVICE BULLETIN

---

## KODAK X-OMAT Processor

---

Eastman Kodak Company, Health Imaging, Rochester, New York 14650

SERVICE BULLETIN NO. 258

November 1997

**3058 KODAK X-OMAT Multiloader 300**  
**3059 KODAK X-OMAT 270 RA Processor**  
**3227 KODAK X-OMAT 180 LP Processor**  
**3198 KODAK X-OMAT 180 LPS Processor**

### Type 1 Required Mod Kit Available

**Mod No. 37 for the KODAK X-OMAT Multiloader 300**

**Mod No. 22 for the KODAK X-OMAT 270 RA Processor**

**Mod No. 9 for the KODAK X-OMAT 180 LP and**  
**KODAK X-OMAT 180 LPS Processors**

#### **Note**

This Mod has been available in limited quantities since March 1997, but was not announced in a Service Bulletin. The purpose for this Mod is to improve the reliability of the Film Transport through the FIXER/ WASH CROSSOVERS.

- The replacement CROSSOVER PHENOLIC ROLLER has a steel-core, which significantly reduces swelling, binding, and possible film transport problems. The mating RUBBER ROLLER is being replaced because the new ROLLERS are not interchangeable with the existing ROLLERS, and therefore, must be replaced as a set. New BEARINGS and E-RINGS are also supplied.
- At the request of our field partners, the latest Operating Software download disks are being supplied along with the Mod. This gives the field a convenient method to update Processors to the latest Software without making a special trip. It is not necessary to download the Software to complete this Mod. The software is included only as a convenience, and loading it is optional.

#### **Note**

In December 1997 or January 1998, Version 2.25 software is expected to be available for the *Kodak X-Omat* 180 LP and the *Kodak X-Omat* 180 LPS Processors. This will be a required upgrade. You may elect to wait for this newer version and not download 2.24 software at this time.

This is a Type 1 Required Modification, which must be done to all Processors in the following serial number range:

|                                       |  |
|---------------------------------------|--|
| <i>Kodak X-Omat</i> 180 LP Processor  | 101 - 3640   |
| <i>Kodak X-Omat</i> 180 LPS Processor | 102 - 13320  |
| <i>Kodak X-Omat</i> Multiloader 300   | 101 - 1610<br>(serial number is for the Processor) |
| <i>Kodak X-Omat</i> 270 RA Processor  | 101 - 2495   |

Order Modification Kit, Part No. 9B8447, which is now available from Service Parts Management. This kit will be available at no cost for a period of 6 months.

In order to install the software, you will need the following tools:

- Portable Computer
- INTERFACE CABLE, TL-4391

## **Revision To The Installation Instructions, Publication No. 8B7489**

### **Mod No. 35 for the *KODAK X-OMAT* Multiloader 300**

### **Mod No. 21 for the *KODAK X-OMAT* 270 RA Processor**

### **Mod No. 8 for the *KODAK X-OMAT* 180 LP Processor**

Some of the Processors in the serial number range specified for this Modification have a new water distribution similar to the *Kodak X-Omat* 3000 RA Processor, which does not use a YOKE and PIN ASSEMBLY.

When installing the Modification, if the Processor has the new water distribution system, discard the YOKE and PIN ASSEMBLY supplied with the kit, and skip the steps on Page 3 of the Installation Instructions that refer to the YOKE and PIN ASSEMBLY.

The Installation Instructions will be revised at the next printing to reflect this change.

## **Wiring Harness**

### ***KODAK X-OMAT* 180 LP and 180 LPS Processors**

Starting with the *Kodak X-Omat* 180 LP Processor, serial number 3000 and the *Kodak X-Omat* 180 LPS Processor, serial number 13,000 the wiring configuration was changed for CONNECTOR P/J2. The high current carrying wires were re-configured to improve the heat distribution within the CONNECTOR. This means that the early and late ELECTRICAL BOXES and AC INTERNAL and AC EXTERNAL HARNESSES are not interchangeable. If they are interchanged, severe damage will result.

