Polaroid

8 x 10 Film Processor

User Guide

HOW TO USE THE POLAROID 8 X 10 FILM PROCESSOR, THE FILM HOLDER MODEL 81-O6, AND THE LOADING TRAY MODEL 81-09

Introduction

Polaroid 8 x 10 photography provides a self-contained larger format instant photographic system. You need no darkroom, no chemical solutions and no time-consuming processing procedures. The Polaroid 8x10 film holder can be used on most 8 x 10 cameras that take standard 8 x 10 film holders, on specially adapted copy cameras and other cameras of extra large format, and on a variety of technical imaging devices.

The system described in this booklet consists of:

1. Polaroid 8 x 10 film.
2. The Polaroid 8 x 10 film holder Model 81-06.
3. The Polaroid 8 x 10 film processor.
4. The processor loading tray Model 81-09.

Please note that the film holder Model 81-06 **cannot** be used without both the processor and the loading tray Model 81-09, available separately. For the most up-to-date film information, see the Film Data sheets at www.polaroid.com (select *Customer Support)*.

Camera adaptation

To adapt cameras or imaging devices of extra large format for use with the Polaroid 8 x 10 film holder, some basic requirements must generally be met:

1. The film holder must be centered on the lens axis.
2. It must lie perpendicular to the lens axis.
3. The film must lie in the same plane in the camera as the ground glass screen at the time of focusing.

Power supply

The film processor should be operated only at the voltage indicated on each unit. Processors intended for use in the U.S. are designed for the 110-120 volt supply. For countries with a 220-240 volt supply, appropriate processors are provided.

A power cord is supplied with the processor. When not in use, the cord can be stored in the special recess in the base of the processor.

If electricity is not available, the processing rollers can be operated manually with the manual drive arm. Instructions for its use are packaged with it. A manual timer or stopwatch must also be used, because the electronic timer will not function.

Information and technical assistance

If you should require help with your Polaroid 8 x 10 film system, or if you have any other photographic problem, please call us toll free from within the U.S. at 1-800-225-1618, Monday to Friday, 8 a.m. to 8 p.m. Eastern Time. Outside the U.S.A., please contact the Polaroid office nearest you.

Underwriters' Laboratories, Inc. (UL) requires that the following safety information be provided in the U.S.

IMPORTANT SAFEGUARDS

AS WITH ANY ELECTRICALLY OPERATED EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD BE OBSERVED IN THE USE OF THE POLAROID 8 X10 FILM PROCESSOR. THESE ARE PROVIDED AS A REMINDER:

1. FOLLOW ALL INSTRUCTIONS.
2. DO NOT LEAVE UNIT UNATTENDED WHILE IN USE.
3. IF UNIT WILL NOT BE USED FOR EXTENDED PERIOD OF TIME, UNPLUG FROM ELECTRICAL OUTLET. GRASP PLUG, NOT CORD, AND PULL TO DISCONNECT FROM OUTLET.
4. DO NOT OPERATE UNIT WITH DAMAGED CORD OR UNIT WHICH HAS BEEN DROPPED OR DAMAGED, UNTIL IT HAS BEEN EXAMINED BY AUTHORIZED SERVICE REPRESENTATIVE.
5. DO NOT LET CORD HANG OVER FRONT EDGE OF TABLE OR COUNTER OR TOUCH HOT SURFACES.
6. UNIT MUST BE GROUNDED. POWER CORD HAS THREE-PRONGED GROUNDING PLUG, WHICH MUST BE PLUGGED INTO APPROPRIATE OUTLET. DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE GROUND PRONG FROM PLUG.
7. IF EXTENSION CORD IS NEEDED, USE GROUNDED CORD WITH SUITABLE CURRENT RATING. CORDS RATED FOR LOWER AMPERAGE THAN UNIT MAY OVERHEAT. ARRANGE CORD SO THAT IT WILL NOT BE TRIPPED OVER OR PULLED.
8. TO AVOID ELECTRIC SHOCK HAZARDS, DO NOT ATTEMPT TO DISASSEMBLE UNIT. FOR SERVICE OR REPAIR WORK, CONSULT AN AUTHORIZED POLAROID SERVICE CENTER. INCORRECT REASSEMBLY CAN CAUSE ELECTRICAL SHOCK HAZARD WHEN APPLIANCE IS USED SUBSEQUENTLY. DO NOT IMMERSE UNIT IN WATER OR OTHER FLUIDS. DO NOT OPERATE UNIT NEAR WATER OR WITH WET HANDS.

The Polaroid 8 x 10 System

Please see the photos at the back of the booklet.

