

Canon T90



E
English Edition
INSTRUCTIONS

INTRODUCTION

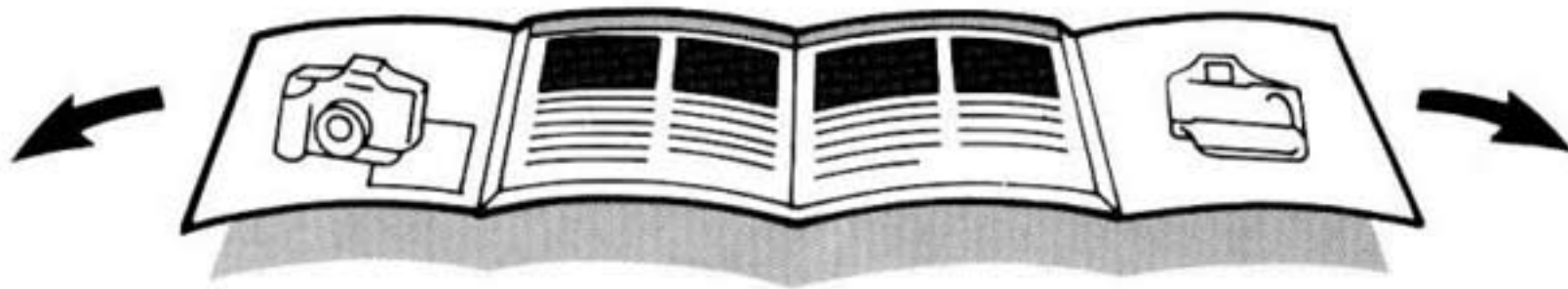
Thank you for purchasing the Canon T90. This camera is designed as a comprehensive package of the most advanced and innovative technologies available in the world today, balancing your photographic desires with automatic features — a state-of-the-art camera.

Your photographic range is heightened by 1) the built-in motor drive capable of winding film at a maximum of 4.5 frames per second with merely four size-AA batteries, 2) the high-speed PMS shutter permitting 1/4000 sec shutter speed and 1/250 sec flash synchronization, 3) the three switchable metering distribution patterns, and 4) a wide range of AE shooting modes responding to your photographic

needs. Meanwhile, complete automation in areas such as film transportation and film speed setting makes "multiple functions and simple operation" finally and fully compatible.

