

RICOH

AD-1

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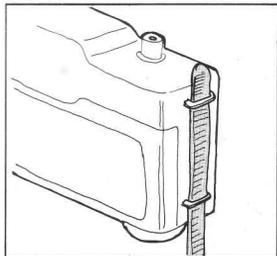


Fig. 1

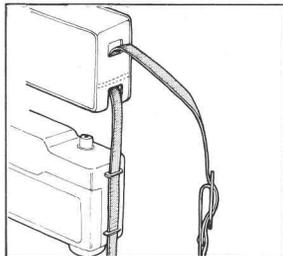


Fig. 2

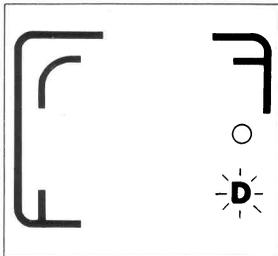


Fig. 7

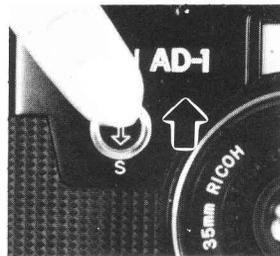


Fig. 8

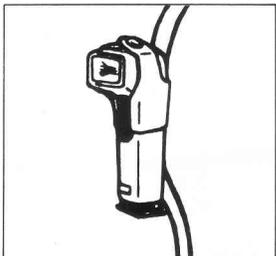


Fig. 3

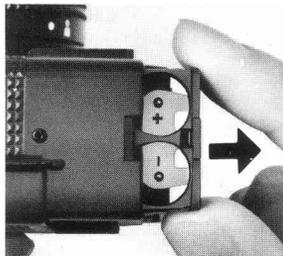


Fig. 4

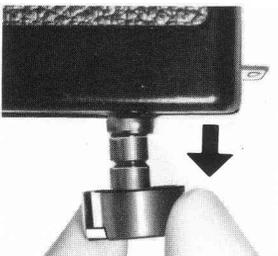


Fig. 9

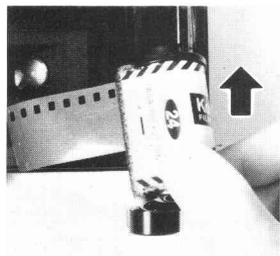


Fig. 10

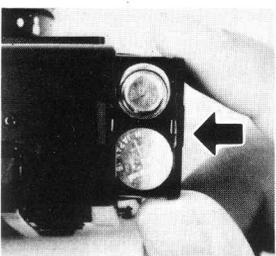


Fig. 5

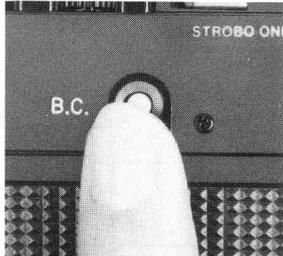


Fig. 6

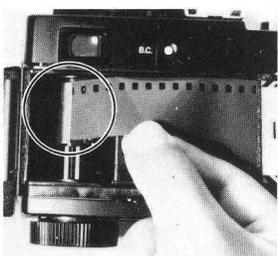


Fig. 11

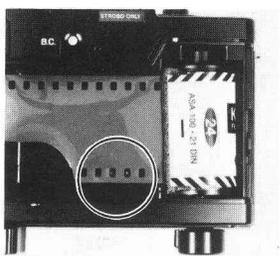


Fig. 12



Fig. 13

