

OPERATING INSTRUCTION

Chinon AF-S280

TTL (through the lens flash)

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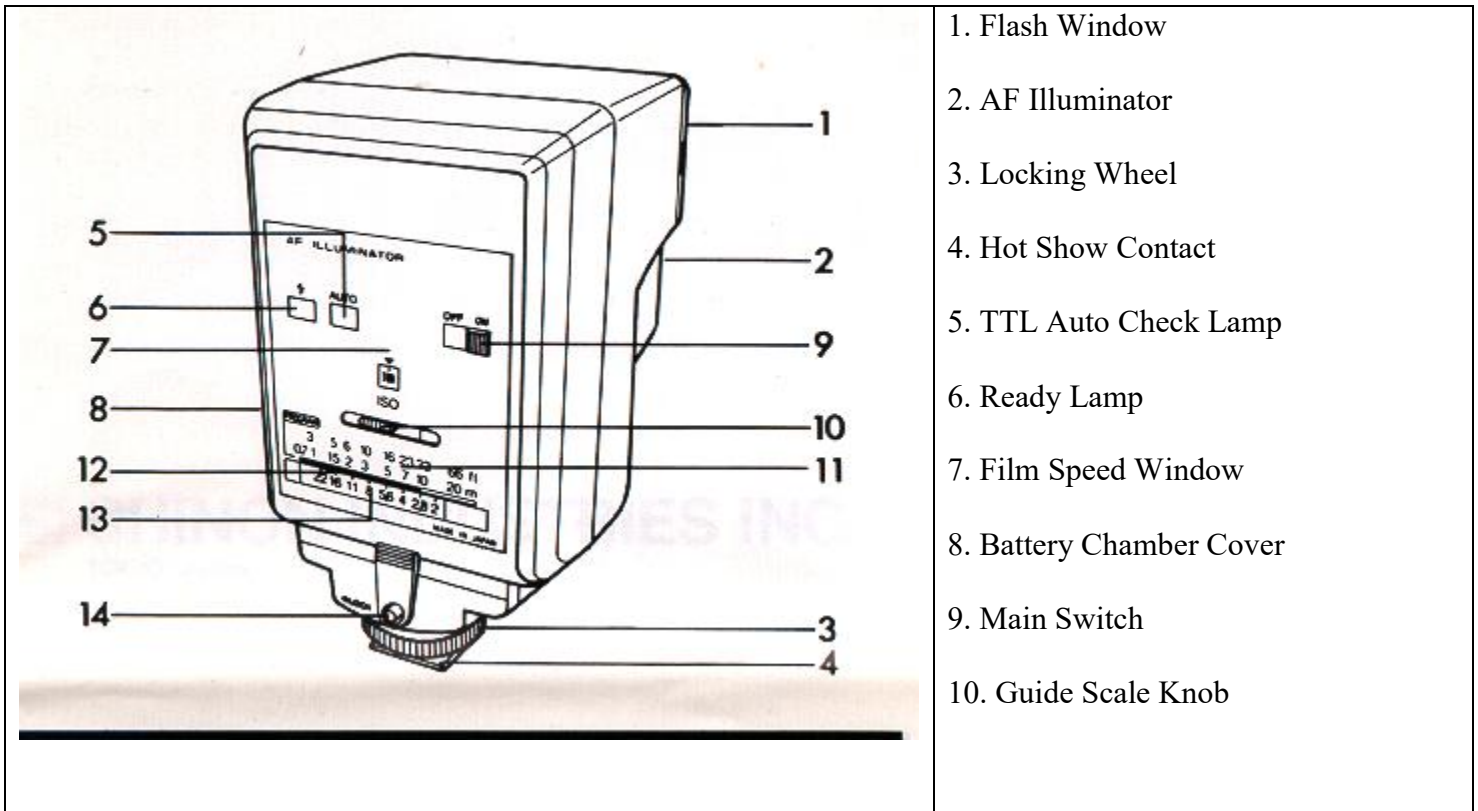
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**This flash provides AF and "Through The Lens Flash" with the Chinon CP-9AF camera
 other flashes will require you to go to manual mode and manually set the camera's aperture
 -- the small white item is the wide angle flash adaptor --**

NOMENCLATURE



11. Distance Scale	13. Lens Aperture Scale
12. TTL Distance Indicator	14. Test Button

SPECIFICATIONS

Guide Number: 28 (ISO 100, M)

Illumination Angle: 60 degrees in horizontal, 45 degrees in vertical

Flash Duration: 1/1000 - 1/30000 Sec.