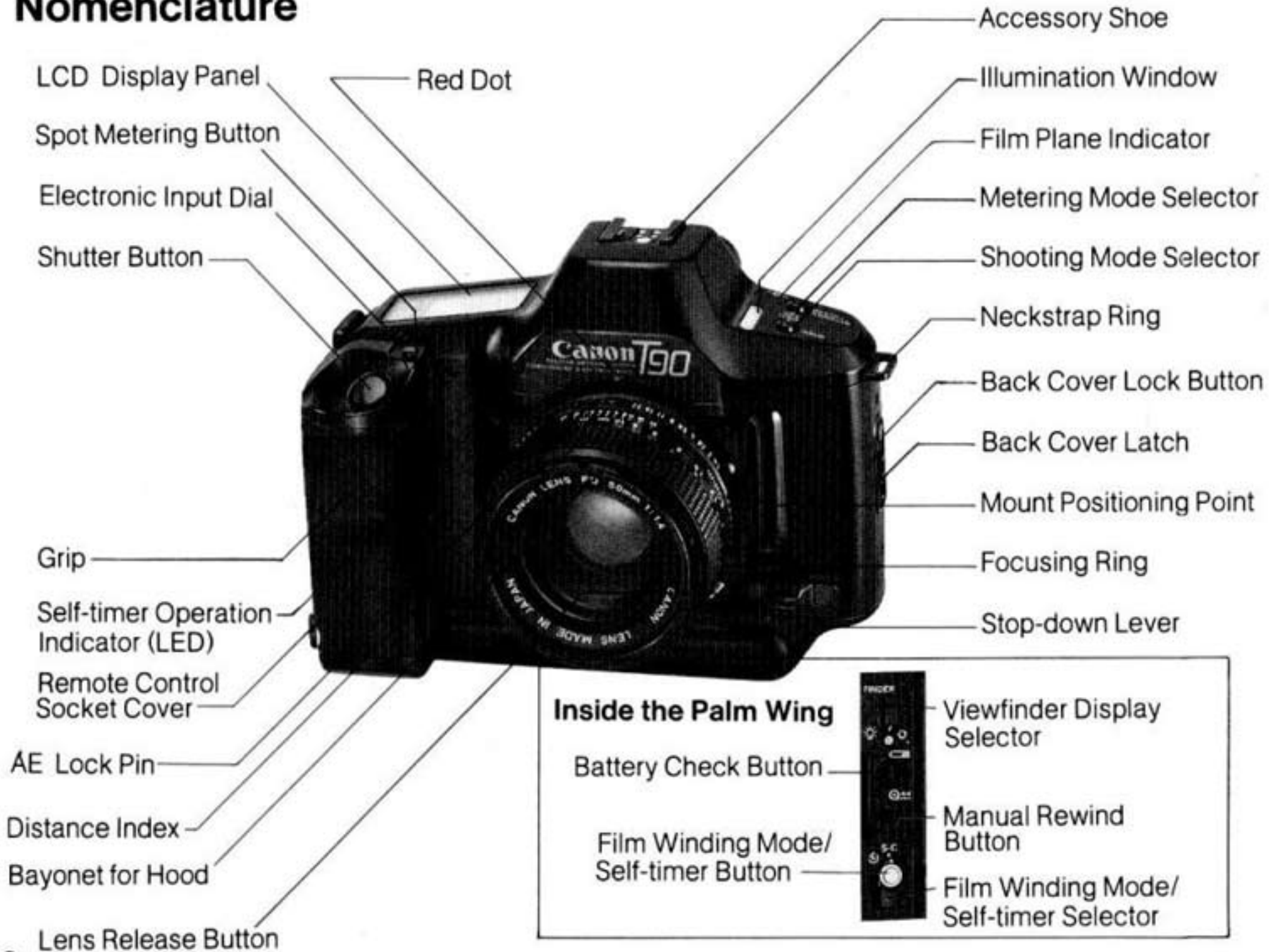
Your shooting options are further expanded by optional accessories like the Speedlite 300TL, the Macro Ring Lite ML-2, the Data Memory Back 90 and the Command Back 90.

For a full understanding of the T90, please read this instruction booklet carefully before using the camera.



While reading these instructions unfold the front and back flaps of this booklet for easy reference to the camera's parts.

Nomenclature



Contents

| | | | |
|---|----|---|----|
| Preliminary Preparations | 6 | 2 Aperture-priority AE | 23 |
| 1. Attaching the Lens | 7 | 3 Standard program AE | 24 |
| 2. Setting the Lens for AE Photography | 9 | 4 Variable-shift program AE | 25 |
| 3. Loading the Batteries | 10 | <Setting Each Mode > | 27 |
| 4. Turning on the Camera | 11 | 3. Setting the Metering Mode | 33 |
| 5. Checking the Batteries | 12 | <Metering Modes of the T90 > | 33 |
| 6. Loading the Film | 15 | 1 Center-weighted average | |
| <Automatic Setting of the Film | | metering | 33 |
| Speed > | 18 | 2 Partial metering | 34 |
| Shooting with the Lens Set on "A" | | 3 Spot metering | 34 |
| Mark (Basic Operation) | 19 | <Setting Each Mode > | 35 |
| 1. Setting the Film Winding Mode | 20 | 4. How to Use the Metering Modes | 36 |
| 1 Single frame shooting | 20 | 5. Focusing | 38 |
| 2 Continuous shooting | 20 | 6. Shooting | 40 |
| <Automatic Film Winding Speed | | <Exposure Preview Button > | 42 |
| Changeover Function > | 21 | <Remaining Frame Counter > | 42 |
| 2. Setting the Shooting Mode | 22 | <Viewfinder Display Selector > | 44 |
| <Shooting Modes of the T90 > | 22 | 7. Automatic Film Rewind | 45 |
| 1 Shutter-priority AE | 22 | <Manual Film Rewind > | 47 |

