

Chinon Auto S-240 flash unit

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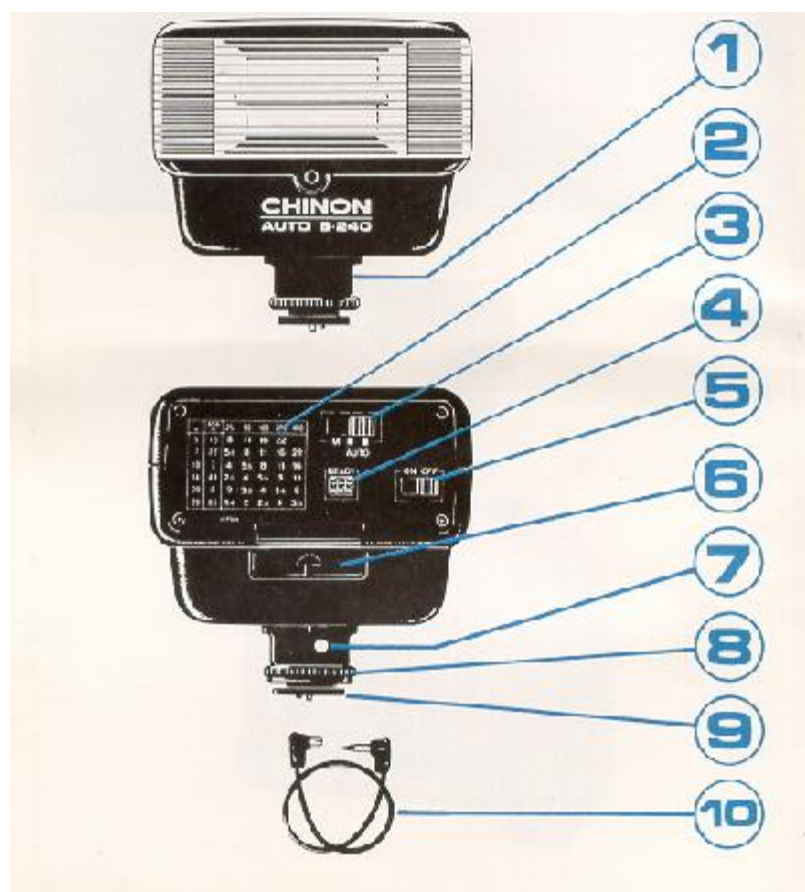
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CHINON
AUTO S-240
Electronic Flash Unit
INSTRUCTIONS

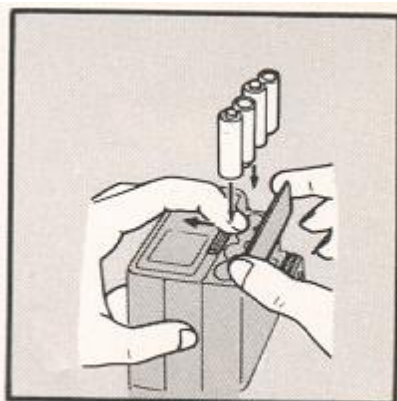


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We thank you for selecting Chinon flash unit.



1	Synchro Cord Socket Synchro-Kabel-Fassung Prise du fil de Synchronisation Conexion para el cable de sincronización
2	Distance Guide Entfernungsrechnung Calculateur de Distance Cálculos de Distancias
3	Auto-Manual Control Switch Auto-Manuell-Kontrollschalter Commutateur de réglage auto-manuel. Conmutador de control para automático y manual
4	Ready Lamp Bereit-Lampe Lampe Témoïn Luz de Preparado
5	On/Off Switch On/Off Schalter Interrupteur On/off Interruptor de encendido On/Off
6	Battery Compartment Cover Batteriefachdeckel Couvercle du compartiment des batteries Cubierta del compartimiento de las baterías
7	Test Button Prüfknopf Bouton d'essai Botón de prueba
8	Lock Ring Verschlußring Anneau de fermeture Anillo de cierre
9	Mounting Foot Anschlussfuss Pied de Montage Zapata de Montaje
10	Synchro Cord Synchro-Kabel Fil de Synchronisation Cable de sincronización



Remove Battery Compartment Cover and insert AA size batteries according to the diagram inside. Close the battery compartment cover.

