

Mod No. 33

MODIFICATION INSTRUCTIONS
for the
***Kodak X-Omat* MULTILOADER 300**

Service Code: 3058

Type 1 Required

Purpose: To reduce the number of “DD” and “DE” errors by installing new DETECTOR SWITCH BRACKETS.



Important

Use qualified service personnel to install this modification.

Service Effects:	None
Special Requirements:	None
Serial Numbers:	101 - 1186 (Serial Number is for the Processor, not the Multiloader)
Installation Time:	approximately 1/2 hour
Special Tools:	Portable Computer Interface Cable, TL-4391 Diagnostic Diskette, Version 2.55, Part No. 5B6278
Parts Status:	Available in Service Parts Management
Parts Requirements:	See the Parts List on Page 2



HEALTH IMAGING

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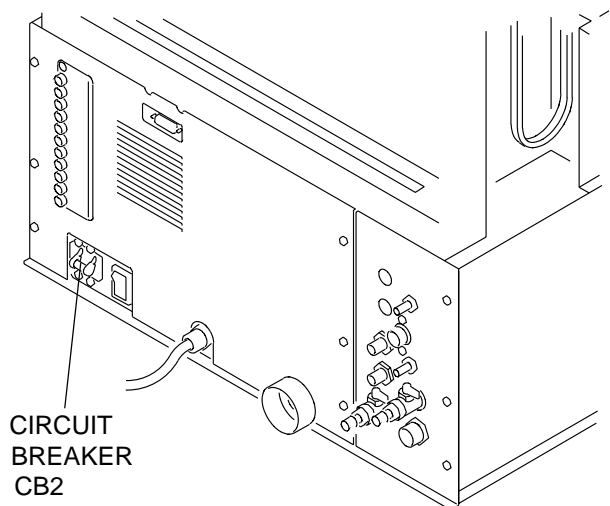


This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

Mod Kit No. 33, Part No. 9B8274, contains the following Parts:

Part No.	Description	Quantity
8B7216	BRACKET - Nondrive Side	1
8B7217	BRACKET - Drive Side (has an extra 1/4 in. hole identifier)	1
288235	NUT PLATE	2
9B8332	Mod Installation Instructions	1

Figure 1 De-energizing the PROCESSOR with CB2, on the back of the MULTILOADER



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Installing the New BRACKETS

- [1] De-energize the PROCESSOR, by moving the MAIN CIRCUIT BREAKER CB2 on the MULTILOADER to the “O” (off) position.
- [2] Extend the PROCESSOR from the MULTILOADER.
- [3] Remove the WET SECTION COVER.

Note

Early models of PROCESSORS have SWITCH PLATE ASSEMBLIES with an ADJUSTING SCREW. See Figure 2. Later PROCESSORS have another style of BRACKET without the ADJUSTING SCREW. See Figure 3.

- [4] Remove the existing DETECTOR SWITCH BRACKETS or the SWITCH PLATE ASSEMBLIES from the FILM DETECTOR HOUSING. Save the SCREWS and WASHERS.