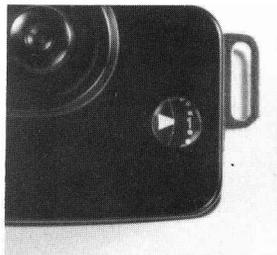


Fig. 14

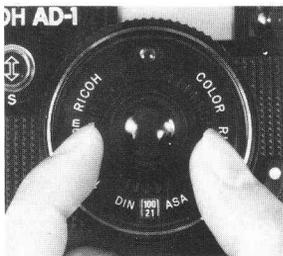


Fig. 15

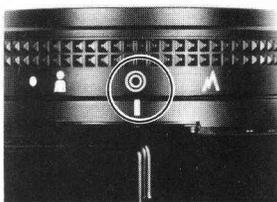


Fig. 16

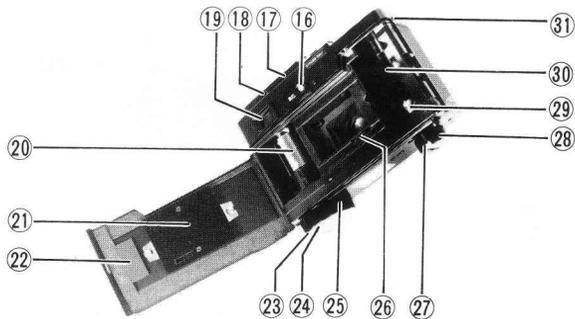
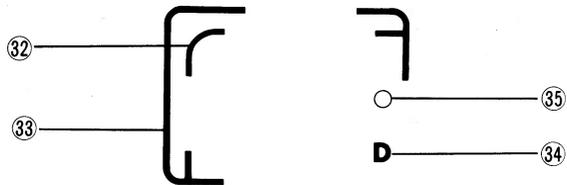


Fig. 17



Fig. 18



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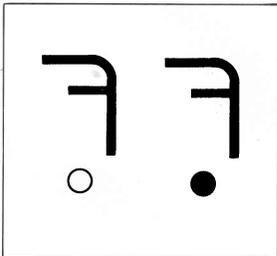


Fig. 19

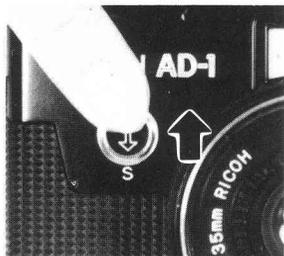


Fig. 20

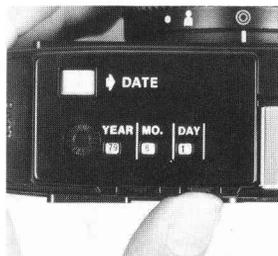


Fig. 25

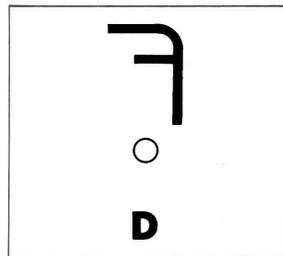


Fig. 26



Fig. 21



Fig. 22

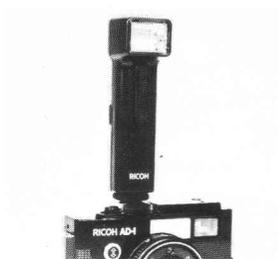


Fig. 27



Fig. 28

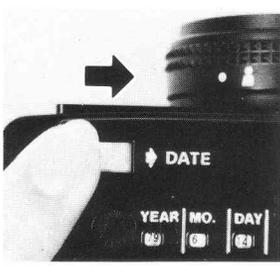
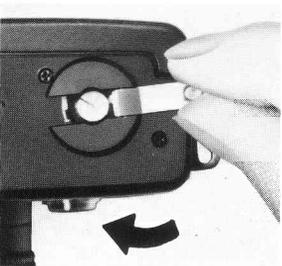