Recycle Time: 0.2 - 7 Sec., in automatic mode

Flash Output Control: TTL automatic output control system

Flash Ready Lamp: Built-in

Energy Saving: If the flash and camera are left more than 3 minutes without operation, flash unit will be automatically turned 'OFF'.

Power Source: Four 1.5 volt AA alkaline batteries

PREPARATIONS

1. Battery Installation

1) Turn the Main Switch of the flash unit to the OFF position. 2) Slide and pull up the Battery Chamber Cover to open it. 3) Install the batteries with (+) and (-) ends as aligned as indicated in the battery chamber.

2. Attaching the Unit to the Camera 1) Turn the CP-9AF and flash unit to the 'OFF' position before the flash
2) Loose the Locking Wheel on the flash unit. Then slide the Hot Shoe section of the flash unit firmly into the accessory shoe of the camera. 3) Turn the Locking Wheel to fix the flash unit firmly with the accessory shoe on the CP-9AF. 4) Then, turn the Main Switch to the 'ON' position.

3. Flash Testing

It is recommended to test the flash function by the **Test Button** before taking a flash photography.

- 1) As soon as the Main Switch is turned 'ON', flash starts charging. When the flash is fully charged, the Ready Lamp will light up.
- 2) Then, in order to check the proper flash functions, press the Test Button so that the flash will be fired to confirm the proper flash functions.

4. Energy Saving Function

- 1) If the CP-9AF and flash unit are left 'ON' without an operation for more than 3 minutes, flash unit will automatically be turned 'OFF' to save the battery power.
- 2) In order to turn the flash unit 'ON' from the Energy Saving mode, press the CP-9AF's shutter release button halfway or press the Test Button on the flash unit, so that the flash unit will be immediately turned ON again. (Pressing the CP-9AF's AF mode button or time mode button will also cancel the Energy Saving mode).

Note:

Even in the Energy Saving mode, a minimal current is always drawing in order for the flash unit to be ready immediately upon the cancellation of the Energy Saving mode. Therefore, when the flash is not used for the longer period of time, it is recommended to manually turn the flash unit to be 'OFF' with the Main Switch.

5. AF Illuminator

- 1) When shooting a low-contrast subject in the low-light condition, the AF illuminator on the flash unit will automatically emit the near infrared ray on the subject, so that the CP-9AF can focus even in the very low-light conditions.

Note:

The effective range of the AF illuminator depends on the condition of the subject. Therefore, for certain subjects, the CP-9AF may not focus properly even with the aid of the AF illuminator. In such a case, it is recommended to move closer to the subject for picture taking.

6. TTL Auto Check Lamp

1) Upon completion of the flash photography, TL Auto Check Lamp (green) will light up and confirm that the flash output was properly controlled. (A good check when used with the test button. Light only glows for 3 seconds.)

7. Distance Scale

1) The TTL automatic flash range changes with the film speed and lens aperture in use. Set the flash unit for the proper film speed of the film in use by sliding the Guide Scale Knob on the flash unit.

- 2) The Distance Indicator (green/blue) right beneath the Distance Scale indicates the effective flash range.
- 3) Check the CP-9AF's lens aperture setting indicated on its LCD panel and refer the same F-stop number on the Lens Aperture Scale is the TTL Distance Indicator, showing the effective TTL flash range of this setting.

I. Flash In the Aperture Priority AE

- 1) Set the CP-9AF to the Aperture priority AE mode and select the desirable lens

Aperture setting with the UP/DOWN switch on the CP-9AF.

