

Ricoh KR-30sp

On-line instruction manual

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RICOH

KR-30^{SP}

PROGRAM



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

1. Attaching the finder cap and strap

2. Mount the lens

3. Set lens at "P"

4. Insert batteries

5. Check battery condition

6. Insert film

7. Set the film speed

8. Indications in viewfinder (very enlarged for detail)

9. Hold you camera properly

10. Program AE photography

11. Speed program AE photography (fast action shutter will not go below 1/250)

17. Self-timer photography (get in the photo or slow shutter speed firing)

18. Programmed flash photography

19. With Ricoh flash other than 300p or smaller programmed unit

20. With non-dedicated flash

21. Exposure compensation (temporarily adjust ASA to higher or lower speed)

22. AE lock (temporarily lock Auto Exposure setting for special lighting)

23. Depth of field

24. Bulb setting

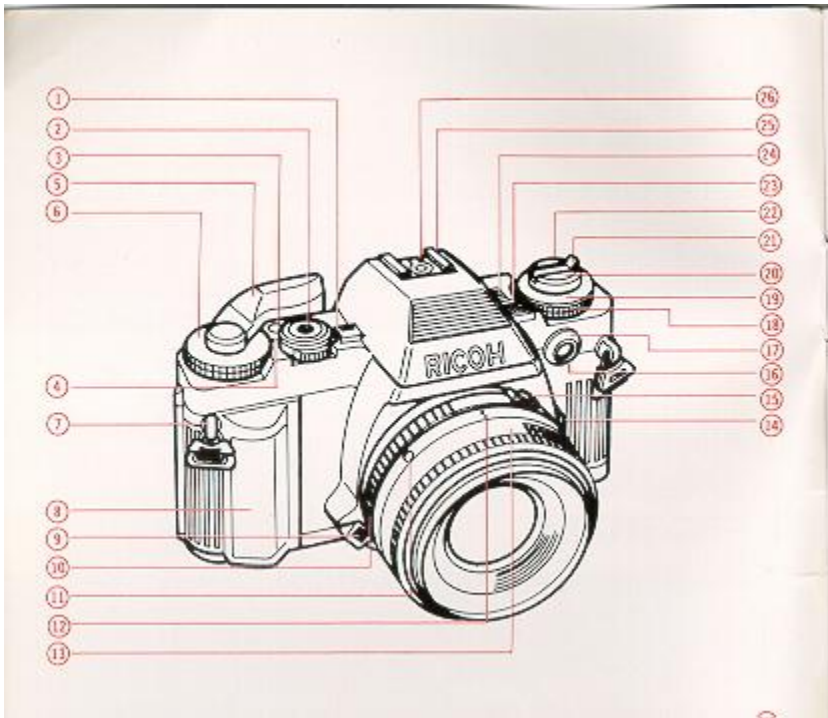
25. Viewfinder lighting

26. Power on-off switch

12. Shutter bias program AE photography (shutter speed will vary) 13. Aperture-priority AE photography (aperture will vary) 14. Manual photography (both shutter and aperture need adjustments) 15. Focusing 16. Rewind the film	27. Memo holder 28. Infrared mark 29. Accessories 30. Care of batteries 31. Storage of camera 32. Specifications
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NOMENCLATURE

1. Power ON-OFF Switch 2. Shutter Release Button 3. Exposure Counter 4. Shutter Speed index Line 5. Film Advance Lever 7. Shutter Speed Dial/Program Selector 7. Strap Eyelet 8. Removable Hand Grip 9. Lens Release Button 10. F-Stop Ring 11. Lens Locator Mounting Nod' 12. Depth of Field Scale 13. Focusing Ring	14. AE Lock/illuminator Button 15. P Lock Button 16. Self Timer Button 17. Self Timer Monitor 18. Film Speed Dial 19. Exposure Compensation Dial 20. Film Rewind Knob/Back Cover Lock Release 21. Film Rewind Crank 22. Film Speed Index Line 23. Exposure Compensation Line 24. Illuminating Window 25. Hot Shoe 26. Flash Control Contact
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27. Data Back Contacts

28. Viewfinder Eyepiece

29. Film Rewind Shaft

30. Film Chamber

31. Battery Compartment Cover

32. Motor Drive Contacts

33. Tripod Socket

34. Winder Contact

35. Film Rewind Release Button

36. Hand Grip Release Button

37. Winder/Motor Drive Coupler

38. Winder Positioning Hole

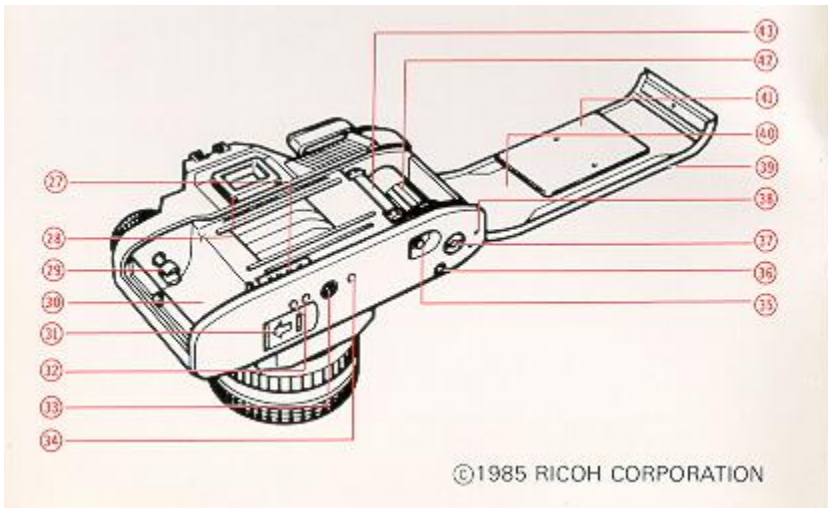
39. Memo Holder/Program Curve Display

40. Back Cover

41. Film Pressure Plate

42. Film Take-up Spool

43. Sprocket



ATTACHING THE VIEWFINDER CAP AND STRAP

1. Slip the Viewfinder Cap on to the strap. (Fig. 1)
2. Run the strap through the strap lug until the strap protrudes about 3 cm from the lug. Then adjust the strap length as desired. (Fig. 2)

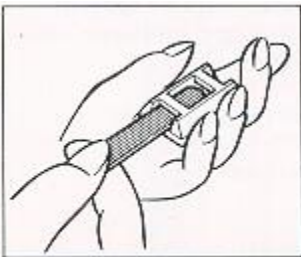


Fig. 1

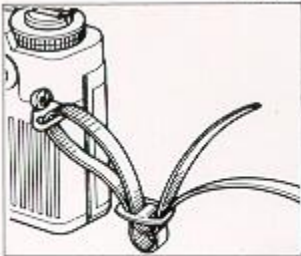
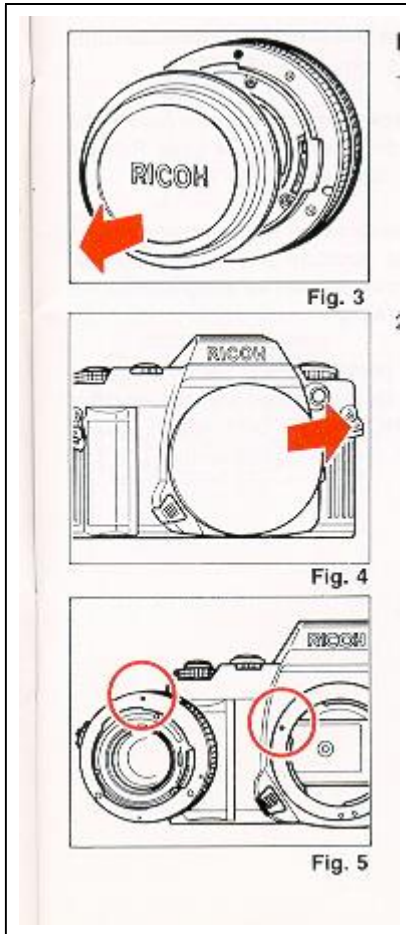
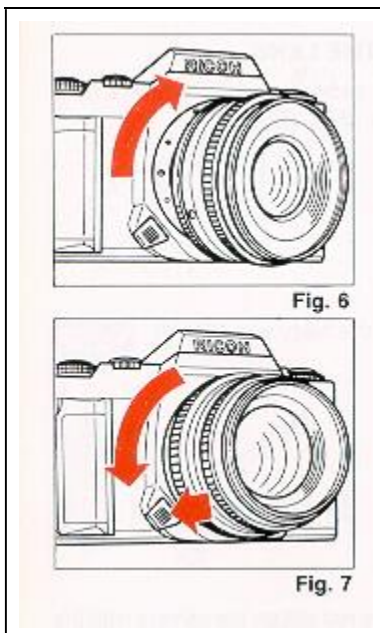


