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PENTAX®

PC-333
PC-333 DATE



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Thank you very much for choosing the Pentax PC-333 or PC-333 DATE.

This new addition to the Pentax line-up of 35mm compact cameras offers you the convenience of full-auto functions such as auto exposure, auto focusing, auto film loading, auto film winding/rewinding, auto film speed setting, etc. Moreover, the Pentax PC-333 DATE is equipped with an automatic data-recording unit to imprint the date and time on your photographs.

Needless to say, your Pentax camera is a sophisticated, precision instrument built to give long-lasting, reliable service and will serve you well if you treat it right, with proper handling and reasonable care. So, please read this manual carefully through and familiarize yourself with all the features and functions it has to offer.

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Operating Order

1. Insert the batteries into the camera.
2. Load the film, and close the back cover.
3. Open the lens cover, and depress the shutter button.
4. When the film rewinding is over, remove the film from the camera.

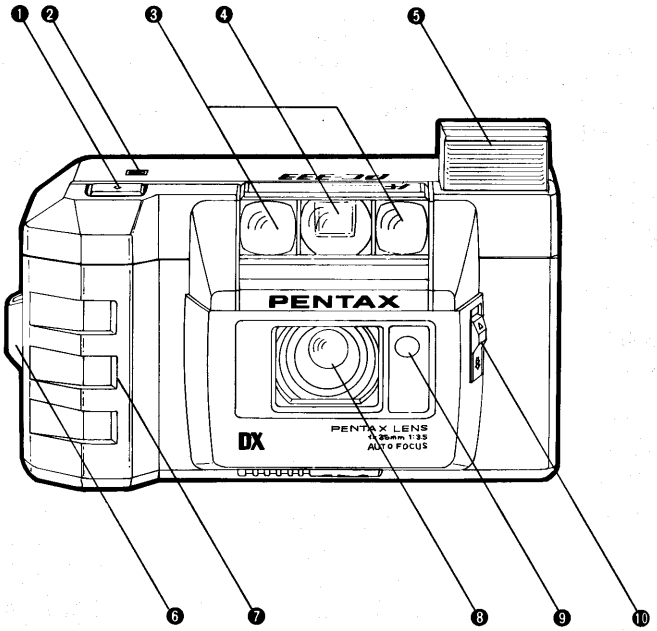
Precautions

- This camera does not work without batteries. Use two AA-size alkaline batteries. Ni-Cd batteries are not suitable.
- The shutter button cannot be depressed when:

1. the lens cover is fully or partially closed.
2. the batteries are exhausted or not properly loaded.
3. the auto film winding takes an extremely long time or the rewinding is under way.
4. the flash recycle time gets extremely long.
5. the camera back is open.

- Since the batteries discharge small amounts of energy even when not in use, those supplied in your camera may be slightly below full capacity.

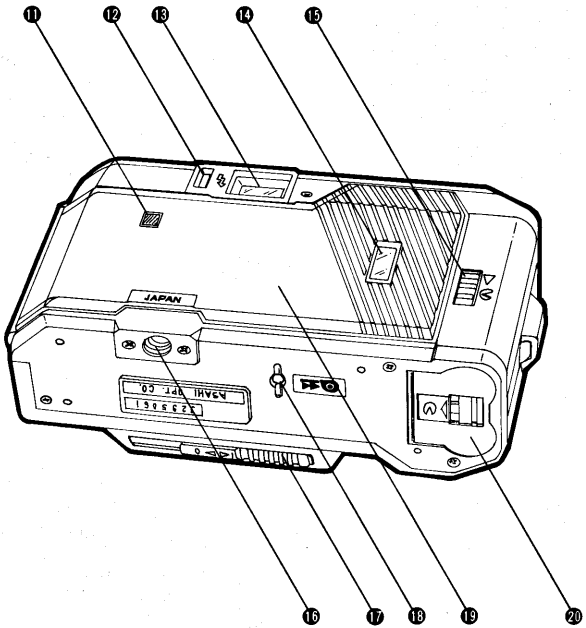
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❶ Shutter button
❷ Frame counter
❸ Autofucus windows
❹ Viewfinder window
❺ Flash
❻ Strap hanger
❼ Grip
❽ Taking lens
❾ Light-sensor window
❿ Flash-pop-up lever

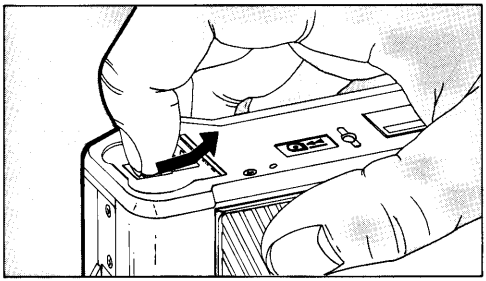
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⓫ Film-transport indicator
⓬ Flash-ready indicator
⓭ Viewfinder eyepiece
⓮ Film-loaded indicator
⓯ Back-cover-release lever
⓰ Tripod socket
⓱ Lens-cover lever
⓲ Midroll rewind button
⓳ Back cover
⓴ Battery-chamber cover