The film holder Model 81-06

A. Buttons, to unlatch holder
B. Dark slide (partly removed)
C. Dark slide handle
D. Dark slide stop line
E. Orange tongue, to secure negative envelope
F. Negative guide lines
G. Felt strips (light seal)

The film processor

H. Processing timer
L. Loading tray insertion slot
K. Process button
L. Processing compartment (extended)
M. Lid for processing compartment (partly open)
N. Roller assembly (removable unit)
O. Latches for roller assembly
P. Roller access lid
Q. Processing rollers
R. Location for manual drive arm

The processor loading tray Model 81-09

S. Positive sheet insertion slot
T. Film holder insertion slot

The numbers throughout the text refer to illustrations at the back of the booklet.

Set up the equipment

When the processor is in its operating position, it will extend about 30 inches (75 cm) front to back. Select a working surface which is deep enough. Be sure you also have enough space to hold the negative and positive film containers, and for loading the film holder.

Place the processor so that its insertion slot is facing toward you and is about level with the front edge of the table (fig. **1**). Plug the power cord in at the rear of the processor (fig. **2**) and into the power supply socket. Swing back the processing compartment and its lid (fig. **3**). The opened compartment must lie **horizontally,** as shown, so be sure there is no obstruction behind the processor which might prevent this.

If your processor is new, and has not been used before, you must insert the processing roller assembly, which is packaged separately. Carefully lower the rollers into the well in the processor (fig. **4**). Lower the side near the timer into place first (fig. **5**); the assembly will fit only when the circular hole is aligned with the circular pin. Then lower the right side. When the assembly is seated properly, lock it in place by pushing back the two latches (fig. **6**). Be sure the roller access lid is seated properly (fig. **7**).

Hold the processor loading tray in front of the processor in the way shown (fig. **8**). Insert the tray into the processor, easing it in gently as far as it will go. It will then sit snugly against the front edge of the processor (fig. **9**).

The processor is now ready for operation.

Locate the processor in an area that is in subdued lighting. Also protect the film holder and the film from strong light as much as possible. Unnecessarily bright and directional light on photographic equipment always introduces the possibility of some light leakage. The heat generated by strong light can also be harmful to the film.

Cleanliness is important

To get the most satisfactory results, the equipment and the film must be clean. The following require particular attention:

1. Processing rollers

You should wipe the rollers before you process each photograph, to be sure they are free from dust and other foreign matter. Remove the roller access lid by pressing down with the thumb at the point indicated (fig. **10**) and then lifting it out. Press the process button and hold it down and, while the rollers rotate, wipe a dry, lint-free cloth back and forth along the full length of each roller (fig. **11**) Release the process button. Replace the lid.

Occasionally the rollers may need a more thorough cleaning. Remove the roller assembly from the processor and clean the entire length of the rollers (fig. **12**), using a dampened cloth if necessary.

Before you reinsert the assembly, remove all dirt and particles that may have collected in the processor, below the rollers.

2. Felt strips on film holder

Before you load film, be sure the felt strips on the film holder are clean. The felt strips (fig. **13**) serve as a light trap. During the use of the holder, these strips may gradually gather dust. At regular intervals, gently rub a finger back and forth along the strips, to remove dust. Alternatively, wipe the full length of each strip very lightly with the sticky side of a small piece of masking tape. This will collect dust and other particles that may have accumulated.

3. Felt strips on loading tray

Below each of the two protrusions indicated by the arrows (fig.**14**) there is a short felt strip. These strip are

not easily visible, but can be easily located with a finger. To keep these strips dust-free, periodically run a finger gently back and forth along each of them.

4. The positive film sheet

Before you load each positive sheet into the loading tray, inspect it to be sure it is clean. If necessary, gently and lightly brush the image-receiving surface of the sheet with an anti-static brush.

HOW TO USE THE SYSTEM

1. Load the negative

Place the film holder on a flat surface, with the dark slide facing upwards and the dark slide handle facing to your right. Depress the two blue rectangular buttons (fig. **15**), **without** at the same time trying to lift the cover of the holder. Depressing the buttons will unlatch the cover and automatically make it spring up slightly. You can then open the holder. Open it all the way, so that it lies flat.

Carefully lift the uppermost negative envelope from its container. Do not press, fold or bend the negative envelope.

With the printed side up and the three arrows on the envelope pointing away from the orange tongue on the film holder, place the negative into the film holder (fig. **16**). Slide the negative along the surface of the film holder in the direction of the three arrows. In doing this, the fold on the underside of the envelope must hook securely onto the orange tongue on the film holder (fig. **17**) and the envelope must end up in the position shown (fig. **18**).

Be sure never to pull the negative tab or the other end of the envelope. Doing so would separate the negative from the envelope and render it unusable (fig.19).

