

Ricoh Shotmaster ultra dual

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We are most gratified that you have selected a RICOH camera. Before using your camera, please be sure to read these instructions carefully.

LOCATING THE CONTROLS

1. Flash Mode Selector

2. Selftimer Button

3. Film Counter Window

4. Wide angle/Telephoto Selector

5. Shutter Release Button

6. Strap Holder

7. Photocell

8. Lens

9. Lens Shield

10. Distance Measuring Window

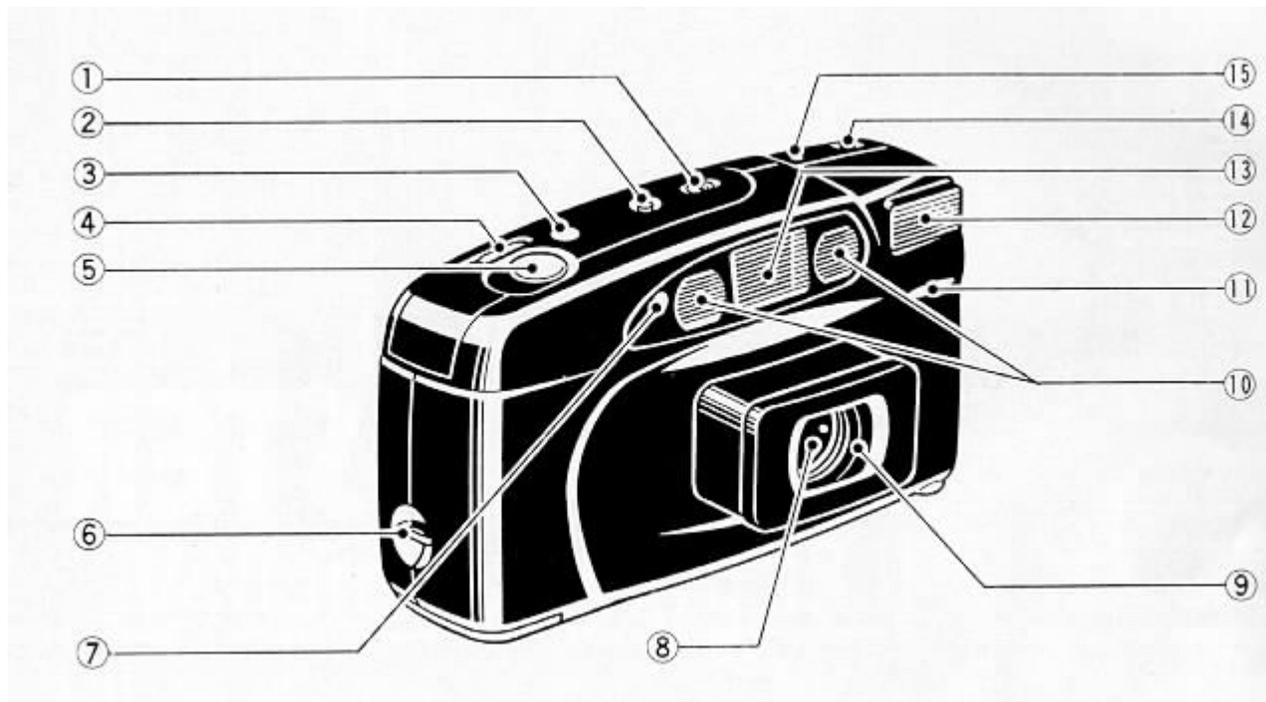
11. Self-timer LED

12. Built-in Flash

13. Viewfinder Window

14. Infinity Focus Button

15. Manual Film Rewind Button



16. Viewfinder

17. Viewfinder Cover

18. Film Take-up Spool

19. Film Loaded Window

20. Back Cover

21. Tripod Socket

22. Film Guides

23. Film Rewind Gear

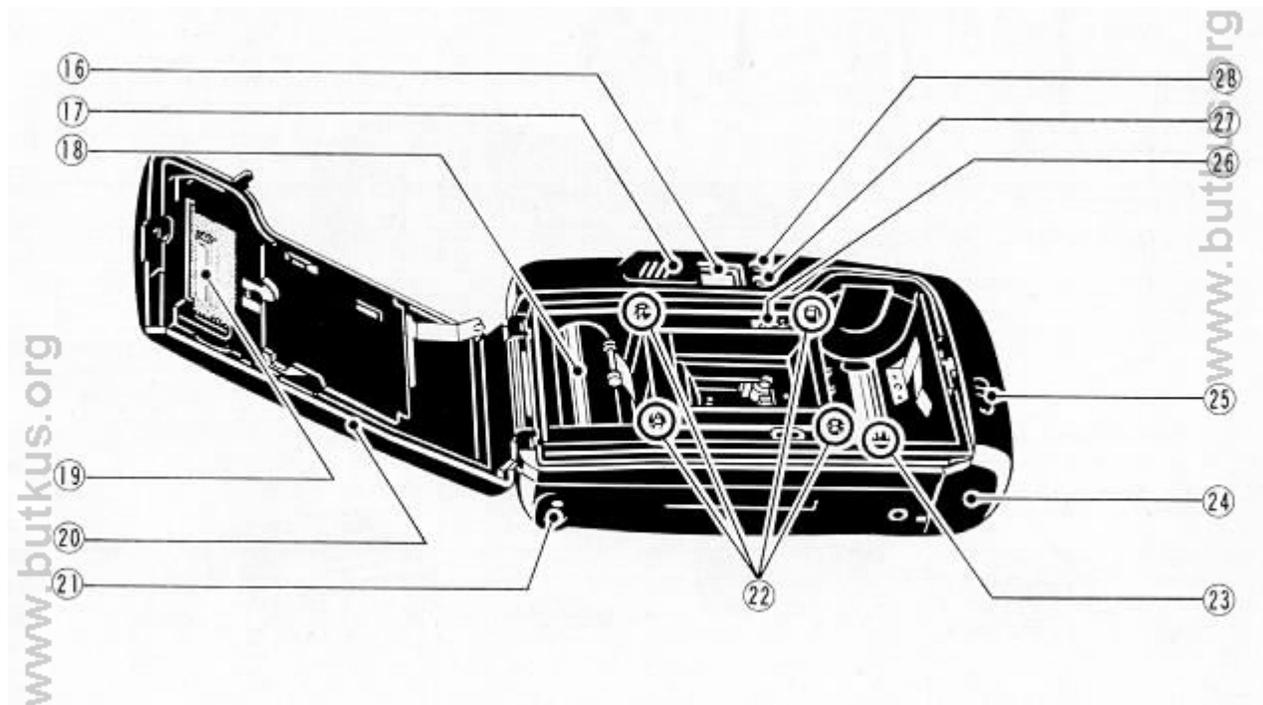
24. Battery Compartment Cover

25. Back Cover Latch

26. Sprocket

27. Flash Charge Monitor

28. AF Monitor



- BEFORE USING