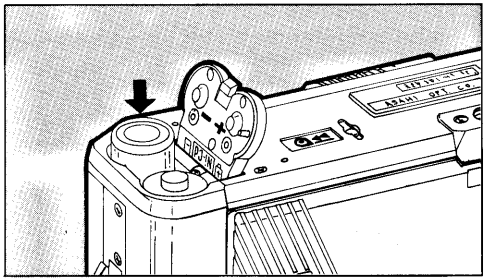


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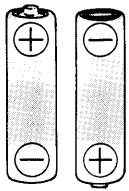


1. Open the Battery Chamber Cover at the base of the camera by sliding it in the direction of the arrow; use a fingernail in the groove to push and raise the cover.

2. Insert two batteries into the chamber with the (+) and (—) sides placed correctly as indicated on the cover.

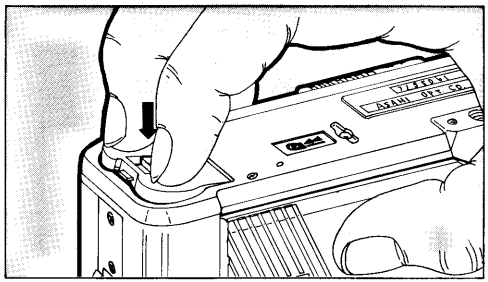
One set of alklaine batteries should last about a year with average use at normal temperatures, without using flash. But their performance goes down considerably at freezing temperatures.

Manganese batteries are also suitable, but they are far less powerful than alkaline ones.



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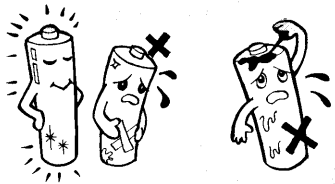
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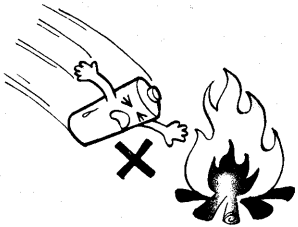


3. Close the cover by pushing it back.

Batteries

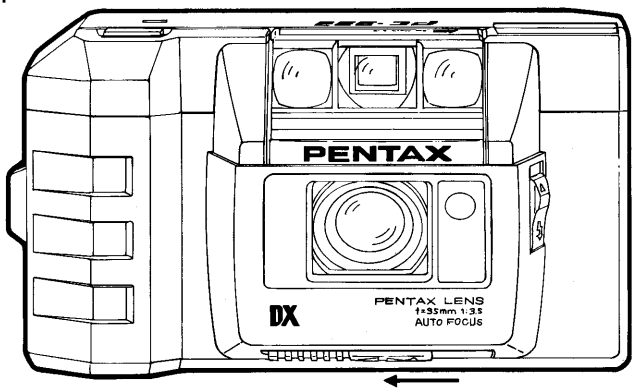
- The batteries should be inserted correctly.
- When replacing, be sure to use two fresh batteries of the same brand and type.
- If the batteries are not used for a long time, remove them from the camera. Leaving them in the camera may cause acid leakage and possible damage to the camera mechanism.
- Never break up, recharge or throw used batteries into fire as they may explode.



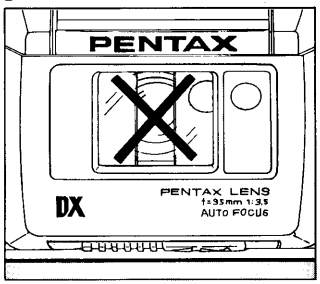


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1



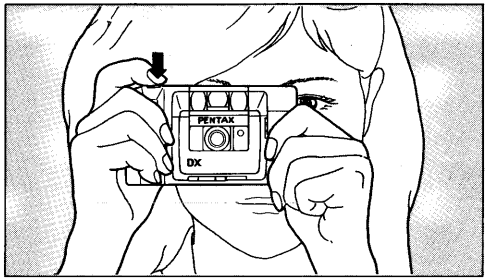
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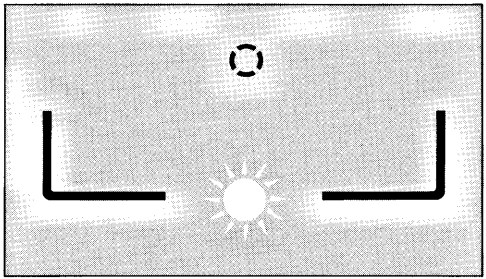
1. The lens cover can be opened or shut by moving the lens cover lever to the left or right.
2. When the lens cover is completely or partially closed, a safety device works so that you cannot depress the shutter button.

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1



2



1. Open the lens cover and depress the shutter button halfway.
2. A green lamp will light up or flicker when the batteries are properly loaded.