Figure 2 **SWITCH PLATE ASSEMBLIES with ADJUSTMENT SCREWS on Early PROCESSORS**

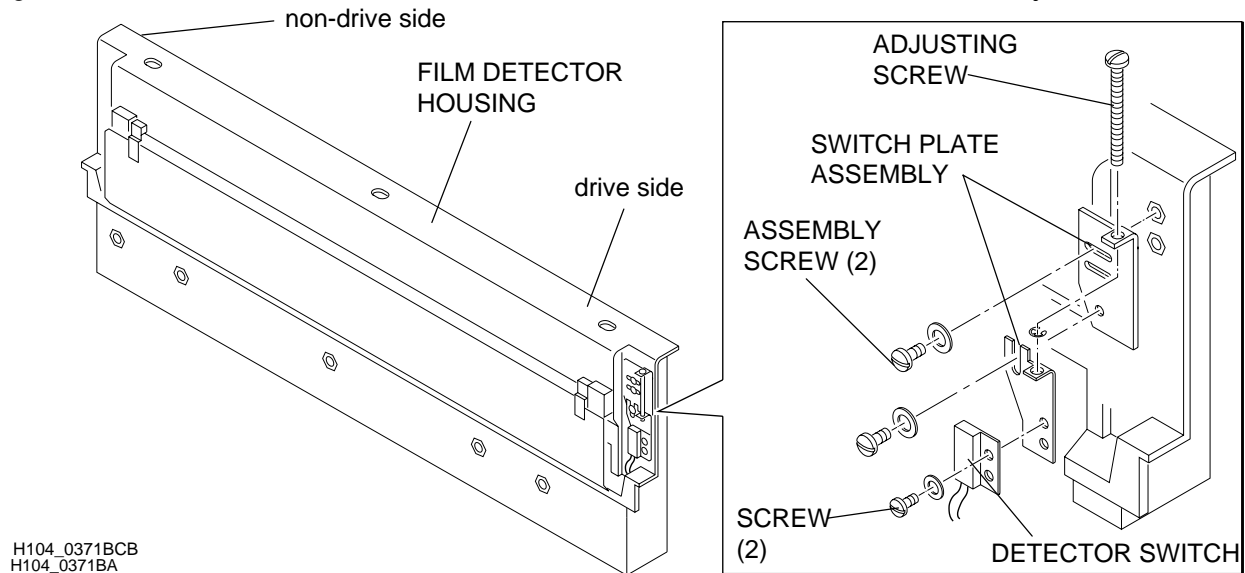
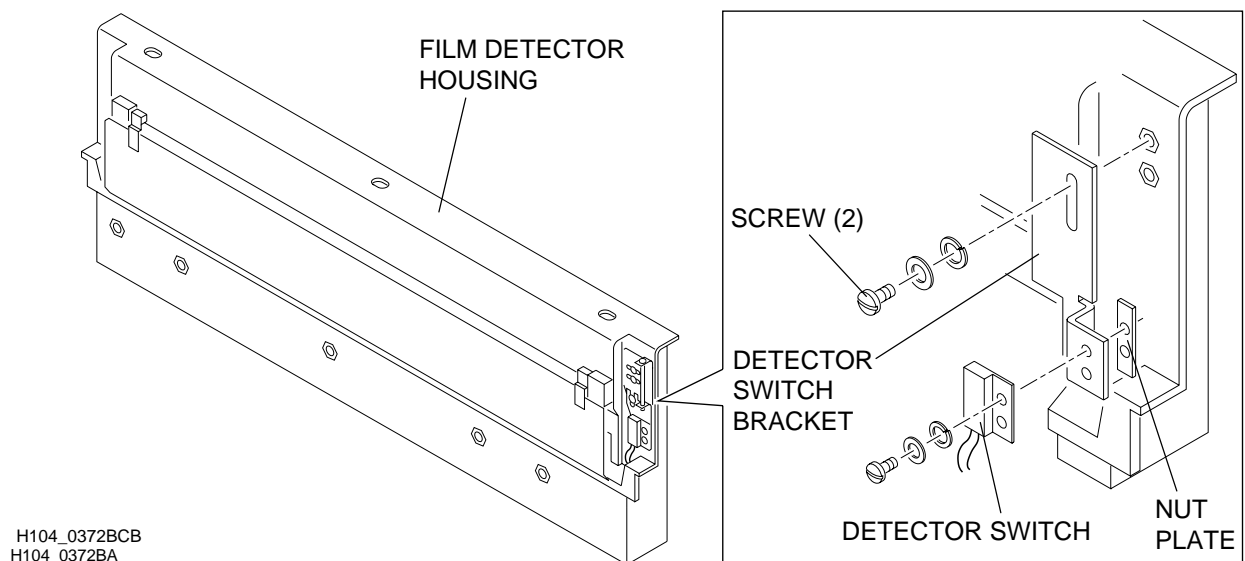


Figure 3 **Later Style BRACKETS**



- [5] Remove the DETECTOR SWITCHES from the BRACKETS or SWITCH PLATE ASSEMBLIES. Save the SWITCHES, SCREWS, and WASHERS. Discard the BRACKETS or SWITCH PLATE ASSEMBLIES.
- [6] Install the SWITCHES onto the new BRACKETS. Use the SCREWS and WASHERS removed in Step 5 and the NUT PLATES provided in the Mod Kit. See Figure 3 on Page 3.
- [7] Install the BRACKETS on the FILM DETECTOR HOUSING with the SCREWS and WASHERS removed in Step 4 on Page 3.
- [8] Check that the new BRACKETS do not press on the wires.
- [9] Adjust the Film DETECTOR SWITCHES, using the following procedure.

