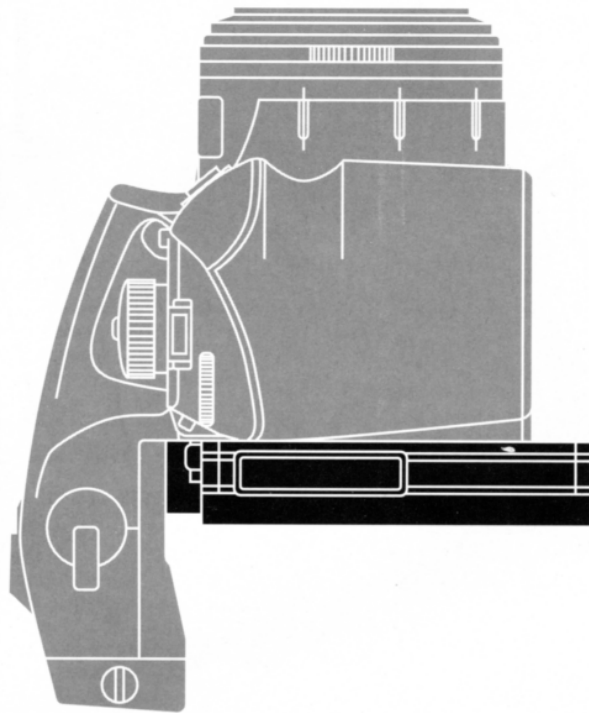


645AF

Polaroid Pack Film Holder

[HP402]



Mamiya

100% Recycled Paper

Mamiya-OP Co., Ltd.

Specifications and appearance are subject change without notice.



Printed in Japan
314250-TA-01E

English Instructions

Intruduction

The image area is approx. $41.5 \times 56\text{mm}$.

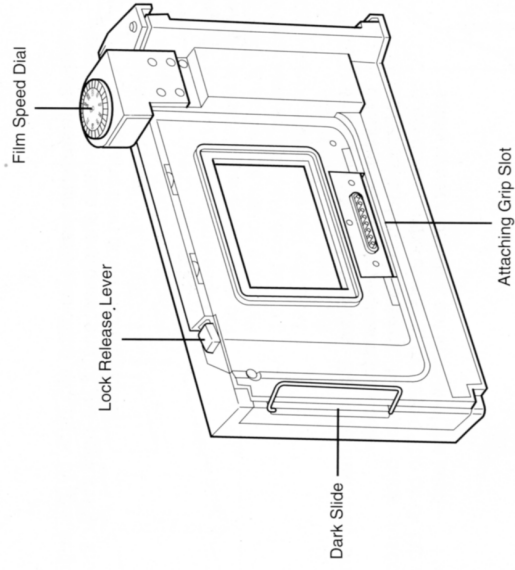
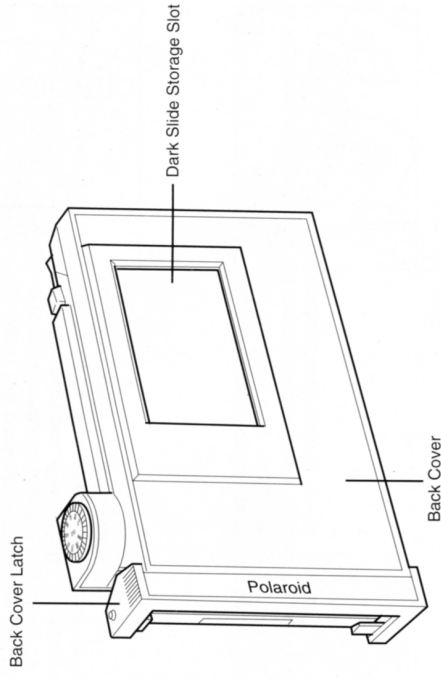
Eager as you may be to get at your new holder and begin making pictures, please take the time to go through this booklet carefully before loading film.

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.

Description of Parts

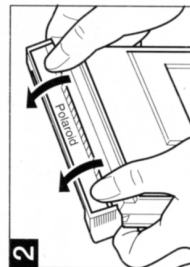


Loading Film

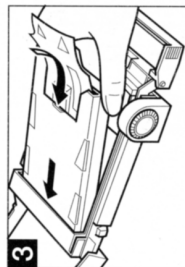
Always do this in dim light, to avoid fogging the film.