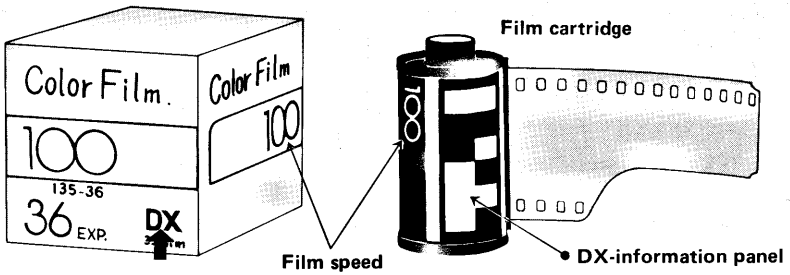
• If the batteries are not properly loaded, or exhausted, the shutter cannot be released, nor can the film be advanced.

Battery Power Check

When the batteries get weak, the flash recycle time and auto winding/rewinding time will become longer. Replace them with fresh ones.

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DX FILM

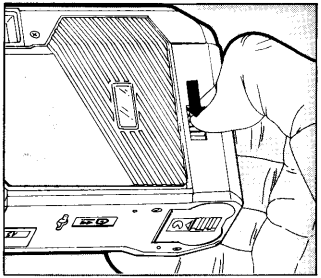


This camera is designed to use DX-coded film only, and when the DX-coded film with an ISO number within the range from 50 to 1600 is loaded, the camera automatically sets the film speed with the film in use.

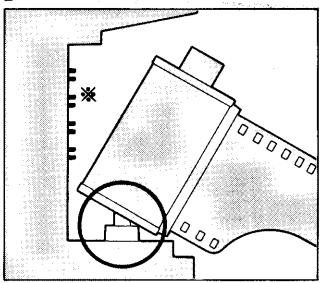
- If non-DX film with any film speed is loaded into this camera, the film speed is automatically set to ISO 100.
- When buying DX film, make sure the package bears the "DX" mark or that the cartridge has a DX-information panel.
- Special films like 35mm Instant Reversal Film cannot be used.

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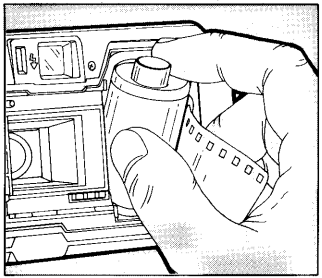
1



2



2



Always load or unload film in a shady spot, or shield the camera and film from direct sunlight with your body.

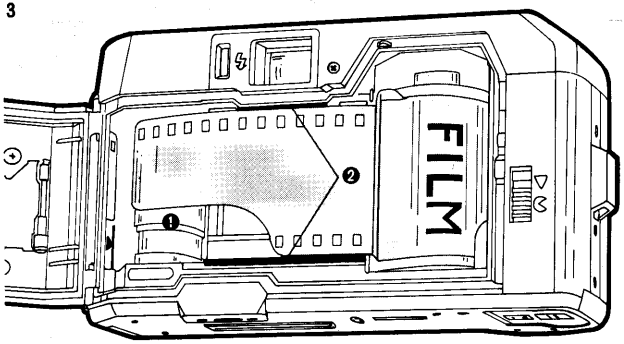
1. Open the back cover by sliding the back cover release lever in the direction of the arrow.

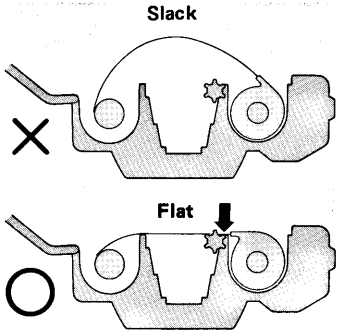
2. As illustrated, place the film cartridge in the film chamber by first fitting its flat side on the top of the rewind shaft.

※ Always keep the DX-Information pins free from scratches, dirt or dust.

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3



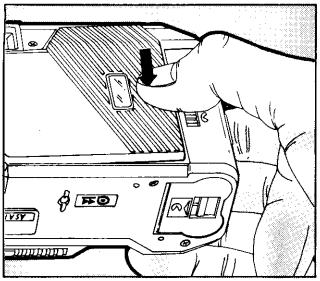


3. Pull the film leader out far enough to be placed on the ❶ film roller/take up spool, as shown above.

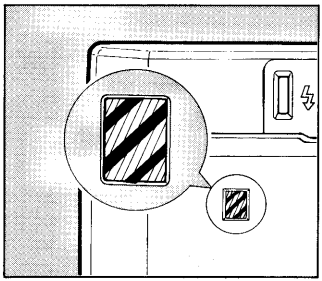
- Make sure the film is properly placed between the ❷ guide rails.
- Take up any slack left in the film so that it is flat, as illustrated above.

