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PENTAX®

67II

OPERATING MANUAL



Welcome to the Fantastic World of Pentax Medium Format Photography

This medium format 67II camera gives an image area four times larger than that of the 35mm SLR camera, assuring the photographer of fine-grained, superior quality image definition on enlargements.

The Aperture-Priority AE Mode and the metering mode of the multi (6) segment, Center-weighted and the spot metering modes are available when the AE Pentaprism Finder 67II is attached.

Read this instruction manual carefully to get a full explanation of operations before use.

The operating manual explains the camera with an optional AE Pentaprism 67II attached.

Lenses and accessories produced by other manufacturers are not made to our precise specifications and therefore may cause difficulties with or actual damage to your Pentax camera. We do not assume any responsibility or liability for difficulties resulting from the use of lenses and accessories made by other manufacturers.

Icon indicators used in this manual







| | |
|----------------------------|---|
| Operation direction |  |
| Automatic operation |  |
| Attention |  |
| Lamp blinking |  |
| Correct |  |
| Incorrect |  |

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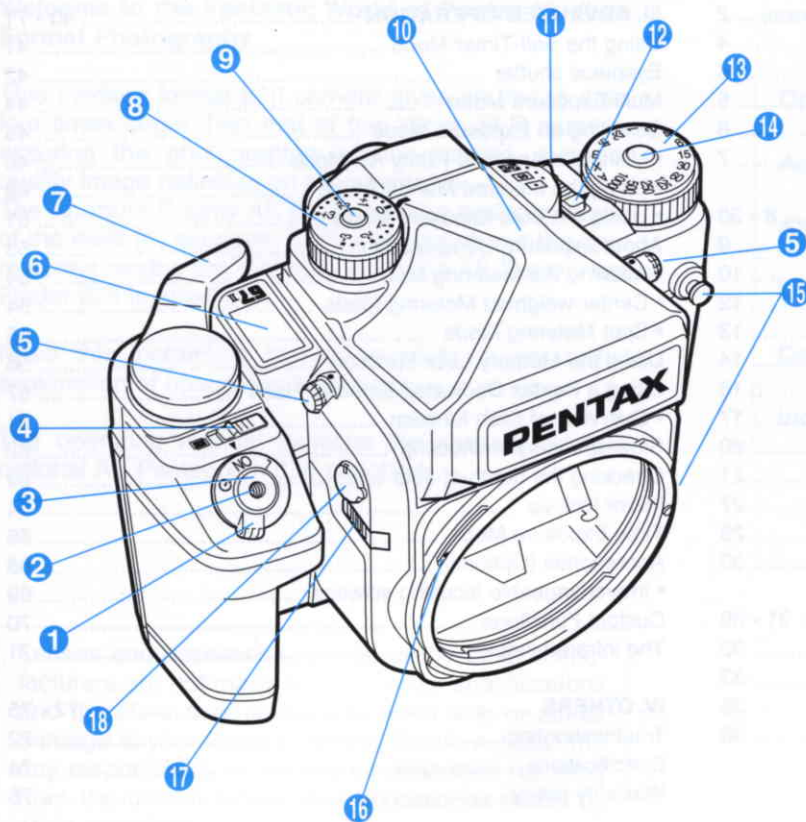
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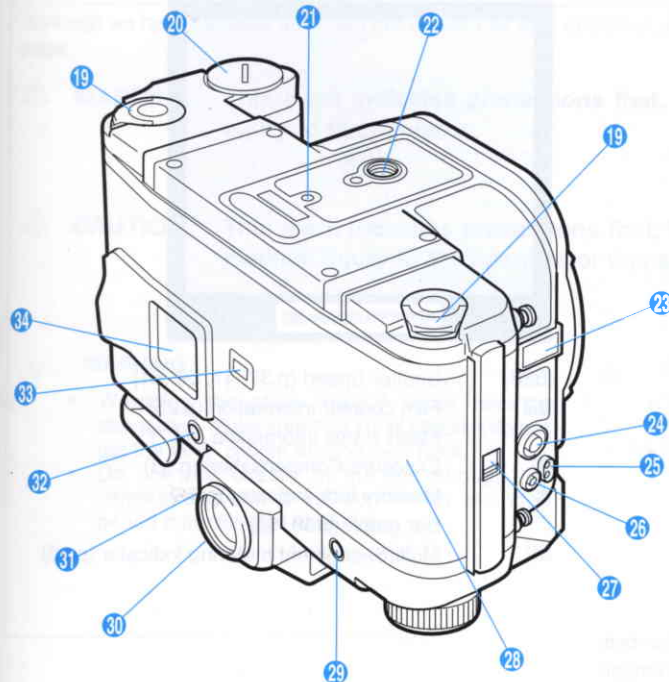
NAMES OF WORKING PARTS I



- 1 Main switch (p.12,41)
- 2 Cable release socket (p.52)
- 3 Shutter release button (p.16)
- 4 Multi-exposure lever (p.44)
- 5 Viewfinder unlock button (p.19)
- 6 LCD panel (p.4)
- 7 Wind lever (p.24,44)
- 8 Exposure compensation dial (p.53)
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NAMES OF WORKING PARTS II

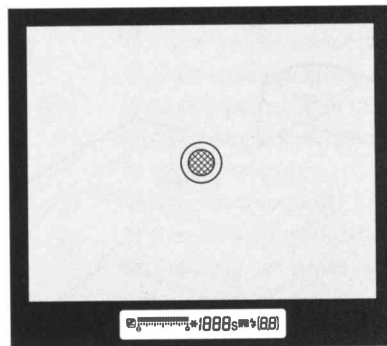
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- 19 Film spool retainer (p.22)
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LCD PANEL INDICATION

VIEWFINDER INDICATION



- 88** : Frame counter (p.25)
- 8888** : Film speed information (p.20)
- ISO** : Film speed set information (p.20)
-  : Battery exhaustion warning (p.13)
- FILM** : Film loading confirmation (p.25)
-  : Film advance indication (p.39)
-  : Flash status information (p.57)

- 1888s** : Shutter Speed (p.37, 47, 50 ,51)
- [8.8]** : Film counter information (p.25)
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LCD (Liquid-Crystal Display)

When the LCD is exposed to high temperatures over approximately 60°C it may blacken, but when the temperature normalizes, it should return to normal.

