



# Polaroid® Land Pack Film Holder Model 2

for Mamiya RB67 and Mamiya Universal

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Instructions

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## Introduction

The Polaroid Land Pack Film Holder Model 2 allows you to use Polaroid Land Pack Film with the Mamiya RB67 series and Mamiya Universal cameras.

### Polaroid Land pack films

Film type	Film speed ASA/DIN	Development time at 70°F (21°C)
Types 668/108 Polacolor 2	75/20	60 sec.
Types 084/107 Black and white	3000/36	15 sec.
Types 667/107C Black and white Coaterless	3000/36	30 sec.
Type 665 Positive/negative	75/20	30 sec.

Each pack produces 8 prints, 3-1/4 × 4-1/4 in. (8.3 × 10.8 cm). Type 665 film produces a useable negative as well. The image area is approx. 2-7/8 × 3-3/4 in. (7.3 × 9.5 cm); however, when photographing with the Mamiya RB 67, the image area is approx. 2-3/4 × 2-3/4 in. (7 × 7 cm).

Eager as you may be to get at your new holder and begin making pictures, please take the time to go through this booklet carefully before loading film.

As you read the text and look at the pictures, go through all the motions of using the holder—without film.

Once you get the simple operating routine down pat, load a film pack. We suggest that you start with black and white. Read carefully the instruction sheet packed with your film. Those instructions may change from time to time, so it's a good idea to review them occasionally.

## ■ Loading Film

Always do this in dim light, to avoid fogging the film.

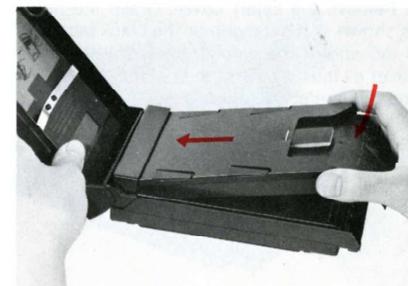
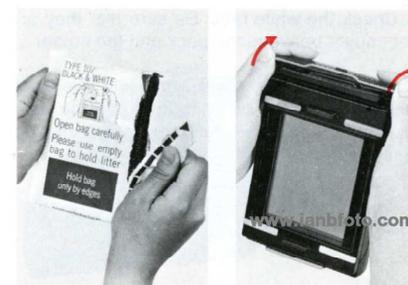
**1. Open the package:** Handle the film bag carefully and only by the edges. Tear the bag along the dotted line and remove the pack. Discard the moisture-absorbing card packed with some film packs. Please be sure to read the film instruction sheet carefully.

**Special exposure instructions:** On some color film packs you may find printed instructions to set the Lighten/Darken control on electric eye cameras one mark toward Lighten for all pictures made with that pack. This is done to increase exposure.

To give this same increase with your camera, increase the exposure by the equivalent of 1/2 an f-stop for all pictures made with that pack.

**2. Unlock and open the holder back:** Push up both ends of the back door latch and open the back all the way. Be sure the dark slide is pushed all the way into the holder before loading film.

**3. Insert the pack:** Hold the film pack by the edges as shown. Push the closed end of the pack under the light shield, and then down into the holder.

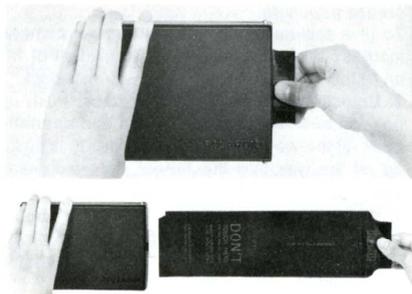


**4. Check the white tabs:** Be sure that they are not caught between the pack and the holder.

**5. Close and lock the back:** Hold the back closed and push down on the center of the latch. The black tab of the safety cover must stick out in front of the latch.



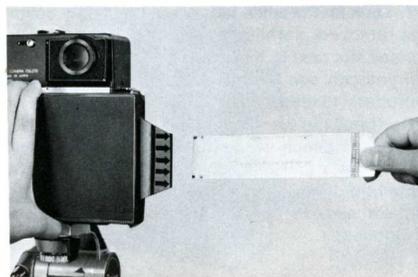
**6. Remove the safety cover:** Grasp the holder as shown, and get a grip on the black tab, which is the end of the safety cover. Pull the safety cover all the way out of the holder. Pull straight and be careful not to tear it.