Be sure that the negative is centered between the two blue guide lines on each side of the film holder (fig. **20**).

Close the holder and press the cover down firmly to latch it. Be sure that **both** ends are securely latched. The three arrows at the base of the negative envelope must protrude from the holder.

2. Remove the negative envelope

Pull out the negative envelope at the base of the film holder, where you see the three arrows. Do this with care, because incorrect envelope removal can result in blemishes in the finished photograph.

Never press or squeeze the film holder; never bend or crimp the protruding envelope; always pull the envelope out straight (not up or down or sideways); pull the envelope out slowly, all the way.

The following method of envelope withdrawal is easy and safe.

Lay the film holder on the film processor with the edge of the envelope just behind the roller assembly (fig. **21**). The dark slide and the three arrows on the envelope must face upwards. Grip the envelope at each end without bending it. Draw the envelope and holder forward horizontally. Do not raise them. The holder will be held back by the raised roller assembly (fig. **22**) as the envelope comes out.

Discard the envelope. **Do not pull the negative tab** that protrudes from the upper end of the film holder.

A useful tip: When you load several film holders at the same time, do not remove all the envelopes right away. Remove each envelope just before you are ready to load the holder involved into the camera. This will enable you to easily distinguish between unexposed and exposed negatives. It also serves as an added protection against light leakage.

3. Insert the film holder into the camera or imaging device

Do this in the way you would insert a conventional 8 x 10 film holder.

4. Remove the dark slide, make the exposure and reinsert the dark slide

Pull the dark slide out by its blue handle (fig. **23**). Pull straight and slowly. You can remove the dark slide completely from the film holder**. Do not** pull the paper negative tab.

After making the exposure, reinsert the dark slide and push it in all the way. Be sure to insert it into its proper slot (fig. **24**), and not into the slot which is already occupied by the negative tab. The blue dark slide handle must come to rest adjacent to the blue edge along the top of the holder. Be careful not to fold or bend the negative tab.

You need not necessarily remove the dark slide entirely from the film holder, in order to make a photograph. The stop line across the dark slide (fig. **25**) indicates clearly how far the slide must be withdrawn to ensure that the whole image area will be exposed. Pull the slide out until the stop line is just visible.

5. Load a positive sheet into the processor loading tray

Do this just before you are ready to process the film, and not earlier. A positive sheet lying face up for an extended period might gather dust, which could affect the quality of the photograph.

Carefully lift the uppermost positive sheet from its container. Hold it so that the side with the image-receiving layer, which is also the side with the processing

pod (fig. **26**), faces upwards. Do not touch the surface of the sheet and do not press on the processing pod area.

Holding the sheet with the pod farthest away from you and facing upwards, slide it into the tray, **below all the metal parts** (fig. **27**). Slide it in gently until you feel distinct resistance. When the sheet is fully and correctly inserted, its edges will lie within the recessed area of the tray (fig. **28**).

Do not attempt to load a positive sheet into the film holder.

6. Remove the film holder from the camera or imaging device and insert it into the processor loading tray.

Be sure the paper negative tab is straight, and not bent or folded.

With the dark slide facing **down** and the paper negative tab toward the processor, place the film holder into the tray and begin to slide it in. The tab must feed in **between the two metal parts** (fig**. 29**). To enable the holder to enter the tray, press down at the points indicated (fig. **30**) while you are pushing the holder in. Push it in as far as it will go. The holder will be properly and fully inserted when it is in the position shown (fig. **31**).

7. Set the timer and process the photograph

The processing time extends from the time the process button is pressed to the moment the positive photograph is separated from the negative. Set the timer (fig. **32**), following the processing directions in the film instruction sheet.

For a processing time of up to 90 seconds, set the timer switch to “sec.” The green light will go on. Set the green scale on the dial to the appropriate time. For processing times longer than 90 seconds, set the switch to “min.” The red light will go on. Set the red minute scale to the required time.

Press the process button (fig. **33**) and hold it down for about one second. The green or red light will begin to blink. The negative and positive sheets will be drawn together and transported between the processing rollers. The rollers will break the pod and spread the processing chemicals evenly between negative and positive. The film “sandwich” will be automatically deposited in the processing compartment.

Some film types are light-tight during the processing cycle, making it permissible for you to open the processing compartment lid at any time. Other films are light-sensitive during processing, and require that the compartment lid remain closed for the full processing time. For specific details, see your film instruction sheet, or contact us.