Although we have carefully designed this camera for safe operation, please be sure to follow precautions given on this page.



WARNING

This mark indicates precautions that, if not followed, could result in serious injury to the operator.



CAUTION

This mark indicates precautions that, if not followed, could result in minor or medium injury to the operator or damage to the equipment.



WARNING

- Wrapping the strap around your neck is dangerous. Make sure that small children do not get the strap caught around their neck.
- Do not look directly at the sun through the camera, as viewing the sun for an extended period may damage your eyes.



CAUTION

- Never try to disassemble, short or recharge the battery in fire, as it may explode.
- Remove the batteries from the camera immediately if they become hot or begin to smoke. Be careful not to burn yourself during removal.

PRECAUTIONS FOR YOUR CAMERA

Your Pentax camera is a high-precision mechanism. Handle it with great care.

Precautions when taking pictures

- Do not use the camera where it may come in contact with rain, water, or any other liquid, because the camera is not weather, water, or liquid resistant. Should the camera get wet from rain, splashing water, or any other liquid wipe it off immediately with a dry soft cloth.
- Do not drop the camera or allow it to hit solid objects. If the camera suffers a shock or impact, take it to a Pentax service center for inspection.
- Be careful not to subject the camera to strong vibrations, shock or pressure. Use a cushion to protect the camera when carrying it in a motorcycle, car, boat, etc.
- Condensation on the interior or exterior of the camera may be extremely harmful to the camera mechanism as it may cause rust. Furthermore, if the camera is taken from warm temperature to a subfreezing one or vice versa, the formation of icelets may cause damage. In such a case, put the camera into a case or plastic bag so that any changes in temperature difference is minimized. Do not remove it from the bag until temperature has stabilized.

Precautions for storage

- Avoid leaving the camera for extended periods in places where the humidity and temperature are very high, such as in a car.
- Do not store the camera in a closet with mothballs or in an area where chemicals are handled. Store it in a place with good dry air circulation to prevent the growth of fungus.

Precautions for proper care

- Never touch the shutter curtain or mirror with your finger or any other object.
- Use a blower and lens brush to remove dust accumulated on the lens or viewfinder.
- Never use solvents such as paint thinner, alcohol or benzene to clean the camera.
- Electrical problems may often be caused by water, dirt or dust at points of electrical contact. Also check for battery leakage, traces of dirt or grease, or corrosion due to salinity or gas. If you cannot correct the problems, have your camera inspected at a Pentax service center. Repairs of this nature are not covered under the terms of the warranty and charges may be assessed.

Other precautions

- The temperature range at which this camera functions properly is 50°C to -10°C (122°F to 14°F).
- A camera which has been submerged in water usually cannot be repaired. If such an accident should occur, it is advisable to contact a Pentax Service Center immediately.
- To maintain optimum performance, it is recommended that the camera be inspected every one or two years. If the camera has not been used for an extended period, or is being prepared for an important photographic session, it is recommended that you have the camera inspected or test shoot with it.
- Repairs deemed necessary due to usage of this product in an industrial or commercial application may not be covered under the terms of the Pentax warranty.
- The PENTAX warranty provides only for the repair of defects in materials or workmanship. Damage of any kind cannot be repaired at no charge under the terms of the warranty. If the difficulty is caused as a direct result of the product being used in conditions as outlined in the "Precautions for Your Camera" section

or any other operation contrary to the instructions outlined in this manual, charges will be assessed and a repair quotation will be provided.

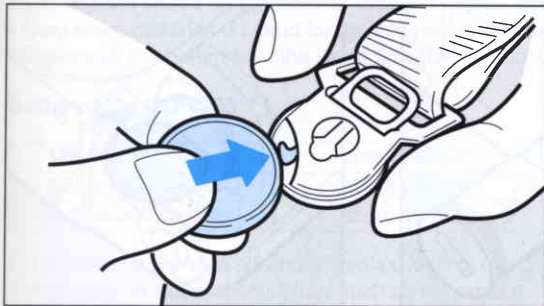
- Use two CR123A lithium batteries.
- Misuse of the battery can cause hazards such as leakage, overheating, explosion, etc. The battery should be inserted with the "+" and "-" sides facing correctly.
- Battery performance may be temporarily hindered in low temperatures, but will recover in normal temperatures.
- Keep a spare battery on hand for replacement convenience when shooting outdoors or while traveling.
- Replace the batteries at the same time. Do not mix battery brands, types, or old batteries with new ones, as this may cause explosion or overheating.

I. BASIC OPERATION (PREPARATION)

ATTACHING THE CAMERA STRAP

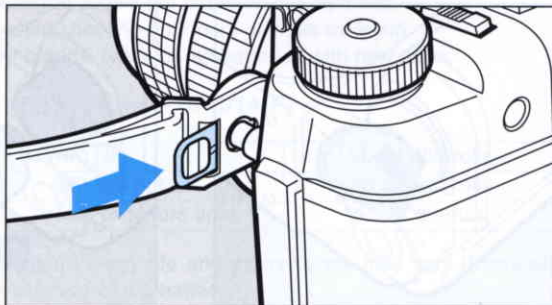
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1



1. Slide the illustrated part of the clasp in the direction of arrow by using a coin or similar object.

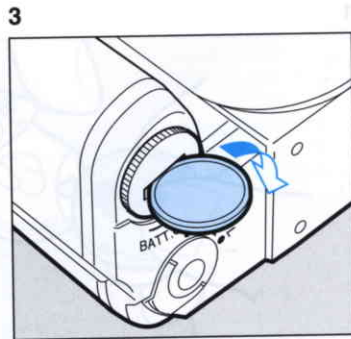
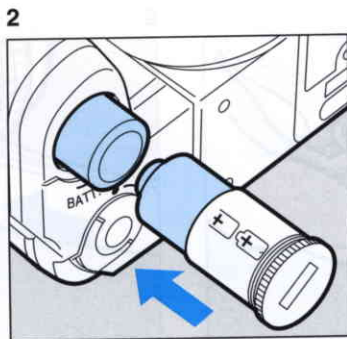
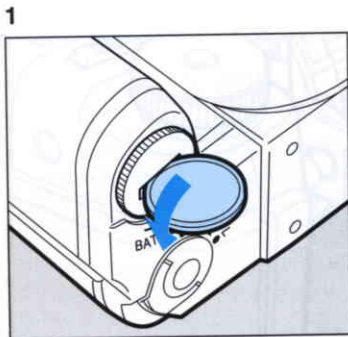
2



2. Put the clasp onto the strap lug with its black surface side facing out, and return the lock plate to the original position. It will securely attach to the strap lug.