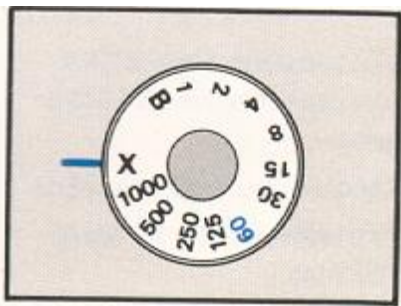
Caution: Incorrect insertion of the batteries will prevent proper operation of the flashlight, and may cause damage!



Loosen the Lock Ring.

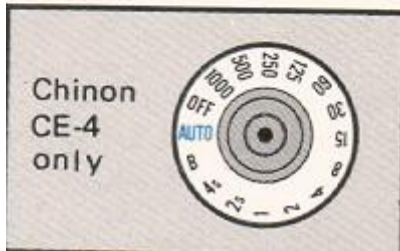
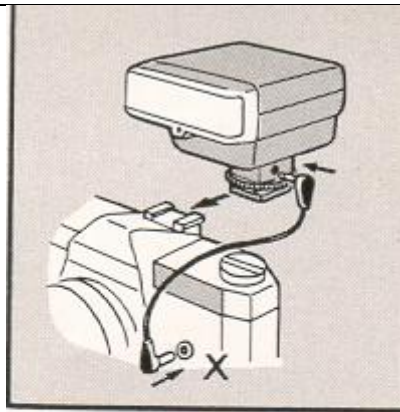
Insert the Mounting Foot of your flash into the camera's accessory Shoe Clip. Then tighten the flash with the Lock Ring.

Set the Auto-Manual Control Switch to manual marked "M".



Set the shutter speed of your camera to the proper setting for electronic flash use, or to 1/60seconds. Many camera have an X for flash sync. (Read your camera owner's manual for details on the flash synchronization.)

If your camera has a hot shoe contact, your flash is now fully synchronized with the camera through the center contacts in the camera's shoe. In this case the Synchro Cord is not necessary.



If you have Chinon CE4 camera, you no longer have to alter the shutter speed from the auto position since the flash is integrated electronically with the camera body. (Do not use any other brand from another manufacture as the extra contacts are not standard)

If the camera has not the hot shoe contact, use the Synchro Cord which comes with your flash unit.



ft	ASA m	25	50	100	200	400
5	1.5	8	11	16	22	
7	2.2	5.6	8	11	16	22
10	3	4	5.6	8	11	16
14	4.3	2.8	4	5.6	8	11
20	6	2	2.8	4	5.6	8
28	8.6	1.4	2	2.8	4	5.6

Switch the flash unit on and take a picture after the Ready Lamp glows. The flash picture taking distance is indicated on the Distance Guide,

Formula for f-stop: Use this handy formula for figuring out the f-stop.

Guide Number divided by Distance = Lens Aperture (F-stop) Remember each flash unit has it's own guide number. The higher the guide number, the more powerful the flash is and most likely more expensive.

Example: When using a ASA 100 film and standing 18 feet from a subject.

Set the lens f-stop to f4, (24 divided by 6 = 4).

Guide number is shown in Specification on the last page of this instruction manual.

ASA m		25	50	100	200	400
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7	2.2	5.6	8	11	16	22
10	3	4	5.6	8	11	16
14	4.3	2.8	4	5.6	8	11
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28	8.6	1.4	2	2.8	4	5.6

When used for automatic flash photography, your flash automatically controls light output and sets the correct exposures for the subject within the automatic range. Once you set the aperture (f stop) on your camera, there is no need to change it again while taking pictures within the available automatic range.

Your S-240 Flash is equipped with a thyristor circuit which automatically determines and shoots only the necessary light output for a short, conserving the rest battery power.

If the flash-to-subject distance is close, the "Ready Lamp" glows in a fraction of a second to be ready for the next shot so that you can take many flashes from a single battery charge.

F Number Chart


F I L M	GREEN	YELLOW
A S A 25	F 2	F 4
A S A 100	F 4	F 8
A S A 400	F 8	F16

You can find the yellow-color and green-color numbers in meters and feet on the Distance Calculator Diagram, indicating the dual automatic range. Once you set the aperture on your camera, there is no need to change it again while taking pictures within the available automatic range.