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## Picture Development

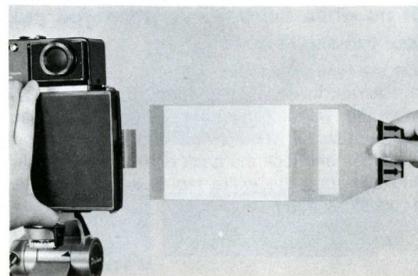
**1.** Grip the holder with one hand, and grip the small white tab with the thumb and forefinger of the other hand. Pull the tab straight out, all the way, without stopping.



**2.** When you pull the white tab, a yellow tab comes out of the door in the holder. **Don't block this door.**

If no yellow tab comes out when you pull the white tab, stop. Don't pull another white tab. See page 7.

**3.** Grip the yellow tab in the center. Pull it straight out, all the way, with moderate speed, without hesitating. This starts development of the picture, so start timing now.



**4.** Develop the picture for the full time given in the film instruction sheet. Let the film hang from the yellow tab without moving, or lay it down flat. Don't touch or bend the white part where the picture is developing.

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**7. Look for the white tab:** When the safety cover is removed, a white tab should stick out of the small slot next to the latch.

If you can see a white tab, the holder is now properly loaded.

Don't pull the white tab at this time. Now you're ready to attach the holder to the camera and make your first picture. (Refer to page 17 for method of attaching to the camera.)

Make sure to pull out the dark slide before shooting.



**If no white tab appears when you pull out the safety cover:**

Do the following in dim light.

**1.** Unlock the back of the holder, open it part way and, without disturbing or moving the film pack, push the white tab out into the open.

**2.** Close and lock the back of the holder, making sure that the white tab is outside and in front of the latch.



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**5.** Separate the print. After the full development time, rapidly strip the print from the negative, starting at the end nearest the yellow tab. Never allow the print to drop back onto the damp negative. Don't touch the surface of the print. Avoid contact with chemicals left on the negative after the print is removed.

For full information about your film, please read the instructions packed with the film.



### Caution

The Polaroid Land process uses a caustic jelly which is safely packed inside sealed containers within the metal-plastic pack. If accidentally you should get some of this jelly on your skin, wipe it off immediately. To avoid an alkali burn, wash the area with plenty of water as soon as possible. It is particularly important to keep the jelly away from eyes and mouth. Keep discarded materials out of reach of children and animals, and out of contact with clothing and furniture, as discarded materials still contain some jelly.

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### If no yellow tab appears when you pull the white tab, stop!

Do not pull another white tab. Instead, do the following in dim light.

1. Carefully open the holder without moving the pack. You can use a fingertip to make sure the pack doesn't move.
2. Take hold of the yellow tab that failed to come out through the slot. Still being careful not to move the pack, gently pull the yellow tab all the way out of the holder and discard that piece of film. Do not try to save it.
3. While the back is open, check that the developer rollers and the yellow tab slot are clean. If necessary, clean them as shown on page 11.
4. Close and lock the back, making sure that the next white tab is outside and in front of the latch.



### If you accidentally pull two white tabs in a row

You will get two yellow tabs out at the same time. Both pieces of film will be ruined, and unless you are careful, you may lose a third picture.

Do not open the holder. Grip both yellow tabs firmly, pull them both out together, and discard both pieces of film. This may cause developer to be spread around the inside of the holder. Open the back and, without disturbing the film pack, clean the holder as shown on Page 11.

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## Temperature is Important

Cold and heat have a great effect on the way your picture develops and on the print quality. Even moderate cold can ruin your pictures unless you take precautions.

The important factor is the temperature of the holder and film at the time you're developing the picture.

In cool weather, development times may have to be adjusted according to the temperature. The instruction sheet with each film pack contains detailed information about development times and temperatures. Be sure to read these recommendations; they may change from time to time.