Adjusting the Film DETECTOR SWITCHES

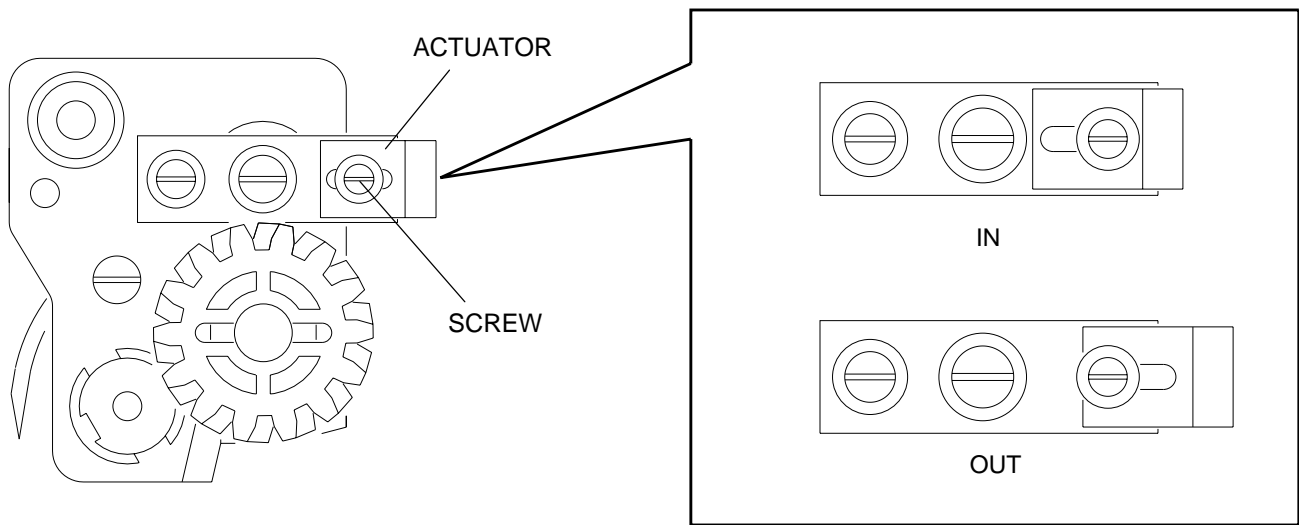


Important

Do all 3 adjustments to the film DETECTOR SWITCHES: adjusting the ACTUATORS, adjusting the SWITCHES from side to side, and adjusting the SWITCHES up and down.

