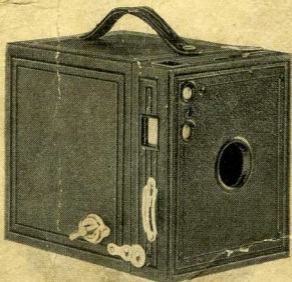


*Picture taking with the*  
**Nos. 2C and 3**  
**Brownie Cameras**



EASTMAN KODAK COMPANY  
ROCHESTER, N. Y., U. S. A.

## SERVICE DEPARTMENT

ADDITIONAL ASSISTANCE FOR  
MAKING BETTER PICTURES

**A**LTHOUGH we give in this manual the essential directions for using the camera it accompanies, there are amateurs who wish for further knowledge of photography.

The Service Department is at their service, *your* service.

Do not hesitate to call on us for information on any photographic subject.

*We are at your service, write to us—  
there is no charge, no obligation.*

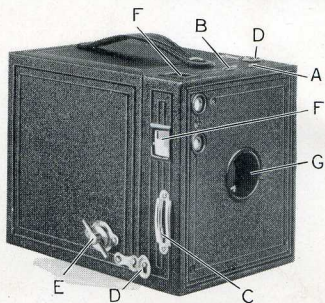
Address all Communications

SERVICE DEPARTMENT  
EASTMAN KODAK COMPANY  
ROCHESTER, N. Y.

*Picture taking with the*  
Nos. 2C and 3  
Brownie Cameras

*Published by*  
EASTMAN KODAK COMPANY  
ROCHESTER, N. Y., U. S. A.

## THE CAMERA



- |                                      |                  |
|--------------------------------------|------------------|
| A—Exposure Slide                     | D—Spring Catches |
| B—Slide controlling<br>Stop Openings | E—Winding Key    |
| C—Exposure Lever                     | F—Finders        |
|                                      | G—Lens Opening   |

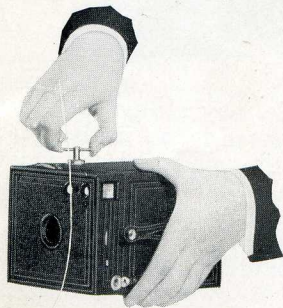
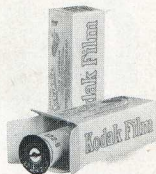
## IMPORTANT

**B**EFORE taking any pictures with your camera, and before loading it with film, study these instructions carefully. Take especial care to learn how to operate the shutter.

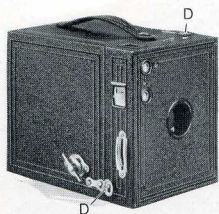
While loading and unloading, be very careful to keep the protective paper wound tightly around the film to prevent the light striking it. The camera can be loaded or unloaded in daylight. This should be done in a subdued light, *not* in direct sunlight.

### TO LOAD

Use film number:  
**130** for No. 2C Brownie.  
**124** for No. 3 Brownie.

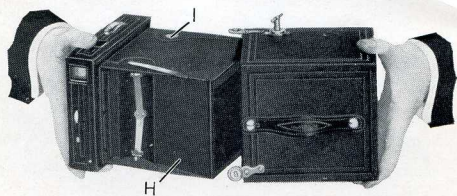


Draw out the winding key as far as it will come, turning it slightly.



Push inward on the spring catches D-D and remove the roll holder H.

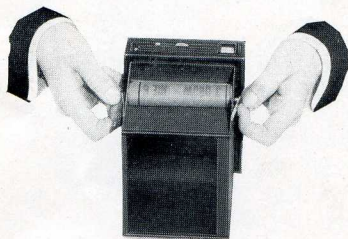
There is an empty spool in the recess on the winding side of the roll holder; this is to be used as the reel.



The winding side may always be distinguished by the small hole I in the top of the roll holder, through which the key is inserted in the reel.

Place the spool of film in the recess opposite the winding side, and draw out the spring grips.

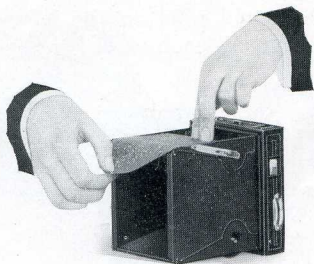
Fit the spool pins on the spring grips into the holes at each end of the spool.