| | |
|--|-----|
| Shooting with the Lens Set on “A” Mark (Intermediate Operation) | 48 |
| 1. Spot Metering..... | 49 |
| 1. One-point spot metering..... | 49 |
| <Exposure Level Difference Comparison >..... | 50 |
| 2. Multi-spot metering..... | 51 |
| 3. H/S Control..... | 53 |
| <Highlight control >..... | 54 |
| <Shadow control >..... | 55 |
| Shooting with the Lens off “A” Mark | 57 |
| 1. Manual Override..... | 58 |
| 2. Stopped-down AE..... | 59 |
| <Checking Depth-of-Field >..... | 60 |
| <Error Display >..... | 61 |
| 3. Stopped-down (Fixed Index) Metering.. | 62 |
| <Manual Diaphragm Control >..... | 63 |
| <Film Plane Indicator >..... | 64 |
| 4. Bulb..... | 64 |
| Other Shooting/ Exposure Compensation | 66 |
| 1. Self-timer Photography..... | 66 |
| 2. Exposure Compensation..... | 68 |
| <Exposure Compensation Index > ... | 68 |
| 3. Multiple Exposures..... | 70 |
| <Clearing the Preset Exposures >.... | 71 |
| <Changing the Preset Exposures >... | 72 |
| <Exposure Compensation in Multiple Exposures >..... | 72 |
| 4. Shooting with Infrared Film..... | 73 |
| 5. Flash Photography..... | 74 |
| <Canon Speedlite 300TL >..... | 74 |
| <Other Canon Speedlites >..... | 77 |
| <Other Makers' Flashes >..... | 77 |
| Accessories | 78 |
| Caring for Your Camera | 86 |
| Other Notes | 87 |
| Exposure Warning Displays | 90 |
| Display Panel | 94 |
| Viewfinder Information | 95 |
| Specifications | 96 |
| Index | 99 |
| Carrying the Camera | 103 |

Preliminary Preparations

1. Attaching the Lens



- 1) Turn the rear lens cap in the direction of the arrow until it stops, and pull it off the lens.
 - To attach the rear lens cap, align its arrow with the red dot on the lens. Then lightly push it in and turn it clockwise until it stops.



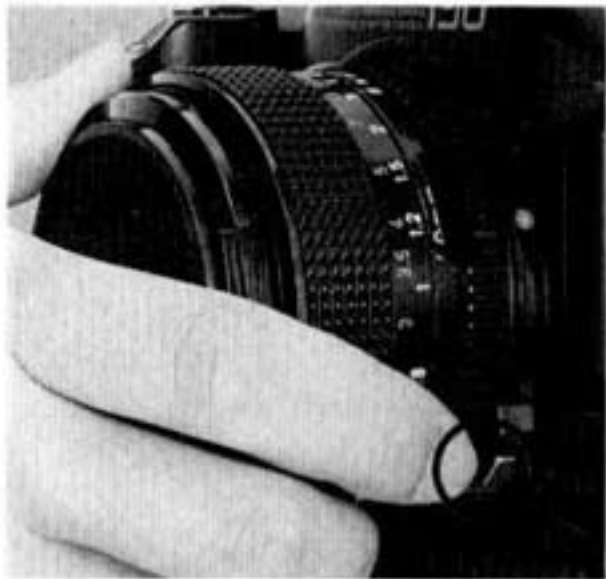
- 2) Turn the body cap counter-clockwise and pull it off.
 - To attach the body cap, first align its red positioning point with the red dot above the camera mount, then turn the cap clockwise.



- 3) To mount the lens, first align the lens' mount positioning point with the camera's red dot.



Do not mount the lens if the red dot inside the camera mount is showing; correct exposure is impossible if you do. In this case, push in the stop-down lever so that it locks in the normal position and this warning mark can no longer be seen.



