



This manual is for reference and historical purposes, all rights reserved.

This page is copyright© by M. Butkus, NJ.

This page may not be sold or distributed without the expressed permission of the producer
I have no connection with any camera company

On-line camera manual library

This is the full text and images from the manual. This may take 3 full minutes for the PDF file to download.

If you find this manual useful, how about a donation of \$3 to: M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your e-mail address so I can thank you. Most other places would charge you \$7.50 for a electronic copy or \$18.00 for a hard to read Xerox copy.

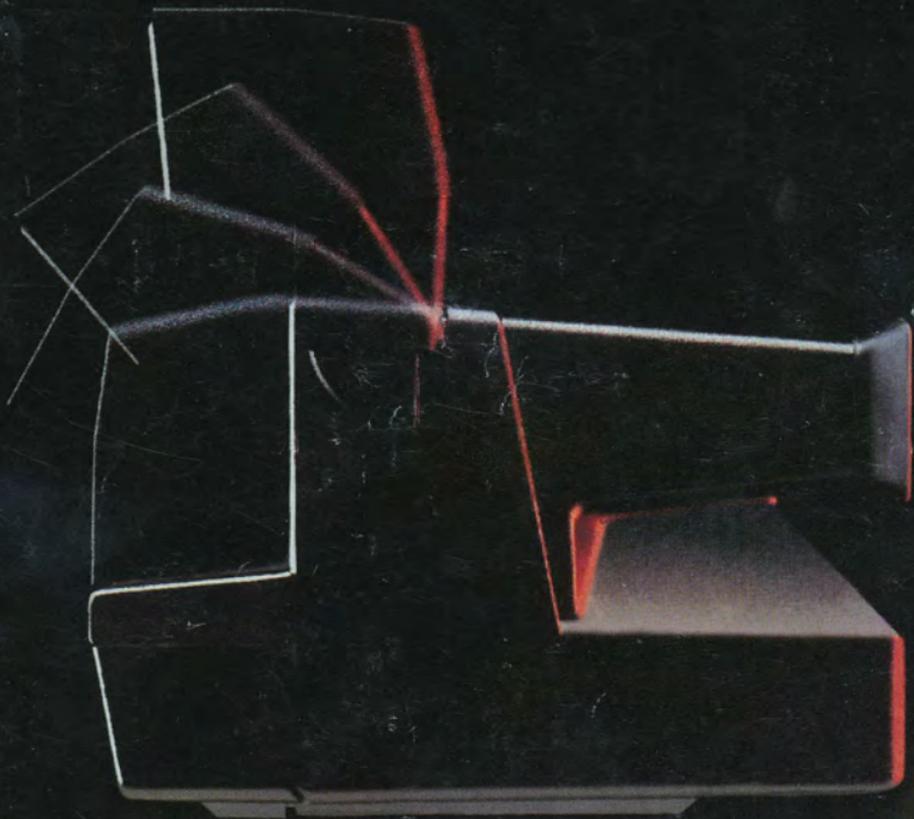
This will allow me to continue to buy new manuals and pay their shipping costs.

It'll make you feel better, won't it?

**If you use Pay Pal or wish to use your credit card,
click on the secure site on my main page.**

PayPal Name Lynn@butkus.org

 **Polaroid** Sun Autofocus 660 Land Camera



This product is listed by Underwriters' Laboratories, Inc. (UL). As a condition of listing, UL requires that basic safety information be provided.

