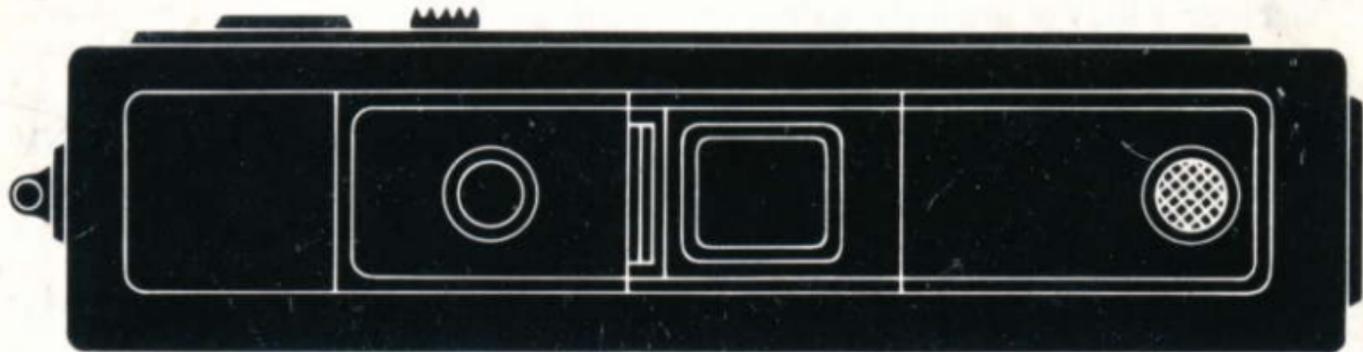


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# MINOLTA POCKET AUTOPAK 470



OWNER'S MANUAL



Your Minolta Pocket Autopak 470 is one of the most convenient cameras available today. It is extra light and compact. No. 110 cartridges make film handling effortless, and setting film speed is unnecessary. A programmed electronic shutter provides perfect exposures automatically under an unusually wide range of lighting conditions, and the camera tells you when to be careful of camera movement or use flash. Snapping on Minolta's specially designed Pocket Flash 110 automatically sets shutter for flash operation and engages the flashmatic system that adjusts aperture for proper exposure with distance set. The genuine coated all-glass Rokkor lens has convenient focus symbols and handy close-up capability.

Pages 6 and 7 tell briefly how to load and take pictures with your 470, but best results and longest service, please read this manual carefully all the way through and follow the simple directions. Then keep it for reference later as needed.

# IMPORTANT SAFEGUARDS

1

When using your flash unit, the specific cautionary notices in the Owner's Manual should always be observed and complied with as well as basic precautions, including the following:

1. Read and understand all instructions.

2

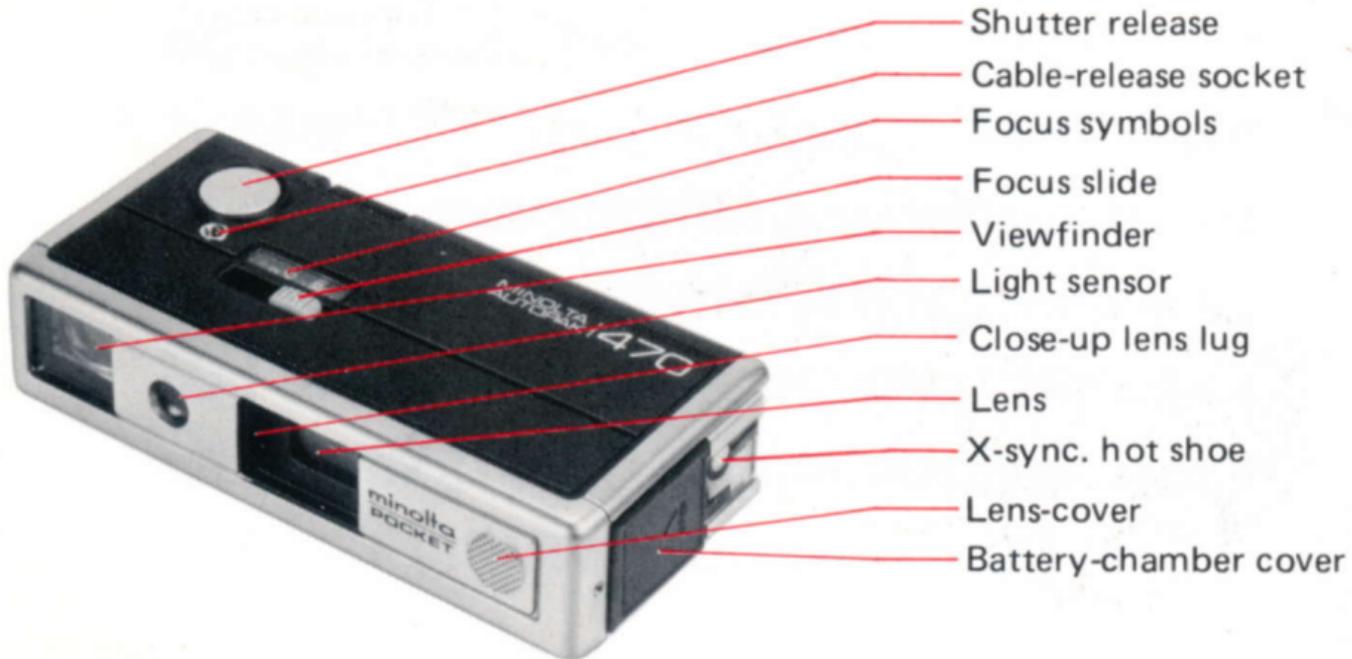
2. Do not operate this flash unit if it has been dropped or damaged-until it has been examined by an authorized Minolta service facility.
3. To protect against electrical shock hazards, do not immerse flash unit in water or other liquids.