In very hot weather there is a greater tendency for chemicals to be squeezed out of the edges of the picture assembly as you pull the yellow tab to begin development. If these chemicals collect on the steel rollers they can cause defects in your prints. So, when it's hot, be extra careful to keep the rollers clean.

### Protect Film and Holder from Heat

Extreme heat and high humidity can damage your films, especially after the film pack has been placed in the holder. Don't leave a loaded holder or packages of film lying in direct sun. Remember that the glove compartment or trunk of a car can get as hot as an oven. If you store film or a loaded holder in a closet, keep it near the bottom where the air is cooler. Don't remove a film pack from its sealed foil inner wrapping until you are ready to use it.

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## Care of Pictures

### Black and white prints

Coat prints: Black and white prints must be coated to protect them against scratching and fading. Type 665 prints must be coated immediately; Type 107 prints may be left uncoated for up to an hour. Use the coater supplied with each film. Use 6 to 8 overlapping strokes, and cover the entire print, including the borders. Keep freshly coated prints separate from each other until they are thoroughly dry. Keep the coater fluid away from furniture, clothing, etc.



### Color prints

A newly separated color print will look nearly dry, but don't touch it for a few minutes until the surface dries hard and glossy.

Do not coat color prints.

The dyes used to form colors in the prints are long lasting. However, like all dyes, they will fade if exposed to bright light for long periods of time.

### Type 665 negatives

Type 665 negatives must be immersed in a sodium sulfite solution within three minutes after separation from the positive print. See the instructions packed with the film for full details.

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## The Cold-Clip

The Cold-Clip (right) makes it possible to get good color pictures when the temperature is 65°F or below. If you are unsure of the temperature, use the Cold-Clip anyway. It may make a noticeable improvement in the color of your pictures and it can do no harm even if the temperature is somewhat higher than 65°F.

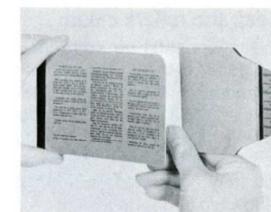
To use the Cold-Clip, put it in a warm inside pocket for five minutes before you start taking pictures so it will be warmed by body heat.

In near freezing temperature hold the Cold-Clip between your body and arm for maximum warming. When it's cold enough to use the Cold-Clip, you should give 2X the normal exposure for your color pictures. That is, set the exposure controls one step slower shutter speed or one f-number lower than is indicated by your exposure meter.

As soon as you have pulled the yellow tab out of the holder to start development, place the picture assembly inside the Cold-Clip with the tab hanging out. This must be done within 10 seconds.

Immediately put the Cold-Clip back in a warm spot. In temperatures down to 40°F use an inside pocket next to body heat. At 40°F and below, hold the Cold-Clip between your body and arm.

Develop the picture for 60 seconds inside the Cold-Clip, then remove the picture assembly and separate the print from the negative.



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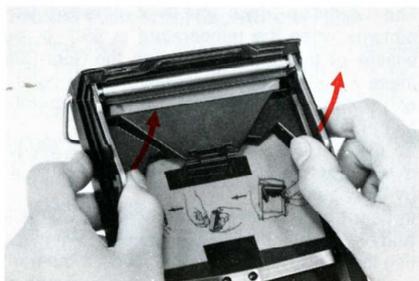
## ■ Care of the Holder

### Keep the rollers clean:

The rollers must be kept clean or you will not get good pictures. The two steel rollers in the spreader assembly play a leading part in development of your pictures. Inspect them frequently; if possible, do it before loading each new film pack. If the rollers are not kept clean, you may have the following problems: (1) no yellow tab appearing when a white tab is pulled; (2) developer chemicals smeared on the back of a picture; (3) repeated spots on the face of a print.

**1. Remove the spreader assembly:** Use both hands and lift the steel loops together. Lift the assembly out of the holder.

**2. Clean the rollers:** Wipe the rollers clean with a dry, lint-free cloth. Never scrape them with anything metallic, nor with your fingernail. Rotate both rollers, to be sure they are completely clean. On the side where the rollers are partially covered, there is a narrow slot. Inspect the slot and clean it if necessary.