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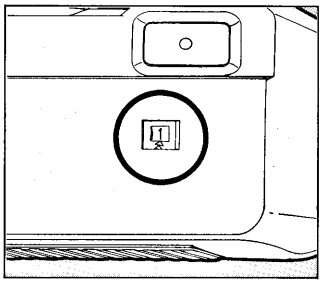
4



4



5



4. Close the back cover, and the film will be automatically wound on to the first frame.

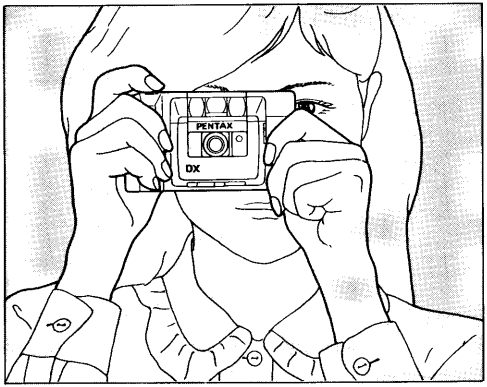
• When the film is being wound on, the red stripes in the film transport indicator flicker, indicating that the film is advancing properly. If not, open the back cover and reload the film.

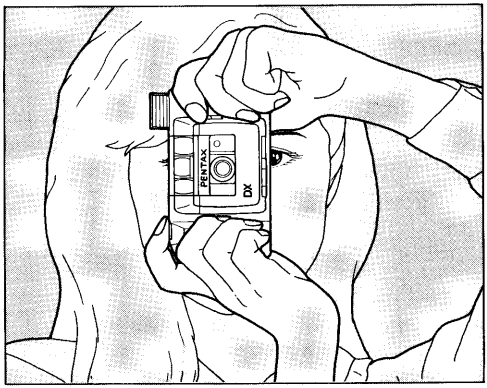
5. When the frame counter is set to "1," the auto film winding stops automatically. Now you are ready to start shooting.

• The film-loaded indicator on the back cover tells you whether or not film is in the camera.

Caution: Should you wish to remove the film loaded from the camera, never force it, but unload the film in the normal way described on page 16, to avoid any damage to the take-up spool.

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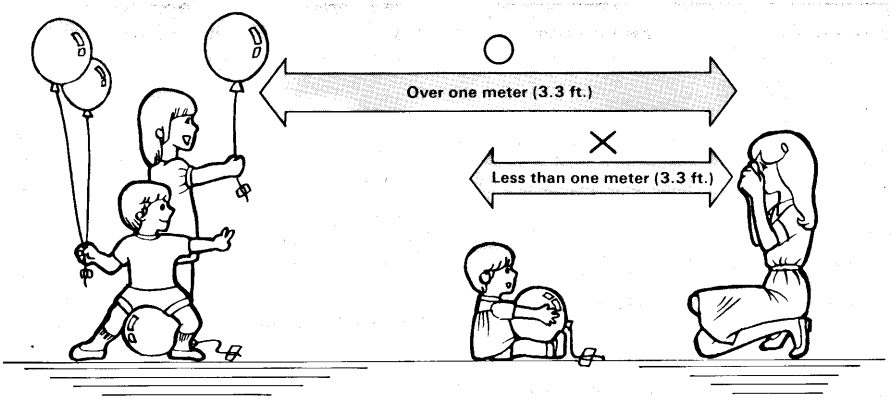




It is important to hold the camera properly in order to take blur-free photos. Practice holding and operating the camera before inserting your first roll of film.

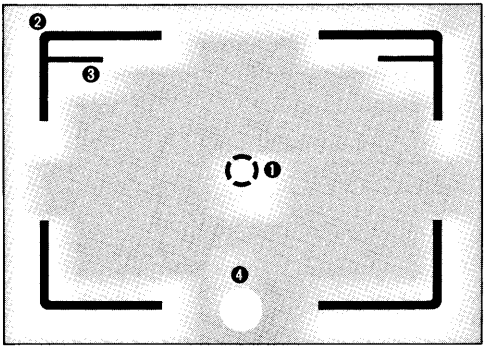
The illustrations show the basic holding positions. No matter which position you use, be sure to grip the camera steadily with both hands, hold the camera gently against the face in a fixed position, and relax the rest of your body in a secure posture. Brace the elbow of the arm supporting the camera against your body. Always press the shutter button gently. When taking flash pictures with the camera held vertically, be sure to keep the flash head on the upper side.

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- For the best possible results, take your pictures within the camera-to-subject distance from one meter to ∞ (infinity). This camera does not focus on the subject less than one meter (3.3 ft.) away.

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❶ Autofocus Spot (Bring this on the main part of your subject you want to focus on.)
❷ Picture-Area Frame (General-photography range)
❸ Parallax-Correction Frame (Short-distance photography range)
❹ Green Lamp (When it lights up, you are ready to shoot; when it flickers, it's a warning against underexposure.)