Adjustment of the ACTUATORS

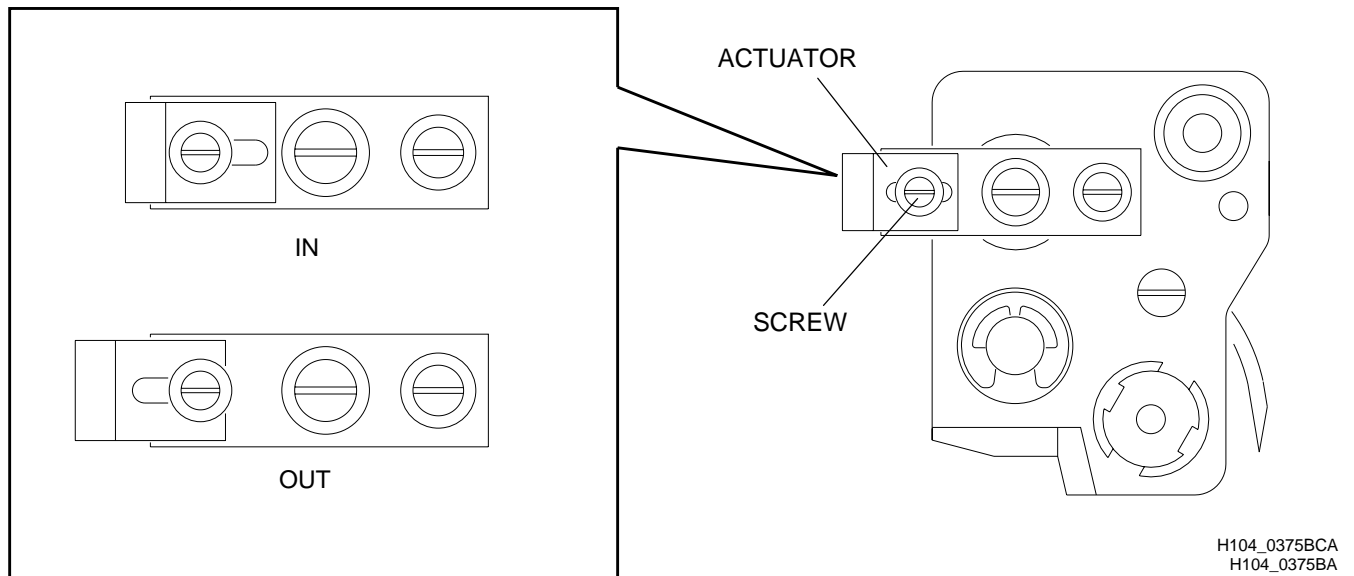
Figure 4 Adjusting the Position of the Drive Side ACTUATOR



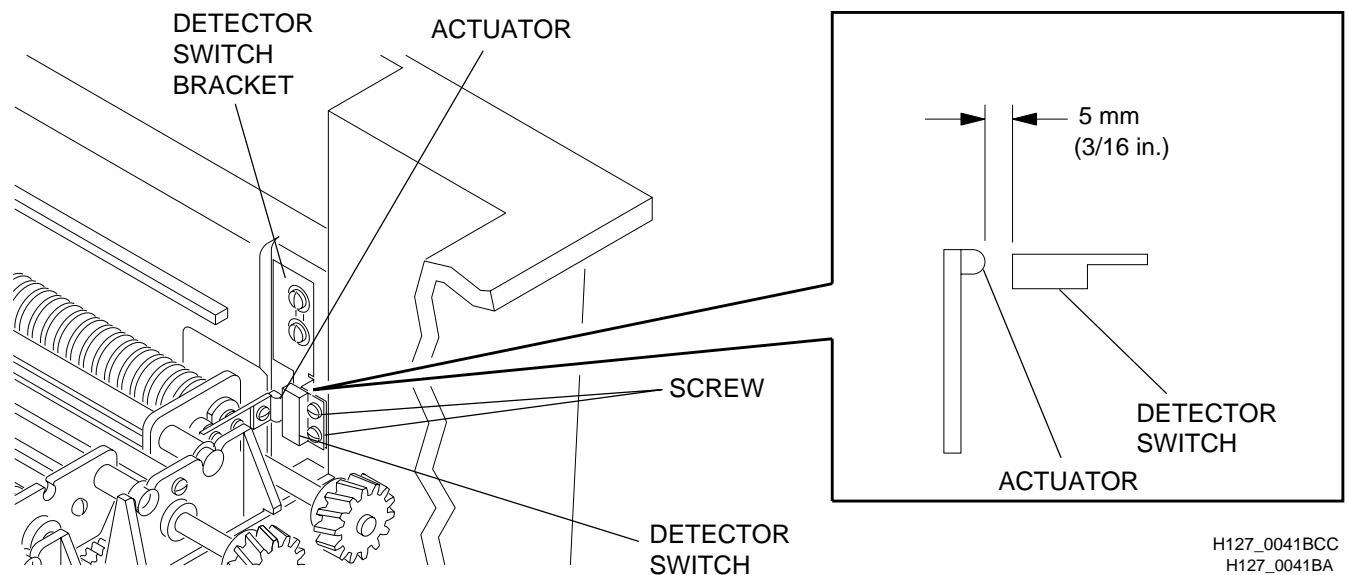
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- [1] Adjust the position of the drive side ACTUATOR.
 - (a) Place the DETECTOR CROSSOVER on a flat surface, with the drive side toward you.
 - (b) Check that the ACTUATOR is in the “IN” position. See Figure 4.
 - If the ACTUATOR is in the “OUT” position:
 1. Loosen the SCREW.
 2. Move the ACTUATOR to the “IN” position.
 3. Tighten the SCREW.
- [2] Check that the nondrive side ACTUATOR is in the “IN” position. See Figure 5 on Page 5.
- [3] Install the DETECTOR CROSSOVER in the PROCESSOR.