- Adjust the length of the strap with the buckle.
- To remove the strap, slide the lock plate with a coin or similar object (as in step 1, above)
- After fitting the strap and adjusting the length, pull the strap hard to confirm if the strap has securely attached to the camera.

LOADING THE BATTERIES



1. Remove the battery chamber cover by using a coin or similar object as shown in the illustration.
2. Load two 3V lithium batteries (CR123A or the equivalent) as shown in the illustration.
3. Turn the battery chamber cover in the direction of the arrow to lock it securely.

- This camera requires battery power for operation. Always use two CR123A lithium batteries.
- The ISO film speed and number of exposed frames are unchanged even if the batteries are replaced.
- Keep spare batteries on hand for replacement convenience when shooting out doors or while traveling.
- Replace all the batteries at the same time. Do not mix battery brands, types or old batteries with new ones.

Battery Life (20°C/68°F)

| | |
|---------------------|-----------------|
| 120 film: | about 500 rolls |
| 220 film: | about 250 rolls |
| Bulb exposure time: | about 13 hours |

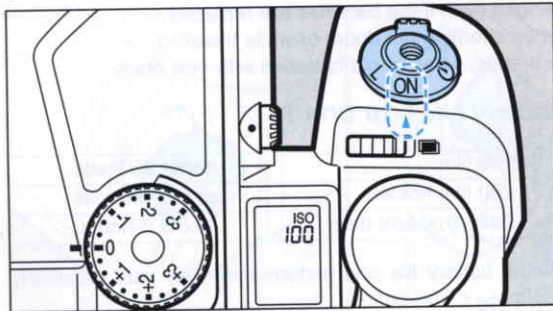
Battery Life (-10°C/14°F)

| | |
|---------------------|-----------------|
| 120 film: | about 250 rolls |
| 220 film holder: | about 120 rolls |
| Bulb exposure time: | about 6 hours |

- The batteries were used under Pentax testing conditions. Actual battery life and performance may vary drastically depending on external conditions such as temperature and freshness of the battery.
- Battery performance may be temporarily hindered in low temperatures, but should recover in normal temperatures.

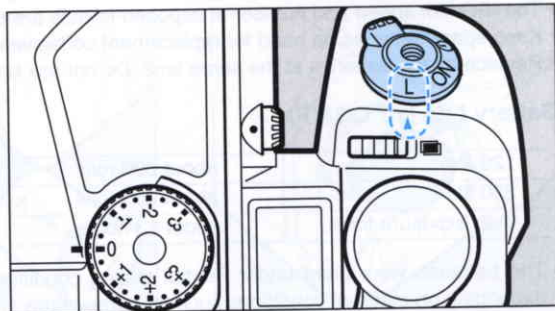
TURNING THE POWER ON

1



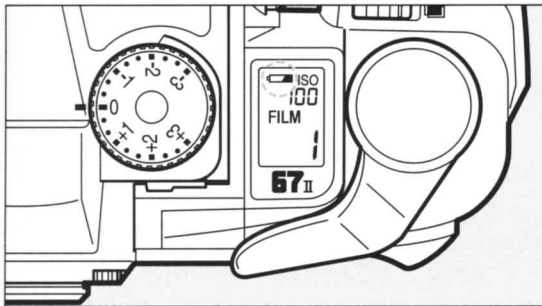
1. Set the main switch to [ON].

2





2. The power is turned off when the main switch is set to [L].

- When the camera is not in use, make sure that the main switch is set to L to prevent battery drain if the shutter release button is accidentally depressed.



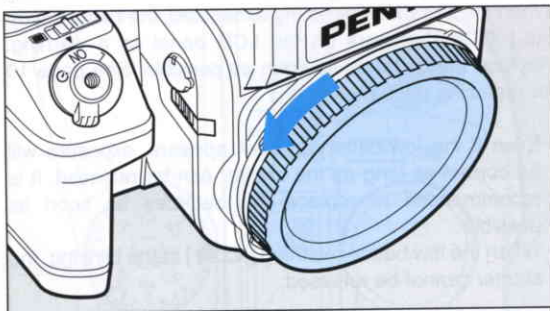
* Low Battery Warning

When the batteries are nearly exhausted, the battery symbol [] appears on the LCD panel as a warning. Replace the batteries as soon as possible. See page 10 for replacing the batteries.

- Even if the low-battery symbol appears, exposure will be correct as long as the shutter can be released. It is recommended to replace the batteries as soon as possible.
- When the low battery warning [] starts blinking, the shutter cannot be released.

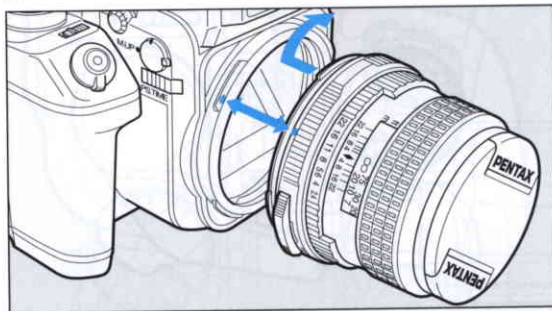
ATTACHING THE LENS

1



1. Remove the body mount cap by turning it in the direction of the arrow.

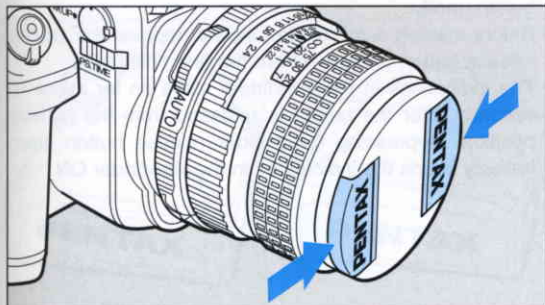
2



2. Align the red dots on the camera and lens mount, attach the lens to the camera body, and turn it fully to the right until you hear a click.