1

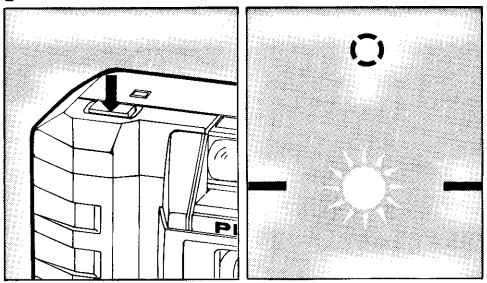


1. After composing your picture, bring the ❶ Autofocus Spot on the main subject you want to focus on.

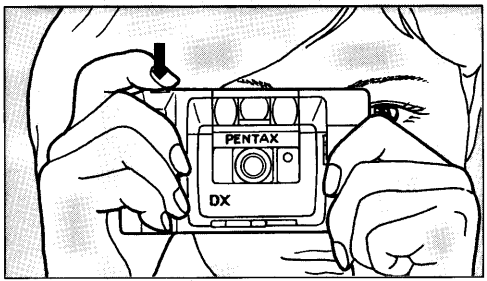
• In this instance, be sure to keep your hand, hair, etc. away from the Autofocus Windows, Taking Lens, Light Sensor Window and Flash.

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2



3



2. Depress the shutter button halfway. When the ❹ Green Lamp lights up, you are ready to take a picture.

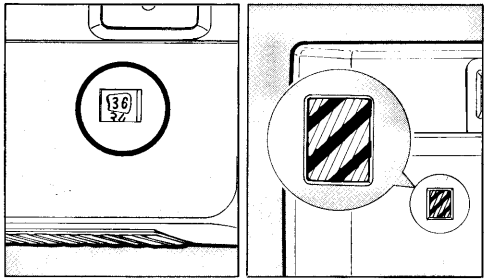
- If the Green Lamp flickers, the subject is not bright enough; you have to use flash.
- When the camera-to-subject distance is about one meter (3.3 ft.), compose your picture within the ❸ Parallax-Correction Frame.

3. Depress the shutter button completely to release the shutter. As you release your finger from the shutter button, the film will be wound on to the next frame.

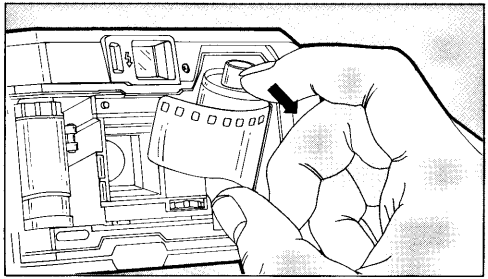
- If you want to change the subject, release your finger from the shutter button and then depress the shutter button once again.

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1



2



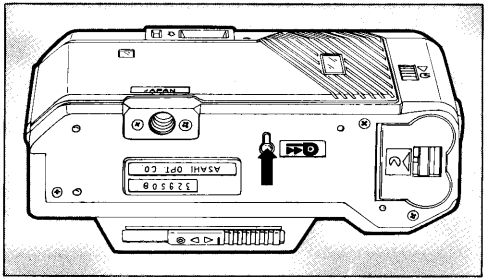
1. Several seconds after the last frame of the roll is exposed, the motor automatically starts rewinding the film. While the rewind operation is taking place, the Film Transport Indicator's red stripes keep flickering.

2. Open the camera back and remove the film cartridge by first pulling the top of the cartridge toward you with your finger, as shown above.

- It usually takes about 30 seconds to rewind a roll of 24-exposure film.
- Never open the camera back until the motor stops.

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※

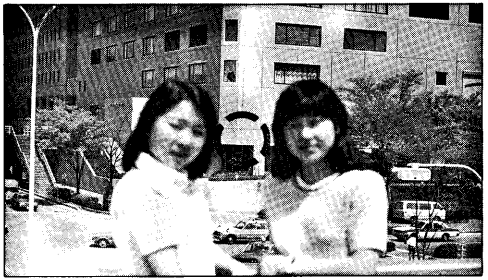


※ If you want to rewind the film in midroll, push the Midroll Rewind Button with a fingernail, and the motor will start rewinding. The motor will automatically stop on completion of rewinding.

• When the battery power gets extremely low, the motor may stop during rewinding. Should it happen, replace the batteries and push the Midroll Rewind Button to complete rewinding.

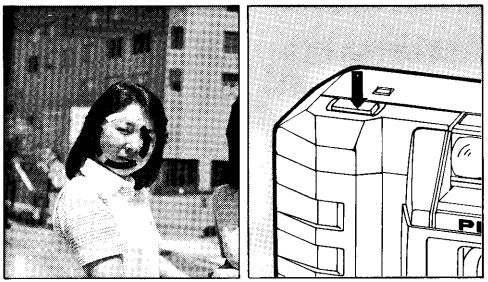


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If the subject you wish to focus on is out of the Autofocus Spot as shown above, it will be out of focus and only the background will be in focus. You can avoid this problem by using the focus-lock technique in the following order.