Fig. 2

MOUNT THE LENS



1. Pull the back lens cap to remove it from the lens. (Fig. 3)
2. Pull off the body cap (Fig. 4)
3. Align the red dot on the camera with the red dot on the lens and mount the lens on the camera. (Fig. 5)



4. Turn the lens in the arrow direction until it clicks into place. (Fig. 8)

* To remove the lens, turn the lens in the arrow direction with the Lens Release Button depressed. (Fig. 7)

* The conventional K mount lens can be used as aperture-priority and manual but cannot be used for programmed AE photography.

* Proper performance of camera may not always be guaranteed with lenses other than RICOH. For best results, use a RICOH original equipment lens.

SET LENS AT "P" POSITION

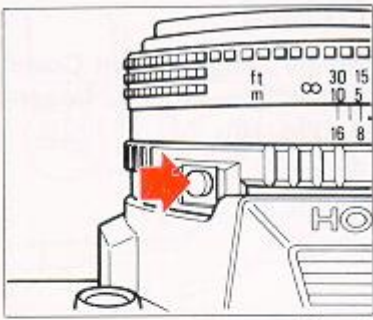


Fig. 8

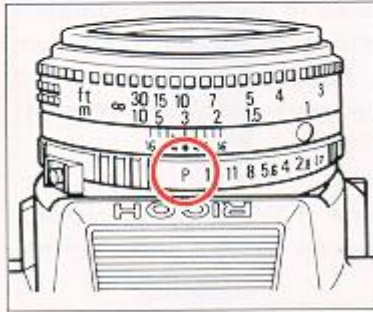


Fig. 9

1. Turn the F-Stop Ring while P Lock Button is pressed. (Fig. 8)
2. Set it to the locking "P" position as shown for programmed automatic exposure photography. (Fig. 9)

* To unlock "P", turn the F-Stop ring while P Lock Button is depressed.

INSERT BATTERIES

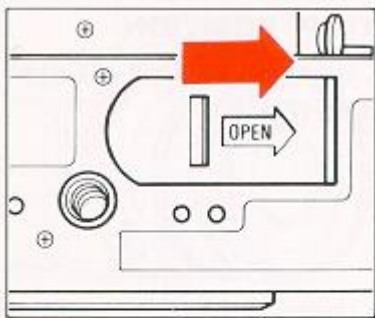


Fig. 10



Fig. 11

(Webmaster - Note the bumps on the batteries. They are the negative contacts. The image shows the CR-1/3N type. If you purchase the 4 smaller batteries each side will have two batteries. The bottom left will have both batteries with their bumps up, on the right side the two batteries will have their bumps facing down. Note though, where the tripod screw is on the image. Use a pen eraser and clean the door contacts and bottom battery contacts of any dirt, carefully with a turning motion if needed.)

1. Slide the Battery Compartment Cover in the arrow direction with your fingernail to open. (Fig. 10)
2. Place batteries in the battery compartment according to (+) and (-) shown inside the battery compartment and close the compartment cover. (Fig. 11)

Batteries for use

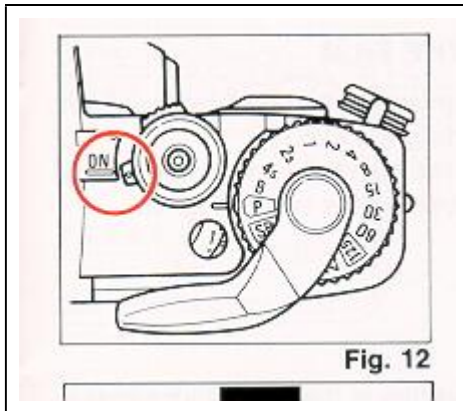
Four alkaline 1.5V batteries (LR44): Lasting about six months under normal use.

Four silver oxide 1.55V batteries (SR44): Lasting about one year under normal use.

Two lithium 3V batteries (CR-1/3N): Lasting about one year under normal use.

* Also refer to "CARE OF BATTERIES."

CHECK CONDITION OF BATTERIES



1. Turn the Power ON-OFF Switch ON. (Fig. 12)
2. Batteries are in good condition, when a liquid crystal display such as a Shutter Speed Indicator appears in the finder. (Fig. 13)



* The BAT (battery low warning) blinks in the finder to warn against their failure when capacity of batteries drops below proper operating level.
Change batteries as soon as possible. (Fig. 14)

INSERT THE FILM



Fig. 15

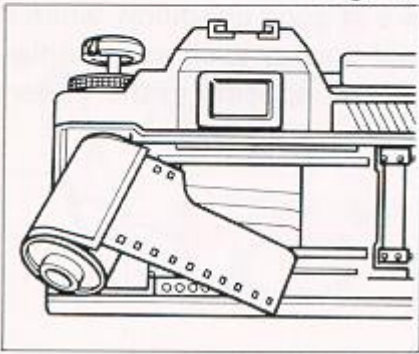


Fig. 16

(Do not expose the film to direct sunlight when inserting the film.)

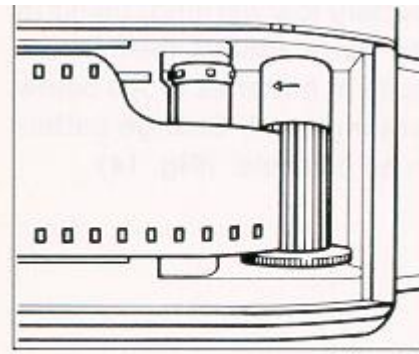


Fig. 17

1. Pull up the Film Rewind Knob until the Back Cover snaps open. (Fig. 15)
2. Insert the film in the Film Chamber and push the Film Rewind Knob down to the original position. You may have to rotate the knob slightly to push it down completely. (Fig. 16)
3. Insert the film leader in the slit on the Film Take-up Spool. (Fig. 17)
4. Advance the Film Advance Lever to wind the film round the Film Take-up Spool. Check that the sprocket holes on the film are fully engaged on the Sprocket Teeth. (Fig. 18)

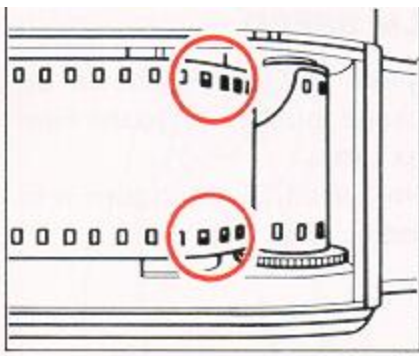


Fig. 18

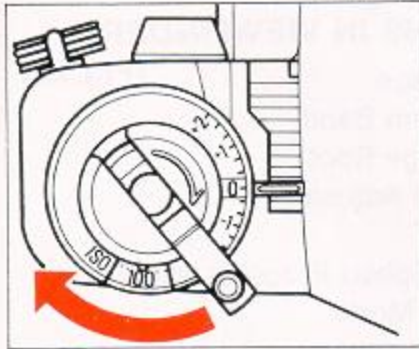


Fig. 19

5. Close the Back Cover, unfold the Film Rewind Crank and turn it gently in the arrow direction until any slack is taken up.
(Fig. 19)