IMPORTANT SAFEGUARDS

AS WITH ANY BATTERY-OPERATED EQUIPMENT, OBSERVE THESE BASIC SAFETY PRECAUTIONS:

1. FOLLOW ALL OF THESE INSTRUCTIONS.
2. DO NOT USE THE ELECTRONIC FLASH UNIT IF IT HAS BEEN DROPPED OR DAMAGED, UNTIL IT HAS BEEN EXAMINED AT AN AUTHORIZED POLAROID SERVICE CENTER.
3. TO AVOID ELECTRICAL SHOCK HAZARDS, DO NOT DISASSEMBLE THE FLASH UNIT. SERVICE OR REPAIR WORK MUST BE DONE ONLY BY AN AUTHORIZED POLAROID SERVICE CENTER. INCORRECT REASSEMBLY CAN CAUSE AN ELECTRICAL SHOCK WHEN THE FLASH UNIT IS USED AGAIN. DO NOT IMMERSE THE FLASH UNIT IN WATER OR OTHER FLUIDS.

PLEASE KEEP
THESE
INSTRUCTIONS

Important camera features

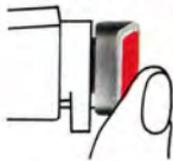
The autofocus system provides split-second automatic focusing as you take the picture.

The built-in electronic flash lifts up for picture-taking, folds down for carrying ease.

The flash is designed to be used for every picture – outdoors and indoors.

The red button both charges the flash and takes the picture.

1. Press the red button halfway to



charge the flash. A red light in the viewfinder means the flash is charging. It is not necessary to hold the camera to your eye

while the light is on. **In about 5 seconds** the flash is charged, the red light goes off and you can take a picture. Or, you can release the red button and the flash will stay charged for several minutes.

2. Press the red button all the way to take the picture.



Contents

2 Important safeguards

The system

3 Important camera features

5 A better way to take pictures

6 The camera

8 The electronic flash

8 Electronic flash range

8 Split-second automatic focusing

Using the camera

9 Raising and lowering the electronic flash unit

10 Loading the camera

11 Holding the camera

Great pictures in any light— outdoors and indoors

12 Use the electronic flash for every picture—outdoors and indoors

Special situations and troubleshooting

16 Trouble-free picture-taking

17 Photographing a distant scene through a window

17 Lighten/darken control

Customer information

18 Polaroid service centers and offices

19 Full one-year warranty

Call us, free

Whenever you have a question about your camera or pictures, call us toll free...

800-343-5000

from anywhere in the continental U.S.A. except Massachusetts, Alaska and Hawaii. From those states, call collect—(617) 494-8266. Our Customer Service representatives can be reached every weekday from 8 a.m. to 5 p.m., Eastern Time. In Canada, call toll free—800-268-6970.

For your convenience, these phone numbers are on the inside of your camera. You can see them when the film door is open.

A better way to take pictures

Few picture-taking situations provide just the right lighting to take the best photographs.

So Polaroid designed a unique new photographic system that makes it possible to take great pictures any time—in any light.

Under the direction of a tiny electronic computer, the system—a camera with a built-in electronic flash and Polaroid 600 Land film—measures light from the scene and blends it with just the right amount of flash to create an ideal photographic light for taking beautiful pictures—outdoors and indoors.