Figure 5 **Adjusting the Position of the Nondrive ACTUATOR**

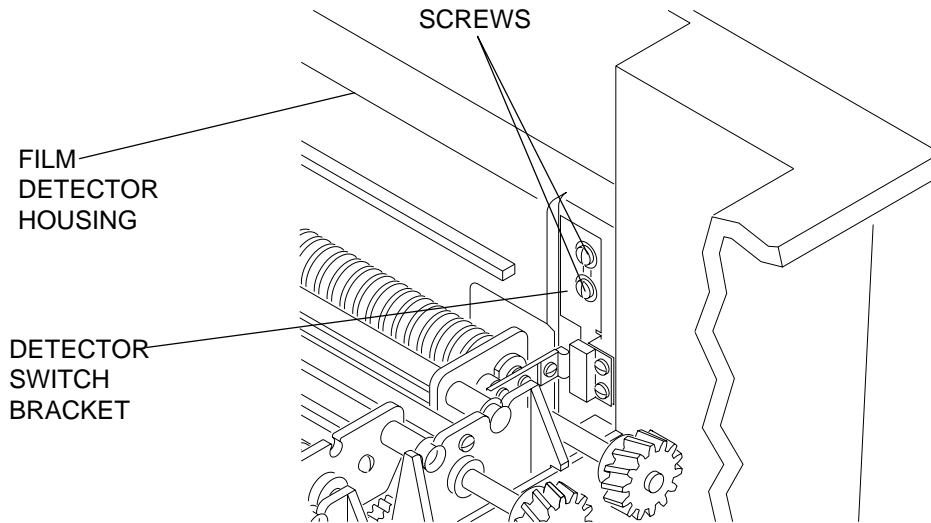


Adjusting the DETECTOR SWITCHES from Side to Side



- [4] Locate the drive side DETECTOR SWITCH.
- [5] Loosen the 2 SCREWS that hold the DETECTOR SWITCH to the DETECTOR SWITCH BRACKET.
- [6] Move the DETECTOR SWITCH until the DETECTOR SWITCH is 4 - 6 mm ($\frac{3}{16}$ - $\frac{1}{4}$ in.) from the edge of the ACTUATOR.
- [7] Check that the DETECTOR SWITCH remains in the vertical position.
- [8] Tighten the 2 SCREWS that hold the DETECTOR SWITCH to the DETECTOR SWITCH BRACKET.
- [9] Do Steps 5 - 8 again for the nondrive DETECTOR SWITCH.

Adjusting the DETECTOR SWITCHES Up and Down



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Note

Before you can adjust the height of the drive or nondrive side DETECTOR SWITCH, both DETECTOR SWITCHES must be moved to the highest position.

[10] On the drive side of the PROCESSOR, loosen the 2 SCREWS and move the BRACKET to the highest position.

[11] Do Step 10 on the nondrive side of the PROCESSOR.

[12] Energize the PROCESSOR.

[13] Connect the PORTABLE COMPUTER to the 15-pin DIAGNOSTIC CONNECTOR on the back of the MULTILOADER.

Note

See the User Instructions, Publication Part No. 699614, for the operation of the diagnostic procedures.

[14] Enter the "SPECIFIC TEST MODE" of the diagnostic program on the PORTABLE COMPUTER.

[15] Select the "PROCESSOR SENSOR TEST". The "PROCESSOR SENSOR TEST" will provide you with the status of the 2 film DETECTOR SWITCHES.

[16] Adjust the drive side DETECTOR SWITCH.

(a) Lift the top ENTRANCE DETECTOR ROLLER, and on the drive side of the PROCESSOR insert the 2.5 cm (1 in.) FILM STRIP between the ENTRANCE DETECTOR ROLLERS. See Figure 6 on the next page.

(b) Slowly, move the DETECTOR SWITCH BRACKET down until the PORTABLE COMPUTER displays a "Film detected" message.