- 4) Then turn the lens clockwise until it stops and the lens release button pops out with a click.
- To remove the lens, turn it counterclockwise while pressing the lens release button.



- 5) Remove the front lens cap.



Be sure to place the lens with its front end down to avoid damaging the protruding pins.

Lenses which cannot be mounted on the T90:

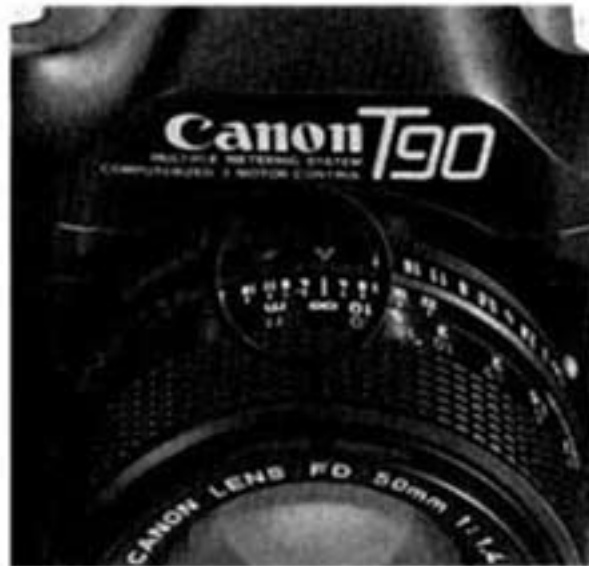
- FL 19 mm f/3.5
- FL 58 mm f/1.2

Lenses which cannot be used with the T90's meter for mechanical reasons:

- FL 19 mm f/3.5 Retro-focus
- FL 35 mm f/2.5

FL 50 mm f/1.8-I
FL 58 mm f/1.2-II
(Use of an independent exposure meter is recommended.)

2. Setting the Lens for AE Photography

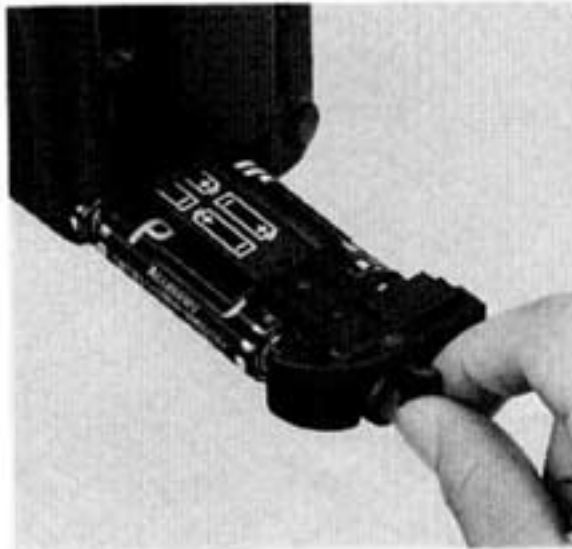


While pressing in the AE lock pin, turn the aperture ring in the direction of the arrow until the "A" mark click-stops at the distance index.

3. Loading the Batteries



1) As shown in photo, pull the battery magazine latch out first and then turn it in the direction of the arrow (OPEN). Pull the battery magazine out of the camera.



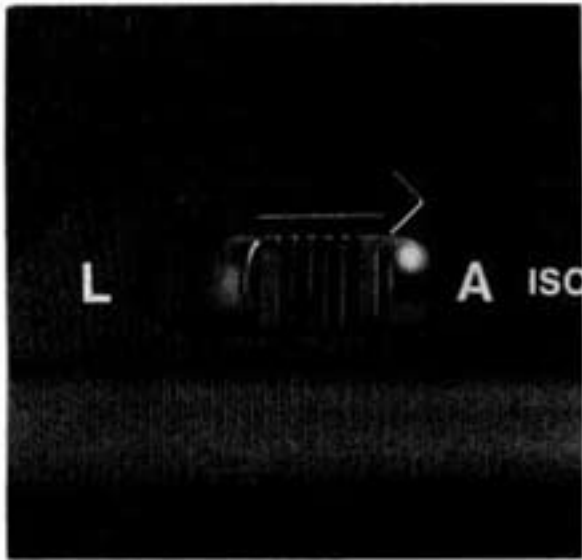
2) Load four new size-AA alkaline-manganese batteries (LR6) so that their terminals face in the directions indicated on the battery magazine. The camera will not function if the batteries are loaded incorrectly.



