SERVICE BULLETIN

KODAK X-OMAT Processor

Eastman Kodak Company/Customer & Technical Services/Health Sciences Markets Division/Rochester, New York 14650

SERVICE BULLETIN NO. 206

Revised October 1994
Supercedes August 1994

Kodak X-Omat M43 Proceesor
Kodak X-Omat M43A Processor
Kodak X-Omat Clinic 1 Processor

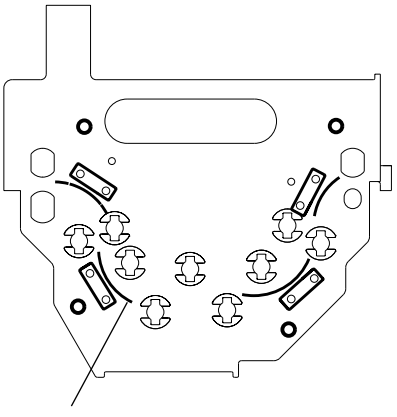
Announcement of the Availability of Modification No. 1

Modification 1 is a Type 1 selective modification. The purpose of the modification is to install a DC INTERLOCK SWITCH S6 to all pre-production processors. The modification kit will be available in September 1994 for all *X-Omat* M43A Processors and *X-Omat* Clinic 1 Processors having a serial number of 349 and below, and for all *X-Omat* M43 Processors that were manufactured before May 1994. To obtain Modification No. 1, order part number 1C7782 from Service Parts Management after September 1, 1994.

Guide Shoe Change in the Developer and Fixer Racks

The original GUIDE SHOE used in the DEVELOPER and FIXER RACKS may cause gouges in the adjacent ROLLER. A new GUIDE SHOE P/N 1C7448 is currently available in Service Parts Management. PROCESSORS using the old style GUIDE SHOE are listed below:

M43	Serial Numbers 220 and Below
M43A	Serial Numbers 223 and Below
Clinic 1	Serial Numbers 236 and Below



GUIDE SHOE P/N 1C0778
replaced by P/N 1C7448

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Changes Made to TOP COVER

A few changes to the TOP COVER have been made.

[1] The AC INTERLOCK SWITCH S5 ACTUATOR , that is molded into the TOP COVER, has been chamfered to prevent damage to the SWITCH S5. This change has been made on all PROCESSORS having a serial number above 350, and on any PROCESSOR with Mod. 1 installed. See publication number 1C7825 for details on installing Mod. 1. All TOP COVERS stocked in Service Parts Management have been modified.

[2] A MAGNET 963312 has been added to the interior side of the TOP COVER by the DRYER PLENUM. The MAGNET functions as the ACTUATOR for the DC INTERLOCK SWITCH S6 which was added to the M43, M43A, and Clinic 1 PROCESSORS in Mod. 1. If the PROCESSOR is energized with the TOP COVER installed, and remains in the Replenishment Check Mode, check that the MAGNET is correctly adhered to the TOP COVER.

[3] A *MYLAR* STRIP 1C7449 has been added to the FILM GUIDE BAR at the exit opening of the TOP COVER. The STRIP prevents film scratches that might occur as film exits the PROCESSOR. If at any point, you need to order a replacement FILM GUIDE BAR 918634, you will need to also order the new *MYLAR* STRIP.

Caution Against ESD When Replacing SOLID STATE RELAYS

Both the 100 CIRCUIT BOARD and the DC side of the SOLID STATE RELAY are susceptible to electro-static damage. To prevent electro-static damage, always wear an ESD protective wrist strap when installing a SOLID STATE RELAY.

METAL OXIDE VARISTOR (MOV) Malfunction Can Cause the Premature Malfunction of the 100 CIRCUIT BOARD

If the 100 CIRCUIT BOARD malfunctions and needs replacement, it is a good idea to also install new MOVs RV7 and RV8. RV7 is located between TB2-3 and TB2-2. RV8 is located between TB2-5 and TB2-1. To obtain replacement MOVs, order part number 943378 from Service Parts Management.

Installing METAL OXIDE VARISTORS (MOVs) on SOLID STATE RELAYS

Voltage fluctuations on incoming AC lines can cause the premature malfunction of 20 amp SOLID STATE RELAYS 655290 (formerly 991743) and 10 amp SOLID STATE RELAYS 991740, that are used in *Kodak X-Omat* M43, M43A, and Clinic 1 Processors.

To minimize malfunctions of the SOLID STATE RELAYS, install MOVs, on the AC side of all SOLID STATE RELAYS. Because repeated voltage surges will reduce the protection given by an MOV, do not remove an existing MOV and install it on a new SOLID STATE RELAY. **Always install new MOVs**. To obtain MOVs, order part number 943378 from Service Parts Management.