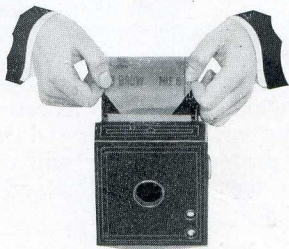
### Important

The word "TOP" which is printed on the protective paper near the top of the spool must be next to the top of the roll holder, which has the round opening I, through which the key is inserted in the reel. If the cartridge is inserted the wrong way the protective paper will come between the lens and the film and no pictures could be made.

Remove the band that holds the protective paper and pass the paper *over the rollers* and across the opening in the back of the roll holder, see illustration on page 6.



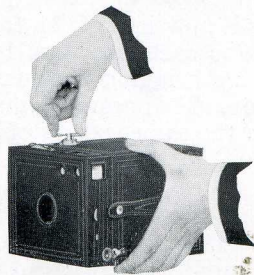
Thread the paper through the *longer* opening of the slit in the reel *as far as it will go*. Give the spool two or three for-



ward turns to make the paper hold securely on the spool.

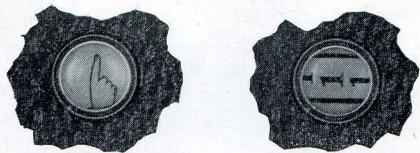
Be sure that the paper is started straight. Do not unroll too much protective paper or the film will be fogged and ruined.

Insert the roll holder in the outside box so that the slotted end of the winding reel which shows through the round hole I, page 4, in the top of the roll holder, will come next to the winding key in the outside box. Fasten the roll holder to the outside box with the two catches D-D, page 4.



Press in, and at the same time turn the winding key until the web at the lower end of the key fits into the slot in the spool end.

Turn the key and watch the red window. After a few turns, a warning hand will appear; then turn slowly until the figure 1 is in the center of the window.



Press in the winding key slightly, when turning it.

The film is now in position for the first picture. After each exposure be sure to wind the film, bringing the next number into position. This prevents making two pictures on the same section of film.

## MAKING THE EXPOSURES INSTANTANEOUS EXPOSURES

### “Snapshots”

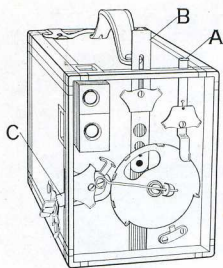
THE shutter of the No. 2C or the No. 3 Brownie Camera is released by pushing the lever either to the right or left with the thumb. Push the lever *slowly, in one direction only, and as far as it will go*. If no “click” is heard no exposure is made.

When making instantaneous exposures or snapshots, the subject should be in the broad, open sunlight, but the camera must not. The sun should be behind your back or over the shoulder. If it shines directly into the lens it will blur and fog the picture.

Special instructions for making portraits are given on pages 21, 22 and 23.

Slide A (diagram, page 10) controls the shutter for time and instantaneous or snapshot exposures. For instantaneous exposures or snapshots this slide must be pushed down, or all the way in; it must be drawn out for time exposures.

Slide B (diagram, page 10) controls the three stop openings.



A—Exposure Slide  
 B—Stop Opening Slide  
 C—Exposure Lever

This diagram shows the position of slide B when the smallest stop opening is in front of the lens.

## STOP OPENINGS

The stop openings regulate the amount of light passing through the lens. When slide B is all the way down the largest stop opening is in position. *This is the one to use for snapshots of all ordinary subjects.* To bring the middle stop in front of the lens draw out slide B until it catches. When slide

B is drawn out as far as it will go, the smallest stop opening is in front of the lens, see diagram. For ordinary snapshots both the slides A and B shown in the diagram, should be pushed *all the way down*.

The stop openings (diaphragms) should be used as follows:

**1. The Largest**—For snapshots of all ordinary outdoor subjects such as nearby landscapes showing little or no sky, groups and street scenes, when the subject is in the bright sunlight.

**2. The Middle**—For instantaneous exposures or snapshots when the sunlight on the subject is *unusually strong* and there are no heavy shadows—such as views at the seashore, on the water, distant views, snow scenes, and clouds only; also for Interior Time Exposures, the time for which is given in the table on page 20.