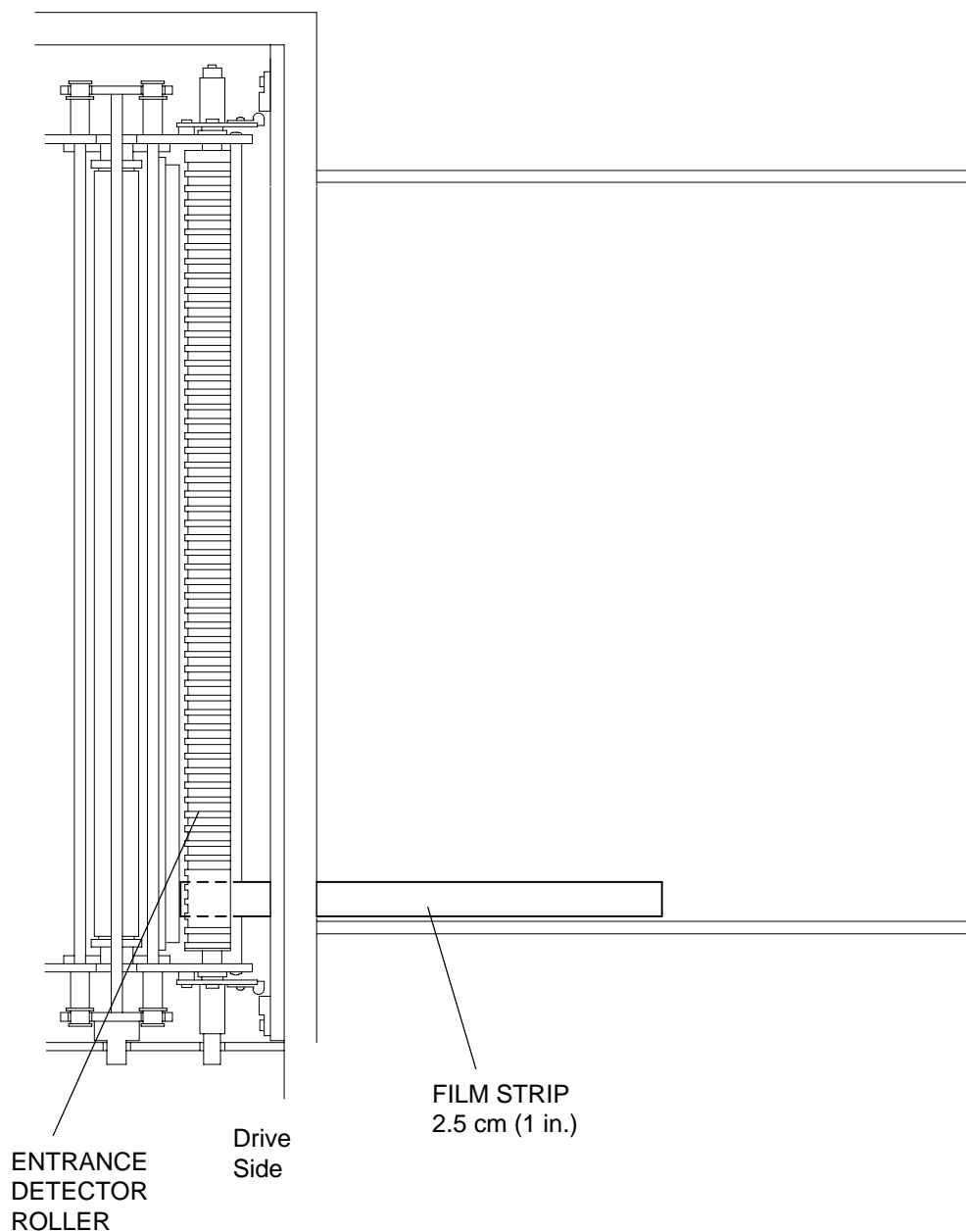
(c) Move the DETECTOR SWITCH BRACKET down approximately another 1 - 2 mm (approximately $\frac{1}{16}$ in.).

(d) Check that the DETECTOR SWITCH BRACKET remains in the vertical position.