1 2

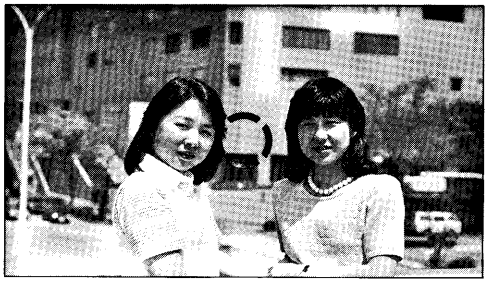


1. Bring the Autofocus Spot on the main subject.
2. As you depress the shutter button halfway, the Green Lamp in the viewfinder will light up or flicker, locking the focus on the subject temporarily.

• As long as you keep depressing the shutter button halfway and the Green Lamp is lit or keeps flickering, the focus lock is maintained. The focus will be unlocked as soon as you release your finger from the shutter button.

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3



3. While keeping the shutter button depressed halfway, move the camera to recompose your picture with the subject in the desired position, then depress the shutter button all the way to take the picture.

Difficult Autofocus Subjects

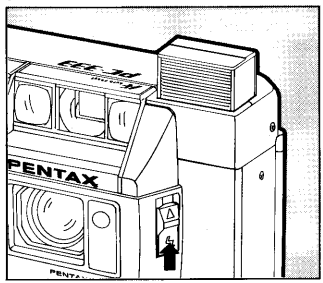
The autofocus system of this camera may not function properly in the situations described below. In such cases, focus on a subject near the actual subject you are shooting, and lock the focus by using the focus-lock technique, then frame the subject and shoot.

1. Black objects which are hard to reflect light (infrared).
2. Wire netting, latticework, iron exercise-bar, etc. with less light reflection.
3. When neon signs, fluorescent lamp, television, sunlight coming through the trees, etc. are in or around the Auto-focus Spot.
4. Glass panelling, mirrors, car bodies, etc. which are glossy and reflective.
5. Fast-moving objects such as trains and cars.
6. Water jets, water surfaces, smoke, flame fireworks and other transparent or translucent objects.

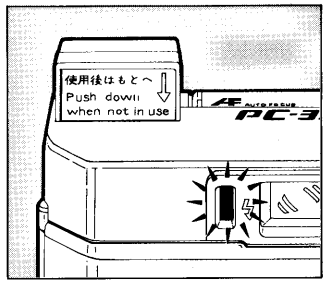
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If the Green Lamp flickers in the viewfinder as you depress the shutter button halfway, it indicates that you should use flash. If you don't use flash in such a case, you will get a blurred or underexposed picture. Also, if you are shooting people in the shade of trees or in a dimly-lit place, you can also use flash to prevent their faces from being under-exposed.

1



2



Number of Flashes
Approx. eight rolls of 24-exposure film or five rolls of 36-exposure film can be shot with this flash with fresh alkaline batteries at normal temperatures.

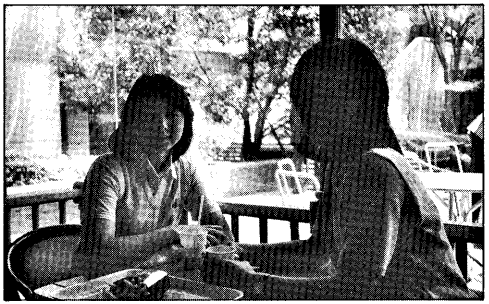
Flash Control Range
1 ~ 3.5 m (3.3 ~ 11.5 ft.) with ISO 100 film
1 ~ 5 m (3.3 ~ 16.4 ft.) with ISO 200 ~ 1600 film
1 ~ 2.5 m (3.3 ~ 8.2 ft.) with ISO 50 film

1. As shown above, push up the Flash Pop-up Lever, and the flash head will pop up and begin to charge automatically.
2. Several seconds later, the Flash-Ready Indicator by the Viewfinder Eyepiece will light up, indicating that the flash is ready to fire. Pushing the flash head back into place will return the camera to normal picture-taking mode.

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CAUTIONS

- The recycle time of this flash is about six seconds with fresh batteries. If it takes more than 15 seconds, the batteries are most probably exhausted.
- If you release the shutter before the flash-ready lamp lights, you may get a dark (underexposed) picture.
- Do not depress the shutter button while the flash is being charged; otherwise the charging will be interrupted.
- When the flash is not in use, keep the flash head in its original position to prevent power consumption.
- When using the flash as a supplemantary light source in daylight, the flash effect slightly differs, depending on the brightness around the subject or the camera-to-subject distance.