- This camera has a high voltage circuit. Because it is dangerous, DO NOT ATTEMPT TO TAKE CAMERA APART.

- Do not hold the lens part of the camera.

- Before taking important pictures (at weddings, on trips abroad, etc.) use the camera to see how it works.

ATTACHING THE STRAP

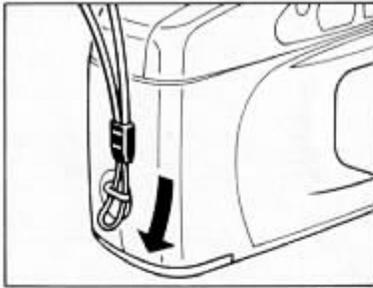


Fig. 1

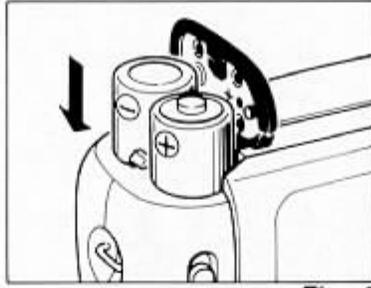


Fig. 4

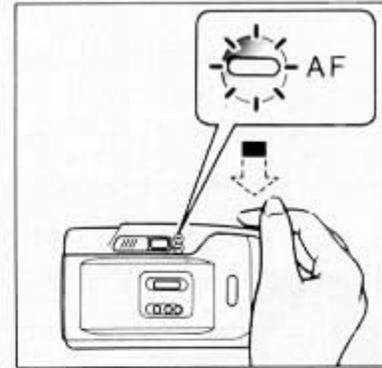


Fig. 7

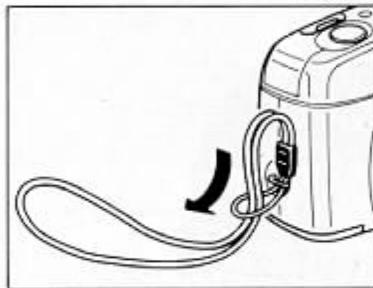


Fig. 2

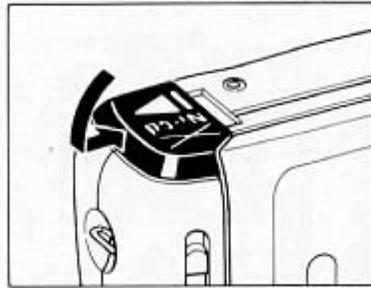


Fig. 5



Fig. 3

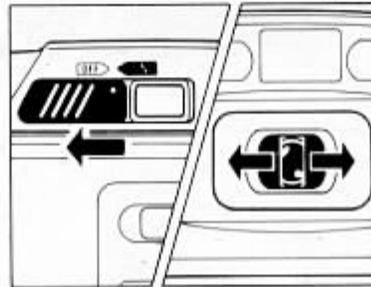


Fig. 6

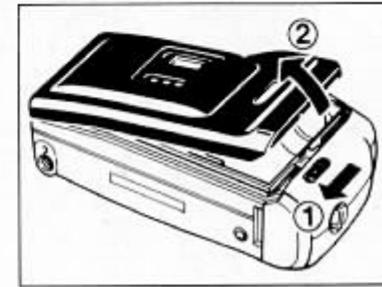


Fig. 8

1. Insert the small loop at the end of the Strap under the Strap Holder. (Fig. 1)
2. Insert the other end of the Strap through the loop to tie the Strap onto the Strap Holder. (Fig. 2)

INSERTING THE BATTERY

The camera will not operate unless the battery is installed. It is important to make sure that the battery installed correctly...