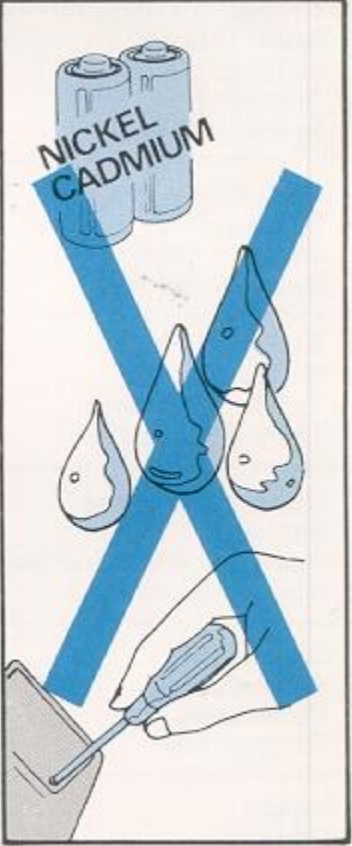
1. Set your camera to the proper speed setting for electronic flash. All Chinon cameras are 1/60 second. (Refer to your camera owner's manual.)
2. Set the Auto-Manual Control Switch on the back of your flash to Yellow position for flash distance up to 10 ft (3 m), or to Green position for distance in excess 10 ft but less than 20 ft (6 m)

3. Consult the exposure table on the back of your flash. The lens aperture of Yellow or Green colored row are to be set according to the distance and the ASA or DIN film speed corresponding to the film in your camera. (Ex. When using ASA 100 film set your camera's f-stop at f 8 for Yellow range and at f 4 for Green range).

4. Slide the On-Off switch to "ON" and focus your camera. Take the picture after the "Ready Lamp" glows. (Note: If You have a flashmatic camera, You cannot use the automatic operation but have to follow the manual operation).

 <p>Chinon CE-4 only</p>	<p>5. If you have Chinon CE4 camera, it has a special viewfinder ready-light system which is electronically coupled to the auto flash. When the flash has reached adequate power, the viewfinder 1/60 #C. shutter speed indicator (LED) will flash signaling the camera and the flash are ready to operate.</p>
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Hints for Maintenance and Better Flash Photography:

	<p>The use of flash eliminates "squinting and shadows" and helps bring out natural facial expressions on the subject. When taking pictures, avoid shooting into highly reflective surface like mirrors, glass or glittering water.</p> <p>If you have to shoot a subject with such reflectors behind, use the automatic operation for flash or shoot from a different angle so that any reflections do not directly go into the camera lens.</p> <p>When not in use, switch the unit off. Take the batteries out when the flash unit is being stored or when it will be carried during a long time.</p>
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Keep your flash unit away from dust and moisture to prolong its life. It is a good idea to bring out your flash unit from storage and "TEST FLASH" it once or twice a month.

Do not use Nickel Cadmium batteries (Webmaster: I never had any problem after years with NC batteries, the new alkaline are better than the NC batteries anyway)

Do not try to open or repair your flash unit since the electric circuit inside carries a high voltage. If your flash needs repair or does not work correctly, take it to where You bought it from. Opening the unit voids the warranty. (Webmaster: after these years, there is little hope of repair at a reasonable expense)

Guide Number Leitzahl Nombre-guid Número guía	80 (ASA 100, feet) 40 (ASA 25, feet) 24 (21 DIN/100 ASA.m) 24 (21 DIN/100 ASA.m) 24 (21 DIN/100 ASA.m)
Automatic Operation Automatische Bedienung Opération automatique Funcionamiento automático	F4 (ASA 100) 3.3ft–20ft (1m– 6m) F8 (ASA 100) 3.3ft–10ft (1m– 3m)
Angle of Illumination for Leuchtwinkel für Angle d'éclairement pour Angulo iluminado para	35mm lens
Power Source Stromversorgung Alimentation Fuente de energia	4 { AA size 1.5 v batteries AA Größe-1.5 v-Batterie AA Cellule de 1.5 v des piles AA Cell de 1.5 v las baterías
Flash Duration Blitzdauer Durée de l'éclair Duración de destello	Automatic 1/30,000–1/750 { sec. Manual 1/750 { sek. sec. seg.
Recycling Time Blitzfolge Cadence des éclairs Secuencia de destellos	0.5–30 * (Auto) { sec. 10–30 * (Manual) { sek. sec. seg.
Number of Flashes Blitzzahl Nombre d'éclairs Número de destellos	200 * (Manual)
Dimensions Abmessungen Dimensions Dimensions	2-1/4"x3"x3-1/3" { w/o bracket (58x77x85mm) { ohne Zubehörklemme sans le support sin el soporte
Weight Gewicht Poids Peso	7.4 oz { w/o Batteries (210 g) { ohne Batterien sans pile sin baterías

*with alkaline batteries
avec piles alcalines

mit alkalischen Batterien
con baterías alcalinas