- For outer bayonet lenses, please refer to the operating manual, 67 INTERCHANGEABLE LENSES.

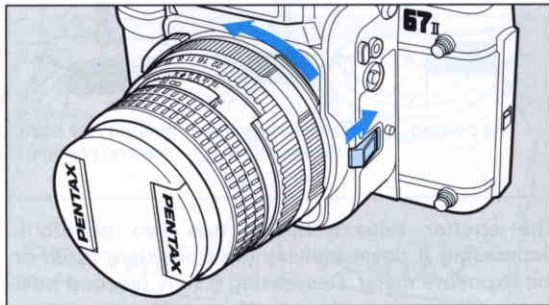
3



3. To remove the front lens cap, squeeze the tabs on both sides in the direction of the arrow.

- We assume no responsibility nor liability for damages resulting from the use of lenses made by other manufacturers.

*

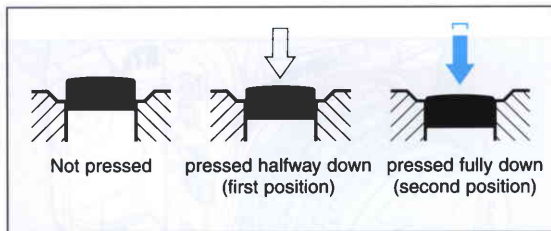


* How to remove

To remove the lens, turn it to the left while depressing the lens release lever.

- To protect the lens against damage after removal, be sure to set the lens down with the mount side facing upward.

DEPRESSING THE SHUTTER RELEASE BUTTON

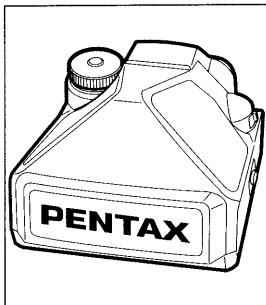


The shutter release button has two positions. Depressing it down halfway (first position) turns on the exposure meter. Depressing it fully (second position) releases the shutter. When taking a picture, depress the shutter release button gently to prevent camera shake.

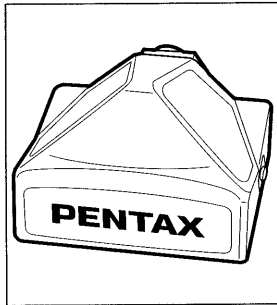
- To prevent camera shake, depress the shutter release button gently.
- Before loading a roll of film, slowly depress the shutter release button to learn where the first position is.
- The indications in the viewfinder stays on for about 10 seconds after the button is released from the halfway position. Depressing the shutter release button down halfway keeps the indications in the viewfinder ON.

ABOUT INTERCHANGEABLE VIEWFINDER

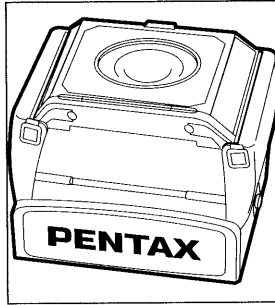
Four types of optional interchangeable viewfinders are available.



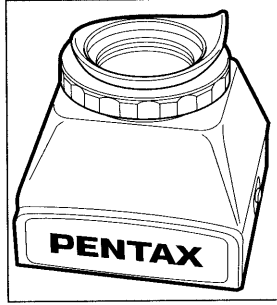
AE Pentaprism Finder 67 II



Pentaprism Finder 67 II

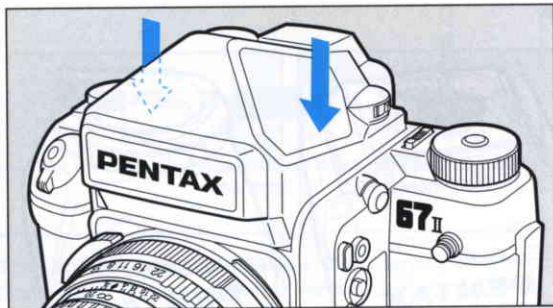


Folding Focusing Hood 67 II



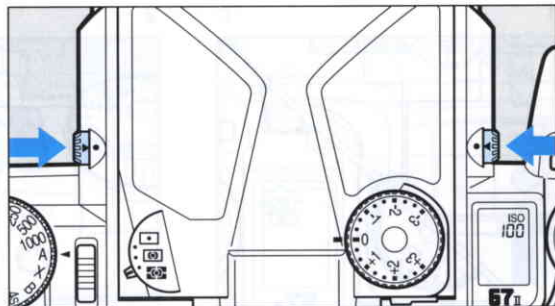
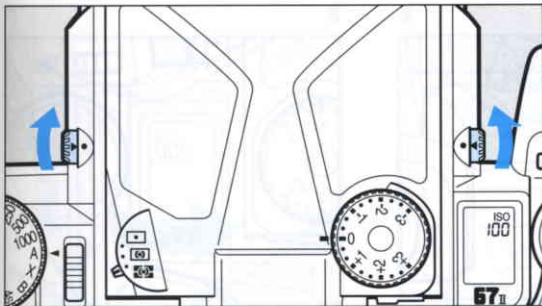
Rigid Magnifying Hood 67 II

- When the AE Pentaprism Finder 67 II is attached to the 67 II camera, the Aperture-Priority AE Mode and the Metered Manual Mode are usable.
- The Pentaprism Finder, Folding Focusing Hood or Rigid Magnifying Hood used for the 67 camera can also be attached to the 67 II camera.
- The TTL Pentaprism Finder used for the 67 camera cannot be used to the 67 II camera.

**Attaching the viewfinder**

Place the viewfinder on the upper part of the camera as illustrated and press it down until it clicks two times.