8. Peel the positive photograph from the negative

At the end of the processing time a signal will sound, and the green or red light will stop blinking (and glow continuously). Lift the processing compartment lid (but not the entire compartment) and remove the film (fig. **34**). Immediately peel the positive photograph from the negative in **one continuous motion.** Start at one of the corners near the tab end (fig. **35**), and not at the other end. Hold the positive by its corner and the negative by the black paper strip**. Begin the peel diagonally and end it in such a way that the entire extent of the longer border of the positive separates at the same moment** (fig. **36**). This will ensure that the mask and chemical remnants stay on the negative, leaving you with a clean positive. Fold the negative, moist side in, and dispose of it. Avoid all contact with the remaining chemicals on the negative.

Close the processing compartment lid in readiness for the processing of the next photograph.

To remove the empty film holder from the loading tray, slide the holder out by simultaneously pushing **forward** on the tray and **toward the rear** on the holder, as indicated by the arrows (fig. **37**). **Do not** try to **lift** the film holder out or to slide the holder out **with the tray.**

Caution

This process uses a caustic paste. Avoid contact with skin, eyes and mouth and keep away from children and animals. **If you get some paste on your skin, wipe it off immediately and wash with water to avoid an alkali burn.** If eye or mouth contact occurs, quickly wash the area with plenty of water and see a doctor. Keep discarded materials away from children, animals, clothing, and furniture.

Handling and care of photographs

Until the separated positive photographs are completely dry, do not lay them on top of each other or touch the image surface. (The drying may take from a few minutes up to about one hour, depending on the film type and the humidity.)

Once dry, the photograph is best stored in a suitable individual protective sleeve, designed to protect it from abrasion as well as from unfavorable chemical action. For details about suitable sleeves, please contact us (see INFORMATION AND TECHNICAL ASSISTANCE). Do not stack photographs on top of each other without protection. Store photographs in as dry and cool an environment as possible.

How to remove the loading tray

The loading tray can only be removed when the film holder is **not** in the tray. With your thumb, depress the tray at the point indicated by the indentation (fig. **38**) and, at the same time, pull the tray out in the direction of the arrow.

Storage of the equipment

Keep your Polaroid 8 x 10 film system clean. When the equipment is not in use, remove the loading tray. Close the processor and the film holder. Store the equipment in a dust-free place.

Processing photographs in rapid succession

If you wish to process a number of pictures in rapid succession, you will not be able to use the timer in the normal way. The processing of each picture will have to be timed with a separate timer or clock.

This method can only be used with film which can safely be processed in the light (such as Polacolor film) **Any film type which is required to be in darkness during processing must remain in the closed processing compartment for the full processing time.** See the film instruction sheet or contact us. (See INFORMATION AND TECHNICAL ASSISTANCE.)

Set the timer on the processor to 15 seconds. Insert the positive sheet and the film holder into the processor loading tray in the normal way and press the process button. When the timer sounds after 15 seconds, remove the film from the processing compartment. You can then process the next picture. (Never insert a picture for processing while one is lying in the compartment.) Repeat this procedure for all the pictures you have to process, removing each from the compartment when you hear the timer. Remember that each picture must be timed separately.

Handle all film very carefully during processing. Be sure the entire negative and positive remain in contact with each other. Reset the timer before you process individual pictures again. (See also CLEANLINESS IS IMPORTANT.)

Warranty (U.S.only)

Each Polaroid 8 x 10 film processor, Polaroid 8 x 10 film holder, and processor loading tray has been thoroughly inspected and tested before shipment. All parts are guaranteed against defects in material and workmanship for one full year from the date of original purchase. During this period, any such defects will be remedied by Polaroid Corporation without charge and Polaroid will pay the transportation cost to and from the Service Center.

This warranty does not cover damage caused by accident, misuse or tampering with the equipment, and a charge will be made for such repairs.

For warranty service, the equipment must be returned to, and repaired by, a Polaroid Service Center.

This warranty excludes all consequential damages.

Before you return your equipment for repair, please contact us. We can advise you how you can get service in the quickest and most convenient way. We can also advise you on proper packaging. In the U.S., use our toll free number 1-800-225-1618.

Warranty (outside the U.S.)

Each Polaroid 8 x 10 film processor, Polaroid film holder, and processor loading tray has been thoroughly inspected and tested before shipment. All parts are guaranteed against defects in material and workmanship for one full year from the date of original purchase. During this period, any such defects will be remedied by Polaroid Corporation without charge and Polaroid will pay the transportation cost to and from the Service Center.

This warranty does not cover damage caused by accident, misuse or tampering with the equipment, and a charge will be made for such repairs.

For warranty service, the equipment must be returned to, and repaired by, a Polaroid Service Center.

The above warranty and provisions do not affect your statutory rights.