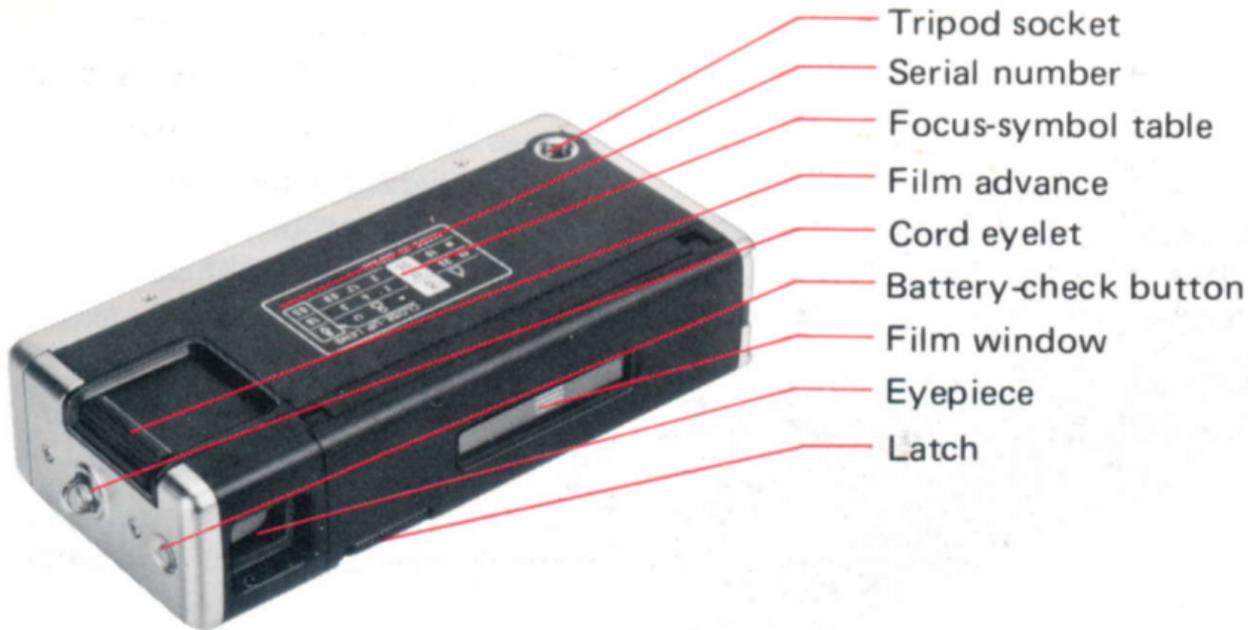
4. To avoid electric shock hazards, do not disassemble this unit, but take it to an authorized Minolta service facility when some service or repair work is required. Incorrect reassembly can cause electric shock hazard when the unit is used subsequently.

**SAVE THESE INSTRUCTIONS**

## NAMES OF PARTS

4





Tripod socket

Serial number

Focus-symbol table

Film advance

Cord eyelet

Battery-check button

Film window

Eyepiece

Latch



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## FOLLOW THESE SIMPLE STEPS TO USE YOUR POCKET AUTOPAK 470:

6

1. After installing battery (see p. 8), insert film cartridge and latch back cover.

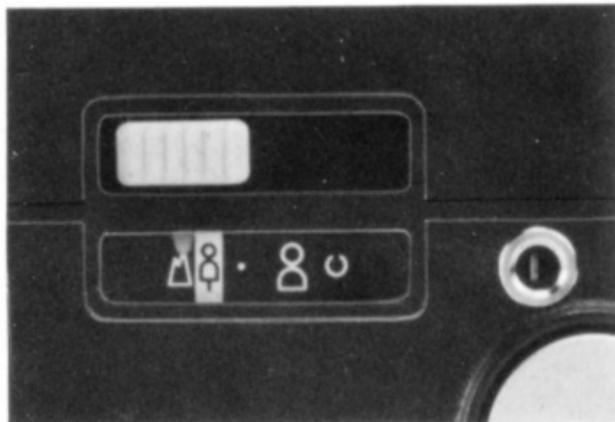


2. Operate film advance repeatedly until first exposure locks into place and advance will not move (more on p. 11)
3. Slide lens cover open (p. 12) and set focus slide to focus



4. Look through eyepiece and compose subject in bright frame of viewfinder. Depress shutter release slightly; if red lamp in finder lights, place camera on firm support (p. 18) or attach Pocket Flash 110 (p. 20) before taking

picture. If not, continue pressing release to make exposure. Always squeeze shutter release smoothly. **NEVER FORCE ANY PART OF CAMERA; CONTINUE READING FOR DETAILED INSTRUCTIONS.**



## INSTALLING BATTERIES

8

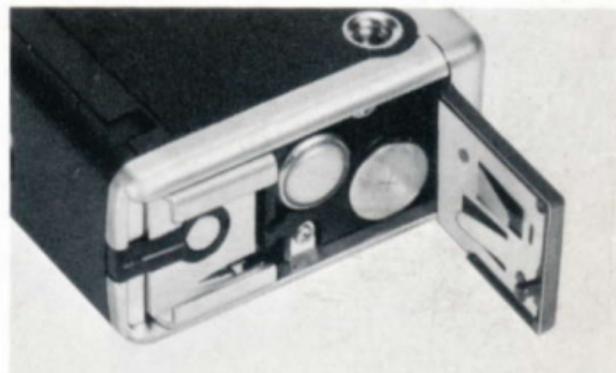
Your camera's exposure system and signal lamp are powered by two 1.5-volt silver oxide batteries, Eveready S-76 or equivalent. Be careful not to use 1.3-volt mercury batteries, which are available in a similar shape. Open the battery-chamber cover by lifting it as shown. Then insert two batteries with plus (+)



and minus (—) ends positioned as indicated inside the chamber, then close and latch the cover.

### CAUTION

If the camera is not to be used for two weeks or more, the batteries should be removed and stored in a cool dry place.



## CHECKING BATTERIES

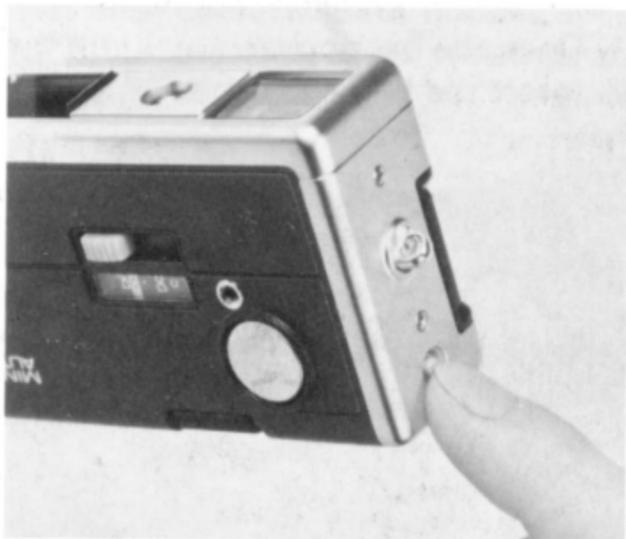
Batteries should be checked before taking picture. Push the battery check button on the end of the camera. If the red lamp centered at the right of the frame in the finder lights, the batteries are serviceable. If not, replace with fresh batteries.

### CAUTION

Slide the lens cover closed when the camera is not in use, to avoid the possibility of excessive battery drain by the finder lamp.

### NOTE

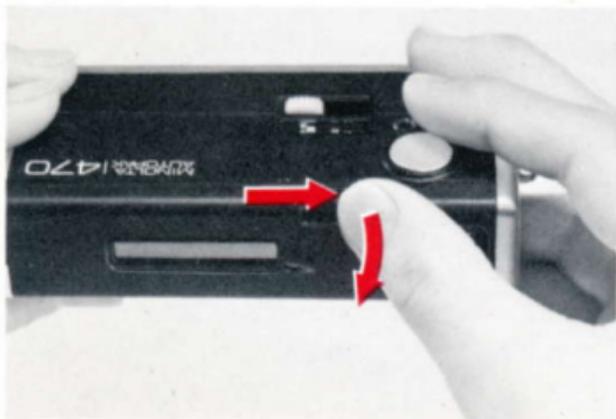
When battery power is insufficient or batteries are not installed, shutter release is possible but the exposure may not be correct.