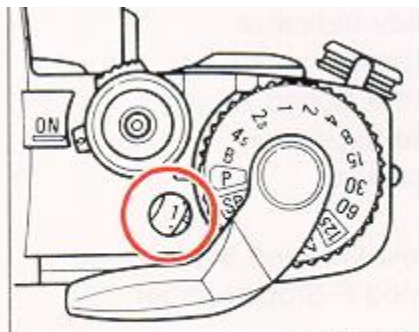


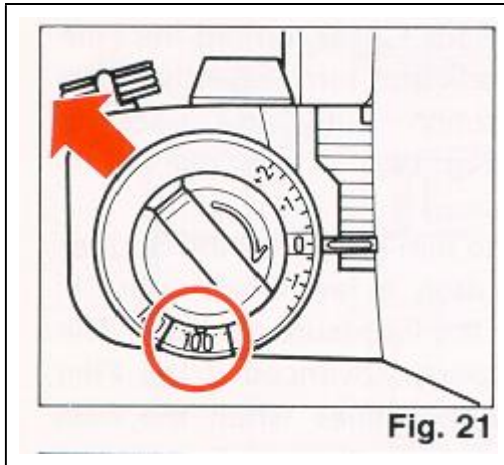
Fig. 20

6. Advance the film and press the Shutter Release Button a few times until "1" appears in the Exposure Counter. The film is properly advanced if the Film Rewind Knob rotates when the Film Advance Lever is stroked to advance the film.
(Fig. 20)

* When inserting the film in a cold place, the film leader may be hard and become brittle. Warm the film leader with your hand in such conditions.

* When inserting the film, it is more convenient to set the Shutter Speed Dial to a high speed rather than "P" (Program) while advancing the film to the number 1 position, to avoid a slow shutter speed (the slowest is 16 seconds) When you are ready for shooting, be sure to set the Shutter Speed Dial back to "P" (Program).

SET THE FILM SPEED



1. The film speed (ISO/ASA) shown on the film package must be set to the Film Speed Index Line.
2. Pull the Film Speed Dial and turn it to set to the index. (Fig. 21)

INDICATIONS IN

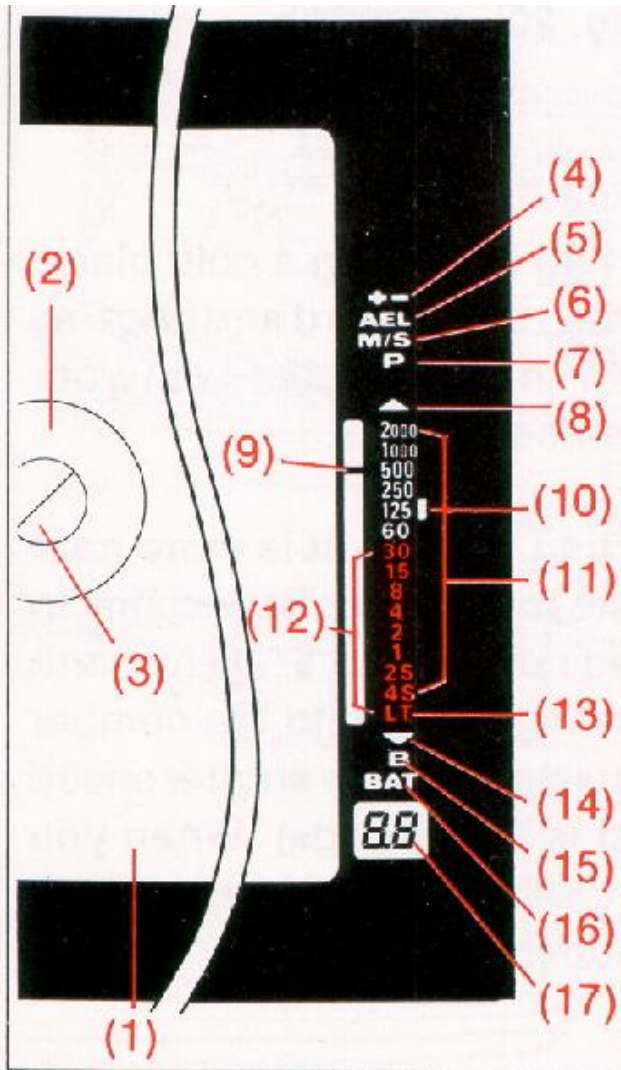


Fig. 22

VIEWFINDER

- (1) Mat Surface
- (2) Microprism Band
- (3) Split-image Spot
- (4) Exposure Adjustment
- (5) AE Lock
- (6) Manual/Speed Program Mode
- (7) Program Mode
- (8) Overexposure
- (9) Shutter Speed Indicator
- (10) Flash Ready Indicator
- (11) Shutter Speeds
- (12) Slow Shutter Speed Range
- (13) Long Time Exposure
- (14) Underexposure
- (15) Bulb
- (16) Battery Low Warning Signal
- (17) Programmed F-Stop Number

HOW TO HOLD YOUR CAMERA



Fig. 23

(Good position for photography)

- (1) Lightly put your right-hand forefinger on the Shutter Release Button and hold the camera body with other fingers.
- (2) Make your right arm comfortable.
- (3) Cradle your camera in your left hand and hold it so that the Focusing Ring can be easily turned with fingers.
- (4) Brace your left elbow to your body and put the camera to your face. Look through the viewfinder to compose your picture. (Fig. 23)

* It is important to practice correct shooting position to avoid blurred or tilted pictures.

PROGRAM AE PHOTOGRAPHY

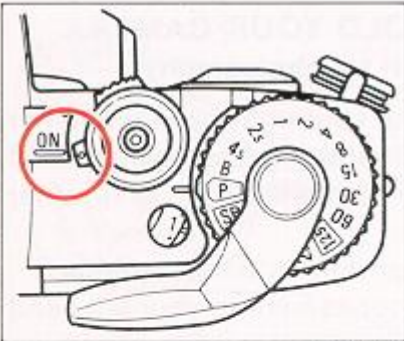


Fig. 24

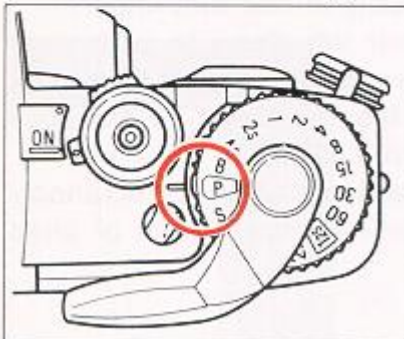


Fig. 25

In program AE photography, the camera automatically selects the f-stop number and the shutter speed according to subject illumination. Programs are best for general photos of figures or scenery. Special effects shooting etc., can be done using the KR-30SP's multitude of override options.

Please keep in mind however that for most shooting you can just focus and snap.

1. Turn the Power ON-OFF Switch ON. (Fig. 24)
2. Set the Shutter Speed Dial to "P". (Fig. 25)
3. Set the lens to "P". (Fig. 26)

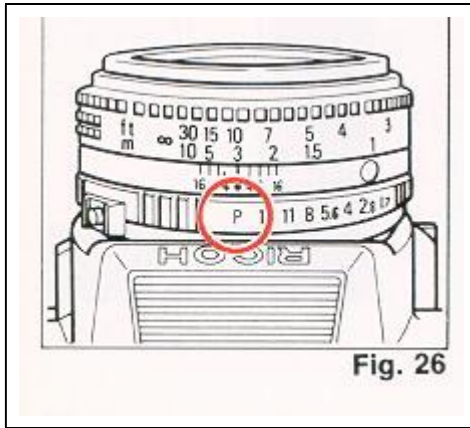


Fig. 26

4. Look through the viewfinder and turn the Focusing Ring to focus. You can focus either by using the Split Image or Microprism.