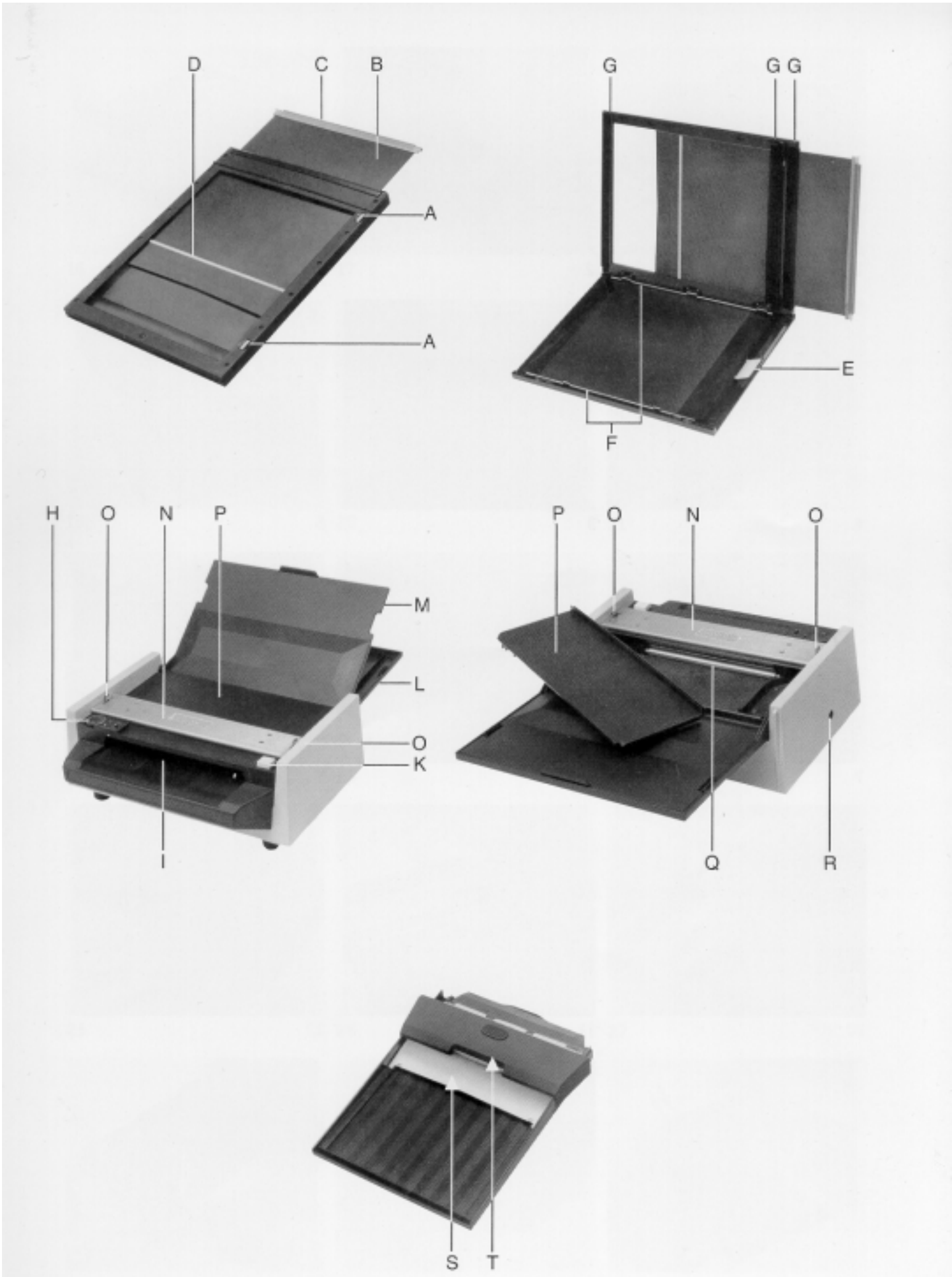
Before you return your equipment for repair, please contact the nearest Polaroid Service Center. We can advise you how you can get service in the quickest and most convenient way. We can also advise you on proper packaging.

Registration

Please complete the registration card which is included with your equipment, and return it to us. We will put you on our mailing list, so that we can keep you informed of the latest developments in Polaroid films and equipment, and their applications. In this way you can be sure that you will always get the best and most effective results from your Polaroid photography.