CAUTION

Possible damage from electrostatic discharge. SOLID STATE RELAYS should be regarded as ESD-sensitive devices. Take appropriate precautions when handling them and installing them.

To install an MOV on a SOLID STATE RELAY:

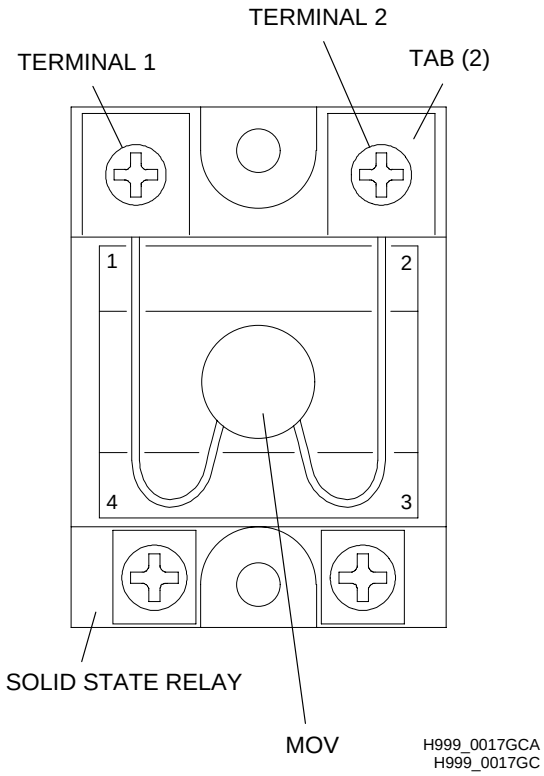
[1] Deenergize the processor.

[2] Loosen TERMINAL 1 and TERMINAL 2.

[3] Insert the 2 wires of the MOV and other appropriate processor wires under the TABS for TERMINAL 1 and TERMINAL 2.

[4] Tighten TERMINAL 1 and TERMINAL 2.

[5] Gently press the MOV toward the SOLID STATE RELAY.



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H999_0017GC

Repairing Cracks in the TANK

[1] Drill a small hole at the end of the cracked area in the TANK. Drilling the hole reduces the stress and lessens the possibility of the crack increasing in size.

[2] Enlarge the crack so that it forms a ''V'' shaped groove.

[3] Apply a bead of adhesive such as *3M Scotch* Weld #2216 B/A Epoxy or equivalent into the groove.

[4] Allow a minimum of 24 hours for the adhesive to dry.

[5] Use fine sand paper or emery cloth to remove any bumps or high spots in the newly repaired area of the TANK.

[6] Clean any debris from the TANK.

SCREW INSERTS Breaking Loose from the TANK Material

To remedy the problem of the SCREW INSERTS breaking loose from the TANK, do the following steps.

[1] Remove the old SCREW INSERT and the SCREW.

[2] Install a new SCREW INSERT onto the SCREW removed in the previous step.

NOTE

The new SCREW INSERTS are available in 3 types:

- #10-32, Through Hole — P/N 914909
- #10-32, Blind Hole — P/N 240824
- #6-32, — P/N 981880