**3. The Smallest**—For Time Exposures Outdoors on cloudy days, see page 25. *Must never be used for instantaneous exposures.*

The smaller the stop opening the sharper the nearby objects will be.

When setting the stop openings always make sure that the one to be used is *brought to the center of the lens*, where it catches.

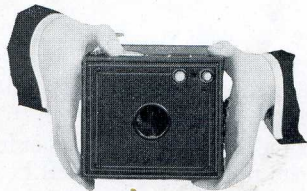
If the *smallest stop* is used for instantaneous exposures *failure will result*.

All the exposures given for outdoor subjects are for hours from two and a half hours after sunrise until two and a half hours before sunset. If earlier or later the exposures must be longer. For subjects in the shade, under porches or under trees, no accurate directions can

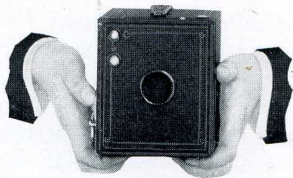
be given; experience only can teach the correct exposure to give.

### THE FINDERS

There are two finders, one for horizontal and the other for vertical pictures. Only what is seen in the finder will show in the picture.



For a horizontal picture hold the camera as shown above.



For a vertical picture the camera should be held as in the illustration above.

Point the camera at the subject to be photographed and looking into the finder from directly over the center of it, include what you want and compose the picture by turning to the right or left, see page 14.

### MAKING THE EXPOSURE

Hold the camera steady and level as shown in the illustrations and push the exposure lever *once*, as far as it will go. *This makes the exposure.*

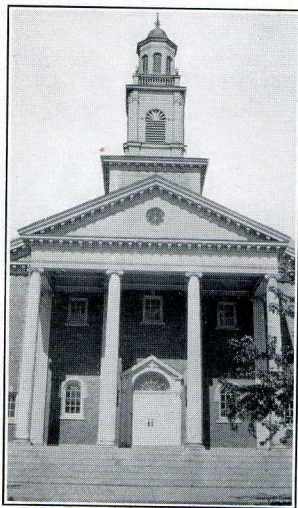
**Important:** The exposure lever must be pushed *slowly* to avoid jarring the camera. If the camera is not held steadily the picture will be blurred.





When making instantaneous exposures or snapshots, hold the camera firmly against the body. When pushing the exposure lever, hold the breath for the instant. If the camera is moved during the exposure, the picture will be blurred.

## HOLD CAMERA LEVEL



*Effect produced by tilting the camera.*

The camera must be held level. If all of the subject cannot be included in the finder without tilting the camera upwards, move backwards until it is all included *with the camera held level.*

If the subject is below the normal height, like a small child or a dog, the camera should be held down level with the center of the subject.

### TURN A NEW SECTION OF FILM INTO POSITION

Press in the winding key slightly and turn it slowly until No. 2 is in the center of the red window.



The warning hand appears only before section No. 1.

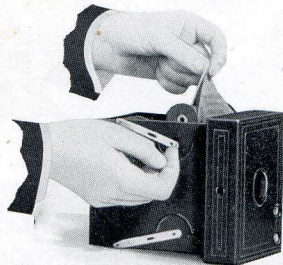
Turn the next section of film into position immediately after making each exposure; this prevents making two pictures on the same section of film.

### REMOVING THE FILM

After all the exposures have been made, turn the winding key until the end of the protective paper passes the window. The film is now ready for removal from the camera.

In a subdued light, open the camera and remove the roll holder as shown on pages 3 and 4. Hold the ends of the pro-

TECTIVE paper and the sticker together to prevent paper from loosening. Spring out the spool pin and remove the roll of exposed film. If the sticker has been wound under the roll, revolve the spool to bring it up.



Fold under about half-an-inch of the protective paper, and fasten it with the sticker.

Wrap up the exposed film. It is now ready for development. This may be done by a photo finisher, or if you should wish to do the work yourself, obtain from your Kodak dealer the materials needed. If desired, write to our Service Department, mentioning the size of the pictures made with your camera, and we will send you

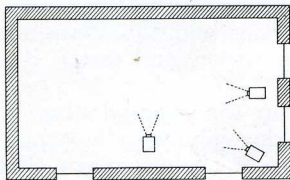
a list of the necessary materials which can be ordered through a Kodak dealer.