- 2) Slide the Main Switch of the flash unit to the ON position.
- 3) As soon as the flash is fully charged, Flash Ready Lamp on the flash unit and the flash ready symbol LED (lighting bolt) in the viewfinder of the CP-9AF will light-up.
- 4) Press the shutter release button halfway so that the shutter speed will automatically be set anywhere in between 1/60 to 1/100 Sec., depending on the scene brightness.
- 5) Press the shutter release button on the CP-9AF fully to take a flash photography.
- 6) TTL Auto Check Lamp (green) on the flash unit will then light up and confirm the properly controlled flash output for the shot.

II. Flash Photography in the Program AE (P. Pa, Pc Modes)

- 1) Set the CP-9AF in any of the program mode.
- 2) Slide the Main Switch of the flash unit to the ON position.
- 3) As soon as the flash is fully charged, Flash Ready Lamp on the flash unit and the flash ready symbol LED (lighting bolt) in the viewfinder of the CP-9AF will light-up.
- 4) Press the shutter release button halfway so that the shutter speed will automatically be set anywhere in between 1/60 to 1/100 Sec.. depending on the scene brightness.
- 5) Press the shutter release button on the CP-9AF fully to take a flash photography.
- 6) TTL Auto Check Lamp (green) on the flash unit will then light up and confirm the properly controlled flash output for the shot.

Note:

Taking a flash photography in the Program AE mode is especially useful for the Fill-in flash photography.

III. Auto Fill-in flash Photography

1) Fill-in flash photography is effective for the subject in the back-light condition as it avoids the main subject to be under exposed due to the strong back ground brightness. Auto Fill-in flash can easily be accomplished in the Program AE mode flash operation:

2) Set the camera in any of the Program AE mode without any further setting.

Then just point and shoot against the back-lit subject whenever the flash is fully charged for the perfect fill-in flash photography.

Note:

If the main subject is too bright, using a fill-flash may result in over exposure.

IV. Flash Photography in the Manual Exposure Mode

1) Set the CP-9AF to the Manual exposure mode and select the desirable Aperture and shutter speed of 1/60 Sec., or faster.

2) Slide the Main Switch of the flash unit to the ON position.

3) When the flash is fully charged, press the shutter release button halfway so that the shutter speed will automatically be set anywhere in between 1/60 to 1/100 Sec. depending on the scene brightness.

4) Press the shutter release button fully to take a flash photography.

V. Slow Shutter Synchronization

This technique enables you to increase the exposure on light backgrounds while maintaining the proper exposure on the main subject.

1) Set the CP-9AF to the Manual exposure mode and set the desirable Aperture and shutter speed slower than 1/60 Sec.

2) Slide the Main Switch of the flash unit to the ON position

3) When the Flash is fully charged, press the shutter release button halfway so that the manually selected shutter speed will be set.

4) Press the shutter release button fully to take a Slow shutter synchronization flash photography.

Note:

Use of the tripod is recommended for the slow synchronization flash photography for the best results.

VI. Flash Coverage Angle

The effective flash angle coverage is sufficient to cover the field of view of a 35 mm wide angle lens. Therefore, when using a lens wider than the 35 mm focal length, use of a wide angle adapter is recommended which extends the flash angle coverage down to the field of view of a 28mm lens.

Note:

When the wide angle adapter is attached on the flash unit Guide Number will be reduced to G. No. 20 (ISO 100, M) and the effective flash distance will be reduced accordingly.

VII. Operating Range

Operating range changes with film speed and the lens Aperture setting as per following tables.

Lens Aperture	P-mode (F3.5)	Wide angle adaptor
Manual F 2 range = 3.3 to 46 ft.	2.3 - 33 ft.	2.3 - 19 ft.

Film speed	25 ASA	50 ASA	100ASA	200ASA	400ASA
Ratio	0.5	0.7	1 (as per guide)	1.4	2X

Note: For example, if the maximum operating is 20 feet with ISO 100 film it will be 40 feet when using ISO 400 film.