Possible picture problems and their cause

Black picture	• Negative envelope not removed • Dark slide not pulled • Extreme underexposure • Shutter faulty
White print or clear transparency	• Negative loaded backwards • Extreme overexposure • Shutter open or faulty
Repeated dot pattern (yellow with color film)	• Dirty processing rollers
Single yellow or white dot	• Dirt particle on positive sheet
Random white specks	• Dust on positive sheet • Felt strips on film holder or loading tray not clean
Black line along narrow edge of picture	• Negative not engaged on holder tongue • Dark slide not pulled far enough
Positive-negative misregistration after processing	• Positive sheet not loaded properly into tray
Film assembly fails to pass into processor	• Negative tab is bent • Negative not loaded between blue guide lines in film holder
Blotch or V-shape in picture	• Negative probably not handled with sufficient care (was squeezed or kicked)
Poor color quality	• Mismatch of positive-negative code number • Processed for too short time • Unsuitable processing temperature
Negative protruding from bottom end of holder	• Negative not engaged on holder tongue
Picture protruding from bottom end of holder	• Excessive curl of positive, caused by improper (extremely dry) environment
Mask adheres to picture border	• Photograph not peeled correctly (see PEEL THE POSITIVE PHOTOGRAPH FROM THE NEGATIVE)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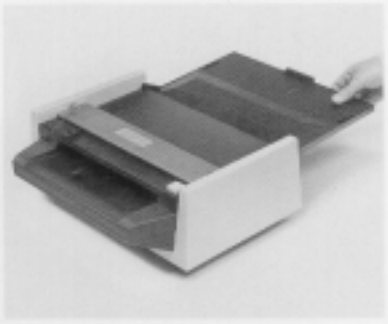
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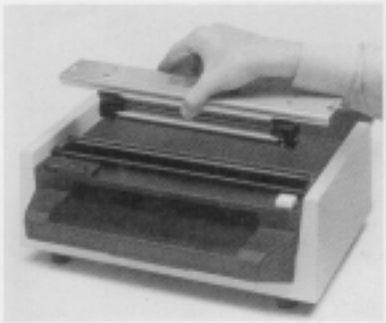
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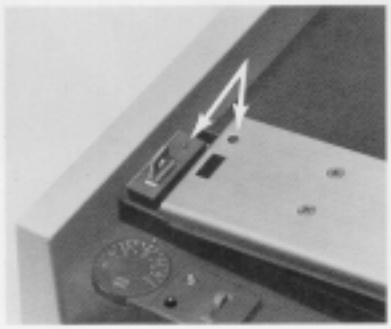
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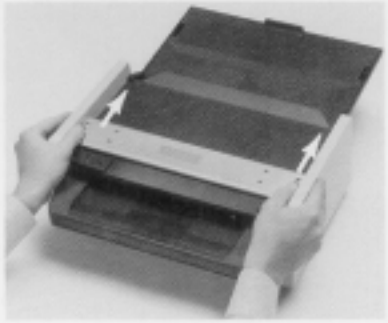
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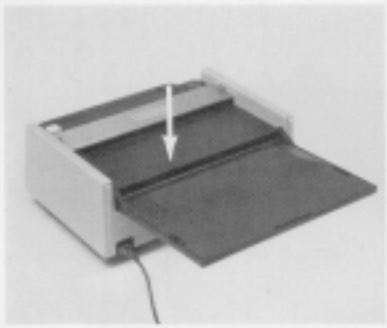
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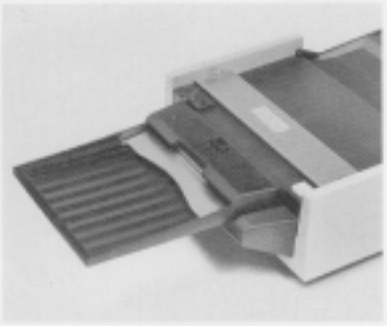
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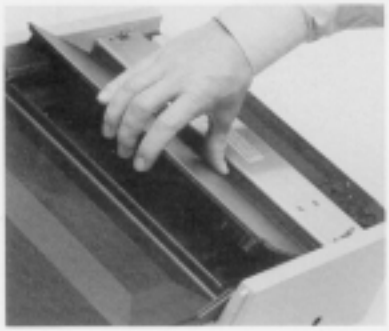
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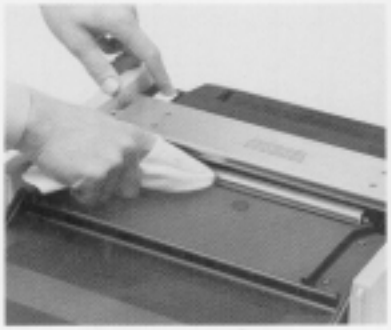
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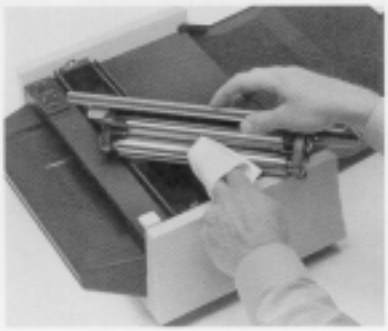
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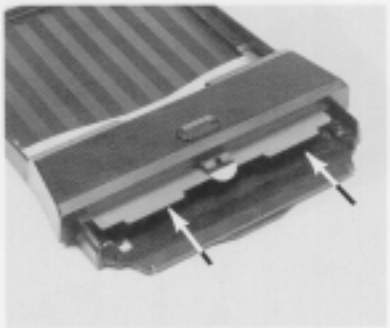
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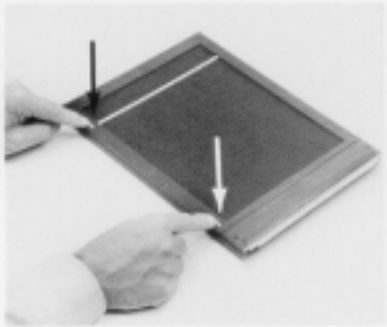
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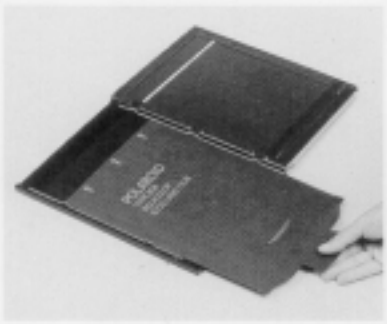