SPEED PROGRAM (SP) AE PHOTOGRAPHY

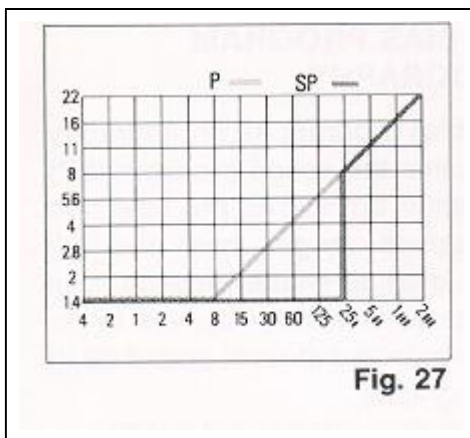
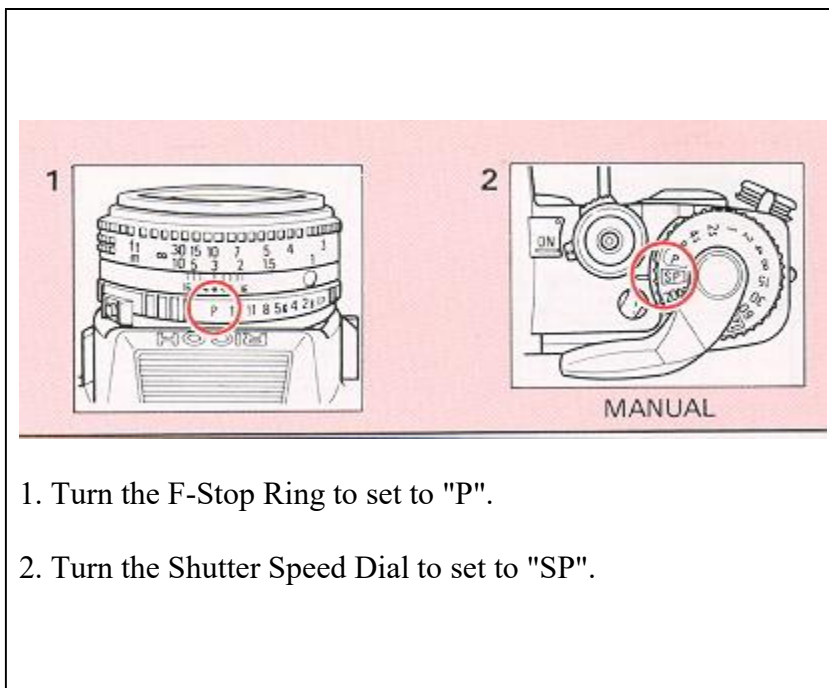


Fig. 27

The speed program AE photography is a combination of the program AE photography and shutter speed priority AE photography. Use this mode to avoid shutter speeds slower than 1/250 second. (Fig. 27)

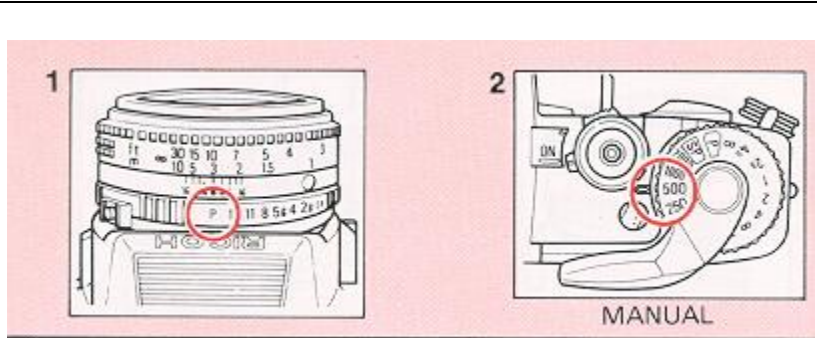


1. Turn the F-Stop Ring to set to "P".
2. Turn the Shutter Speed Dial to set to "SP".

When the subject is bright enough, any shutter speed between 1/250 and 1/2000 sec. will be selected according to the brightness of the subject, and you can see the selected shutter speed as well as f-stop number in the viewfinder.

If the brightness of the subject is not enough even at full-open aperture, a slower shutter speed is automatically selected to obtain correct exposure. In this case, the Shutter Speed Indicator blinks to warn that a slower shutter speed than 1/250 is selected.

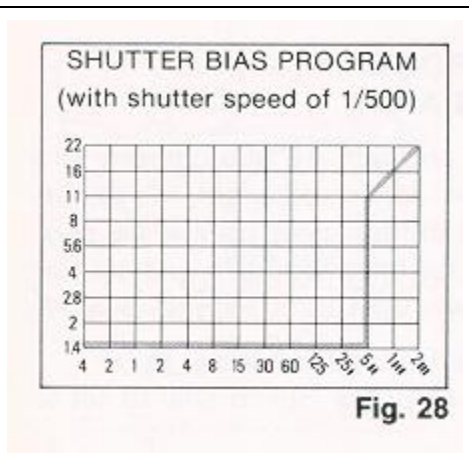
SHUTTER BIAS PROGRAM AE PHOTOGRAPHY



1. Turn the F-Stop Ring to set to "P".
2. Turn the Shutter Speed Dial to set the desired shutter speed.

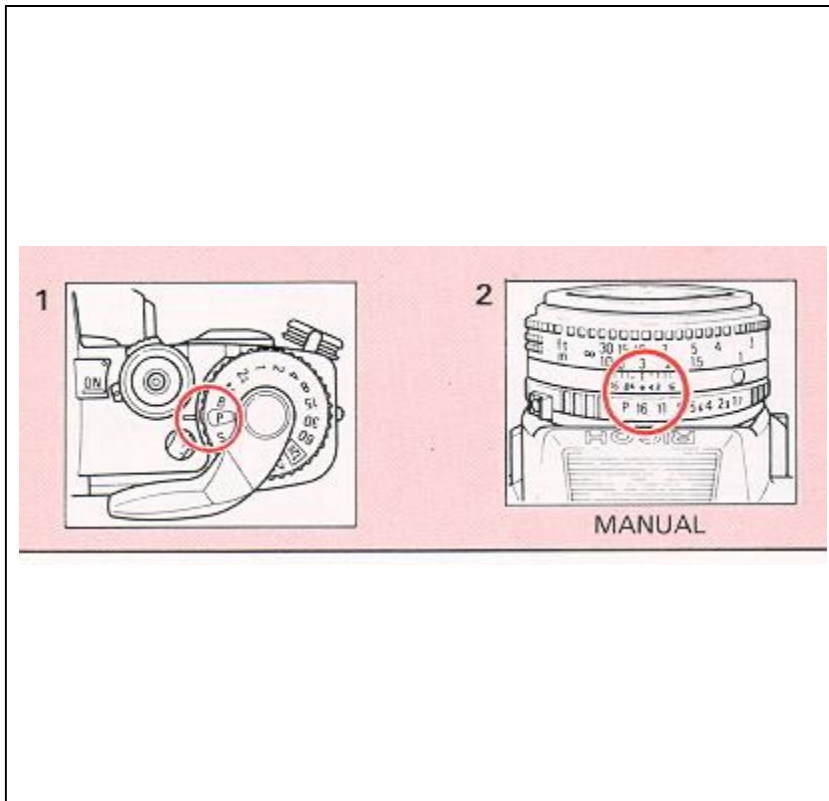
The shutter bias program AE photography works much like the speed program (SP) AE photography but allows pre-selection of shutter speed ranges over the full spectrum of manual shutter speeds. Use this mode to avoid shutter speeds lower than the pre-selected shutter speed as in some sports photography.