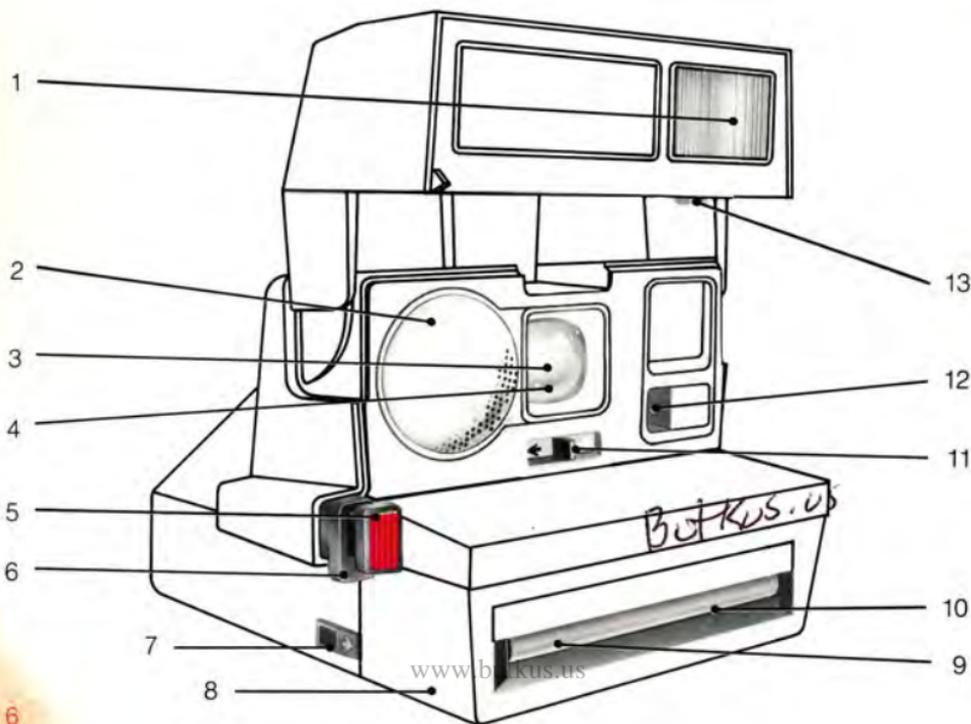
Your camera has an automatic focusing system, which consists of a fixed front lens and an internal rotating disk with four lenses. In a split second, using sound waves to measure the distance between the camera lens and your subject, the computer selects the lens that will put your subject into sharp focus, as you take the picture.

For the first time, the high-energy battery built into every film pack powers both the camera and the electronic flash, which means you need never purchase other batteries.

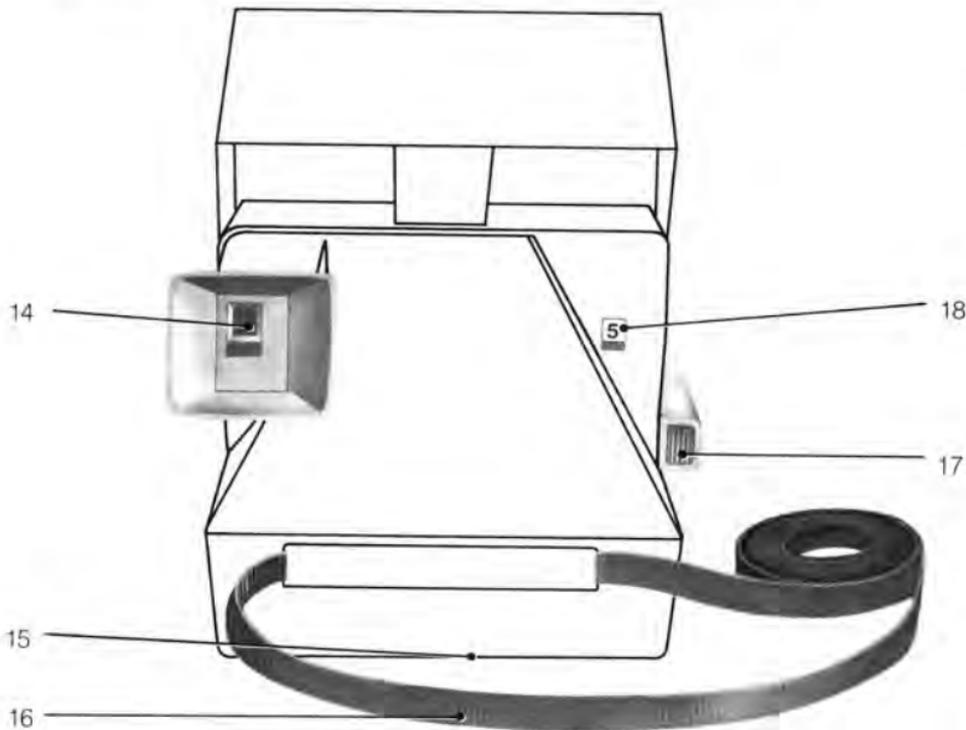
Polaroid 600 color film—the most light-sensitive instant color film made—was developed just for this system. *Other Polaroid films will not fit into or work with this system.*