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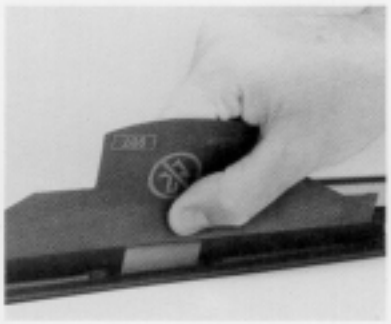

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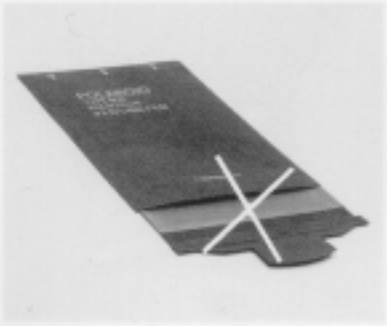

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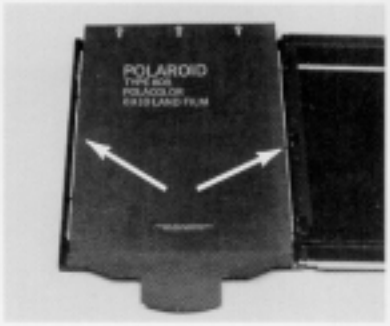

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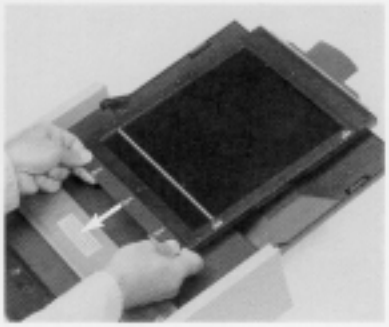

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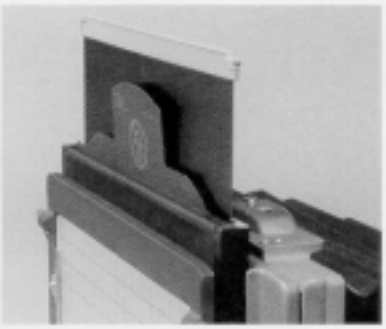

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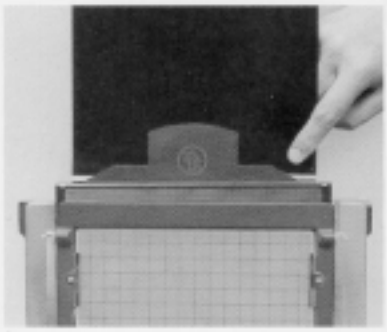

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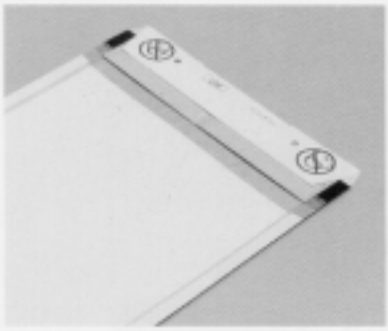