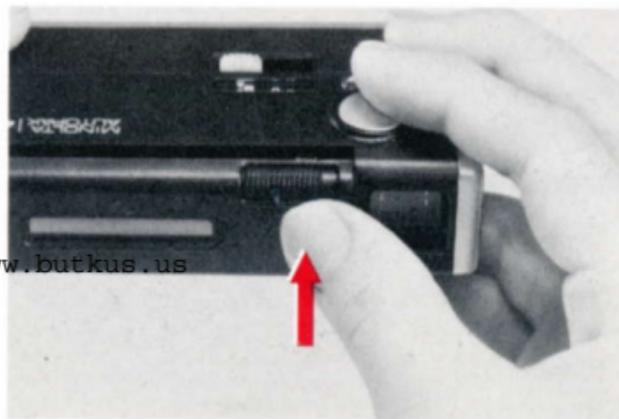
## LOADING AND ADVANCING FILM

10

1. Open the back cover.
2. Insert the film cartridge.



3. Close the cover and push in on it until it locks. (You can see the name of the film and the number of exposure in the window.)



4. Use your right thumb to operate the film advance repeatedly until it locks (about three full strokes). A series of I's should be visible in the film window to indicate the first exposure.



#### NOTE

The shutter release cannot be depressed unless the film advance has been operated until it locks.

Close the lens cover when carrying it in the camera case.

## LENS-COVER SLIDE

12

A sliding cover is built into the front of your camera. When closed, this protects the shutter and other parts in front of the lens, locks the shutter release, and makes full viewing through the finder impossible. To open the cover, slide it away from the viewfinder as far as it will go.

The shutter release cannot be depressed unless this slide is completely open.

### NOTE

Keep the lens cover closed when the camera is not in use.

### CAUTION

Be careful not to engage the close-up lens when you slide open the lens cover. This will set the camera for close-up operation and it will be impossible to obtain sharp pictures at normal picture taking distance.



## FOCUSING



A focus slide with focus symbols simplifies setting focus with your Pocket Autopak 470. For sharpest pictures, simply move this slide so that the red index points to the symbol for your subject.

Set the pointer to the mountain symbol farthest left for scenic pictures at distances of about 5.3m (17-1/2 ft.) or more.



The framed symbol marks the setting at which most snapshots are taken (3.5m or 11-1/2ft.) and has a click-stop to keep it in position once set; at this distance, the part of a standing adult from about head to ankles can be seen in the finder bright frame with the camera held horizontally. (This is also the setting to use with the close-up lens as explained on p.26 for subjects 50cm or 19 inches from the film.)



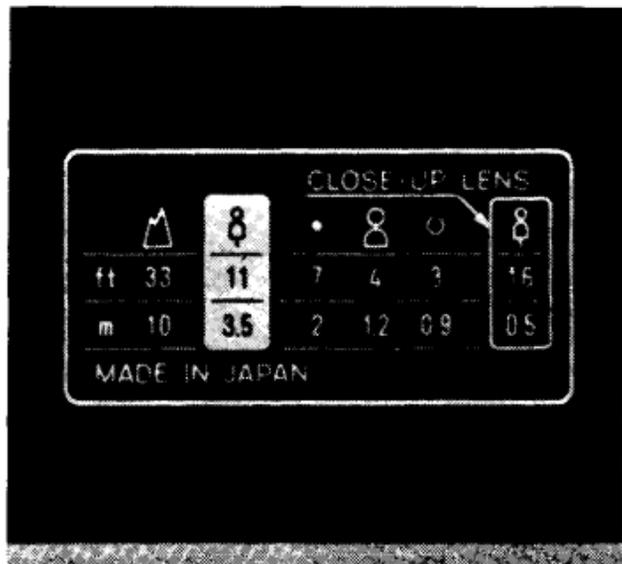
For head-to-hips pictures of people (at 2m or 7 ft.), set the pointer to the dot at the left above.

The symbol at the right focuses the lens for 1.2m (4 ft.), at which you can see from the top of the head to about mid-chest in the finder.



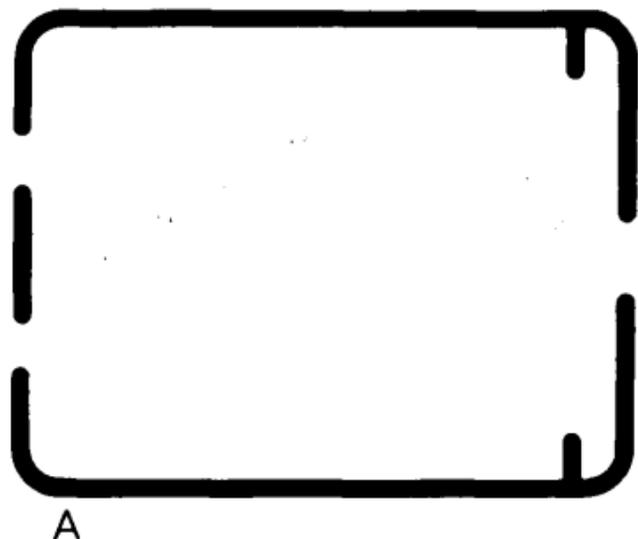
At this setting, the camera is focused for close head-and-shoulder portraits at 90cm (3 ft.).