**Important:** Film should be developed as soon as possible after exposure. The quality of the image on all sensitized products is retained by prompt development after exposure.

Remove the empty spool and place it in the recess on the winding side of the roll holder. The slotted end of the spool should come next to the key hole.

It is a good plan to reload the camera as soon as an exposed film has been removed, to be ready for the next pictures. Load the camera with Kodak Film.

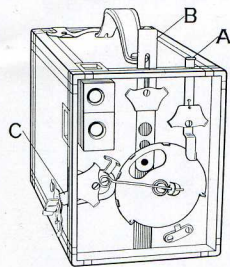
### TIME EXPOSURES—INDOORS



For time exposures the camera must always be placed on a table, chair, tripod, Optipod or some other firm support. *Never* hold the camera in the hands.

The Nos. 2C and 3 Brownie Cameras have two tripod sockets for use with a tripod or an Optipod.

Place the camera in such a position that the finder will include the view desired. The opposite diagram shows three positions for the camera. It should not be pointed directly at a window, as the glare of light will blur the picture. If all the windows cannot be avoided, draw the shades of those within range of the lens.



This diagram shows the position of slide B when the smallest stop opening is in front of the lens.

Draw out the exposure slide A on the top of the camera front, as shown in the diagram. When this slide is drawn all the way out, and the exposure lever C is pushed to the opposite end of slot, the shutter opens and *remains open* until the lever C is pushed again to its original position.

To make the exposure, push the lever C *slowly* to open the shutter; give the proper time (using a watch if more than

EXPOSURE TABLE FOR INTERIORS

	Bright sun	Hazy sun	Cloudy bright	Cloudy dull
White walls and more than one window.	4 secs.	10 secs.	20 secs.	40 secs.
White walls and only one window.	6 secs.	15 secs.	30 secs.	1 min.
Medium colored walls and hangings and more than one window.	8 secs.	20 secs.	40 secs.	1 min. 20 secs.
Medium colored walls and hangings and only one window.	12 secs.	30 secs.	1 min.	2 mins.
Dark colored walls and hangings and more than one window.	20 secs.	40 secs.	1 min. 20 secs.	2 mins. 40 secs.
Dark colored walls and hangings and only one window.	40 secs.	1 min. 20 secs.	2 mins. 40 secs.	5 mins. 20 secs.

These exposures are for rooms where windows get the direct light from the sky and for hours from three hours after sunrise until three hours before sunset. If earlier or later the exposures must be longer.

two seconds), and push the exposure lever C in the opposite direction or push in the slide A, to close the shutter.

Press in and turn the winding key until the next number appears in the center of the red window.

### Exposure Table for Interiors

The table on page 20 gives suitable exposures required for varying conditions of light with the middle or second stop opening in front of the lens.

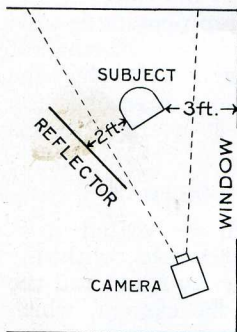
When the largest stop opening is used give one-half the time; when the smallest stop opening is used give twice the time of the table. The middle or second stop opening gives the best average results for interiors.

### TO MAKE A PORTRAIT

The subject should be seated in a chair partly facing the light, with the body turned slightly away from, and the face turned towards the camera, which should be a little higher than an ordinary table. The subject should look at an object level with the lens or directly at the lens. For a three-quarter figure, the camera should be about eight feet from

the subject; and for a full-length figure about ten feet. The background should form a contrast with the subject; a light background usually gives a better effect than a dark one.

To get a good light on the face, follow the arrangement shown in the diagram. A reflector helps to get detail in the shaded part of the face. A white towel or tablecloth held by an assistant or thrown over a screen or other high piece of furniture



will make a suitable reflector; it should be at an angle and in the position indicated in the diagram.

To make portraits when the subject is about eight feet from the camera, use the smallest stop opening. If the subject is about ten feet

from the camera use the middle stop opening; and when the subject is farther from the camera than ten feet, use the largest stop opening. For the time of exposure

necessary with the different stop openings for interiors, refer to pages 20 and 21.