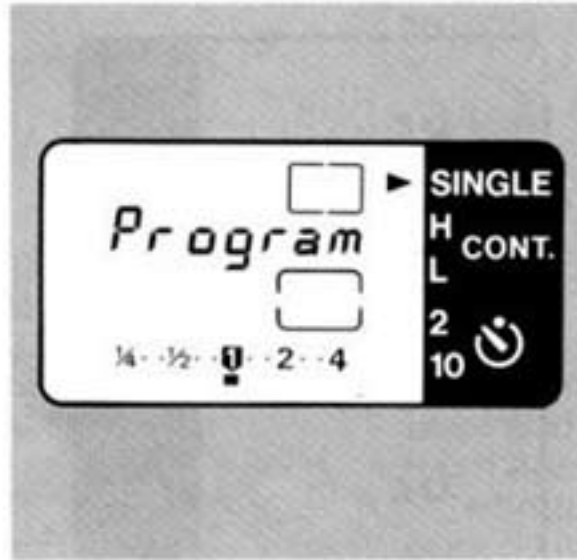
3) Insert the loaded battery magazine back in the camera. While pressing the latch firmly, turn it in the reverse direction to lock it.

When you replace the batteries with the camera mounted on a tripod, loosen the tripod screw slightly before replacing the batteries.

4. Turning on the Camera




Slide the main switch to "A". The display will come on at this time. If the display does not appear, confirm that the batteries are loaded correctly.