1. Push and slide the Battery Compartment Cover Latch in the direction of the arrow and pull open the cover. (Fig. 3)
2. Insert two AA-size batteries (Alkaline or Manganese) following the polarity information inside the Battery Compartment. (Fig. 4)
3. Close the Cover by pushing and sliding it shut until it latches. (Fig. 5)

* Do not use Nickel Cadmium batteded

* Remove AA batteries from the camera when you do not expect to use it for a long period time.

* In cold conditions the capacity of the battery decreases, and the camera may not operate correctly. In that case, you should warm the battery (carry them in your pocket, for example) before using the camera.

OPENING THE VIEWFINDER COVER

1. Open the Lens Shield by sliding the Viewfinder Cover in the direction of arrow. (Fig. 6)
2. When the Lens Shield is opened, the lens emerges from its standby position to the ready position and the camera sets everything automatically.---

* You can only take pictures when the Lens Shield is completely open.

* To avoid tripping the shutter inadvertently and wasting battery power, always keep Viewfinder Cover closed when you are not taking pictures.

CHECKING THE BATTERY

1. Press the Shutter Release Button down halfway.
2. If the green LED of AF monitor lights, then the battery power is sufficient (Fig. 7)
3. If the green LED does not light, the battery is insufficient or the battery is not inserted correctly into the battery compartment. Replace the battery or re-insert the battery according to the polarity diagram inside the battery compartment.

* Generally, in cold conditions, the capacity of the battery decreases, and in some cases, the camera may not operate correctly. You should either warm the battery or keep a spare in your pocket, inserting them just before you use the camera.

* If the battery voltage is insufficient, the shutter may not release or the film may not advance completely. In the following cases, replace the battery:

- a. The shutter cannot be released (apart from when the Lens Shield is closed).
- b. The Flash Monitor Lamp blinks more 30 seconds when press the shutter Release Button down halfway.
- c. The Film Advance or Film Rewind does not operate.

LOADING THE FILM

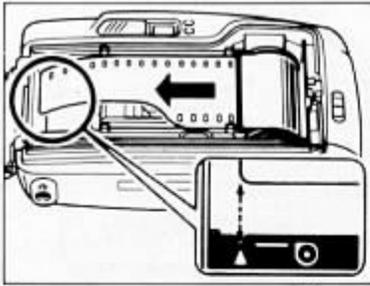


Fig. 9

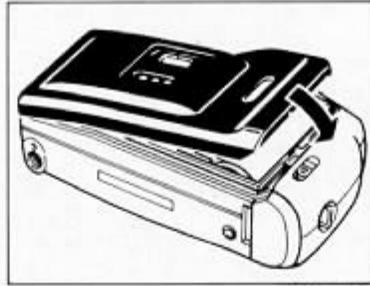


Fig. 12

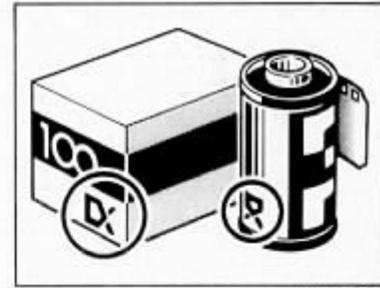


Fig. 15

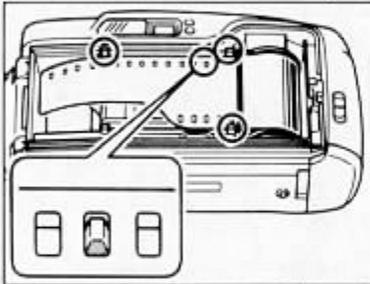


Fig. 10

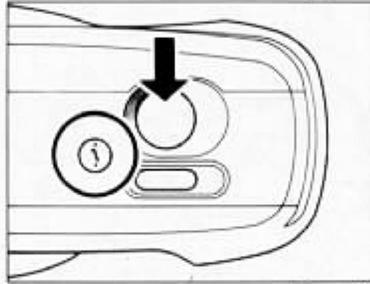


Fig. 13



Fig. 16

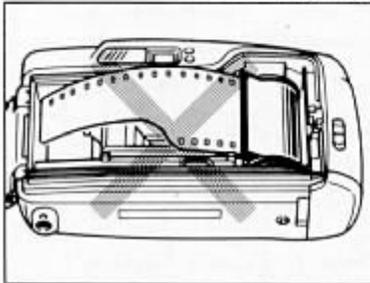


Fig. 11

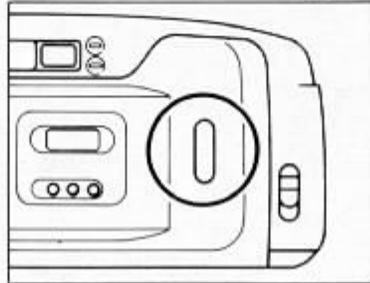


Fig. 14



Fig. 17

Always avoid direct sunlight when loading the film.