The camera

1. Built-in electronic flash (1/3000 of a second).
2. Transducer (sends the sound waves and receives the echo).
3. Automatic focusing system (a fixed front lens and an internal rotating disk with four lenses).
4. Automatic variable speed/aperture shutter system (speeds range from 1/200 to 1/3 of a second; apertures from f/10 to f/45).
5. Red button (pressed halfway, it charges the flash; pressed all the way, it takes the picture).
6. Flash override button (see page 17).
7. Film door latch.
8. Film door.



9. Film shade (shields each picture from light as it exits the camera; it rolls out with the picture, then snaps back).
10. Film exit slot.
11. Lighten/darken control (see page 17).
12. Photocell (silicon photo-diode – measures light from the scene, outdoors and indoors).
13. Autofocus override button (see page 17).
14. Viewfinder.
15. Tripod socket.
16. Adjustable neckstrap.
17. Thumbrest.
18. Picture counter (indicates how many pictures remain).



The electronic flash

Both the electronic flash and the camera are powered by the high-energy battery built into every film pack.

The battery supplies all the power you need to fire the flash for **every** picture—outdoors and indoors.

The flash fully charges in about 5 seconds. It will stay charged for several minutes allowing you to take a spontaneous picture (see page 3).

A red light in the viewfinder indicates when the flash is charging. The camera will not operate until the flash is fully charged and the red light goes off. Since you cannot take a picture while the flash is charging, you never waste film.

In addition to providing split-second automatic focusing, your camera's computer uses the distance measurement to your subject to carefully control the amount of electronic flash that will reach the film.

Electronic flash range

Be sure to use the flash for every picture—**outdoors and indoors**.

For best results indoors, your subject should be from **2 to 14 feet** away and near a light colored background.

Outdoors, your subject should be **at least 2 feet** away.

Split-second automatic focusing

When you take a picture, your camera sends sound waves, at frequencies beyond our range of hearing, to the central part of the scene (approximate area circled in blue). At the same time, an internal disk with four lenses (behind the fixed front lens) starts to turn.

In a split second, a tiny electronic computer measures the time it takes for the sound to reach your subject and the echo to return, and calculates the distance between the camera lens and your subject. The lens that will put your subject into sharp focus at that distance then locks into place.

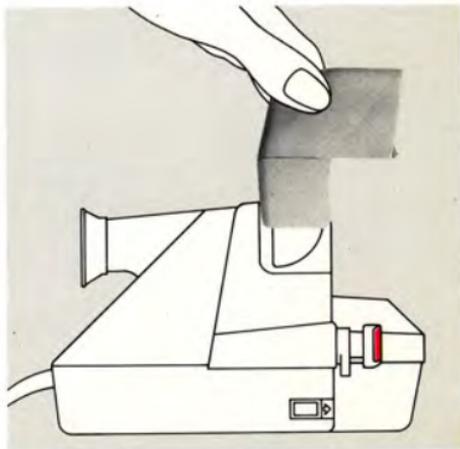


Raising and lowering the electronic flash unit

Grip the sides of the flash unit.

Swing the flash unit up to snap it in place.

When you are not using the camera, lower the flash unit. It will protect the lens and lock the red button.



Loading the camera

Use **only** Polaroid 600 color film.