A focus-symbol table is located on the bottom of your Pocket Auto-pak 470 for ready reference.



## VIEWFINDER

16

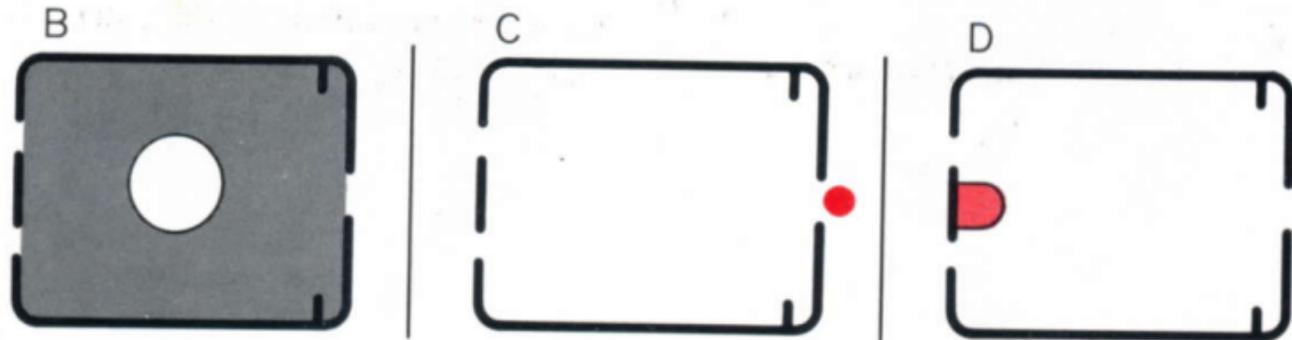


Looking into the eyepiece of your Pocket Autopak 470, you will see the bright frame, A, and the focus-symbol setting above it. What you can see inside this frame is the approximate subject area at the three farther focus-slide settings. Pictures at the two closer settings and with the close-up lens should be framed within the two short parallax-correction marks near the right-hand corners of the frame.

If the finder appears black with only a small circular image area visible in the center, B, the lens-cover slide is closed, and pictures cannot be taken (see p. 12).

The red lamp at the right side of the finder, C, lights as a low-light warning (see p. 19).

With the Pocket Autopak 470, appearance of red flag in the position shown in D indicates that the close-up lens is in position for use and you should take pictures as explained on p. 26.



## TAKING PICTURES

18

1. Make sure the film is fully advanced and the lens-cover slide is completely open.
2. Set focus for the proper camera-to-subject distance.
3. Hold the camera horizontally or vertically in a comfortable way in which it is steadied against your



face and will not move when you take the picture. Both hands and the camera cord should be kept behind the front edge of the camera.

4. Compose your picture within the bright-frame lines in the finder.



5. Depress the shutter release slightly. If the red light centered at the right side of the bright frame does not come on, hold the camera steady and continue to push the release all the way down to make the exposure.

If the red lamp lights and the Pocket Flash 110 is not attached (see pp. 20-25), place the camera on a solid support and make the exposure with a cable release screwed into the socket provided. Attaching the camera to a sturdy tripod is best, but it may also be placed on the edge or corner of a solid surface such as a wall or table and held in place while the

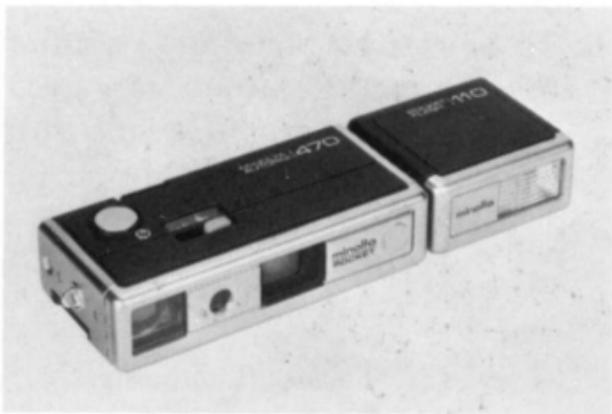
picture is taken. The red lamp in the finder stays on while the shutter is open, and it is important to keep the cable release plunger depressed until this lamp goes out. Remember that your pictures will be blurred if camera or subject moves during the exposure.