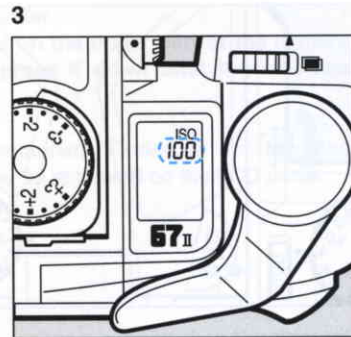
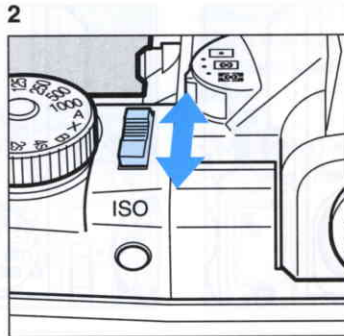
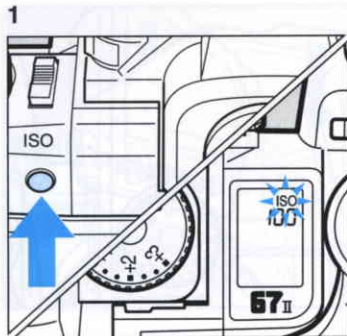
- When the AE Pentaprism Finder is not attached properly, [Perr] may be appeared on the LCD panel.



Detaching the viewfinder

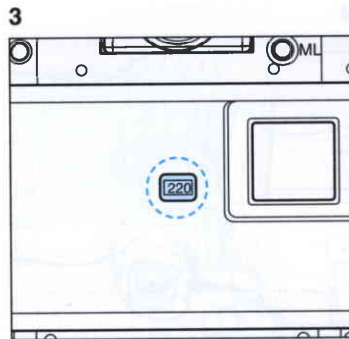
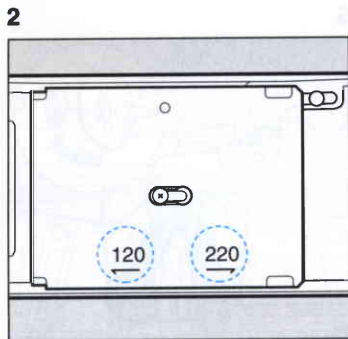
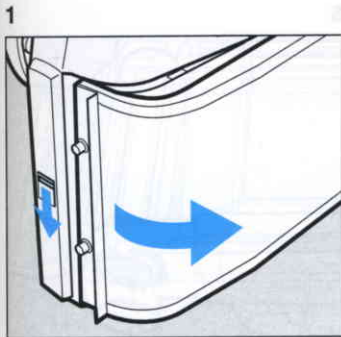
To detach the viewfinder from the camera, turn the viewfinder unlock button in the direction of the arrow to align the red dots on the camera and then depress the viewfinder unlock button.

SETTING THE FILM SPEED (ISO)



1. Set the main switch to ON and depress the film speed set button. The ISO indicator on the LCD panel blinks.
2. While depressing the film speed set button, move the film speed set lever. To change the film speed to a larger number (higher film speed), move the lever toward the front repeatedly until the desired ISO appears on the LCD panel. To change the film speed to a smaller number (lower film speed), move the lever toward the back repeatedly until the desired film speed appears on the LCD panel.
3. After the desired film speed is set, release the finger from the film speed set button.

- Holding the lever will change the film speed continuously.
- The film speed setting range is ISO 6 to 6400 in 1/3 EV step increments.
- [ISO] and film speed are always displayed on the LCD panel when the main switch set to the ON position.

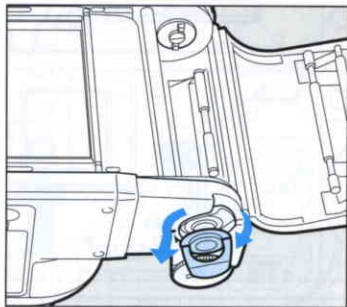


Be sure to set the proper film speed before the film is loaded. See page 20 for setting the film speed.

1. Open the back cover by sliding the back cover release lever.
2. Depress and shift the pressure plate according to the film type (120 or 220) you use.
3. The pressure plate you set will indicate the film information window.

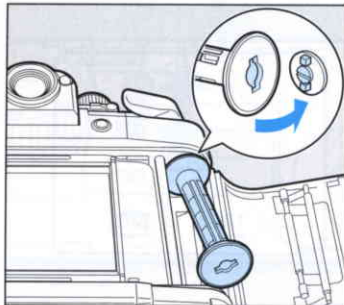
- Film drag will occur when the pressure plate (220) is set for a 120 film or imprecise focusing will occur when the pressure plate (120) is set for a 220 film.

4

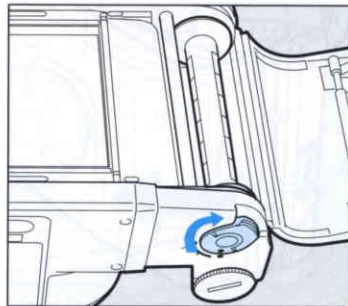


4. Unfold the crank of the film spool retainer knob, turn the knob to the left and pull down.
5. Install the emptied spool to the spool retainer as illustrated.
6. Push in the film spool retainer knob and turn it to the direction of the arrow.

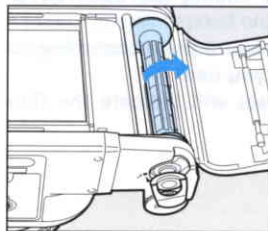
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6



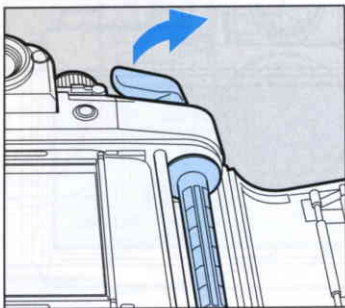
- If the film spool retainer knob does not fit in the proper position, turn the spool in the direction of the arrow as shown in the illustration.