1. Push the Back Cover Latch Downward to open. (Fig. 8)
2. Load the film cassette into the Film Chamber and pull out enough film leader to extend past the mark of the film leader position. (Fig. 9)
3. Make sure the film stays within the Film Guides and lies flat. (Figs.10, 11)
4. Press the Back Cover shut so that the Back Cover Latch returns to its original position. (Fig. 12) Press the Shutter Release Button once. The film will be automatically advanced until number M. appears in the Film Counter Window. If number M. does not appear, or the film transport motor does not stop, the film has not advanced correctly. Open the camera back and repeat the loading process. (Fig. 13)
5. The Film Loaded Window confirms whether film is in the camera or not, and shows you what type of film is being used. (Fig. 14)

SETTING THE FILM SPEED

DX-coded film cassettes have black-and-silver patterns corresponding to film speeds that the camera reads and automatically sets. Your camera accepts DX films with speeds ranging from ISO 50 to 1600. Before loading your film, please check whether the cassette is DX-encoded or not. (Fig. 15)

When using DX coded films, seeing the film speed is not necessary. Your camera automatically sets the correct film speed.

When using a film without DX code, your camera will automatically set itself to ISO 100.

HOLDING YOUR CAMERA

1. Always use both hands to steady your camera. (Fig. 16)

* When holding the camera vertically always position it with the flash at the top. (Fig. 17)

* Be careful not to place your fingers over the lens, flash or focusing windows. (Fig. 18)

* We suggest that you become familiar with your new camera by shooting and processing at least one roll of film before using your camera to record an important occasion.

* If the camera moves during the exposure, the whole picture will be blurred. To take clear pictures, hold the camera steadily and properly

VIEWFINDER (Fig. 19)



Fig. 18

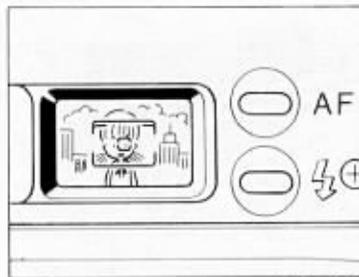


Fig. 21

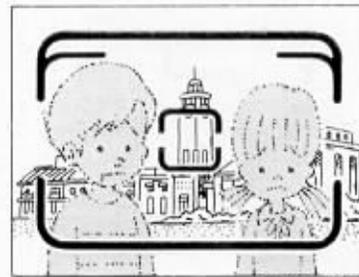


Fig. 24

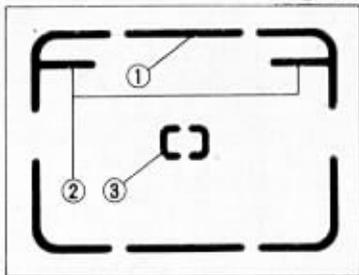


Fig. 19

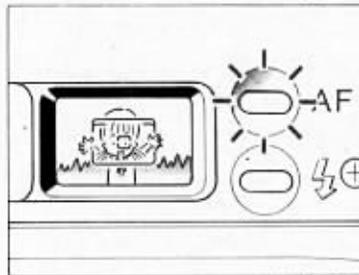


Fig. 22

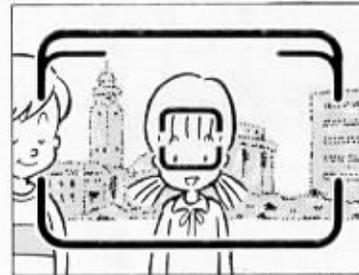


Fig. 25 图 25

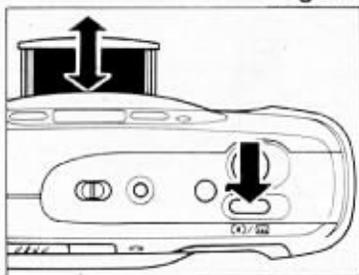


Fig. 20

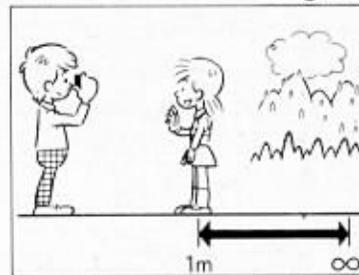


Fig. 23



Fig. 26

(1) Field of View Frame:

The subject (such as people or scenery) you wish to photograph should be set within this frame.---

(2) Parallax Correction Marks: (Close focusing)

When taking a picture of a subject that is between 1.0 m - 1.2 m (3.3 - 4 feet) away from your camera, the subject should be positioned within these marks. Anything outside the marks will not be included in the picture even if you can see it through the viewfinder.

(3) AF Mark

The auto-focus system focuses automatically on any subject that appears within this small [] target.

WIDE-ANGLE/TELEPHOTO LENS SELECTOR

1. Your camera's wide and tele lenses let you select the composition that best suits your subject. Just press the Lens Selector; the lens movement is motorized. (Fig. 20)

Wide-angle (35 mm focal length)

Portrait (55 mm focal length)

- * When changing lenses, please make sure you do not have your fingers near the moving lens components.
- * When closing the Viewfinder Cover, the lens will return to its storage position automatically.
- * After about 3 minutes, the lens will return to wide position. If using the wide angle/telephoto lens selector and the self-timer at this time, depress the Shutter Release Button halfway once, or turn the finder cover OFF once and then back to ON before use.

AUTO-FOCUS SHOOTING

1. Set the subject you wish to take within the Auto Focus Frame. (Fig. 21)

2. When you press the shutter Release Button halfway, the AF monitor will light up and the subject is focused. (Fig. 22)

3. Gently press the Shutter Release Button to take the picture. The film will advance automatically as soon as the shutter has been released.

* Avoid pressing the Shutter Release Button abruptly to minimize camera shake or possible mis-operation...

* Do not accidentally cover the Distance Measuring Windows at the front of your camera, as this will cause incorrect focusing.