6. To be ready for the next picture, operate the film advance by pushing it with your right thumb until it locks.

## FLASH PICTURES

20 Flash photography with your Minolta Pocket Autopak 470 is simple and sure. For it you should use the special Minolta Pocket Flash 110 electronic unit, as described in the next section.

Installing the flash fixes the shutter speed at 1/100 sec. and engages



the flashmatic system that adjusts the aperture for proper exposure over the indicated range as the camera is focused.

### Minolta Pocket Flash 110

This compact electronic flash unit is specifically designed for use on Minolta Pocket Autopak 470 equipped with a direct-contact hot shoe for "X" synchronization.

### IMPORTANT

Remove the Pocket Flash 110 from camera when not taking flash pictures since auto-exposure control is overridden when flash is attached, and exposure will not be correct.

## NAMES OF PARTS

- Battery-chamber cover
- Flash tube and reflector
- Flash-range table
- Monitor lamp
- Power switch
- Bracket-lock release
- Cordless contact
- Attaching bracket

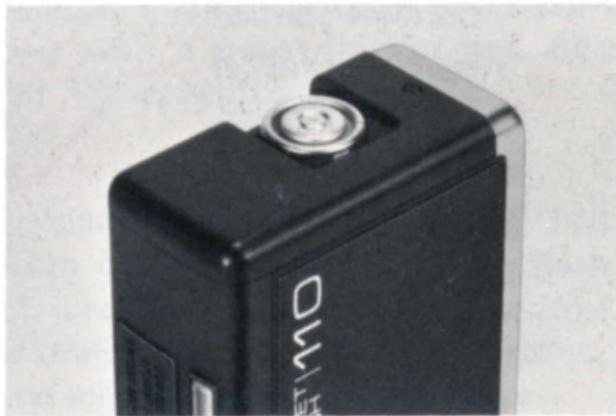


### Installing the battery

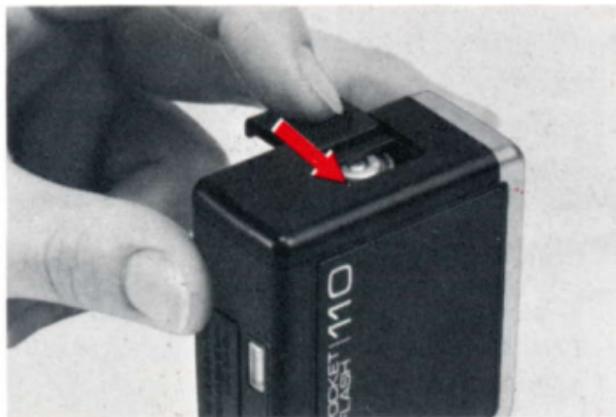
1. Remove the battery-chamber cover by sliding it in the direction of the arrow as shown.



2. Insert one 1.5-volt AA (penlight)-size alkaline, sealed carbon-zinc or Ni-Cd battery as specified on p. 32, making sure that plus (+) and minus (—) ends are positioned as indicated inside the chamber.



3. Replace the cover by aligning it parallel to the end of the unit as shown, depressing the end of the battery slightly, and sliding it into the retaining grooves, in the direction of the arrow, until it is securely in place.



### Mounting on camera

Simply slide the attaching bracket of the flash until all the way into the camera's hot shoe until it locks in place securely attached. (Do not attempt to separate camera and flash without properly depressing the bracket-lock release; see page 25.)



## Operation

1. Slide the power switch to "ON" and wait until the monitor lamp lights.
2. Making sure that the focus slide is set to the proper symbol for the camera-to-subject distance, hold the camera and flash unit steady and release the shutter. Disregard



lighting of the red lamp in the viewfinder when taking flash pictures. Exposure will be satisfactory within the flash-to-subject distance range indicated by the convenient table printed on the underside of the flash unit.

## NOTE

- A soft, high-pitched tone may continue to be audible for some time after the power switch is turned off; this is normal.
- When the monitor lamp fails to light within a reasonable time, say 30 seconds, with the power switch on, replace the battery with fresh one.

### Removing from camera

Depressing the red bracket-lock release as far as it will go, slide the flash unit out of the camera hot shoe as shown.



### CAUTION

- Be sure to move the power switch to "OFF" when you are not taking pictures.
- When the unit is not to be used for two weeks or more, it is recommended that the battery be removed from it to avoid the possibility of corrosion.
- Forcing the flash unit and camera apart without properly pushing the bracket-lock release will damage one or both units.
- Never attempt to disassemble the flash unit. Any repairs necessary should be undertaken only by an authorized Minolta service facility.