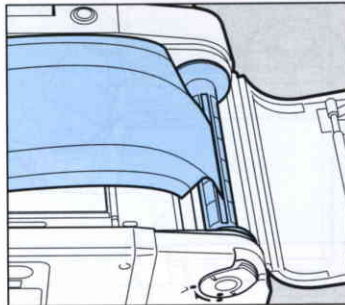
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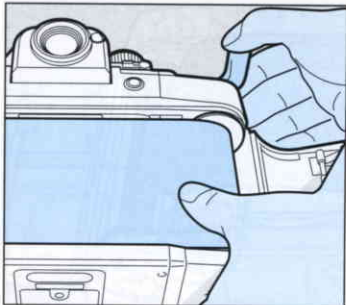


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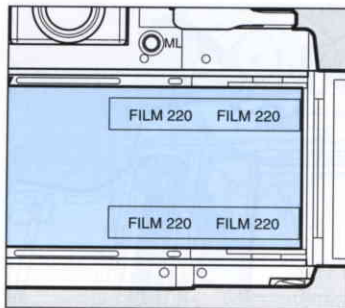


7. Tear off the tape from the film and install the film to the spool retainer in the same manner as installing the emptied spool so that the letters on the leader paper are facing outwards.
8. Turn the wind lever until the slot of the empty spool faces upward.
9. Draw the film leader from the film roll, and insert the tip of the leader into the spool's slit.

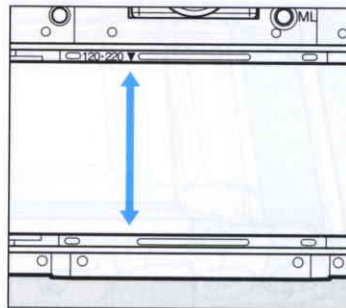
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11

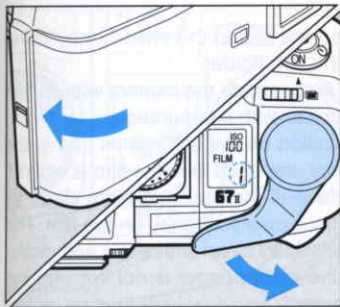


12

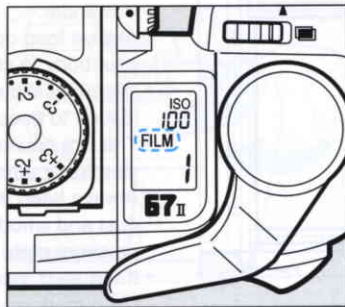


10. Turn the wind lever while lightly pressing the film leader.
11. Confirm that the film leader is evenly wound onto the spool.
12. Turn the wind lever until the arrow marking on the leader paper aligns with the (▼) mark on the camera.

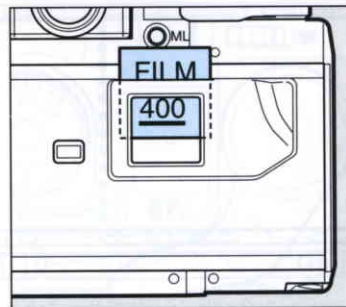
13



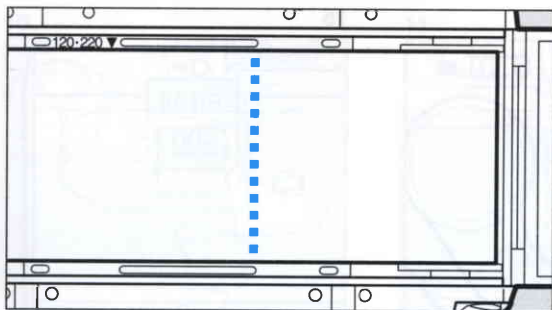
14




15

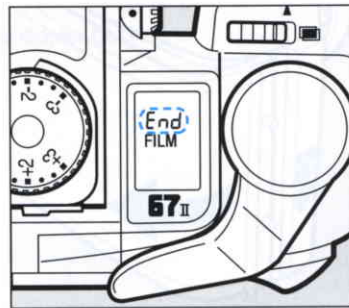
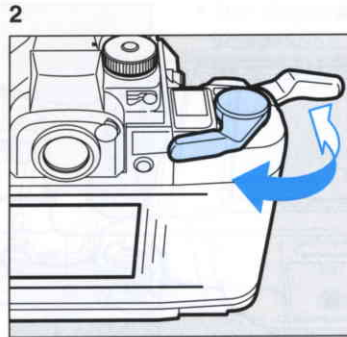
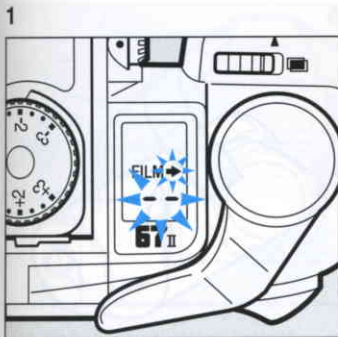


13. Close the back cover. Keep turning the wind lever until the wind lever stops. The film counter indicates [1].
14. [1] appears on the LCD panel when the film is properly loaded.
15. You can tear off the end cover of the film package indicating the type of film and speed and insert it into the memo holder provided on the back cover to remind you of the film type/speed that you are using.



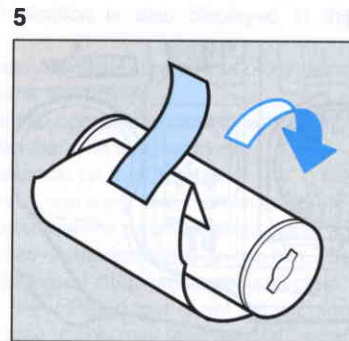
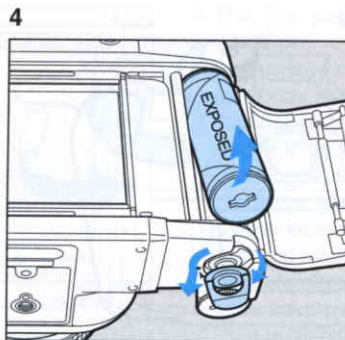
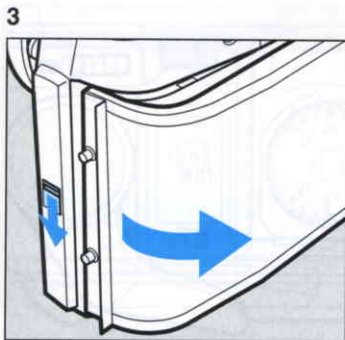
With a 220 film loaded, the dot marks appear before the arrow marking. If the dot marks align with the start mark on the camera, the first 3 frames will not be exposed.