* Keep the Distance Measuring Windows clean to ensure accurate focusing. If the windows get dirty, they should be wiped clean with a soft cloth.

* There may be rare cases when accurate focusing is difficult or impossible. (For instance, with dark subjects that do not reflect light well, glossy subjects, or subjects taken through glass.) In these cases, it is best to use the Pre-Focus technique to "lock" the focus on a more "nominal" subject at the same distance. While holding focus, turn your camera back to the original subject and shoot. (See PREFOCUS SHOOTING for more details.)

* The distance measuring range: 1 m - infinity (wide-angle) (Fig. 21)

PRE-FOCUS SHOOTING

When the main subject you wish to focus on is not within the Auto-Focus Frame, or if the subject is difficult to focus on, then you should use pre-focus shooting.

When the subject is not within the Auto-Focus Frame:

1. If you want to photograph two people, there may be cases where neither of them can be within the Auto Focus Frame in the center of the Viewfinder. If you release the shutter then, only the background will be in focus, and the people, who are the main subject, will be out-of-focus. (Fig. 24)

2. Move the camera so that one of the people is within the Auto-Focus Frame.

Press the Shutter Release Button halfway so that the AF Monitor lights up. Hold your finger in that position on the Shutter Release Button. (Fig. 25)

3. Now return the camera to its original position so that both people are in the Field of View Frame again, and press the Shutter Release Button fully to take the picture. (Fig. 26)

When the subject is difficult to focus on:

1. When you are photographing subjects that are difficult to focus on (such as a black dog, glossy surface or behind glass), find another subject at about the same distance from the camera. You can pre-focus on that subject in the same way as described above.

* If you are shooting through a window, aiming the camera at a slight angle to the glass usually avoids any direct reflection of auto-focus beam.

* When you remove your finger from the shutter Release Button the pre-focused condition is cleared, so that you can pre-focus again as many times as you wish:

USING THE INFINITY FOCUS MODE

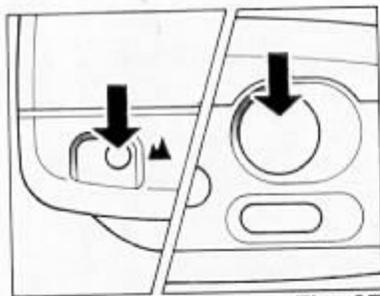


Fig. 27

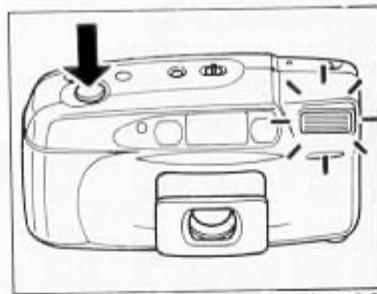


Fig. 30

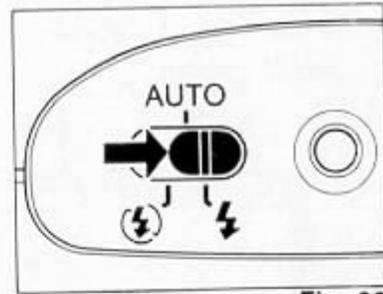


Fig. 33

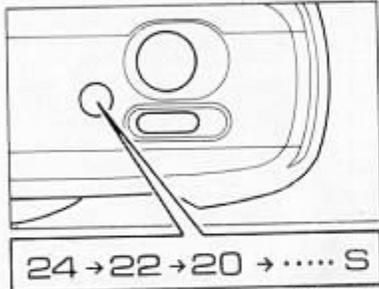


Fig. 28

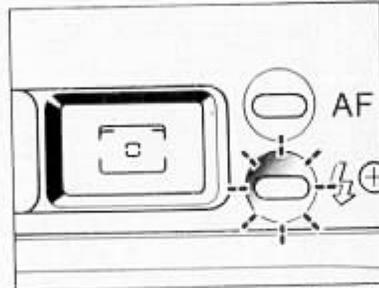


Fig. 31

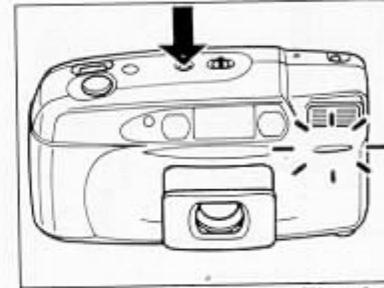


Fig. 34

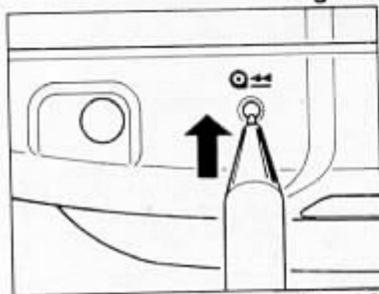


Fig. 29

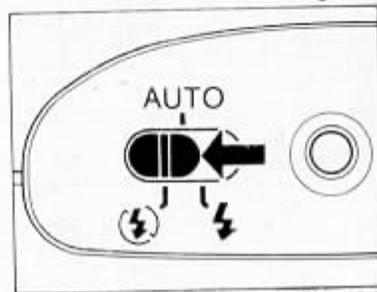


Fig. 32

Use the Infinity-Focus Mode when shooting landscapes or long-distance objects, to ensure the sharpest images.