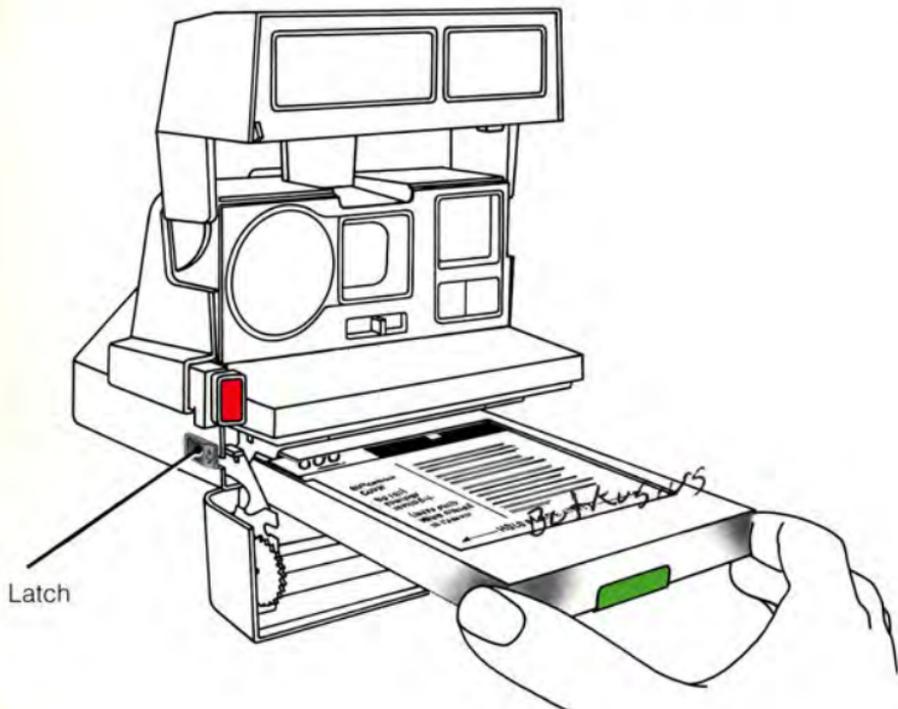
Push the latch **forward**. The film door will drop open.

Hold the film pack by its edges **only**, as shown (printed side up), and slide it all the way into the camera. Close the film

door. The camera will automatically eject the film cover.

Save the film cover to order copies and enlargements of your favorite pictures.

To remove an empty film pack, pull the colored tab on the film pack.



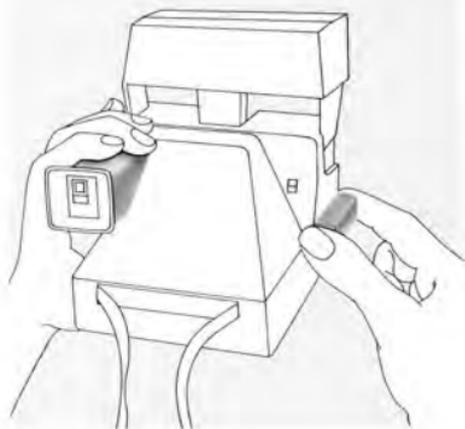
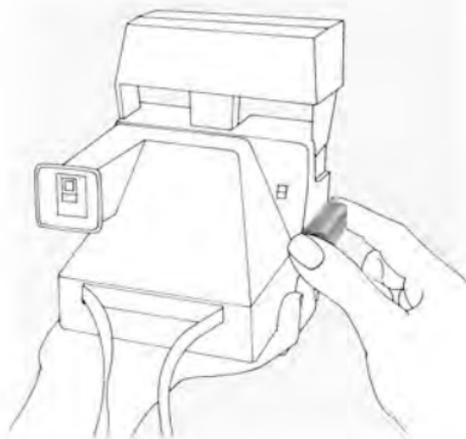
www.butkus.us

Holding the camera

Grip the camera in the palm of your left hand.

Place your right thumb on the thumbrest, your index finger on the red button, and curl your other fingers into your palm.

Or, if it is more comfortable, place the fingers of your left hand over the top of the viewfinder and your thumb under the camera—holding your right hand as described above.



Great pictures in any light – outdoors and indoors

The human eye adjusts to light differently than the camera's eye, which makes it difficult to judge how light from the scene will affect your picture.