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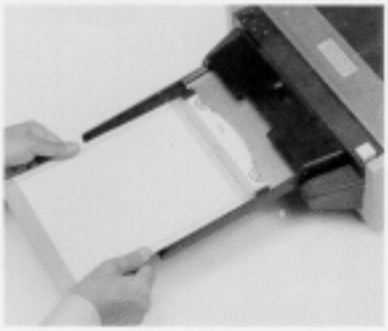

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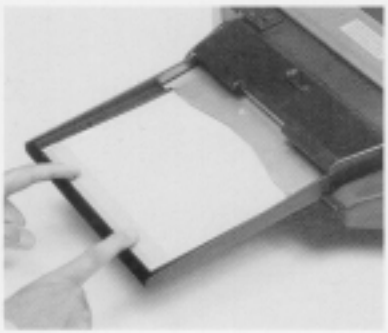

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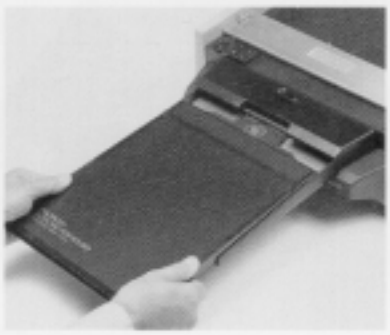

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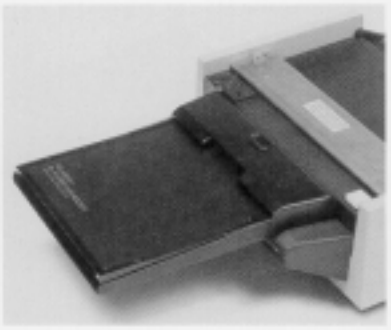

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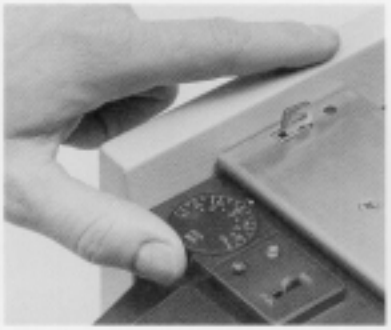

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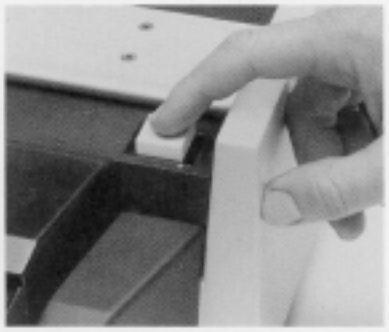

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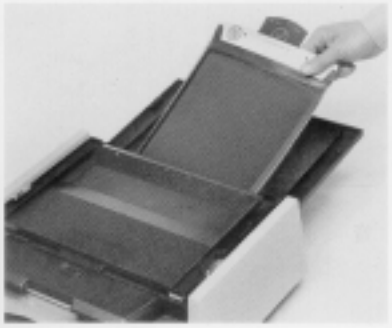

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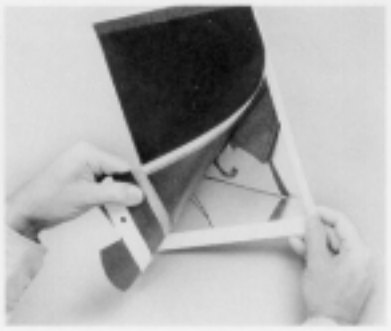

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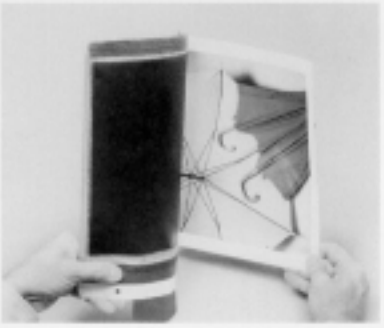

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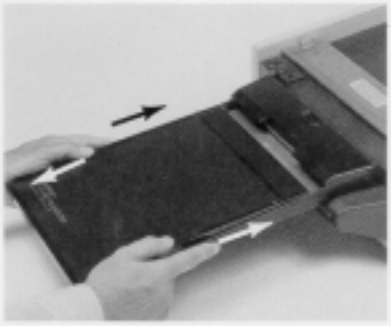

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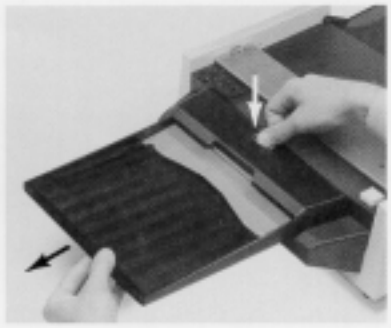

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