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If any particles on the rollers or in the slot are particularly difficult to remove, use a damp cloth. Never submerge the rollers in water; doing so could eventually hamper the free rotation of the rollers.

**3. Clean the tab slot:** If dirt collects here, the yellow tab cannot pop out. Carefully open the narrow door and clean the slot with a cloth.

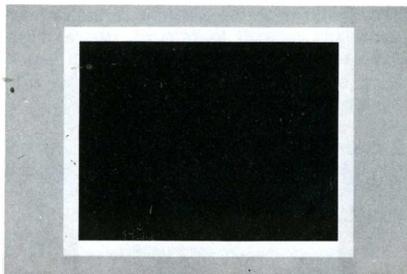
**4. Replace the spreader assembly:** First, be sure the roller assembly is the right way up. The edge outline of the assembly should match the outline printed inside the holder door. With your thumbs in the position shown, press lightly in the direction of the rollers and then down. The assembly will click into place.



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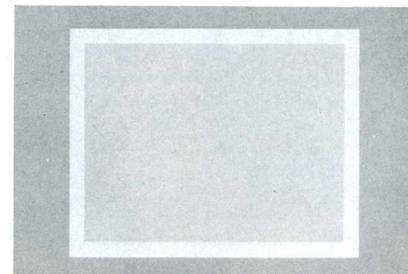
## ■ Possible Picture Faults, Their Cause and Cure

**Black picture (not exposed):** Be sure — the shutter on the camera is working properly, the flash fired, the moisture-absorbing card packed with some film types was not loaded into the holder, the dark slide was pulled out.



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**White picture (light struck):** Do not pull the safety cover out before putting the film pack into the holder; do not take a partly used film pack out of the holder; be sure the dark slide is pushed in before removing the loaded holder from the camera.



**Many small white specks (too rapid tab pull):** Try to pull the yellow tab a little more slowly. Color prints may have a pink mottle, in addition to white specks, as a result of pulling the yellow tab too fast.



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**Oblong in print (white tab caught):** Be sure to pull the white tab straight and all the way out of the holder. If even part of it stays attached, it will be pulled back into the holder, onto the picture, when you pull the yellow tab.



**Repeated spots (dirty rollers):** Marks like these show that the steel rollers are dirty. Inspect them regularly, and clean them when necessary.



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**Orange-red marks along edge or missing corners (angled tab pull):** Such picture flaws are usually caused by pulling the white or yellow tab out at an angle. When this happens, the developer is not spread evenly over the pictures and edges and corners may not develop. Pull both tabs out straight and swiftly, all the way.

Dried developer chemicals at the ends of the steel rollers may also cause this. Keep the rollers clean.



**Black and white prints gray and muddy; color prints with weak colors (underdevelopment):** Develop the picture for the full time given in the film instructions. In cool conditions, you must develop pictures longer. See the film instruction sheet for details.



**Overall bluish or reddish tint:** If you develop for too long a time, color pictures will look too blue overall. Pictures with a definite pink or reddish tint probably were not developed for the full recommended time. A pink mottle on color prints is usually caused by pulling the yellow tab too fast, rather than by underdevelopment.

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## ■ Attaching the Holder to the Camera

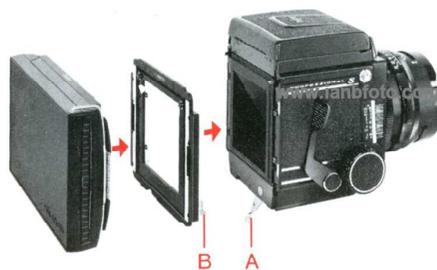
### Attaching to the Mamiya RB 67 camera

Detach the revolving adapter from the camera body, then attach the P-adapter to the camera body by using the R-lock lever (A) on the camera body.

Attach the holder to the camera by using the locking levers (B) on both sides of the P-adapter.

The holder can be attached to the camera so that the film tabs can be pulled out either to the right or left. In any case, be sure that the camera position leaves ample space to enable you to pull the film tabs straight and completely out of the holder.

If there is film in the holder, be sure to insert a dark slide before removing the holder.