Fig. 24

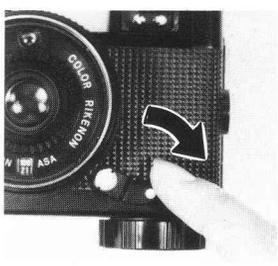
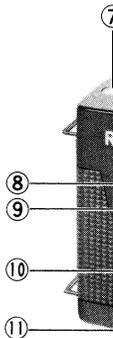
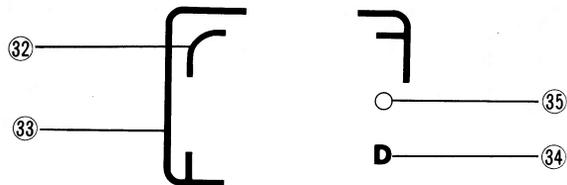
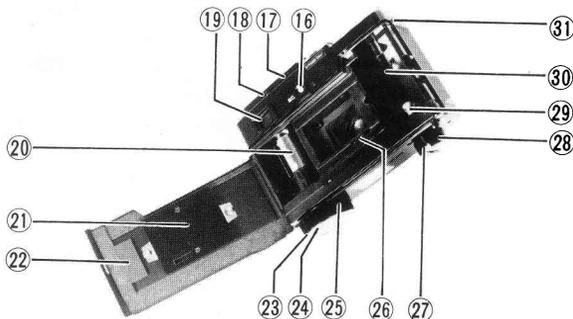
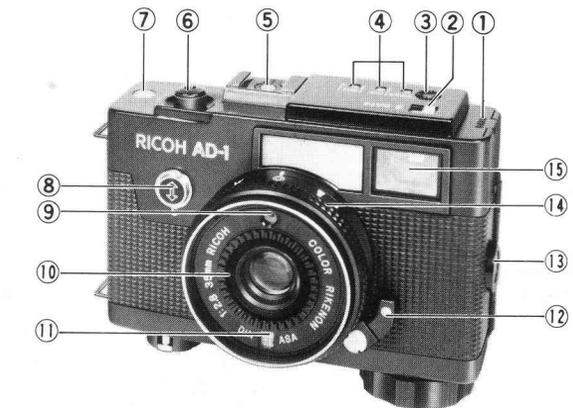


Fig. 29



PARTS

1. Battery Compartment
2. Date Switch
3. Year Setting Dial
4. Date Indicator Window
5. Hot Shoe
6. Shutter Release Button
7. Exposure Counter
8. Mode Switch
9. Electric Eye
10. Film Speed Dial
11. Film Speed Window
12. Self-Timer Lever
13. Tripod Socket
14. Distance Scale
15. Viewfinder
16. Battery Check Button
17. Day Setting Dial
18. Month Setting Dial
19. Viewfinder Eyepiece
20. Film Take-up Spool
21. Film Pressure Plate
22. Back Cover
23. Spring Winder Indicator
24. Film Rewind Release Button
25. Spring Motor Wind Knob
26. Sprocket Teeth
27. Film Rewind Crank
28. Film Rewind Knob
29. Film Rewind Shaft



30. Film Chamber
31. Strap Eyelet
32. Parallax Correction Marks
33. Bright Frame
34. Battery Check Signal/Date Setting Signal
35. Under Exposure Warning Signal

HOW TO FIX THE STRAP

1. Put the strap through the strap eyelets on the left side of the camera body (Fig. 1).
2. Put the strap through the camera case and insert into the metal adjustor (Fig. 2).
3. Adjust the length and fasten with the metal clip.

For Speedlite 120 users:

Attach the flash case to the strap as shown in the picture (Fig. 3).

BATTERY LOADING

1. With your finger nail, pull up the Battery Compartment (1) on the top left of the camera body, as far as it will go (Fig. 4).
2. Insert the batteries as shown in the polarity diagram in the Battery Compartment.
3. Push down the Battery Compartment (Fig. 5)

Tips for Better Results

- ★ If the batteries are inserted incorrectly, it will result in incorrect exposure.
- ★ Dust or grime on the batteries may cause poor contact, so wipe them clean before insertion.
- ★ When the camera is not going to be used for a long period, remove the batteries.
- ★ It is dangerous to take the batteries apart or to burn them.

HOW TO CHECK THE BATTERIES

1. Push the red Battery Check Button (16) on the back of the camera and look through the viewfinder (Fig. 6).
2. If the red "D" signal (34) in the bottom right corner of the viewfinder lights up, then the batteries are in working order (Fig. 7).

Tips for Better Results

- ★ Even if the red "D" signal (34) does not light up, it is still possible to press the Shutter Release Button and take a picture, but the exposure will be incorrect. Therefore please be sure to check the batteries.
- ★ The life-span of the batteries under normal use is approximately one year.
- ★ Always change both batteries at the same time when it is necessary to change one.
- ★ Generally, the battery power decreases in low temperatures.