## Making Portraits Outdoors

When making portraits outdoors, with the sun shining brightly, the subject should be in the shadow of a building or a large tree, but with clear and unobstructed sky overhead. Place the camera on a tripod, Kodapod or some other steady, firm support, use the third or smallest stop opening, and make a time exposure of one or two seconds. By following this rule unpleasant and distorting shadows on the face will be avoided.

## Kodak Portrait Attachment

The Kodak Portrait Attachment makes large head and shoulder portraits. It can also be used for photographing flowers and similar subjects.

Place the Attachment in the lens opening and compose the picture in the finder. *The subject must be exactly  $3\frac{1}{2}$  feet from the lens;* measure the distance carefully from the lens to the face. The same exposure is required as without the Attachment. For the best results, use the second

or middle stop opening, and expose accordingly (see table on page 20).

Use *Kodak Portrait Attachment No. 4* with the Nos. 2C and 3 Brownie Cameras.

### **Kodak Diffusion Portrait Attachment**

The Kodak Diffusion Portrait Attachment is a supplementary lens used in the same manner as the regular Kodak Portrait Attachment. By using this Attachment, portraits are made more artistic, due to the softening effect of diffusion.

Use *Kodak Diffusion Portrait Attachment No. 4* with the No. 2C and No. 3 Brownie Cameras.

"AT HOME WITH THE KODAK" is a booklet containing many diagrams and illustrations showing various lighting effects. It gives suggestions for making pictures, in and around the home.

"PICTURE TAKING AT NIGHT" is a booklet that describes in detail the methods of making flash-light exposures, camp fire scenes, fireworks, lightning, moonlight effects, silhouettes and other novel and unusual pictures.

The two booklets described on page 24 are free, and copies of them will be sent upon request to our Service Department.

### **TIME EXPOSURES—OUTDOORS**

When the smallest stop opening is used, the light passing through the lens is so much reduced that very short time exposures outdoors may be made.

**With Sunshine**—Time Exposures should not be made.

**With Light Clouds**—From one to three seconds will be sufficient.

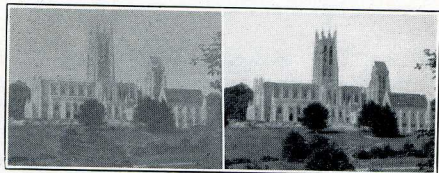
**With Heavy Clouds**—Four to eight seconds will be required.

### **"CINCH MARKS"**

After removing the film from the camera, do not wind it tightly with a twisting motion, or the film might be scratched.

## CLEAN LENSES

These illustrations show results of using a dirty and clean lens.



*Made with Dirty Lens. Made with Clean Lens.*

Lenses should be cleaned as follows: Open the camera (when there is no film in it) and remove the roll holder, then open the shutter. The shutter should be adjusted for making a Time Exposure, and the largest stop opening must be in position. Hold the roll holder so that the front is towards the light, then look through the lens from the back, and if the lens is dirty, it should be wiped, both front and back, with a clean handkerchief.

### Keep Dust Out of the Camera

Wipe the inside of the camera occasionally, with a slightly damp cloth, especially if the camera has not been used for some time.

## PRICE LIST

KODAK N. C. FILM CARTRIDGE, No. 130, 2 $\frac{7}{8}$ x 4 $\frac{7}{8}$ , for the No. 2C Brownie Camera, six exposures . . . . .	\$ .45
KODAK N. C. FILM CARTRIDGE, No. 124, 3 $\frac{1}{4}$ x 4 $\frac{1}{4}$ , for the No. 3 Brownie Camera, twelve exposures . . . . .	.90
Six exposures . . . . .	.45
CARRYING CASE, with shoulder strap, for the No. 2C Brownie Camera . . . . .	1.60
CARRYING CASE, with shoulder strap, for the No. 3 Brownie Camera . . . . .	1.60
KODAK PORTRAIT ATTACHMENT, No. 4, for use with the No. 2C and No. 3 Brownie Cameras . . . . .	.75
KODAK DIFFUSION PORTRAIT ATTACH- MENT, No. 4 . . . . .	1.25
KODAK SKY FILTER, No. 4 . . . . .	1.15
KODAK COLOR FILTER, No. 4 . . . . .	1.15
KODAK METAL TRIPOD, No. 0 . . . . .	2.75
OPTIPOD, for attaching camera to the edge of a table, chair, fence, etc. . . . .	1.25
KODAPOD, for attaching camera to a tree, fence or similar rough surface . . . . .	1.75