* For example, set the Shutter Speed Dial at 500 to avoid any shutter speed slower than 1/500 second.



When the subject is bright enough, any shutter speed between 1/500 and 1/2000 sec. will be selected according to the brightness of the subject, and you can see the selected shutter speed as well as f-stop number in the viewfinder. If the brightness of the subject is not enough even at full-open aperture, a slower shutter speed is automatically selected to obtain correct exposure. In this case, the Shutter Speed Indicator blinks to warn that a slower shutter speed than 1/500 is selected. (Fig. 28)

APERTURE-PRIORITY AE PHOTOGRAPHY



In aperture-priority AE photography, the camera automatically sets correct shutter speeds according to a pre-selected f-stop number and brightness of subjects. This is suitable for photography taking advantage of specific depth-of-field results as in portraits or scenery pictures.

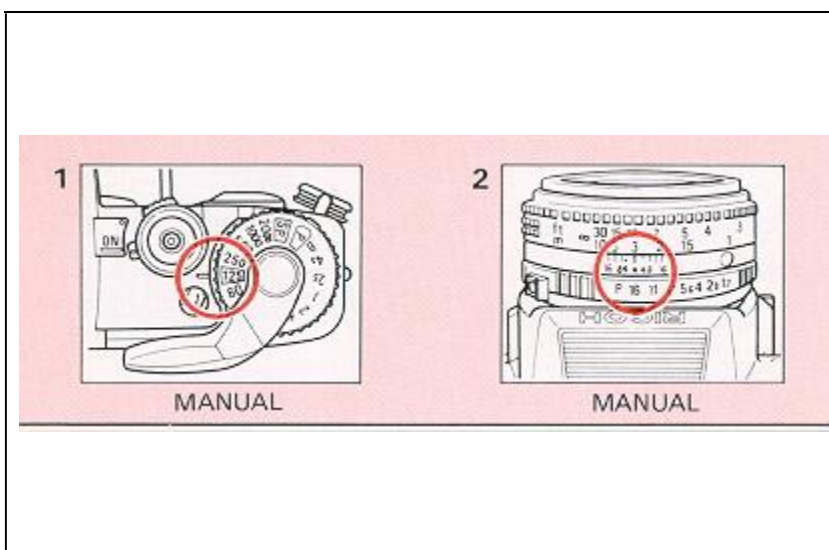
1. Set the Shutter Speed Dial to "P".

2. Turn the F-Stop Ring to set the desired f-stop number.

When the Shutter Speed Indicator is in the orange range, the shutter speed is too slow. Select a new f-stop number or mount the camera on a tripod or other suitable platform.

* When overexposure mark (a) or underexposure mark (at) appears in the viewfinder, exposure is not correct. Turn the F-Stop Ring to change the f-stop number.

MANUAL PHOTOGRAPHY

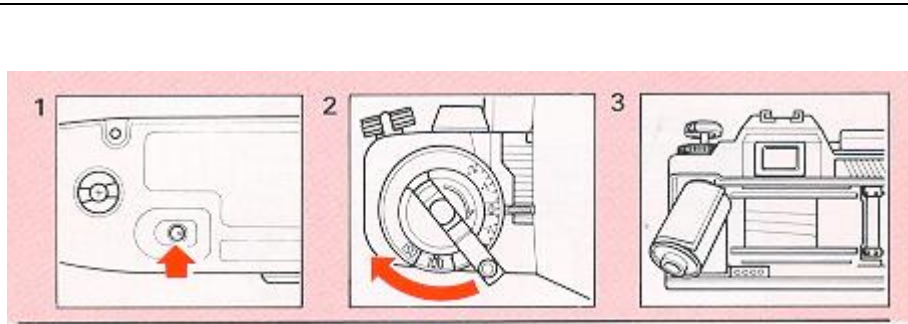


Select manual mode to manually set the shutter and the f-stop number in unusual or creative picture taking situations.

1. Set the Shutter Speed Dial to the desired speed.

2. The pre-set shutter speed is shown by the Indicator on the LCD meter display. A second Indicator blinks to indicate a "suggested" speed at a given f-stop. (Fig. 29)

REWIND THE FILM



(Do not expose the film to direct sunlight when unloading the film.)

1. Push the Film Rewind Release Button. The button stays locked in position (Fig. 31)

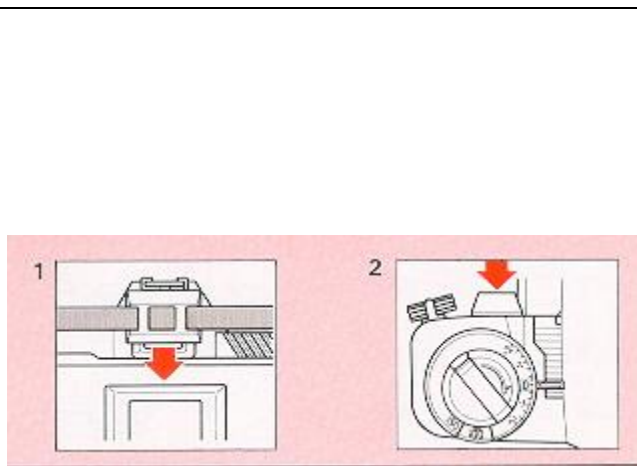
2. Unfold the Film Rewind Crank and turn it in the arrow direction. When the film has been completely rewound, the tension of the Film Rewind Crank is suddenly released and turns freely. (Fig. 32)

3. Open the Back Cover and unload the film. (Fig. 33)

* Never open the Back Cover until film rewinding is completed. Immediately close the Back Cover to save some of your shots if the Back Cover is opened by mistake during or before rewinding.

* If you wind the film beyond the set number of frames, the Film Advance Lever may get stuck mid-stroke. The Film Rewind Release Button will not stay depressed in. If this occurs, rewind the film while holding the Film Rewind Release Button pressed down.

SELF-TIMER PHOTOGRAPHY



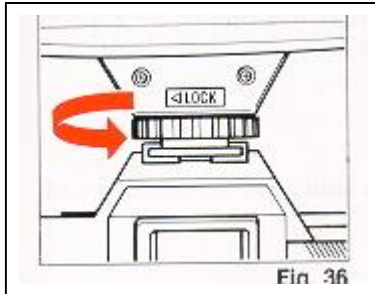
The Self-Timer is used to include yourself in party pictures or commemorative shots. 1. Advance the film. 2. Press the Self-Timer Button. The Self Timer Indicator Lamp blinks. In 10 seconds, the shutter is automatically released. (Fig. 34)

* To cancel the Self-Timer after it is set, press the Self-Timer Button again.

* Use the Viewfinder Cap attached to the strap to cover the Viewfinder Eyepiece when using the Self-Timer in modes other than "Manual" to avoid incorrect exposure due to incident-light from the Viewfinder Eyepiece. (Fig. 35)

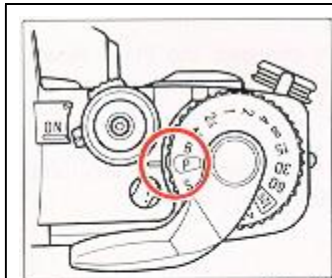
* B (Bulb) setting is not available when the Self-Timer is used.

FLASH PHOTOGRAPHY (PROGRAMMED FLASH PHOTOGRAPHY)



If the RICOH SPEEDLITE 300P or 240 is used on the RICOH KR-30SP camera, the shutter speed and the f-stop number are automatically set with the camera is set to program AE photography.