IMPORTANT

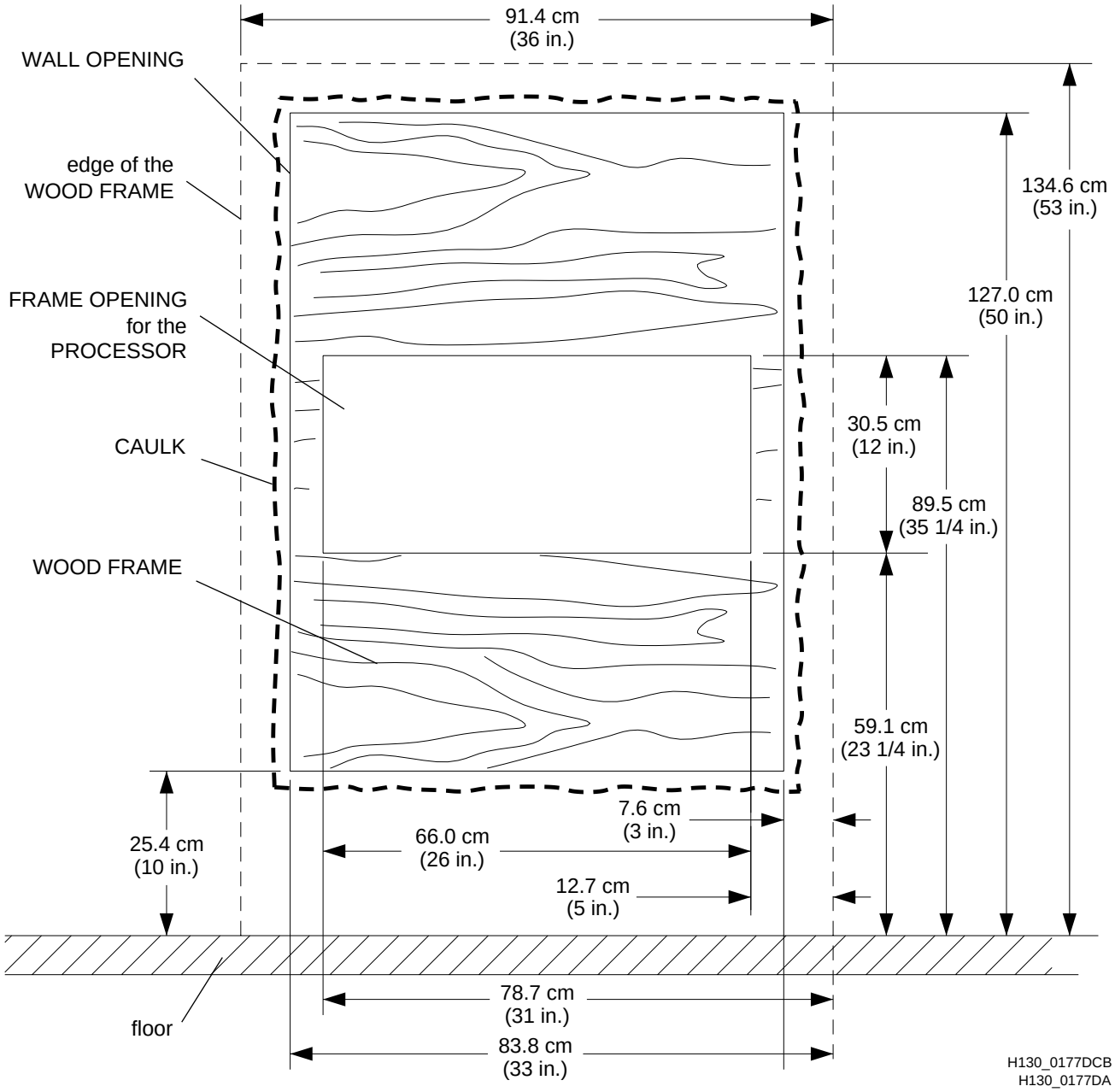
For a quick repair: use *Loctite* Super Bonder #415 or equivalent adhesive.
For a permanent repair: use *3M Scotch* Weld #2216 B/A Epoxy or equivalent adhesive. Allow a minimum of 24 hours for this adhesive to dry.

[3] Apply adhesive to the outside of the new SCREW INSERT.

[4] Push the new SCREW INSERT into its correct position.

Corrections Made to Preliminary Site Specifications and Installation Manuals

The ‘‘Through-the-Wall’’ installation specification illustration that appears as Figure 17 on page 20 of the Preliminary Site Specifications and as Figures 8 and 11 on pages 14 and 19 of the Preliminary Installation Instructions has been corrected. The corrected dimensions appear on the illustration below.



Securing the WASH INLET BAR

In the first 30 production units of the PROCESSORS, the WASH INLET BAR was secured to the TANK ASSEMBLY using a THREAD FORMING SCREW. It was discovered that after repeated removal of the WASH INLET BAR, the SCREW hole could become enlarged. If the hole becomes enlarged, do one of the following 3 procedures.

Solution 1

(1) Remove and discard the existing THREAD FORMING SCREW.
(2) Obtain a THREAD FORMING SCREW of a larger diameter.
(3) Use the new SCREW to install the WASH INLET BAR.

Solution 2

(1) Remove and keep the existing SCREW.
(2) Fill the SCREW hole with *3M Scotch* Weld #2216 B/A Epoxy or equivalent.
(3) Insert the existing SCREW into the SCREW hole filled with Epoxy.
(4) Allow the Epoxy to dry for 24 hours.
(5) Remove the existing SCREW.
(6) Use the existing SCREW to install the WASH INLET BAR.

Solution 3

(1) Remove and discard the existing SCREW.
(2) Drill and tap the SCREW hole.
(3) Insert a *Heli-Coil* into the SCREW hole.
(4) Install a STAINLESS MACHINE SCREW into the *Heli-Coil* to secure the WASH INLET BAR.

For more information, please contact:

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