1. Press the Shutter Release Button while pressing the Infinity-Focus Mode Button. (Fig. 27)

* The lens will focus at infinity (a) when the shutter is released.

* The Flash Unit will not fire even if additional light is required.

(Since the flash will not reach the subject anyway, battery power is conserved.)

* To use the self-timer with this mode, press the Self timer Button while pressing the Infinity-Focus Mode Button.

REWINDING THE FILM (AUTO REVERSE)

1. When the end of the film has been reached, the film will automatically rewind.

2. Film rewinding is indicated by the Exposure Counter and the counter counting backwards. (Fig. 28)

3. When the film is fully rewound, the motor stops automatically and "S" is displayed in the counter window. Open the Back Cover to unload the film....

* If you wish to rewind the film before reaching the end of the film, push the Manual Film Rewind Button with a pen, etc. (Fig. 29)

* Please do not take out the film while it is rewinding as this will cause damage to the camera.

FLASH PHOTOGRAPHY

(Auto Position)

1. If additional light is required, the built-in Flash automatically activates. (Fig. 30)

* Recommended Flash Shooting Range (ISO 100) Wide-angle: 1.0 m - about 3.4 m (3.3 ft. - 11.3 ft.) Portrait: 1.1 m - about 2.1 m (3.6 ft. - 7 ft.)

2. When the flash is still charging, the Red Flash Monitor will blink. (Fig. 31) Wait until RED-LED turns off in order to use the flash.

FLASH-OFF MODE

This mode forcibly prevents automatic firing of the flash, thus allowing available light photography in museums, churches, etc. where flash photography is prohibited.

1. Slide the Flash mode selector to the ~ symbol. (Fig. 32)

2. Press the Release Button and the shutter will be tripped without flash.

* In dim light, the camera's shutter speed will be automatically reduced. To prevent a blurry picture, hold the camera steadily and press the Shutter Release Button gently.

FLASH-ON MODE

This forcibly tops the flash when you want to photograph subjects with sunlight to their side or back. It lets you take more natural looking pictures by softening harsh shadows.

1. Slide the Flash mode selector to the ~ symbol. (Fig. 33)

2. Press the Release Button. There will now be flash every time the shutter is tripped.

* The-camera will follow a daytime SYNCHRO-Sunlight Exposure program in cases of bright light.

* The camera will go to slow synchro photography in cases of dim light.

* In dim light the camera's shutter speed will be automatically reduced. To prevent a blurry picture, hold the camera steadily and press the Shutter Release Button gently.

USING THE SELF-TIMER

1. Compose your picture with the camera on a steady support.

2. Press Self-timer Button. Self-timer LED on the front of the camera will light steadily for approximately 8 seconds. Then the LED will blink for about 2 seconds to indicate that the shutter is about to release. After a total of about 10 seconds have elapsed, the shutter will release. (Figs. 34, 35)

* If you wish to stop the self-timer once it has started, close Viewfinder Cover or press the Self-timer Button again.

Using the Self-timer for Flash Photography:

When the Self-timer Button is pressed the built in Flash will fire automatically whenever there is insufficient light.

* You may not be able to activate the self-timer when the flash is just beginning to recharge. Wait 5 - 6 seconds and try again.

* The distance measuring range: 1 m - ~ (wide-angle)

Using the Self-timer for Pre-focus Photography:

- a. Select the subject you wish to pre-focus on. Move the camera so that it is in Auto-Focus Target.
- b. Press the Self-timer Button to lock-in the focus and reposition the camera if necessary.
- c. The self-timer activates and the focus will remain fixed at the locked-in distance until the photograph is taken.