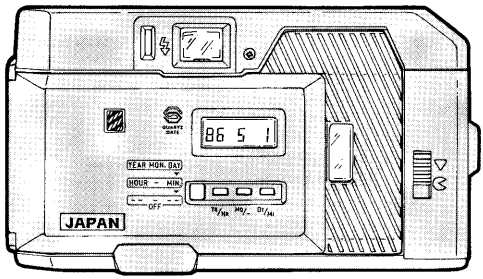
Flash not used ↑



Flash used ↓

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PC-333 DATE





As the date and time set in your DATE camera are good only in Japan, readjust them before use.

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Film

- DX films with ISO ratings from 50 to 1600 can be used. The film speed is automatically switched in the dating unit.
- The only non-DX film that can be used for this unit is one with ISO 100.

When shooting

- If the data printing section in the picture area is too bright, the recorded data may be difficult to see. Frame the picture so that reflections or white objects may not overlap the data printing section.
- The Year/Month/Day and Hour/Minute data cannot be imprinted on the same picture.
- When the shutter is released, the letters "PRINT" will appear in the Display Window, indicating that imprinting has been completed.

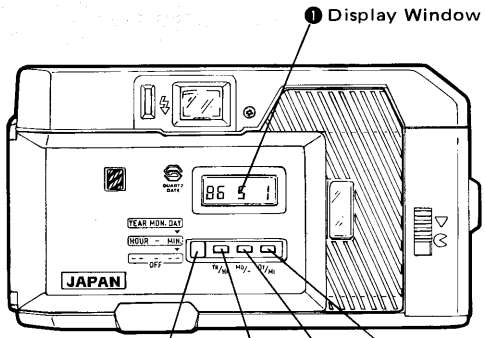
Battery

The data-recording unit is powered by a 3-V lithium battery (CR-2025) which is built in the back cover. It should last about five years, although the life may differ, depending on how often it is used or how it is stored. If the unit does not work properly or the LCD displays are not seen clearly, it indicates that the battery is getting weak, so please have it replaced by your nearest, authorized Pentax service facility as soon as possible. Do not try to replace it by yourself.

LCD (Liquid Crystal Display)

- When the LCD is exposed to a high temperature of around 60°C, it may blacken, but when the temperature falls, it will return to normal.
- The LCD may also tend to slow down in response at lower temperatures, but it is one of the characteristics of LCD's, not a defect.
- The unit should work perfectly in the temperature range of around 50° ~ 0°C.

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Setting Button

❸	❹	❺
YEAR	MON. (Month)	DAY
HOUR	—	MIN (Minute)
— —	—	— —

Setting Data

- The mode display in the ❶ Display Window will switch from "Year-Month-Day" to "Hour-Minute" to" - - - - - - " (No Display) in this order each time the ❷ Mode Selector Button is depressed. Stop depressing the ❷ Button when the desired mode is displayed.
- Depressing the Setting Button ❸ , ❹ or ❺ once will advance the displayed figures one at a time. For rapid advance, keep depressing the button, and within a second or two, the figure will increase continuously. To depress the button, use a ball-point pen or the like.
- Unless the "Hour-Minute" mode is correctly set, the "Year-Month-Day" mode will not be correctly set.

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Setting "Hour-Minute" Mode

15 - 30 (= 3:30 p.m.)

1. Press the Mode Selector Button until the "Hour-Minute" mode is set in the Display Window.
2. Press the ❹ Setting Button and set the second according to the announcement of time or your watch. The second "—" will be set to zero, although it will just keep flickering in the Display Window.
3. Press the ❺ Setting Button and set the minute to "30" in the Display Window.
4. Press the ❸ Setting Button and set the hour to "15" in the Display Window. The 24-hour clock designation is used for the time indication.

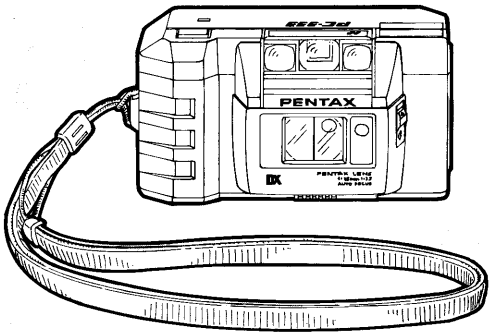
• Note that since the sign "–" between "Hour" and "Minute" flickers every second, it may not be imprinted on the film if the shutter is released while it is invisible.

Setting "Year-Month-Day" Mode

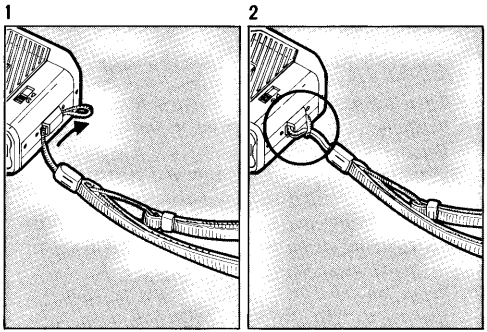
86 5 1 (= May 1, 1986)

1. Press the Mode Selector Button until the "Year-Month-Day" mode is set in the Display Window.
2. Press the ❸ Setting Button and set the year to "86" in the Display Window.
3. Press the ❹ Setting Button and set the month to "5" in the Display Window.
4. Press the ❺ Setting Button and set the day to "1" in the Display Window.