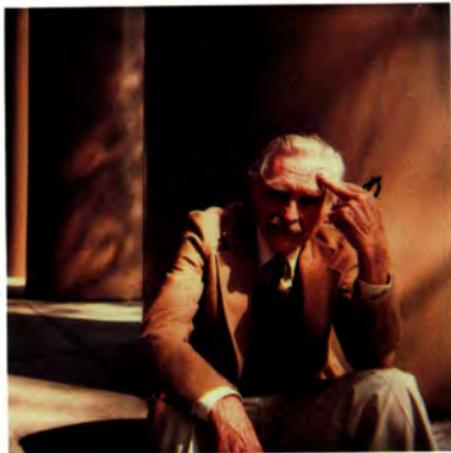
Everyone who takes pictures has had the experience of looking at a subject or scene, photographing it, and being disappointed with the picture because it looks different than what he or she saw in the viewfinder.

Polaroid's new photographic system gives you the beautiful picture you expect to see. By blending light from the scene with just enough flash, the system creates a new photographic light that more accurately reproduces, on film, what appeared in the viewfinder.

Here are some examples of what this system can do when you use the electronic flash for **every picture** – outdoors and indoors.

Use the electronic flash for every picture—outdoors and indoors

In this outdoor scene, photographed without electronic flash, bright sunlight has created harsh facial shadows. When taking a picture in this lighting situation, your eye adjusts to these shadows, showing you, in the viewfinder, facial features that will not be recorded on film.



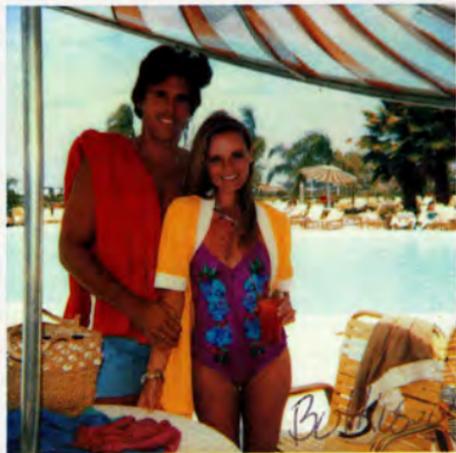
Your new photographic system will blend sunlight with just the right amount of flash to soften shadows and reveal the facial details you expect to see in the picture.



Use the electronic flash for every picture—outdoors and indoors

Shade, such as that provided by a poolside umbrella, will spare your subject from having to squint in the harsh sunlight, but it does not always provide enough light for a well-exposed picture.

Your camera's built-in electronic flash will automatically supply the additional light needed to produce a pleasing photograph.



www.butkus.us

Here, the sun was behind the subject, casting more light on the background than on the foreground, causing the subject to appear too dark in the picture.



The combination of just enough electronic flash with existing light will produce an evenly-exposed picture.



Trouble-free picture-taking

Hold the developing picture by its wide white border.

While it is developing, keep the picture out of direct sunlight.

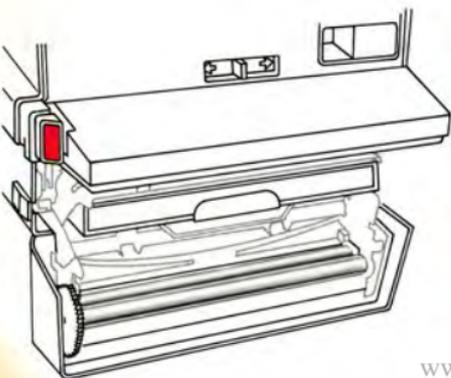
When the temperature is below 55°F (13°C), keep the camera and film warm. Immediately place the developing picture in a warm pocket for at least a minute.

Keep the developer rollers clean.

Dirty rollers can cause a repeated spot or bar pattern to appear in the picture.

The developer rollers are located inside the film door. If there is film in the camera, open the door in dim light.