1. Slide the flash unit into the Hot Shoe and tighten it with the lock screw. (Fig. 36)



2. Set the Shutter Speed Dial to "P" or "SP". (Fig. 37)



3. Set the F-Stop Ring to "P". (Fig. 38)

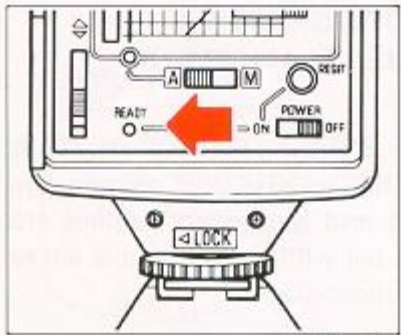


Fig. 39

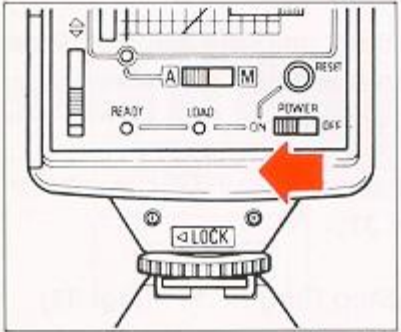


Fig. 40

4. Set the flash A/M selector to "A". (Fig. 39)

5. Turn the flash power On-Off switch ON. (Fig. 40)

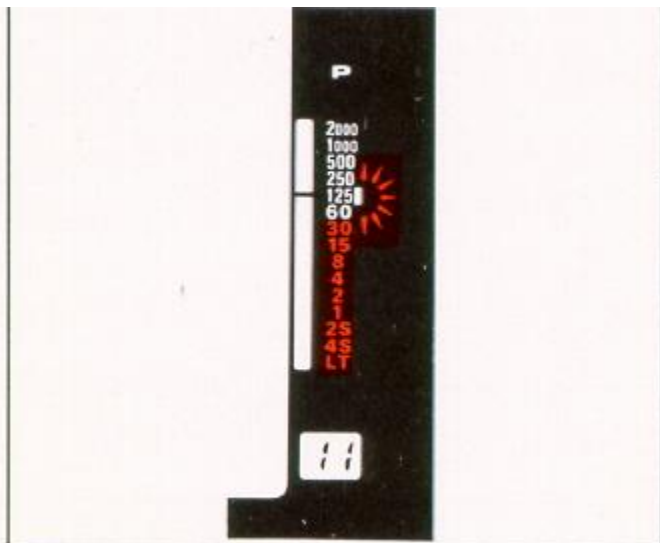


Fig. 41

6. When fully charged, the Flash Ready Indicator (red LED) lights in the finder. (Fig. 41)

Focus the subject and press the Shutter Release Button for shooting.

* Refer to Operating Instructions for the flash unit for more creative techniques and technical details.

FLASH PHOTOGRAPHY WITH RICOH FLASH UNIT OTHER THAN 300P & 240

Those two flashes have an extra pin to communicate with the camera's exposure system.

1. RICOH flash units (SPEEDLITE 400 and 180) can be used with KR-30SP with the Shutter Speed Dial set to "P" or "SP" and with the F-Stop Ring set to the designated number. When the flash is fully charged, the Flash Ready Indicator in the viewfinder will light up.

* Shutter speed is automatically set to 1/125 sec.

* You may set shutter speed and f-stop number manually but shutter speed must be slower than 1/125 sec., however, when you select shutter speed faster than 1/125 sec., the shutter speed is automatically set to 1/125 sec.

* Refer to Operating Instructions for flash units for further details.

FLASH PHOTOGRAPHY WITH "NON-DEDICATED" FLASH UNITS

(General use of flash)

1. Set the Shutter Speed Dial to 1/125 sec. when a generic flash unit is used.

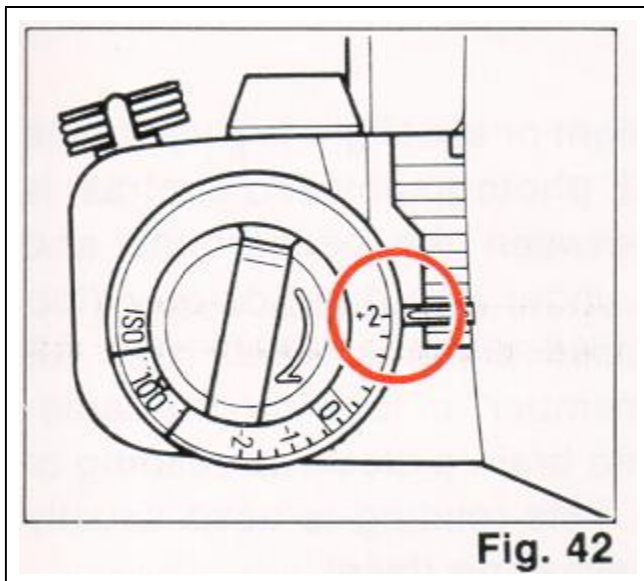
Note: Such units cannot be used in P mode.

* Avoid use of flash units other than RICOH with special contact pins, incorrect exposure or other problems may result.

* The Flash Ready Lamp does not light in the viewfinder if such a "non-dedicated" flash is used.

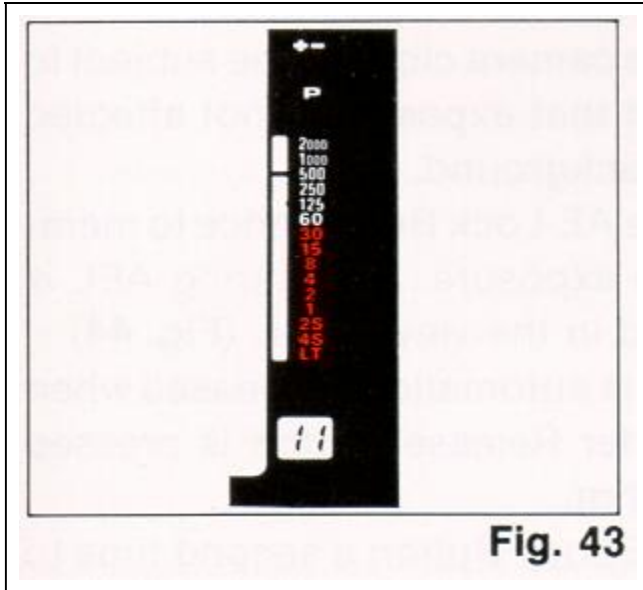
* Refer to operating instructions for these flash units for further details.

EXPOSURE COMPENSATION



The KR-30SP center-weighted meter can be "fooled" under very extreme lighting conditions.

When back light or spot light is given to the subject in AE photography and contrast is excessive between the background and the subject, under (dark) or over (too bright) exposed pictures result. Exposure compensation is used in such cases. It is also used to intentionally take over or underexposed pictures for creative effects etc.



1. Turn the Exposure Compensation Dial to set it to the required number. (Fig. 42)

* Be sure to set it back to "O" position after use.

* When the Exposure Compensation Dial is set at positions other than 0, you will see a + or a - displayed on the viewfinder LCD. (Fig. 43)

Exposure adjustment examples:

SUBJECT	EXPOSURE ADJUSTMENT
Figures in back light Scenery with much light	+2 to +1
Figures with snow mountains or sea on the background	+1
Figures in spot light (on stage etc.)	-2 to -1

AE LOCK

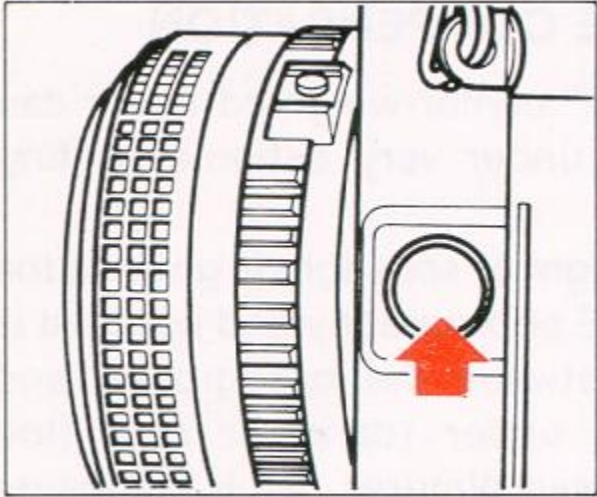


Fig. 44

When back light or spot light is given to the subject in AE photography and contrast is excessive between the background and the subject, under (too dark) or over (too bright) exposed pictures result. Use AE Lock to "remember" or lock into the camera's electronic brain a close-up reading of the subject. This reading is used usually taken of a flesh-tone (face).