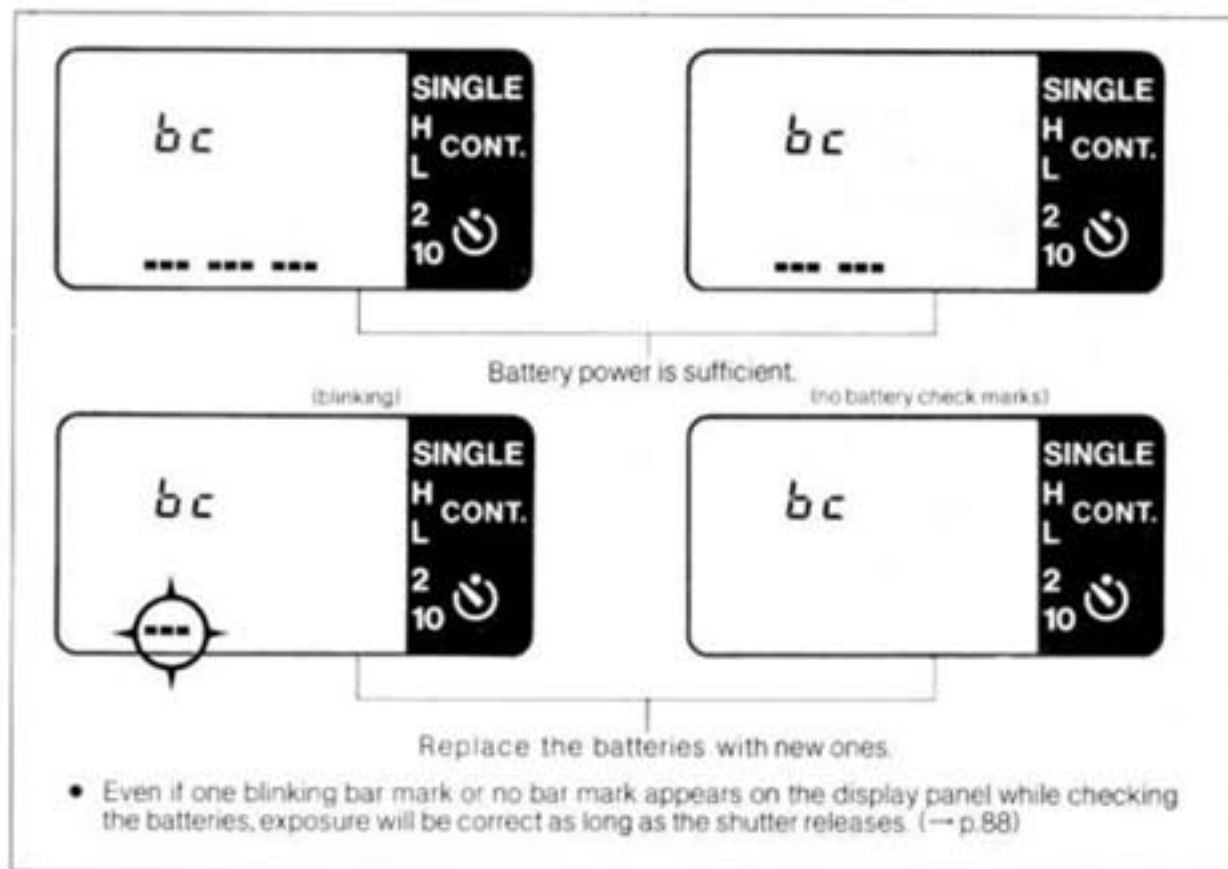


(example)

5. Checking the Batteries



Open the palm wing on the side of the camera and press the battery check button (). Battery voltage is then shown on the display panel.



< Batteries >

This camera will not operate without batteries. Try to make a habit of checking the batteries at the following times.

- After loading new batteries.
- After storing the camera for a long time.
- If the shutter does not release.
- When you are using the camera in low temperatures.
- Before shooting important events.

Use a new set of batteries as specified below or equivalent batteries of another brand.

1. Four AA size 1.5 V alkaline batteries LR6 (AM-3)
2. Four AA size 1.5 V carbon-zinc batteries R6 (SUM-3)
3. Four AA size 1.2 V Ni-Cd batteries

Notes

- Always use four new batteries of the same brand and replace them at the same time.
- Wipe the battery terminals and the camera contacts with a clean, dry cloth before loading, to ensure proper contact.
- Remove the batteries if you do not expect to use the camera for about three weeks or longer.
- When shooting in temperatures below 0°C (32°F), keep your camera and spare batteries close to your body or in a pocket to keep them warm until you are ready to take a picture. You can also use a set of Ni-Cd batteries which function well in low temperatures. — approx. 15 rolls in the HIGH mode and 45 rolls in the LOW mode at -20°C (-4°F) with 24-exp. film. (→ p.34)


- When using Ni-Cd batteries, please note that different brands have different types of terminals. Be sure to use a type which is suitable for the camera.
- Refer to the manufacturer's instructions for recharging Ni-Cd batteries.
- Three bars (—) may not appear on the display panel during the battery check, even if using fully charged Ni-Cd batteries, because of their low nominal voltage.
- The battery naturally discharges even when not in use, so try to check the batteries regularly.

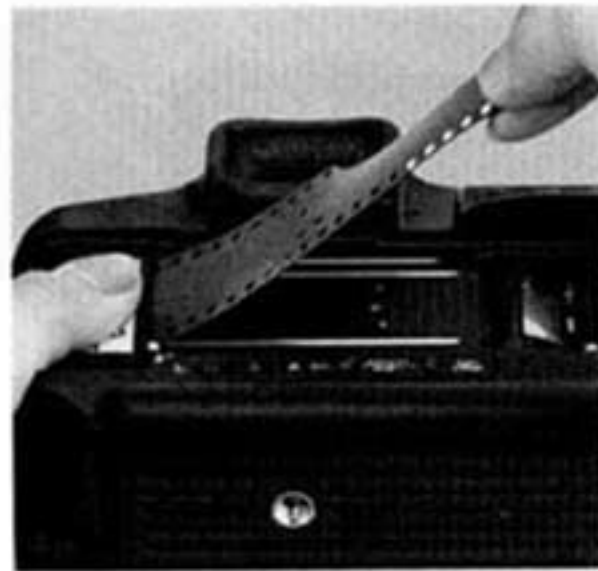
6. Loading the Film



1) To open the back cover, push the back cover latch down, while pressing the back cover lock button.