- The film counter indication is also displayed in the viewfinder.
- Always load or unload the film in the shade or by using your body to shade the film holder.
- We suggest that you first operate the camera with no film loaded to become familiar with its operations.
- The film counter indication on the LCD panel and in the viewfinder advances by one each time the film is wound.
- Always keep the surface of the pressure plate clean as dust and smudges may cause scratches on the film. The pressure plate can be wiped clean with a dry soft cloth.
- If the start mark on the leader paper is not set with the (▼) mark on the camera, you may lose the first or last frame(s) on the roll.
- 10 pictures are taken with the 120 film and 21 pictures are taken with the 220 film.
- To release the shutter with the back cover opened, cock the shutter while holding down the multi-exposure lever in the [] position.

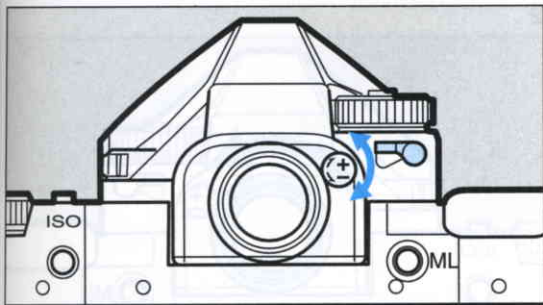


1. After the last frame of the roll is exposed, [➡] on the LCD panel blinks.

2. Wind the leader paper until [End] appears on the LCD panel.



3. Confirm that [End] is displayed on the LCD panel.
Open the back cover.
 4. Unfold the crank of the film spool retainer knob,
turn the knob to the left and pull down.
 5. While firmly holding the wound film roll, fold the
end of leader paper and then affix the paper seal
securely on the back of the paper leader to prevent
accidental unwinding of the exposed roll.
- Remove the film in the shade or by using your body to
shade the camera.

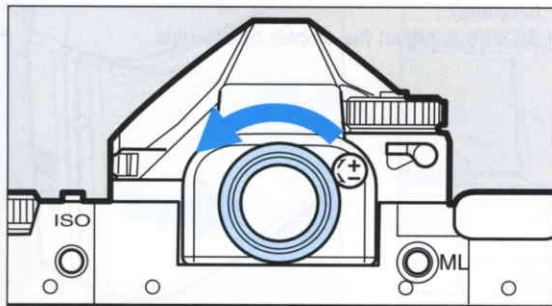


Aim the camera at a bright subject. While looking through the viewfinder, turn the diopter adjustment dial to the left or right until the microprism grid appears in the sharpest focus.

- The diopter adjustment range is +1.5D to -2.5D (diopters).
- Be sure to adjust the diopter before use.

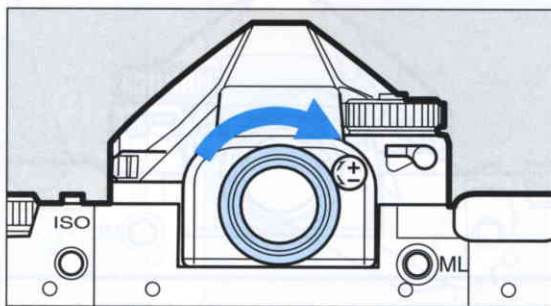
INSTALLING THE CORRECTION LENS

1



1. Turn the rubberized eyepiece frame to the left and remove it.

2

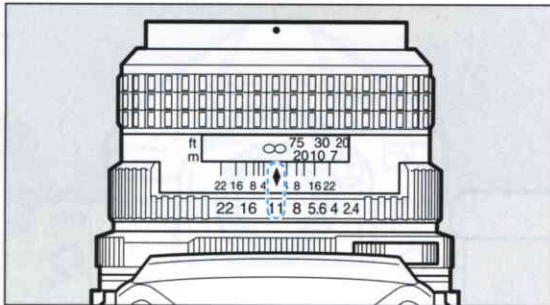


2. Install the desired correction lens as illustrated.

- The diopter adjustment range can be changed from -1.5D to -5.5D or +3.5D to -1.5D by changing the optional correction lenses.

II. BASIC OPERATION (SHOOTING)

1

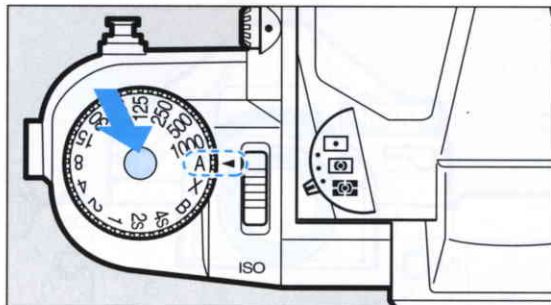


When the desired aperture is selected, an appropriate shutter speed is automatically set by the camera for a proper exposure.

How to

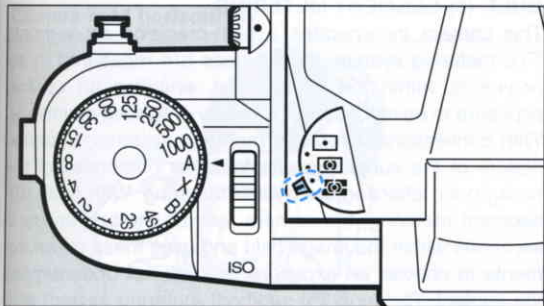
1. Set the lens aperture ring to the desired f-stop.

2



2. Turn the shutter speed dial to [A] while holding down the shutter speed dial lock button.

- The shutter speed dial can be released from [A] to another position in the same manner as above.
- See Page 48 for the Metered Manual Mode.
- The Aperture-Priority AE Mode does not operate unless the AE Pentaprism Finder 67 II is attached.
- When the shutter speed dial is set to [A] without attaching the AE Pentaprism Finder 67 II, the shutter speed will be set at 1/30 of second.



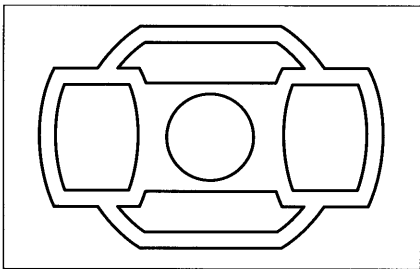
In the multi (6)-segment metering mode, the metering system automatically measures light in six different zones, enabling proper exposure value in a wide variety of normal and adverse lighting conditions.

Set the metering mode switch to [].