1. Bring the camera close to the subject to the point that exposure is not affected by the background.
2. Press the AE Lock Button once to memorize the exposure. A flickering AEL is displayed in the viewfinder. (Fig. 44)
3. AE Lock is automatically released when the Shutter Release Button is pressed for the shot.

* Press AE Lock Button a second time to cancel without taking a picture.

* AE Lock can be used continuously if the AE Lock Button is kept pressed in.

DEPTH OF FIELD (GENERAL GUIDE LINES)

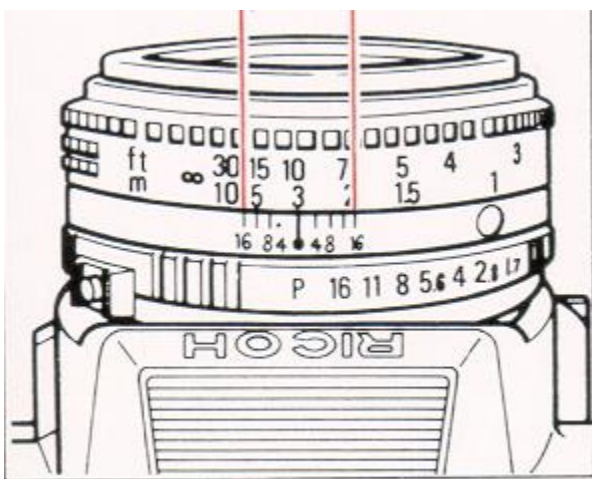


Fig. 45

When you focus on a specific subject, often subjects in the near foreground and in the distance are also in focus. The region of good focus has some measurable depth, or "depth of field" as shown here.

1. Focus depth in the near foreground is narrow and deeper with distance.

2. Greater depth of field is obtained with smaller lens opening and a wider range of good focus is provided.

3. A lens of shorter focal length (wider angle) produces a greater depth of field. A greater depth is obtained with a wide angle lens (E.G. 28 mm) and a smaller depth is obtained with a telephoto

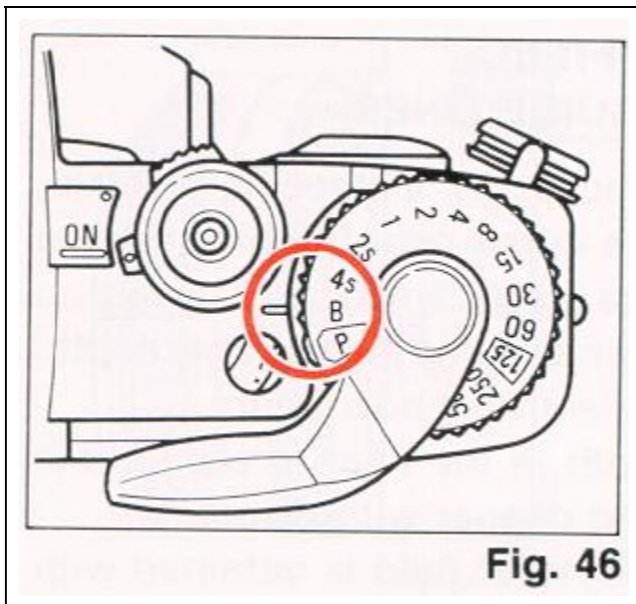
lens (E.G. 135 mm).

The depth of field can be checked in the following way.

1. A depth of field indicator is engraved on every lens. When a 50 mm standard lens is set to f-16 and focused at a distance of 3 meters, the depth of field indicator is the scale of numbers on each side of mark, ranging from 16 to 16 (about 2m to 3m). Subjects in this distance range will be in good focus.

(Fig. 45)

B (BULB) SETTING

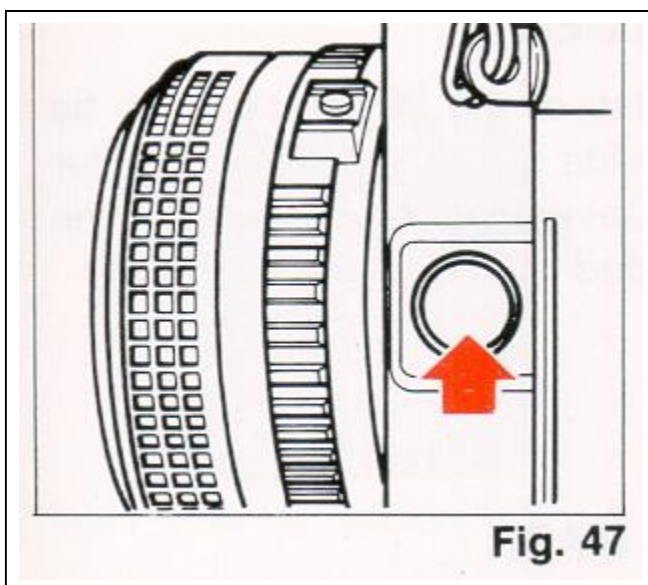


The B (Bulb) setting is used for shooting night scenes or long time exposures.

1. Set the Shutter Speed Dial to "B". (Fig. 46)
2. When the Shutter Release Button is pressed, the shutter is kept open as long as the Button is pressed.

* Use a tripod and cable release for Bulb photography to prevent unintentional movement of the camera.

VIEWFINDER LIGHTING



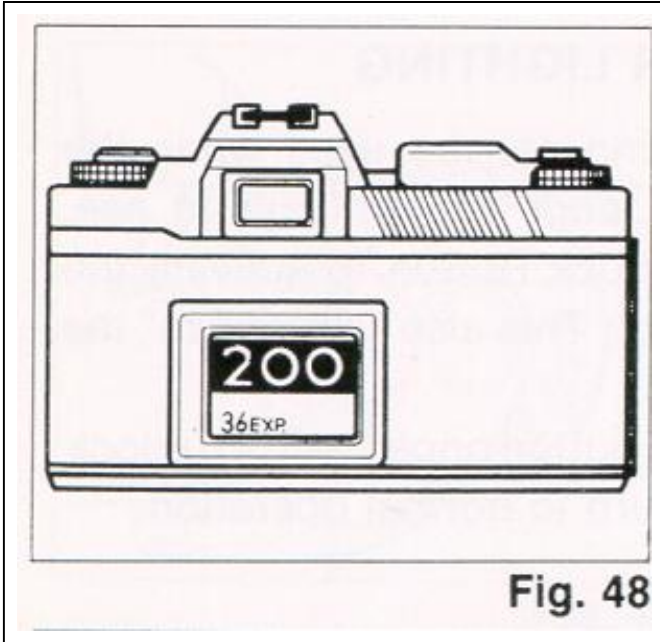
Auxiliary lighting can be used when the finder area is dark and difficult to see. Press the AE Lock Button to activate the LCD Illuminator. This also "memorize" the exposure data.

Press AE Lock Button once again to unlock AE, and to return to normal operation. (Fig. 47)

POWER ON-OFF SWITCH

KR-30SP is designed to shut off the power supply automatically to save the battery energy, i.e. the electric supply will be shut off automatically when the camera is not in use for 1 minute even the Power ON-OFF Switch is ON. Press the Shutter Release Button lightly to turn ON the power. However, we suggest you should turn the Power ON-OFF Switch to the OFF position when the camera is not used.