(OPTIONAL) DATA BACK SETTINGS

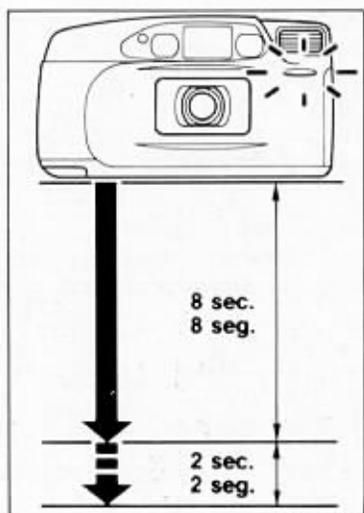


Fig. 35

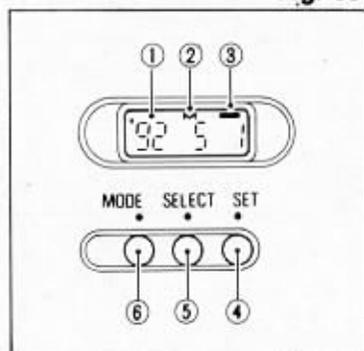


Fig. 36

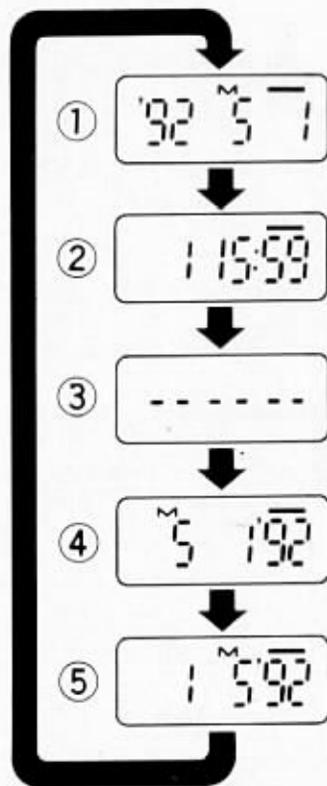


Fig. 37

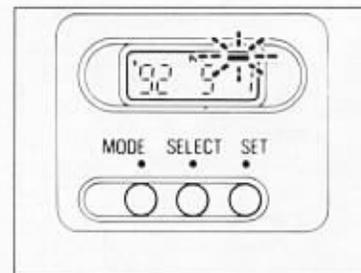


Fig. 38

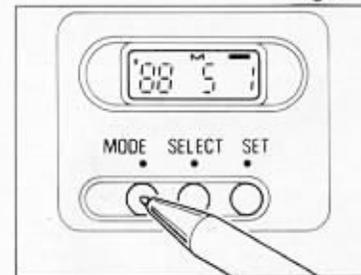


Fig. 39-A

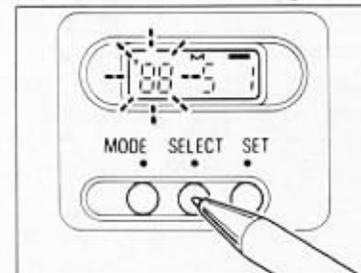


Fig. 39-B

Nomenclature of the date Imprinting feature (Fig, 36)

- (1) Display panel
- (2) Month indication
- (3) Imprint mark
- (4) Set button
- (5) Selector button
- (6) Mode selector button

Imprinting mode

Examples of date imprinting (Fig. 37)

- (1) May 1 st
- (2) 1 st 15:59
- (3) No imprinting
- (4) May 1st, 1992
- (5) 1st May, 1992

The date imprinting mode can be divided into 5 types: date, time, and no imprinting.

Selecting imprinting mode (Fig. 37)

- (1) Each time the Mode selector button is pressed, the display changes as shown below.
- (1) Date (Year/month/day)
- (2) Time (Day/hour/minute)
- (3) No imprinting
- (4) Date (Month/day/year)
- (5) Date (Day/month/year)

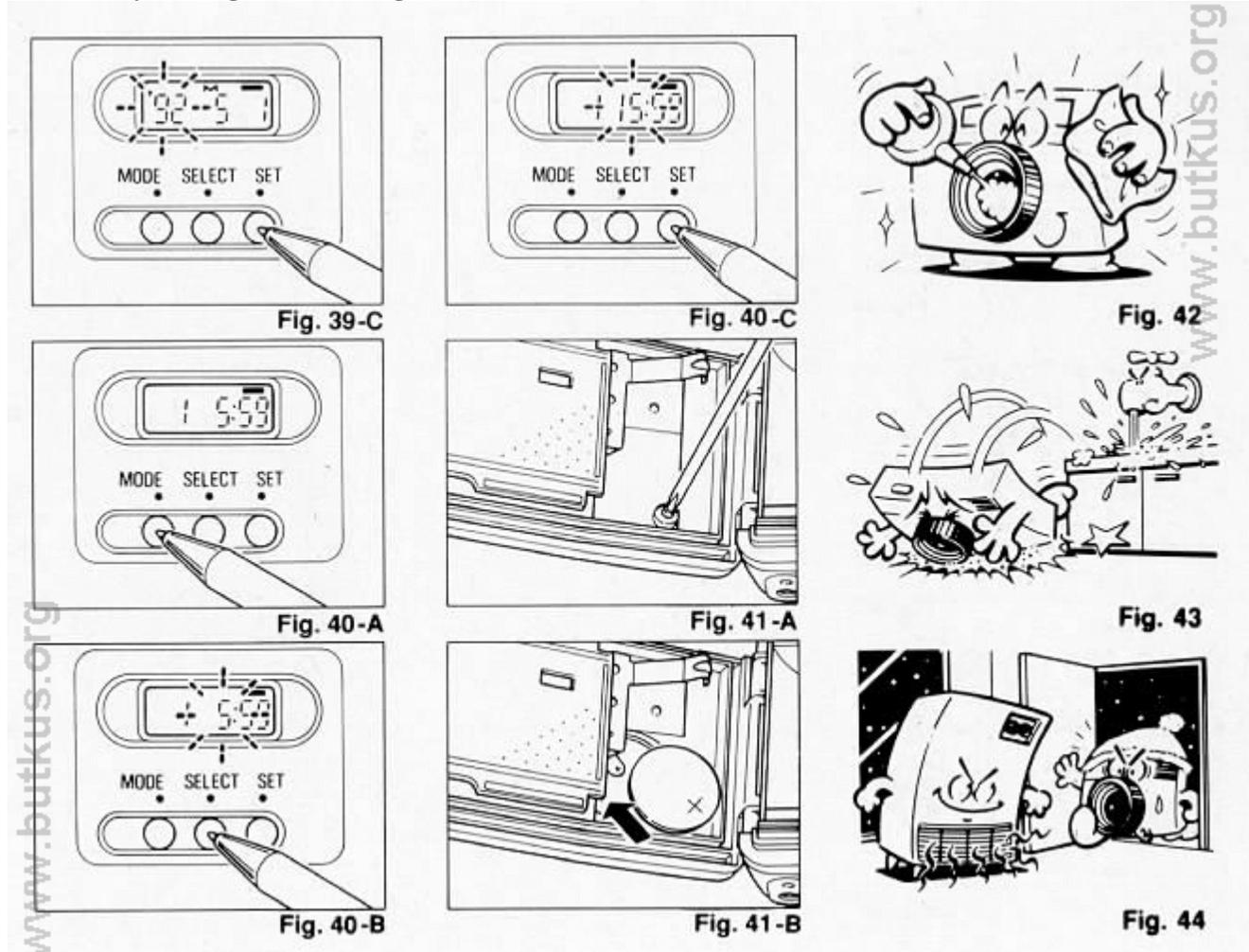
Checking imprinting (Fig. 38)