Clean the rollers with a damp, lint-free cloth.



What to look for if the camera does not operate:

Check the picture counter. When the film pack is empty, the flash will charge but you cannot take a picture.

Look through the viewfinder. When the red light is on, the flash is charging and you cannot take a picture.

Be sure the sound waves have a clear path to your subject.

The sound waves travel to the central part of the scene (see page 8). If an object in the foreground prevents the sound from reaching your subject, the internal lens disk will focus on the foreground object, causing your subject to be out of focus. If this happens when you are using flash indoors, your subject will also be too dark.



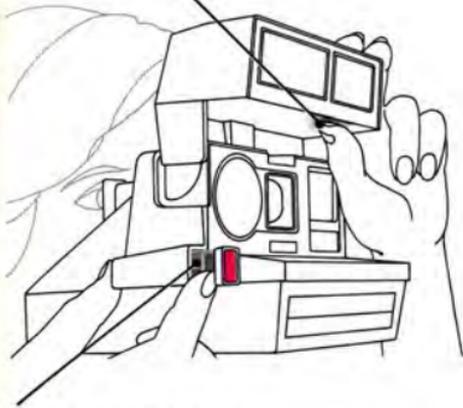
www.bushis.us

Photographing a distant scene through a window

Photographing a **daylight** scene (more than 12 feet away) through a window is a special situation which requires that you take these precautions.

To avoid focusing on the window, **hold in** the autofocus override button, as shown. To avoid a flash reflection, stop the flash from firing and take the picture by pressing the flash override button, as shown.

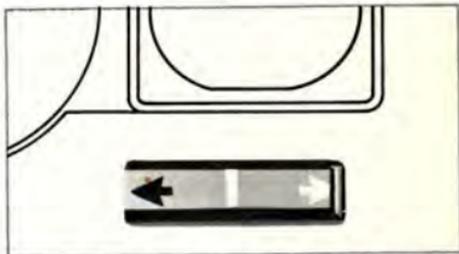
Autofocus override button



Flash override button

Lighten/darken control

Use this control **only** when you want to reshoot a picture to make it lighter or darker.



To take a lighter picture, slide the control past the white arrow.



To take a darker picture, slide the control past the black arrow.



Return the control to center when you have finished reshooting. A white double arrow appears in the bottom of the viewfinder as a reminder that the control is not in center position.

Polaroid service centers and offices

If you think your camera needs repair, please call Customer Service toll free at 800-343-5000 from anywhere in the continental U.S.A. except Massachusetts, Alaska and Hawaii. From those states, call collect - (617) 494-8266.

We can be reached Monday through Friday, 8 a.m. to 5 p.m., Eastern Time. In Canada call toll free 800-268-6970. We may be able to save you the time and trouble of returning the camera to one of the centers listed below.

California

Polaroid Corporation
3232 West MacArthur Blvd.
Santa Ana 92704

Canada

Polaroid Canada, Inc.
350 Carlingview Drive
Rexdale, Ontario M9W 5G6
Polaroid Canada, Inc.
1470 City Councillors Street
Montreal, Quebec H3A 2E5

Georgia

Polaroid Corporation
5601 Fulton Industrial Blvd., S.W.
Atlanta 30378

Massachusetts

Polaroid Corporation
784 Memorial Drive
Cambridge 02139

New Jersey

Polaroid Corporation
P.O. Box 607
W-95 Century Road
Paramus 07652

Puerto Rico

Polaroid Caribbean Corp.
Charlyn Industrial Park
Road 190, Km 1.7
Carolina 00630
Telephone: (809) 768-1119

Mailing address:

P.O. Box 2032
Carolina 00630

Additional Service Centers:

There are many other Polaroid-owned and independent Authorized Service Centers in the U.S.A. and overseas. To locate the one closest to you or to where you are travelling, call our Customer Service numbers listed above.

www.butkus.us