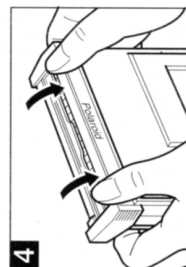
1. **Open the package:** Handle the film bag carefully and only by the edges. Tear the bag along the dotted line and remove the pack. Discard the moisture-absorbing card packed with some film packs. Please be sure to read the film instruction sheet carefully.



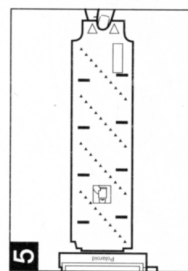
2. **Unlock and open the holder back:** Push up both ends of the back door latch and open the back all the way. Be sure the dark slide is pushed all the way into the holder before loading film.



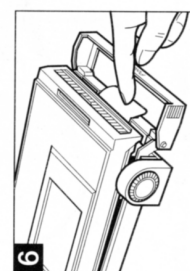
3. **Insert the pack:** Hold the film pack by the edges as shown. Push the closed end of the pack under the light shield, and then down into the holder.



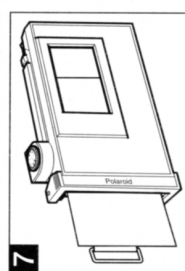
4. **Check the white tabs:** Be sure that they are not caught between the pack and the holder.
5. **Close and lock the back:** Hold the back closed and push down on the center of the latch. The black tab of the safety cover must stick out in front of the latch.



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



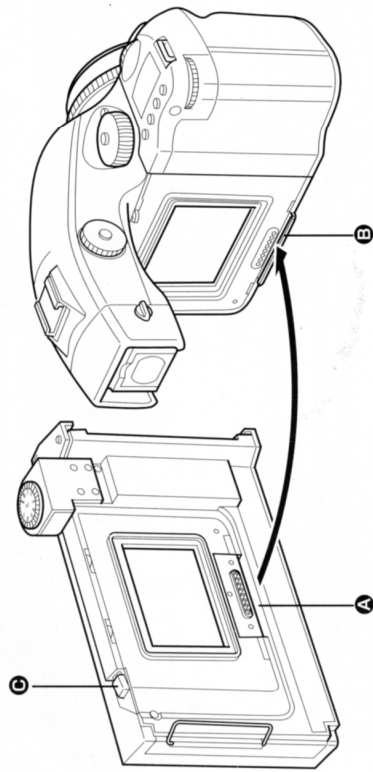
If you can see a white tab, the holder is now properly loaded. Don't pull the white tab at this time. Now you're ready to attach the holder to the camera.



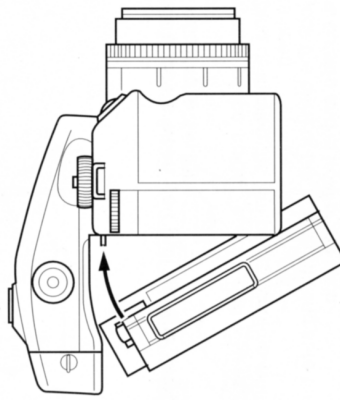
If no white tab appears when you pull out the safety cover: Do the following in dim light.

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. Since the holder is now ready for the first exposure, mount it on the camera back as described below.
 3. Set the film speed dial, found at the top of the holder, to the speed of the film in use.
- ★ Remember that the multiple exposure prevention mechanism is defeated.
- ★ In this case, however, the camera's double exposure prevention mechanism does not work.

Attaching and removing Polaroid Pack Film Holder

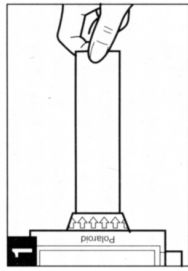


1. Position the Attaching Clip (A) of the holder properly to the holder mounting Bracket (B) of the body. Press the upper part of the holder together with the body until clicks.