(e) Carefully, tighten the 2 SCREWS to hold the DETECTOR SWITCH BRACKET in position.

[17] Do Step 16 on the nondrive side DETECTOR SWITCH. Insert the FILM STRIP on the nondrive side of the PROCESSOR.

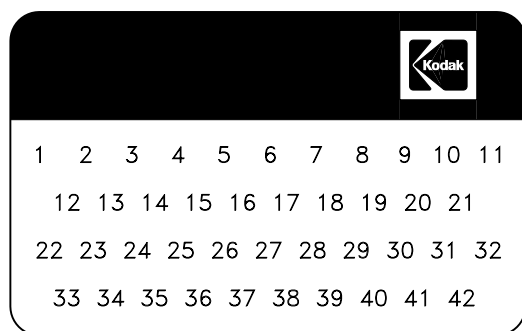
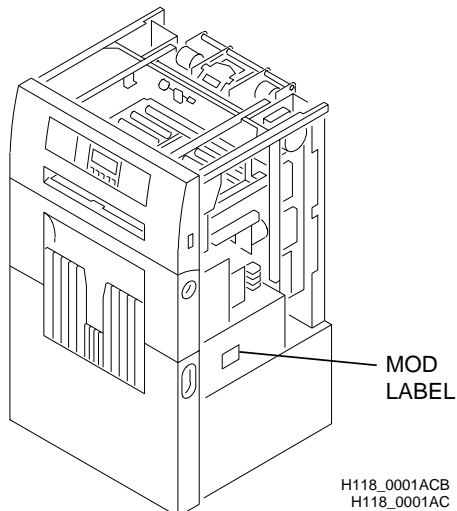
Figure 6 **Feeding the FILM STRIP Between the ENTRANCE DETECTOR ROLLERS**



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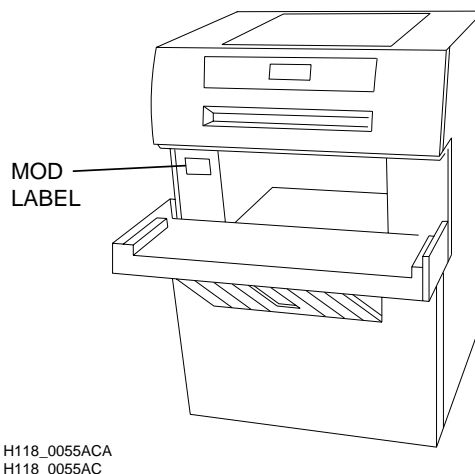
- [18] Remove all film from between the ENTRANCE DETECTOR ROLLERS.
- [19] Check that the message “No film detected” is displayed on the PORTABLE COMPUTER.
- [20] Lift the top ENTRANCE DETECTOR ROLLER, and on the drive side of the PROCESSOR insert the 2.5 cm (1 in.) FILM STRIP between the ENTRANCE DETECTOR ROLLERS. See Figure 6.
- [21] Check that the message “Film detected” is displayed on the PORTABLE COMPUTER.
- [22] Do Steps 18 through 21 again for the nondrive side of the PROCESSOR.
- [23] Do Steps 18 through 21 again for the center of the PROCESSOR.
- [24] If necessary, adjust the position of the DETECTOR SWITCHES again, starting on Page 4.
- [25] When the DETECTOR SWITCHES are adjusted correctly, disconnect the PORTABLE COMPUTER.

Figure 7 **MULTILOADERS 300 with Serial No. 1369 and Below**



Circle the “33” on the MOD LABEL.

Figure 8 **MULTILOADERS 300 with Serial No. 1370 and Above**



[26] Circle the “33” on the MOD LABEL.

- On MULTILOADERS Serial No. 1369 and below, see Figure 7.
- On MULTILOADERS Serial No. 1370 and above, the MOD LABEL is inside the MAGAZINE DOOR. See Figure 8.

[27] Install the WET SECTION COVER.

[28] Move the PROCESSOR into the MULTILoader.

[29] Energize the PROCESSOR.

[30] Check for correct operation and leakage.

Publication History

Print Date	Pub. No.	ECO No.	Affected Pages	File Name	Notes
JUN96	9B8332	2592-374	All	ma3058_33_01jun96.doc	New Modification Instructions

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