When shooting in sub-zero temperatures, protect the battery area from the cold. Keep spare batteries warm in your pocket, and insert them just before shooting.

FILM LOADING

1. Set the Mode Switch (8) so that "S" (single) is visible (Fig. 8).
2. Pull out the film Rewind Knob (28) until the Back Cover opens (Fig. 9).
3. Insert the film cartridge into the Film Chamber (30) and push the Film Rewind Knob (28) back into position (Fig. 10).
4. Insert the film leader into the Film Take-up Spool (Fig. 11).

5. Turn the Spring Motor Wind Knob so that the film perforation engages on the sprocket teeth, and check that the film is wound securely (Fig. 12).
6. Close and press the Back Cover firmly until it snaps shut.
7. Turn the Spring Motor Wind Knob in the direction of the arrow until it will not wind any further. The Spring Winder Indicator will show a continuous green line. Up to 10 or 15 shots can then be taken (Fig. 13).
8. Press the Shutter Release Button until the number 1 appears in the Exposure Counter (Fig. 14).

Tips for Better Results

- ★ If the Back Cover is opened while the film is in and the Spring Motor is wound, the film will be exposed to the light.
First set the red sign  on the Spring Motor Wind Knob to the Rewind Position  and press the Film Rewind Release Button before opening the Back Cover.
- ★ If the film is loaded incorrectly and the Back Cover closed, the film will not wind when the Spring Motor Wind Knob is turned. Please reload the film correctly.
- ★ Avoid direct sunlight when loading or unloading the film.

- ★ When the Back Cover is opened, the Spring Motor unwinds with a "zzee" sound. This is the sound of the spring clearing and is quite normal.

SETTING THE FILM SPEED

1. Turn the Film Speed Dial (10) at the front of the lens so that the ASA number of the film you are using appears in the Film Speed Window (11) (Fig. 15).

Tips for Better Results

- ★ Please set the Film Speed Dial (10) to a click-stop position as a mid-way position will result in incorrect exposure.

FOCUSING

With the AD-1 camera you can focus by using the symbols or by eye with the Distance Scale.

Focusing by Symbols:

This simple method enables you to take a picture using the 4-point zone focusing system on the Distance Scale (14) (Fig. 16).

(● 1m/3.3 ft ☪ 1.2m/4 ft ◎ 2.5m/8.2 ft ∞)

Focusing by eye:

Measure the camera-to-subject distance by eye and adjust the distance on the lower part of the Distance Scale (14) (Fig. 17).

Tips for Better Results

- ★ Compose the subject within the Bright Frame outline (33).
Close subjects between 1 ~ 1.2m should be within the Parallax Correction Marks (32).

HOLDING THE CAMBER

Hold the camera with both hands, look into the viewfinder, and keep the arms against the body, gently press the Shutter Release Button (Fig. 18).

EXPOSURE

This camera has a programmed shutter, so the shutter speed and diaphragm are automatically set according to the brightness of the subject. You can take a picture as long as the Under Exposure Warning Signal (35) in the viewfinder is yellow (Fig. 19).

If there is insufficient light, the Under Exposure Warning Signal (35) turns red, and you should switch to flash photography (Fig. 19).

Tips for Better Results

- ★ Make sure you do not accidentally cover the photocell, or you will not obtain a correct exposure.

TAKING THE PICTURE

You can shoot single frames of continuous pictures at about 2 frames per second, by simply changing the Mode Switch.

Single Shots:

1. The Mode Switch (8) on the front of the camera should be pushed up so that "S" is visible (Fig. 20).
 2. When the Shutter Release Button is pressed, one frame is exposed and the film wound on automatically.
- ★ Without actually loading the camera, you can wind the Spring Motor Wind Knob (25) to practice shooting single or continuous pictures.

Continuous Shots:

Fast action sports or children's fleeting expressions etc., can be captured by keeping the Shutter Release Button depressed for continuous shooting at about 2 frames per second. Up to 10 or 15 shots can be taken when the Spring Motor is fully wound.