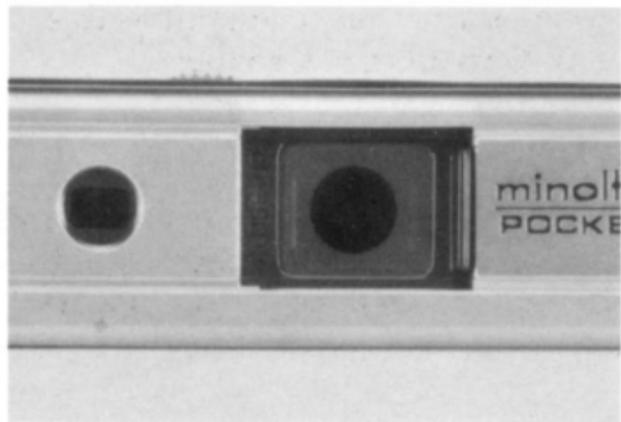
## CLOSE-UPS

26

The Minolta Pocket Autopak 470 has built-in close-range capability for making interesting or useful photos of objects such as faces, flowers, etc., or copies of posters, books, and so on.

To take close-ups at 50cm (19 in.):

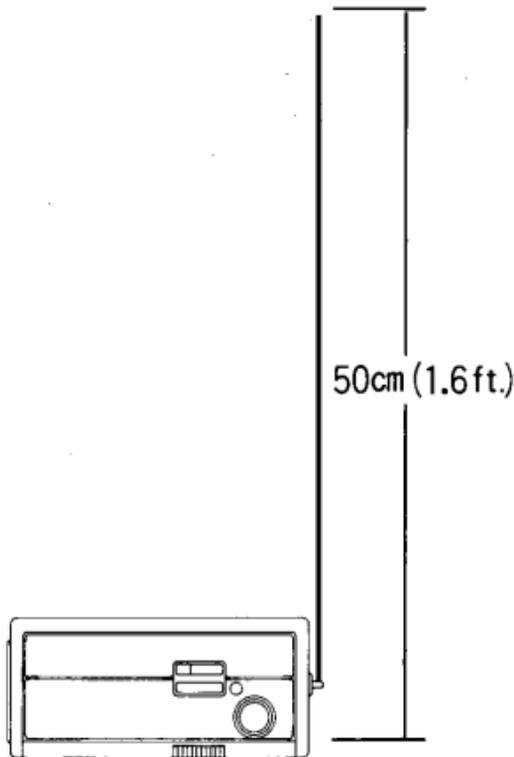
1. Push the slide lug away from the viewfinder as far as it will go; this will position the close-up lens as shown.
2. Set the focus slide to its click stop at the  symbol.
3. Hold the camera cord straight out from the front of the camera and make sure that your subject is positioned exactly at the end of it.



4. Frame your close-up in the viewfinder bright frame within the two short marks near its right corners. (see p. 16)
5. Make the exposure in the usual way, being especially careful to avoid camera movement and making sure that camera-to-subject distance does not change.

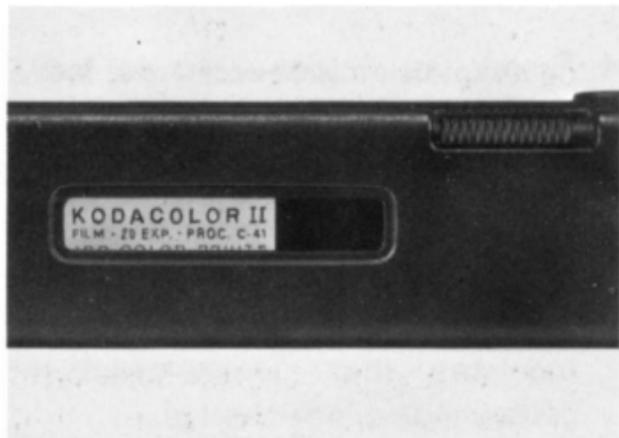
**NOTE**

Use of flash with close-up photography is not recommended for this camera and will cause serious over-exposure.



## UNLOADING THE CAMERA

- 28 After taking the last picture on a cartridge, operate the film advance repeatedly until it locks (about two full strokes), but do not force it any farther. (You may still be able to see backing paper in the window where the exposure numbers appeared.) Then open the back cover and remove the cartridge.



## CARE AND STORAGE

- Be careful of fingerprints on the cover glass or close-up lens. Keep them and the finder lenses clean by blowing away any loose matter, breathing on the surfaces, and wiping them with a soft, clean, lintless cloth. Do not use lens-cleaning fluid or alcohol on any part of the camera or flash unit.
- If you do not plan to use your camera or flash for more than two weeks, remove batteries to avoid the possibility of corrosion.
- Never put your camera or flash unit in the glove compartment or any other place in a motor vehicle or elsewhere in which they may be subjected to relatively high temperature.
- Store your camera and its flash in a cool, dry place away from dust or chemicals. An airtight container that has a drying agent like silica gel in it would be ideal.