After shooting, the imprint mark--flickers in the display panel for a few seconds for correct imprinting. The mark and the letter "M". are not imprinted on the picture.

Resetting the date and time (Figs. 39)}A - C)

1. Each time the Selector button is pressed, the flashing digits change in the order of year, month, day, hour, minute and colon (:).
2. When the digits to be reset flash, press the Set button until the desired digits appear. When the Set button is kept pressed, the digits change rapidly.

Accurately setting seconds (Figs. 40 A- C)



1. Press the Mode selector button for Time display mode.
2. Press the Selector button so that the colon (:) flickers.
3. Press the Set button according to the radio or telephone time signal. The time count starts from 0 seconds.

* It is recommended that the second digits be adjusted after adjusting the minute digits.

Battery Replacement (Figs. 41-A, 41-B)

1. Open the back cover.
2. Remove the screw from the data back battery compartment cover with a small (+) screwdriver.
3. Remove the battery compartment cover and lift up the battery.

4. Load the new battery with the side marked (+) facing upwards. Then, close the battery compartment cover using the (+) screwdriver. (Use lithium battery CR2025. The service life is about 3 years.)

* When the battery is exhausted, the imprinted digits become faint. At that time, replace the battery.

* Do not open the date battery compartment cover except when replacing the battery.

* Keep the battery out of reach of children. If a child swallows the battery, contact your doctor immediately.

Notes on date imprinting feature

* At temperatures below 0°C (32°F), the battery performance deteriorates. The date imprinting feature may not function correctly and imprinting may become impossible.

* When the battery is replaced, the display panel sometimes shows wrong digits. Reset the digits for correct indication.

* The date is sometimes illegible if it is imprinted on the following objects.

(1) "Warm"-colored objects, such as red, yellow, orange, etc.

(2) Objects with details similar in size to the imprinted date (gravel, leaves, etc.)

(3) Objects of high luminance (sky, white wall, etc.)

* Imprinting is not possible in the following modes.

(1) Print off mode

(2) Reset mode

PROPER CARE OF YOUR CAMERA

* If there is dirt on the lens or Distance Measuring Windows and in the camera body, do not attempt to remove it with your fingers. Use a blower to blow the dust away, or wipe the surface gently with a soft cloth. (Fig. 42)

* Camera malfunction can be caused by shock, humidity, salt etc. After using the camera at the beach or places where there is salt spray, high humidity or chemicals, wipe it off carefully. (Fig. 43)

* Take care not to expose the camera to sudden changes in temperature, as they may cause condensation on the lens and inside the body, or other malfunctions. (Fig. 44)

* Do not expose the camera for a long period of time in extremely high temperatures, such as in your car or on the beach, as this may ruin your film, or cause other malfunctions. (Fig. 45)

* When using a tripod, do not try to force a long screw into the socket. The screw length should be less than 5.7 mm. (Fig. 46)

* Do not place the camera near equipment that has strong magnetic fields such as a television or radio. (Fig. 47)

MAJOR SPECIFICATIONS:

Type: 35 mm wide-angle/portrait switchable lens shutter type with automate.

Lens: 35 mm F4.5 (3 groups, 3 elements) 55 mm F7.2 (5 groups, 5 elements)

Focusing: Automatic focus with pre-focusing facility.

Distance measuring range 1 m - ∞ (at wide-angle), 1.1 m - ∞ (at portrait)

Shutter: Programmed AE type electronic shutter 1/3 - 1/350 sec.

Self-timer: Built-in electronic type with LED indicator. Operating delay of approx. 10 sec.

Viewfinder: Albada type with tele-wide viewfinder

Exposure adjustment: With CdS photocell. Programmed automate exposure adjustment.

Exposure coupling range EV6 -15 (wide-angle), EV7.5 -15 (portrait)/ISO 100

Film Speed range: ISO 50 -1600. Compatible with the OX code system. (Non-DX code films are set to ISO 100.)

Film loading: Ricoh auto-load system

Film advance/rewind: Automatic film advance and rewind. Automatic film rewind at the end of roll. Mid-roll rewind is possible.

Exposure counter: Additive, counts down during film rewind.

Built-in Hash: Fixed, flashmatic sensor type.

Flash range: 1.0 m - 3.4 m (wide-angle), 1.1 m - 2.1 m (portrait)

Interval bin flashes: About 5 sec.

Other features: Flash-on, Flash-off, Self-timer, Infinity-Mode.

Power source: 2 x M batteries (Ni-Cad cannot be used) —

Dimensions: 126 mm x 69 mm x 43.5 mm (WxHxD)

Weight: 190 g (without battery)

* Specifications are subject to change without notice.