[] is displayed in the viewfinder.

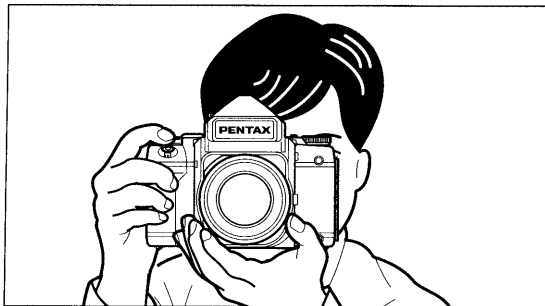
- The center-weighted metering mode and spot metering mode are also available in this camera. See page 54 and 55 for more details.



This camera incorporates a high-precision six-segment TTL metering system. Light values are measured in six segments within the image field, enabling an optimal exposure to be made under a variety of lighting conditions. With conventional averaged metering systems, underexposure of the subject results from the brightness of the background affecting the overall metering. With multi (6)-segment metering, the camera records the brightness in six zones within the image field and uses these measurements to choose an exposure that will not underexpose the subject. The multi (6)-segment metering system also calculates exposure values for a scene to automatically compensate for high-contrast and other difficult lighting conditions. Even a beginner can achieve excellent results with ease.

HOLDING THE CAMERA

Camera held horizontally

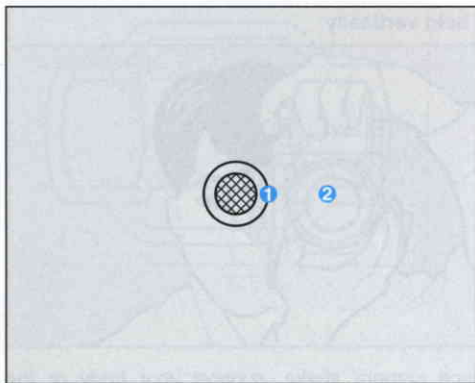


Camera held vertically



Hold the camera firmly, with your left hand supporting the camera and lens as shown in the illustrations. While taking a picture, hold your breath and gently depress the shutter release button. (Sudden force on the shutter release button will cause camera shake, making the picture blurred.)

- To reduce camera shake, support your body or the camera on a solid object - a table, tree, or a wall for instance.
- Although there are individual differences among photographers, in general the shutter speed for a hand held camera is the inverse of the focal length. For example, $1/75$ of second when the focal length is 75mm, and $1/150$ of second when it is 150mm. A tripod should be used for shutter speeds slower than this.
- When using an ultra-telephoto lens, a tripod that is heavier than the total weight of the camera and lens is recommended to avoid camera shake.
- When the tripod is used, use of an optional Cable Release is recommended.



You can use ① or ② for focusing.

① Microprism field

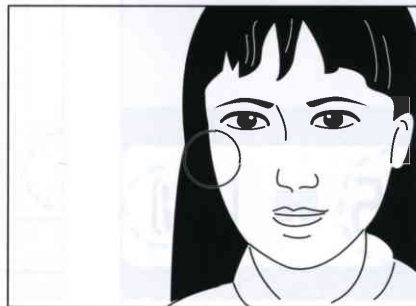
Turn the focusing ring until the image on the microprism appears sharp and crisp.

② Matte field

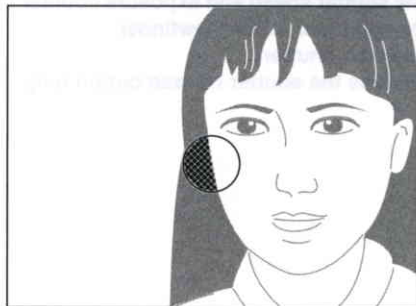
Turn the focusing ring until the image on the matte field appears sharp and crisp.

- Be sure to adjust the diopter before use. See page 29.

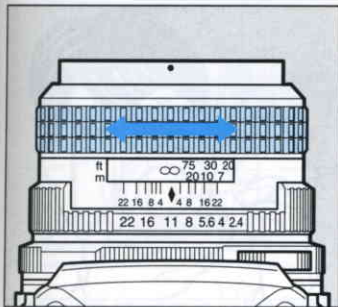
In focus



Out of focus

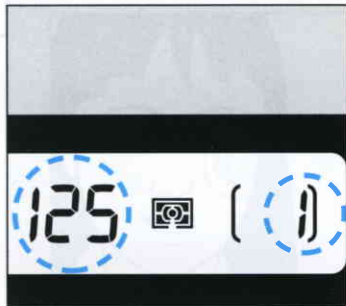


1

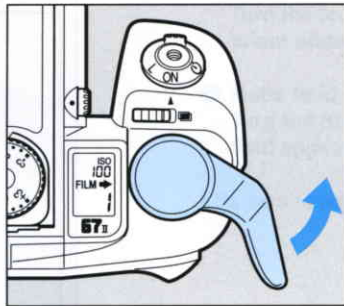


1. While looking through the viewfinder, turn the focusing ring to the right or left until the image appears in sharp and crisp.

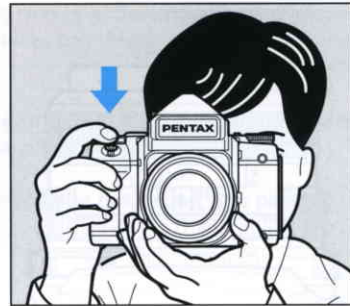
2



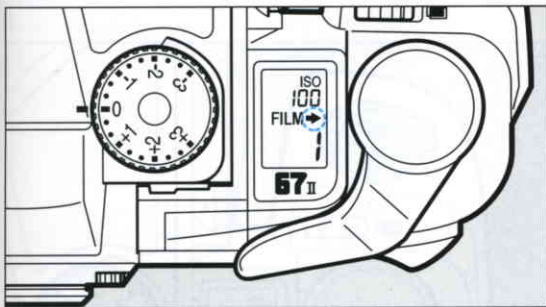
3



4



2. Depress the shutter release button halfway down.
The shutter speed and exposure counter indication are displayed in the viewfinder.
3. Cock the shutter.
4. Depress the shutter release button fully.



When the shutter is in the uncocked position, the film advance indicator [➡] appears on the LCD panel.