### Format and finder viewfield

The image area is approx. 2-3/4 x 2-3/4 in. (7 x 7 cm). Compose the picture by using the entire focusing screen area.

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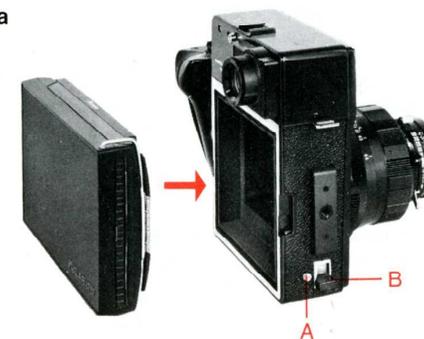
### Attaching to the Mamiya Universal Camera

Before attaching the holder, confirm that both side locking slides (B) are kept at their lowest position. If not, push down the locking slide while pushing in the lock button (A).

Attach the holder directly to the camera body so that the film tabs will be pulled out to the right; then push up the locking slide on both sides. While pushing up the slide, the lock button will spring out automatically.

The holder can be attached upside-down so that the film tabs are pulled out to the left; however, ascertain that the camera position leaves ample space to enable you to pull the film tabs straight and completely out of the holder. In this case, detach the hand grip from the camera body to avoid its interfering with pulling out the film tabs.

If there is film in the holder, be sure to insert a dark slide before removing the holder or changing a lens.



### Picture format

The 75mm and 127mm focal length lenses are designed to cover the entire picture format of the Polaroid film pack (3-1/4 x 4-1/4 inch). However, ordinary other lenses for Mamiya Press cameras are designed to cover 6 x 9cm format pictures. If these lenses are used with the Polaroid Land pack film holder, the photographs may have darkened four corners.

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### How to Determine the Field of View

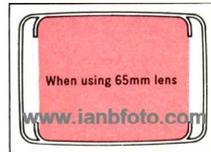
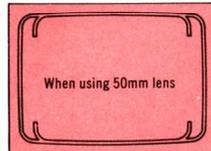
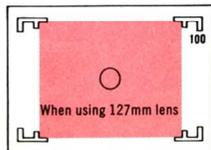
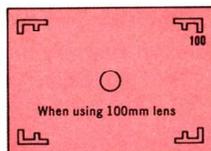
Although the viewfinder of this camera is designed for  $6 \times 9$  and  $6 \times 7$ cm formats, the actual picture format of the Polaroid film pack is larger than this. Adjust the viewfinder field in the following manner, according to the lens to be used. If you wish to observe an accurate format, use the focusing hood model P. Also, the optical viewfinder model P for 75mm, 100mm, and 127mm lenses is available to ensure an accurate field of view.

### Method of Using the Camera Viewfinder

When using a 100mm or 127mm lens, use the camera viewfinder. For the 100mm lens, utilize the entire viewfinder field. In this case the actual picture format will cover a little wider area. For the 127mm lens, use the brilliant frame for  $6 \times 7$ cm format as a guide.

### Method of Using the Optical Viewfinder for 50mm Lens

When using either the 50mm or 65mm lens, attach the optical viewfinder for 50mm lens to the accessory shoe. For 50mm lens, use the entire finder field. For 65mm lens, use the brilliant frame for  $6 \times 7$ cm format.



### Method of Using the Finder Mask

When using a 150mm or 250mm lens, correct the viewfinder field by attaching a finder mask for  $3\frac{1}{4} \times 4\frac{1}{4}$  inch format to the finder window.

The mask to be attached directly to the camera is that for 150mm lens. The smaller mask for 250mm lens should be first attached to the back of the mask for 150mm lens, and then attached to the camera.

### How to Attach the Finder Mask

There is a groove on the inner, left side of the finder window of the camera body. Insert the left edge of the finder mask into this groove, and by pushing the right side catch of the mask inward, the right edge of the mask will be drawn back. By applying the mask toward the finder window and removing your finger, the mask will be secured to the finder window.

Parallax is compensated by using the brilliant frame of the viewfinder. Select the brilliant viewfinder frame for 250mm lens. Peering into the finder, move your eye until the brilliant frame comes to the center of the viewfinder field; then you can obtain a parallax-compensated field of view.