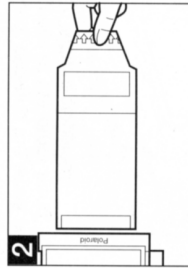


2. Insert the Dark Slide between both white lines. To remove the holder, push the Lock/Release Lever in the direction of the arrow →.
- ★ Be sure to insert the dark slide before removing the holder. If it is not inserted, the safety lock will prevent it from being removed from the body.
 - ★ When photographing, store the dark slide in the dark slide storage slot.
 - ★ The Dark Slide can be detached when the Polaroid Pack Film Holder is attached to the camera body.
 - ★ Always pay attention not to contaminate the electrical contacts on the Roll Film Holder. Prior to use, always clean the contacts with soft cloth.
 - ★ Note that the Polaroid Pack Film Holder is not provided with a double exposure prevention mechanism.
 - ★ Be sure to use the Tripod Adapter N (optional) when using the Polaroid Pack Film Holder, in as much as the 645AF camera with Polaroid Land Pack Film Holder may not fit on certain types of tripods.

Picture Development

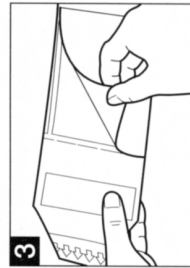


1. Grip the holder with one hand, and grip the small white tab with the thumb and forefinger of the other hand. Pull the tab straight out, all the way, without stopping.
2. When you pull the white tab, a yellow tab comes out of the door in the holder.
Don't block this door.



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.



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.

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.

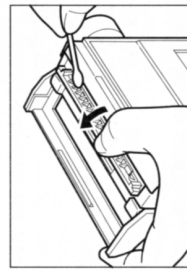
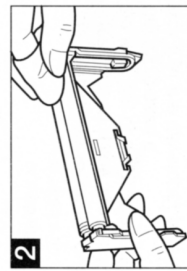
1. Remove the spreader assembly: Use both hands and lift the steel loops together. Lift the assembly out of the holder.



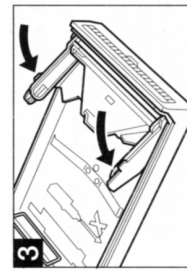
2. Clean the rollers: Wipe the rollers clean with a dry, lint-free cloth. Never scrape them with anything metallic, nor with your fingernail. Rotate both rollers, to be sure they are completely clean.

On the side where the rollers are partially covered, there is a narrow slot. Inspect the slot and clean it if necessary.

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.



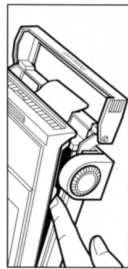
3. Clean the tab slot: If dirt collects here, the yellow tab cannot pop out. Carefully open the narrow door and clean the slot with a cloth.



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.

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.

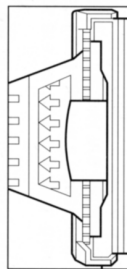
1. Carefully open the holder without moving the pack. You can use a fingertip to make sure the pack doesn't move.



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.

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.

Picture Troubleshooting

Phenomenon	Possible Causes	Treatment
Dark picture	- The shutter was not released properly. - The electronic flash was not synchronous.	- Check operation. - Have the camera inspected.
Too dark picture	- The set aperture or shutter speed was incorrect. - The film speed is set erroneously.	- Increase the aperture or set a lower shutter speed. - Set the film speed correctly.
Whitish picture	- The set aperture or shutter speed was incorrect. - The film speed is set erroneously.	- Increase the aperture or set a lower shutter speed. - Set the film speed correctly.
Many white dots in picture	The color tab was removed too quickly.	Grasp the center part of the color tab and pull it straight out at a constant speed.
Rectangular image in picture	The white tab was not removed completely.	Pull out the white tab completely.
White dots at constant intervals	The roller is dirty.	Clean the roller.
Lack of corner images	- The development fluid was not distributed evenly because the white or color tab was not pulled out straight. - The development fluid was attached to the end of the roller.	- Pull out the white and color tabs straight at constant speeds. - Clean the roller.
Gray, unclear monochrome or pale-colored picture	- The development was not performed in the fixed period. - The temperature during development was low.	- Perform development in the specified period. - Increase the development period as indicated by the film's instructions.
Bluish or reddish overall tone	A bluish picture indicates too long a development period and a reddish picture indicates too short period.	Perform development in the specified period.

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.