## POCKET AUTOPAK 470 TECHNICAL DETAILS

- 30 Type: Pocket camera using No. 110 film cartridges, with programmed electronic exposure control
- Lens: 26mm f/3.5 coated Rokkor, 4 elements in 3 groups
- Exposure control: Programmed EE from EV 2.6 to EV 16.3 with film speeds of ASA 64-400 at 2 automatically changed aperture f/3.5 and f/9
- Shutter: Electronically controlled before-the-lens type, stepless speeds from 1/1000 to 2 sec.
- Flash sync.: "X" only at 1/100 sec. automatically set when flash is installed
- Focusing: 90cm (3 ft.) to infinity by continuous slide control with 5 distance symbols, 1 click stop
- Viewfinder: Oversize bright-frame type with parallax-correction marks, focus setting visible above frame, red lamp that lights when shutter release is slightly depressed as low-light/use-flash warning, and battery-check, plus red flag indication when close-up lens is in position

- Close-up capability:** Built-in close-up lens slides into position for pictures at 50cm (19 in.) at the click-stop focus setting; close-up parallax correction and indicator in finder
- Power source:** Two 1.5v silver-oxide cells (Eveready S-76 or equivalent)
- Flash:** Installing Minolta Pocket Flash 110 in X-sync. on hot shoe provided automatically switches camera over for flash exposures at 1/100 sec.; focusing automatically adjusts aperture for proper exposure
- Film advance:** Thumb-actuated sliding type, spring return
- Frame size:** 13 x 17mm
- Dimensions:** 27.5 x 55 x 117.5mm (1-1/16 x 2-3/16 x 4-5/8 in.)
- Weight:** 180g (6-5/16 oz.) without batteries
- Other:** Cable release socket, tripod socket, battery checker, camera cord (that measures close-up distance), built-in lens-cover slide that locks shutter release when closed and makes full viewing through finder impossible

Specifications subject to change without notice

## POCKET FLASH 110 TECHNICAL DETAILS

- 32 Type: Compact electronic flash for Minolta Pocket Autopak 470
- Flash range: For films rated ASA 64 to 400
- |               |               |                           |
|---------------|---------------|---------------------------|
| Color print   | ASA 80 – 100  | 0.8 – 3.6m (2.6 – 12 ft.) |
|               | ASA 250 – 400 | 0.8 – 6.3m (2.6 – 20 ft.) |
| Color slide   | ASA 64        | 0.8 – 2.7m (2.6 – 9 ft.)  |
| Black & white | ASA 125       | 0.8 – 5.3m (2.6 – 17 ft.) |
- When use with Minolta Pocket Autopak 470, camera aperture varies with focus setting between 0.9 – 2.2m (ASA 64 – 125) or 0.9 – 3.8m (ASA 250 – 400)
- Power source: One 1.5v AA (penlight)-size alkaline-manganese (Eveready E 91 or equivalent), sealed carbon-zinc or Ni-Cd cell
- Number of flashes: Approx. 180 with fresh alkaline cell, 90 with Ni-Cd. 40 with carbon-zinc
- “Tested under Minolta authorized conditions”

<b>Recycling time:</b>	<b>About 10 sec. minimum (with fresh alkaline or carbon-zinc cell)</b> <b>6 sec. minimum (with rechargeable Ni-Cd cell)</b> <b>"Tested under Minolta authorized conditions"</b>
<b>Flash duration:</b>	<b>Approx. 1/5000 sec.</b>
<b>Color temperature:</b>	<b>Balanced for daylight-type film</b>
<b>Coverage:</b>	<b>36° vertically, 50° horizontally</b>
<b>Sync. contact:</b>	<b>Direct contact for hot shoe only</b>
<b>Others:</b>	<b>Power switch, monitor lamp, bracket lock with release</b>
<b>Dimensions:</b>	<b>27 x 55 x 89mm (1 x 2-3/16 x 2-5/16 in.)</b>
<b>Weight:</b>	<b>65g (2-1/4 oz.) without battery</b>

•Specifications subject to change without notice

Minolta Camera Co., Ltd., 30, 2-Chome, Azuchi-Machi, Higashi-Ku, Osaka 541, Japan

Minolta Corporation, 101 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Minolta Camera (Canada) Inc., 1344 Fewster Drive, Mississauga, Ontario L4W, 1A4 Canada

Minolta Camera Handelsgesellschaft m.b.H., Kurt-Fischer-Strasse 50, D-2070 Ahrensburg, West Germany

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**Minolta** MINOLTA MEANS BETTER PICTURE

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PA47 802E-A3 .

Printed in Japan