1. Push the Mode Switch (8) down so that "C" is visible.
2. Keep the Shutter Release Button (6) depressed to take continuous shots.

Tips for Better Results

- ★ After shooting in "C" mode, there may be cases when the Shutter Release Button (6) does not spring back into position. This is because there is insufficient power left in the Spring Motor. Please rewind the spring with the Spring Motor Wind Knob (25).
- ★ Do not turn the Spring Motor Wind Knob while pressing the Shutter Release Button.

THE SPRING WINDER INDICATOR

The amount of film remaining in the Spring Motor is indicated in the Spring Winder Indicator window (23). When the green line is no longer visible, turn the Spring Motor Wind Knob (25) in the direction of the arrow. If you can see the green line, then the camera is ready for shooting (Fig. 21).

REWINDING THE FILM

1. Turn the Spring Motor Wind Knob (25) clockwise to match the  sign to the ▲ sign on the inner ring (Fig. 22).
2. Push in the Film Rewind Release Button (24).
3. Pull up the Film Rewind Crank (27) and turn it in the direction of the arrow to rewind the film (Fig. 23).

4. When the film is fully rewound, the Film Rewind Crank (27) will turn freely.
5. Pull out the Film Rewind Knob (28) all the way, and pull hard until the Back Cover (22) opens.
6. Remove the film cartridge and close the Back Cover (22).

Tips for Better Results

- ★ Never open the Back Cover while rewinding the film. If you do so the film will be exposed to the light and the shots wasted.
- ★ There may be cases when a "zzee" sound occurs when the Film Rewind Release Button (24) is pressed. This is the sound of the Spring Motor clearing and should not be mistaken for the sound of the film rewinding.

SETTING THE DATE

The AD-1 has an inbuilt date-setting system to print the date on your photographs. This makes arranging your album a simple and enjoyable process.

1. Slide the yellow Date Switch (2) towards the "Date" sign (Fig. 24).
2. Turn the Date Setting Dials to set the required date in the Date Indicator Window (4) (Fig. 25).

3. If you press the Shutter Release Button half way, you should see the letter "D" light up in the bottom right corner of the viewfinder. If the "D" signal lights up, the date will be printed automatically on your picture (Fig. 26).

Tips for Better Results

- ★ When you set the Date Switch (2) do not press the Shutter Release Button (6) half way for too long, as this shortens the life of the batteries.
- ★ Please set the YEAR MO. DAY dials in click-stop positions so that the figures or letters are clearly visible in the Date Indicator window.
- ★ The date may not show up clearly if it is set against backgrounds that are white, or back lighting.
- ★ The brightness of the date printing is adjusted to ASA 100 film. If you use other film speeds, the figures may be blurred or faint.

FLASH PHOTOGRAPHY

When the Under Exposure Warning Signal (35) turns red, then you should use a flash. The AD-1 camera adopts the flashmatic system set to guide number 12(m) with ASA 100 film.

You can take flash pictures easily by using the special RICOH Speedlite 120 or a flash unit with guide number 12 (ASA 100, m).

1. Attach the Speedlite 120 or other flash unit with guide number 12 (ASA 100, m) to the camera Hot Shoe. (The shutter speed is automatically set to 1/30 sec.) (Fig. 27).
2. Measure the camera-to-subject distance by eye and adjust the Distance Scale (14) accordingly (Fig. 28).
3. The diaphragm is automatically set according to the distance and the correct exposure will be obtained. All you need do is press the Shutter Release Button.

SHOOTING DISTANCES FOR SPEEDLITE 120 AND GUIDE NUMBER 12 FLASH UNITS

Zone Distance Film Speed	Zone Distance							
	1	2	3	4	5	6	7	8 m
25	↔							
	1.7m							
50	↔							
	2.5m							
100	↔							
	4m							
200	↔							
	5.5m							
400	↔							
	7m							

FOR ASA 400 FILM

Flash Unit Guide Number	ASA Setting on Camera
10	250
12	400

If you use a flash unit with a guide number other than 12 (ASA 100, m) please adjust the Film Speed setting as shown in the charts below.