MEMO HOLDER



Cut off the flap of the film package to be loaded and slide it into the Memo Holder on the Back Cover to remind you what type of film is loaded in the camera. (Fig. 48)

INFRARED MARK – Go digital IR, way easier.

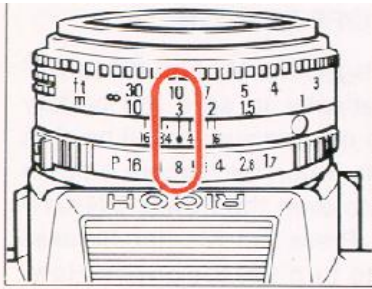


Fig. 49

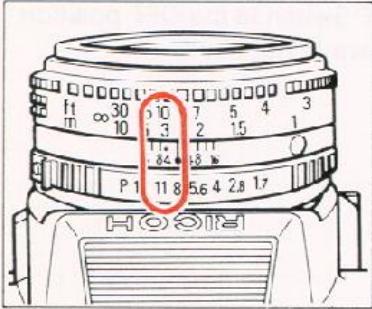


Fig. 50

Use the Infrared Focusing mark when using infrared film and R60 filter.

This is necessary because infrared light rays have a longer wave length than visible light rays, visual focusing will not be accurate without some compensation.

1. Attach the R60 filter and focus on the subject. Read the distance from the lens barrel. (Fig. 49)
2. Shift the distance setting to the infrared index mark. (Fig. 50) Set the exposure and release the shutter in accordance with operating instructions for the film.

* Always refer to infrared film operating instructions when the infrared film is used.

XR WINDER 2



Fig. 51



Fig. 52

XR winder 2 is the automatic film winding device for KR-30SP.

When this is used on KR-30SP, you need not avert your eyes from the viewfinder to advance the film during fast action photography. This means fewer missed photo opportunities and better compositions.

This is very convenient in taking sports pictures, 2 frames per second can be taken if the Shutter Release Button is kept pressed. One frame shooting is possible when the Shutter Release Button is released quickly. 4 AA 1.5V batteries (manganese, alkaline, or nickel cadmium) are used for its power source. (Fig. 51)

XR DATA BACK

2 When the Back Cover of KR-30SP camera is replaced by the XR Data Back, "Year, month and date" "Hour, minute, second" and "Stop watch" can be printed on your film.

The automatic dating mechanism is incorporated into the XR Data Back. Once the date is set, no adjustment is necessary until 1999, because leap years and months with 31 or less days are automatically adjusted. When the switch is turned OFF, it can be used as digital watch. (Fig. 52) (Mike - I don't have one so I can't tell you if it is Y2K compliant)

DIOPTRIC LENSES

If a dioptic lens is fitted, you do not have to wear eye-glasses when taking pictures. Slip the lens in the groove in the finder eyepiece.

Dioptic lenses are available in 7 types: -4, -3, -2, -1, +1, +2 and +3 (Diopters) (Fig. 53)

Note: Some forms of astigmatism etc. may make dioptic eyepiece correction impossible. Please check with your vision specialist for a recommendation based on your prescription.

RELEASE GRIP



Fig. 54

The release grip is available for the KR-30SP as an optional accessory.

1. Push the hand grip release button on the bottom of your camera to remove the standard grip. (Fig. 54)



2. Press two release grip pegs into camera body holes to snap the release grip into place. (Fig. 55)

P MOUNT ADAPTER

Conventional P mount lens (thread mount lens) can be used on KR-30SP by using the optional P mount adapter. Normal photography is available but operating conditions are slightly changed.

(Mike - Yes, you can mount a thread mount lens on this and other K-mount cameras but the thread mount lens must have a manual aperture setting. You must stop down [darken viewfinder] to take a meter reading and then open wide to focus accurately

- A. Program exposure does not work (due to a different lens coupling system).
- B. Auto (Full Aperture) diaphragm is not functional.
- C. Automatic f-stop number setting with the special flash unit is not functional.



1. Align with the red dot and attach it into the body mount. (Fig. 56)
2. Use a ball-point pen, etc. to turn it clockwise to the limit (65°). It is then locked and ready for use.
3. Use a ball-point pen, etc. to press the spring inwards and turn the P mount adapter counterclockwise to the limit. Now it can be removed.

* Some thread mount lenses cannot be mounted on the KR-30SP camera. Purchase of lenses for KR-30SP is recommended for optimum results.

CARE OF BATTERIES

1. After handling, do not leave sweat or grease on battery surface. This could result in poor contact. Wipe both ends of the battery with a clean cloth.
2. Do not attempt to disassemble the batteries and do not throw them into fire or expose to high temperatures.
3. When batteries are unloaded from the camera, keep them away from children. If a child should swallow a battery, immediately consult with a doctor. Battery chemicals are highly poisonous.
4. Unload batteries when the camera is not used for a long period of time.

CARE AND STORAGE OF YOUR CAMERA

- * Do not touch the lens or mirror with your fingers to clean them. Blow dust away with a blower or wipe them gently with soft cloth.
- * Shock, humidity or salt may make the camera malfunction. When you use your camera at the beach or in a place where chemicals are used, wipe it clean carefully.
- * Do not use chemically-treated dusters to clean the camera.
- * Do not expose your camera to temperature extremes.
- * Do not leave your camera in a car or at the beach or in high temperature conditions to prevent possible trouble. 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)
- * Do not store your camera near a television, radio or other magnetic substance.
- * Remove batteries from your camera before storing it. Store it in a humidity and dust free place.

SPECIFICATIONS

Type: 35 mm SLR with focal plane shutter and automatic electronic exposure control.

Photographic Modes: Program automatic exposure mode, speed program automatic exposure mode, aperture-priority automatic exposure mode and manual exposure mode.

Film Format and Frame Size: 35mm film, J135, 24 x36 mm

Lens Mount: RICOH system R-K mount

Shutter: Electronically controlled, vertically moving metal focal plane shutter. Automatic: 16 sec. to 1/2000 sec.,
Manual: 4 sec. to 1/2000 sec., B (Bulb)

Self-Timer: Operating time: 10 seconds View finder. During operation, red lamp blinks.

Viewfinder: Field of view covers 93% horizontally and vertically.
Magnification: 0.88X (with 50 mm F1.4 standard lens)

Displays in the viewfinder:

Exposure adjustment, AE lock, manual, program mode, overexposure mark, shutter speed indicator, long time exposure, underexposure mark, bulb, battery low warning signal, and programmed f-stop number. LED indicator: Flash ready indicator.

Focusing: Diagonal split-image spot in microprism band

Exposure Meter: TTL full open metering for center-weighted average light reading.

Exposure Coupling Range: EV 0 to EV 18 (with ASA 100 film, 50 mm F1.4 standard lens)

Film Speed Range: ISO 12 to 3200

Accessory Shoe: Hot Shoe (with Flash Ready Signal Contact)

Exposure Adjustment: Exposure adjustment system (+2 to -2, in 1/3 steps), AE lock system,

Film Advance: Single stroke film advance lever, 135° winding angle and 35° stand-off.

Automatic Film Advance: Possible with XR winder 2 or motor drive.

Exposure Counter: Additive, automatic resetting.

Film Rewind: Film rewind crank system.

Mirror: Swing back type quick return mirror.

Back Cover: Hinged type, opened by pulling up Film rewind knob.

Other Functions: Interchangeable grip and direct contact for data back.

Power Source: Four LR44 1.5V alkaline batteries, four SR44 1.55V silver oxide batteries or two CR-1/3N 3V lithium batteries.

Dimensions: 137 (W) x 89 (H) x 51 (D) mm (Body only)

Weight: 490g (Body only)