KODAK NEGATIVE ALBUM, to hold 100 3¼ x 5½ or smaller negatives . . . . .	1.50
KODAK NEGATIVE ALBUM, to hold 100 3¼ x 4¼ or smaller negatives . . . . .	1.25
KODAK TRIMMING BOARD No. 2, capa- city 7 x 7 inches . . . . .	1.00
KODAK DRY MOUNTING TISSUE, 2⅞ x 4⅞ or 3¼ x 4¼, three dozen sheets . . . . .	.10
RHODES ALBUM, flexible leather cover, size 7 x 11, loose-leaf, 50 black leaves . .	2.75
Cloth cover, size 7 x 11 . . . . .	1.25
VELOX TRANSPARENT WATER COLOR STAMPS, booklet of twelve colors . . . . .	.50
VELOX WATER COLOR OUTFIT, consisting of Artist's Mixing Palette, three Camel's Hair Brushes and one book of Velox Transparent Water Color Stamps (twelve colors) . . . . .	1.00
"HOW TO MAKE GOOD PICTURES," an illustrated book of helpful suggestions. It describes various methods of mak- ing exposures, developing, printing, enlarging, coloring, making lantern slides, etc. . . . .	.50

*All prices subject to change without notice.*

EASTMAN KODAK COMPANY,  
ROCHESTER, NEW YORK.

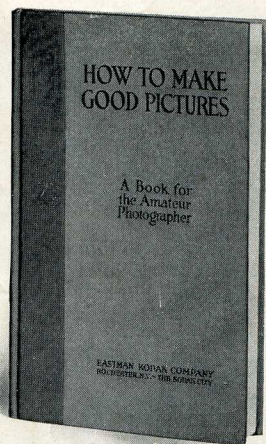


## The Kodak Portrait Attachment

Fits your Brownie for head and shoulder portraits—it enables you to approach closer to the subject and get a larger image, sharply focused at short range.

EASTMAN KODAK COMPANY  
At your dealer's                      ROCHESTER, N. Y.





**A** PRACTICAL book for amateurs. It describes in a simple, understandable way every phase of photography that they are likely to be interested in, such as various methods of making exposures, developing, printing, enlarging, coloring, making lantern slides, etc. Profusely illustrated.

EASTMAN KODAK COMPANY

Sold at your dealer's

ROCHESTER, N. Y.

## IMPORTANT

Read this manual thoroughly before making any pictures.

While loading and unloading the camera, be very careful to keep the protective paper wound tightly around the film to prevent light striking it.

Before making an exposure be sure that the shutter is adjusted properly for an instantaneous or a time exposure whichever is required; that the correct stop opening is in front of the lens and that an unexposed section of the film is in position.

The sun must be behind your back or over the shoulder. If the sun shines directly into the lens it will blur and fog the picture.

Hold the camera *level*.

Hold the camera *steady* when making instantaneous exposures or snapshots. The camera should be held firmly against the body and when pushing the exposure lever, hold the breath for the instant. If the camera is moved during the exposure, the picture will be blurred.

Turn a new section of film into position immediately after making an exposure. This will prevent making two pictures on the same section of film.

Keep the lens and inside of the camera clean.

Instructions for making time exposures, indoors and outdoors, are included in this manual.

EASTMAN KODAK COMPANY,

ROCHESTER, N. Y.

## Outdoor Exposure Guide

for the Nos. 2C and 3 Brownie Cameras

SUBJECT	STOP OPENING	SHUTTER SPEED
Ordinary landscapes with or without sky showing. Nearby subjects in open field, park or garden. Street scenes.	Largest	Snapshot
Snow, marine and beach scenes. Distant landscapes. Mountains.	Middle	Snapshot
Portraits in the open shade, not under trees or the roof of a porch. Shaded nearby scenes. Narrow and slightly shaded streets.	Smallest	Time Exposure of one or two seconds

This exposure table is for the hours from 2½ hours after sunrise until 2½ hours before sunset on days when the sun is shining.