Whenever an ELECTRICAL BOX or an AC INTERNAL or an AC EXTERNAL WIRING HARNESS is being replaced, proceed as follows:

#### **Note**

If it is necessary to rewire the CONNECTOR, use PIN REMOVAL TOOL TL-1580

- Check the serial number of the Processor, and make sure that the wiring of the J2 CONNECTOR of the AC EXTERNAL WIRING HARNESS is wired for that serial number according to the Wiring Diagram, Publication No. 1C7481, dated February 1996, in the Service Binder.
- Check the wiring of the P2 CONNECTOR of the ELECTRICAL BOX for the AC INTERNAL HARNESS, and wire it to match the J2 CONNECTOR on the HARNESS.

This will insure that the AC EXTERNAL HARNESS wiring configuration will always be correct for the serial number of the Processor.

## **Developer and Fixer Rack Gear Problem**

### **KODAK X-OMAT 270 RA and**

### **KODAK X-OMAT 180 LP and 180 LPS Processors**

A small number of GEAR-GUDGEONS, Part No. 594291, which had an undetected manufacturing defect, may have been installed into some Processors before the problem was discovered.

The GEAR-GRUDGEON is supposed to “snap” into position on the “H” ROLLER, of the DEVELOPER or FIXER RACK. The defective GEAR-GUDGEONS do not fully snap into position. The result is that the GEAR-GUDGEON can move out of position and lose drive, which could result in a film jam or film artifact.

If you are experiencing problems with this part, order a new GEAR-GUDGEON, Part No. 594291, and replace it on the “H” ROLLER. Snap the GEAR-GUDGEON into position, and then pull on it to be sure that it is firmly in position.

## **KODAK X-OMAT 180 LP Sorter Kit Manual**

The last printing of the *Kodak X-Omat 180 LP Sorter Kit Manual*, Publication No. 1C7833, dated July 1995, is missing two pages. The missing pages are Page 1-21 and 1-22. In some cases you may find an extra set of Pages 1-23 and 1-24. This will be corrected in the next printing.

In the meantime you will still be able to complete the installation because the information on the missing page 1-21, is also shown in Figure 1-23 on Page 1-20. Similarly, the information on the missing Page 1-22, is also shown in Figure 1-27 on Page 1-23.

## **Kodak X-Omat 180 LP and Kodak X-Omat 180 LPS Processors, Level Sensors**

Some *Kodak X-Omat* 180 LP and 180 LPS Processors may have had incorrectly assembled LEVEL SENSOR PROBES installed. The WASHER and the PROBE WIRE were reversed. When assembled incorrectly the WIRE may make intermittent or no contact with the PROBE. Also there may be evidence of some chemical leakage around the SCREW hole in the TANK.

You will get an E032 error (Developer Tank Fill) or an E033 error (Fixer Tank Fill).

On your next regularly scheduled visit, check the PROBE connection on all of the following units:

- *Kodak X-Omat* 180 LP Processor, serial numbers 3204 - 3523
- *Kodak X-Omat* 180 LPS Processor, serial numbers 13062 - 13240

Be sure that the WASHER and the PROBE WIRE are correctly installed. The correct sequence is detailed in the Plumbing Section of the Adjustments and Replacements Manual, Publication No. 1C7837. The WASHER is installed first with the GASKET side of the WASHER against the TANK, and then the PROBE WIRE TERMINAL. The SCREW tightens against the TERMINAL.

Larry Weishaar  
Service Engineer  
Health Imaging

**For More Information:**

**U.S. Distributors Contact:**

Health Imaging  
Customer Support Operations  
1-800-336-4722

**CES Personnel Contact:**

Film Handling TAC  
U.S.: 1-800-822-1414  
Canada: 1-800-433-1414  
International: 716-724-4675

*Kodak, Ektascan, and X-Omat are trademarks.*

9B8931