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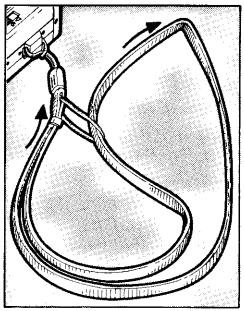
You can use this strap as a neck strap or a wrist strap.



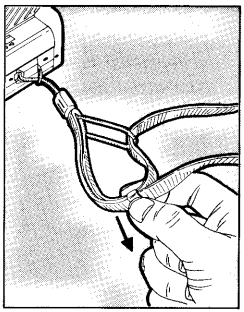
1. Pass the string of the strap through the Strap Hanger.
2. Pass the other end of the strap through the ring of the string. You have now a wrist strap.

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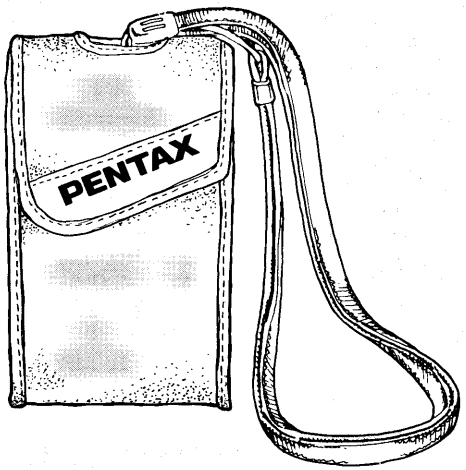
3



4



3. To make it a neck strap, move the belt ring to the other end of the strap, and then, as illustrated, pull the strap out from the small ring.
4. To return it to a wrist strap, pull the belt ring out from the small ring, and move the belt ring to the other end of the strap.



This soft case is optional. Pass the strap attached to the camera, through the hole on the top of the case.

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Type: Fully-automatic, leaf-shutter 35mm camera.
Film: 35mm DX film with ISO ratings from 50 – 1600; non-DX film with ISO 100.
Film loading: Automatic film loading.
Film winding/rewinding: Automatic winding system with film transport indicator; automatic rewinding at the end of roll of film; rewind operation automatically stops as rewind is completed; possible to rewind in mid-roll with film rewind button; rewind speed: approx. 30 sec. for 24-exposure film.
Frame counter: Automatic reset.
Lens: Pentax 35mm f/3.5, 3 elements in 3 groups, 63° angle of view.
Focusing: Infrared-active auto focusing system, autofocus range from one meter (3.3 ft.) to infinity, built-in focus-lock device.
Shutter: Programmed-AE-type electronic shutter with speeds from approx. 1/500 to 1/30 sec.
Viewfinder: Albada bright frame viewfinder, 85% picture area, 0.45 magnification, -1 diopter.
Viewfinder display: Picture-area frame, autofocus spot, parallax-correction frame, green lamp lights up to indicate correct exposure, green lamp flickers to indicate underexposure.
Exposure control: Programmed-AE control from EV 8.6 (approx. 1/30 sec., f/3.5) to EV 17 (approx. 1/500 sec., f/16) at ISO 100 with SPD cell metering.
Meter switch: Shutter button (locked when lens cover is closed).
Flash: Built-in pop-up type with flash-ready indicator, guide number of 10 (ISO 100 in meter).
Flash control range: 1 – 3.5 m (3.3 – 11.5 ft.) with ISO 100 film.
Flash recycle time: Approx. 6 sec. (with fresh alkaline batteries).
Number of flashes: Approx. 12 rolls of 24-exposure film; approx. 8 rolls of 36-exposure film (at 30 sec. intervals and normal temperatures).
Power source: Two AA-size alkaline batteries.
Dimensions: 119.5(W) x 68.5(H) x 49.5(D)mm (4.7" x 2.7" x 1.9").
Weight: 260 g (9.2 oz.)
Accessory: Strap

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PC-333 DATE

Film: DX film with ISO 50 – 1600 (automatic film-speed switching).

Data recording system: An internal recording lamp records information onto reverse side of film.

Data imprinting mode: Push buttons to set unit to any of three modes; "Year/Mon/Day," "Hour/Min," or "- - - - -" (blank). Year/Mon/Day model ("80" to "19" – 1980 to 2019): Month ("1" to "12"); Day ("1" to "31"). Hour/Min mode: Hour ("0" to "23"); Minute ("00" to "59"). Blank mode "- - - - -" (no data imprinted).

Power sources: One lithium battery for clock and data display; camera's batteries also serve for data imprinting.

Dimensions: 119.5(W) x 68.5(H) x 52.5(D)mm (4.7" x 2.7" x 2.1")

Weight: 270 g (9.5 oz.)