FOR ASA 100 FILM

Flash Unit Guide Number	ASA Setting on Camera	Zone Distance									
		1	2	3	4	5	6	7	8 m		
10	64	↔									
		3.5m									
12	100	↔									
		4m									
14	125	↔									
		5m									
16	160	↔									
		5.5m									
18	200	↔									
		6m									
20	250	↔									
		6.5m									
22	320	↔									
		7m									
24	400	↔									
		8m									

Tips for Better Results

- ★ Do not attach anything other than a flash unit to the Hot Shoe as this will cause incorrect exposure.
- ★ Only a cordless flash unit should be used with the RICOH AD-1 camera.
- ★ Remove the flash unit when not taking flash photography.
- ★ If you use an automatic flash unit, it should be set to manual.
- ★ The RICOH AD-1 is for flash unit only. Flash bulbs may not be used.

USING THE SELF-TIMER

When you use the Self-Timer, the Mode Switch (8) should be set to "S".

1. To set the Self-Timer, turn the Self-Timer Lever (12) fully in a clock-wise direction (Fig. 29).
2. When the Shutter release Button is pressed, the Self-Timer Lever starts moving. It takes about 10 seconds for the shutter to release.

Tips for Better Results

- ★ Once the Self-Timer Lever is set, it cannot be cleared.
Do not try to force the lever back as this may damage the mechanism.

- ★ If the Self-Timer is used with the Mode Switch set to "C", between 2 and 8 pictures may be taken continuously.

MAJOR SPECIFICATION FOR AD-1

Lens:

35 mm Color Rikenon f2.8 lens
3 groups 4 elements

Shutter:

Programmed system mechanical shutter
1/30 ~ 1/250 sec. (Auto EE exposure)
1/30 sec. for Flash picture

Exposure Meter:

CdS exposure meter, fully automatic control and manual override for flash picture
Two 1.5V silver-oxide batteries (JIS G13, Mallory MS76, Eveready S76 or equivalent)
Coupling range EV8 ~ 27 (ASA 100)
Film speed range ASA 25 ~ 400 (DIN 15 ~ 27)

View Finder:

Bright frame viewfinder
Yellow mark for sufficient light and red mark for insufficient light
Date-inprinting mark/Battery power check mark visible
Magnification 0.45X
Coverage of actual picture area over 83%

Focusing:

Manual, four-zone focus system

Film Advance:

Automatic film advance by built-in spring motor

One full charge of spring advances about 10
~ 15 frames

Winding speed:

Approximately two frames per second
(Continuous 5 frames)

Mode Selector Switch:

Slide switch

S (Single frame), C (Continuous frame)

Film Rewind:

Crank Lever

Film Counter:

Additive automatic resetting

Flash Contact:

Hot shoe for cordless electronic flash unit

Other Features:

Date-inprinting

Indication of winding power

Self-timer

Tripod socket

Cable socket

Dimensions:

112.5 (width) × 76.5 (height) × 52.1 (depth) mm

Weight:

395g (without batteries)

* Specifications are subject to change without notice.

PIECES

1. Logement des piles
2. Sélecteur de date
3. Affichage de l'année
4. Fenêtre d'indication de la date
5. Griffe porte flash
6. Déclencheur
7. Compteur d'images
8. Sélecteur de mode
9. Cellule
10. Affichage de la sensibilité film
11. Fenêtre d'indication de la sensibilité ASA
12. Levier du retardateur
13. Filetage pour pied
14. Echelle des distances
15. Viseur
16. Testeur de piles
17. Affichage de la date
18. Affichage du mois
19. Oeillette du viseur
20. Bobine réceptrice
21. Presseur
22. Dos du boîtier
23. Indicateur de tension du moteur à ressort
24. Bouton de débrayage
25. Bouton de remontage du moteur à ressort
26. Roues dentées du débiteur d'entraînement
27. Manivelle de rembobinage du film
29. Axe de rembobinage du film