2) Insert the upper flat end of the film cartridge into the film chamber first, then lower the other end. The film-load check mark () will then appear on the display to indicate that film is loaded.



3) Pull the film leader across the back of the camera until its tip is aligned with the orange index.



CAUTION

- Before loading the first film cartridge, remove the plastic insert and throw it away.
- NEVER touch the shutter curtain. It is sensitive to pressure due to its high precision design.
- Be careful that the film leader does not touch the shutter curtain, either.



4) Make sure that the film has no slack and that its perforations are properly engaged with the sprocket teeth.

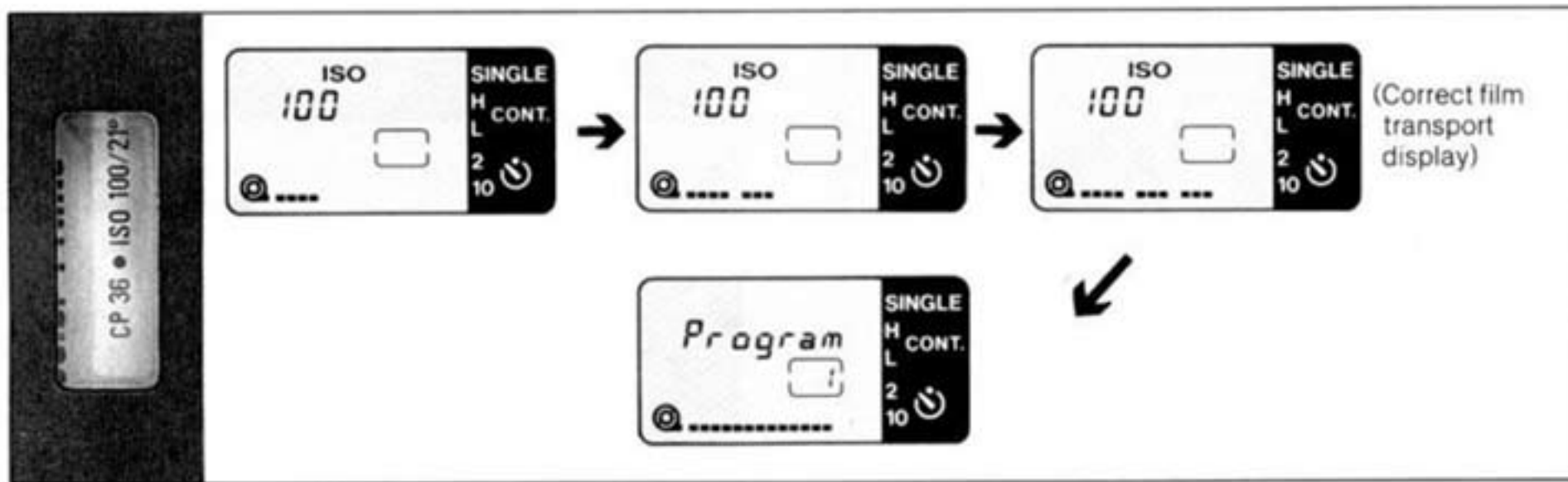


5) Close the back cover. The camera will advance the film automatically and stop when "1" appears in the frame counter brackets on the display panel.

If the film leader extends past the orange index, take out the film cartridge and manually wind the excess film back into the cartridge.



When the humidity is high, film becomes soft and is easily torn. Keep the film stored in its canister until just before you load it to keep it from tearing.



- You can confirm film loading through the film load check window.

- While the camera is advancing the film, the film transport bars (also serve as the battery check marks) will appear at the bottom of the display panel moving in sequence from left to right. If the film has not been correctly advanced, however, the bars blink after the camera has stopped. In that case, reload the film.

