

Canon

FLASH UNIT

Model III

Directions for using

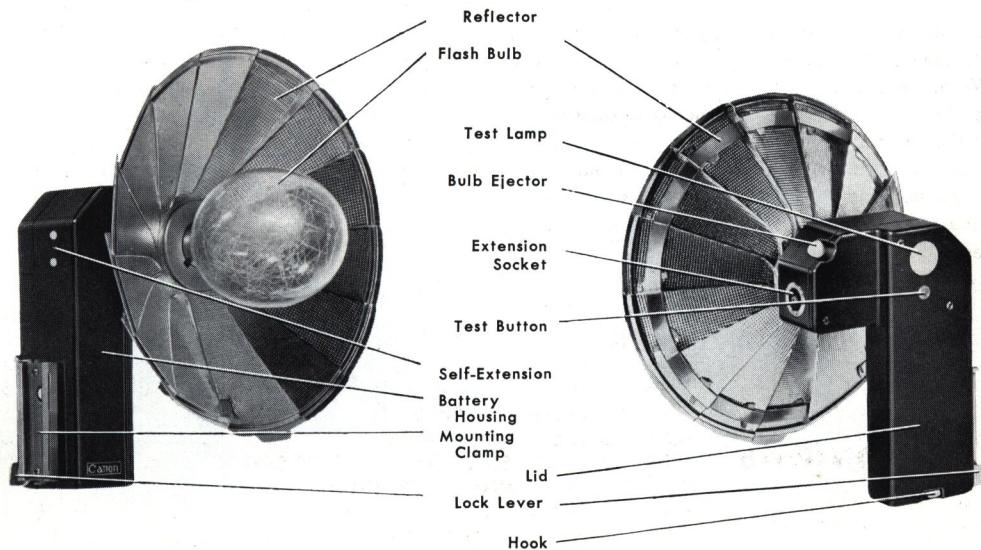
CANON FLASH UNIT MODEL III BC TYPE

Canon Flash Unit Model III is a B-C type, designed in compact pocket size for use with all Canon cameras having a built-in flash synchronizer, such as Model II-F, II-S, IV and IV-Sb. A special rigidly constructed mounting device allows instant and direct mounting to the camera which automatically establishes electrical circuit with the flash synchronizer of the camera, assures perfect contact at all times, cumbersome connecting cord is not necessary. Sturdy battery housing has two outlets; one for off-the-camera flash connection and the other for extension flash unit connection. Five-inch folding-type reflector for midget (bayonet base) flash bulbs reflects uniform light spread. Built-in test lamp provides assurance of sure fire of flash bulbs. Push button bulb ejector is available.

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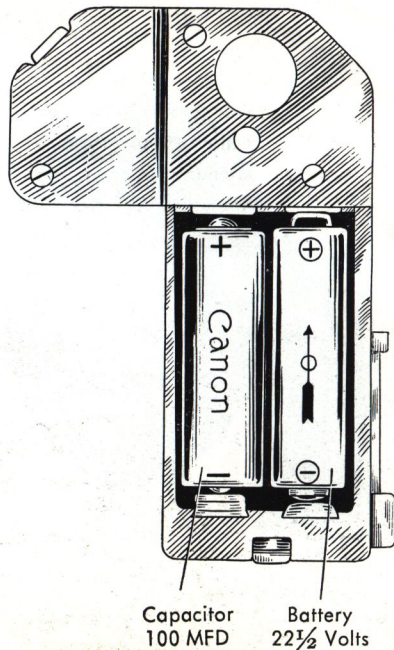
Be sure to use Lens Hood at all times to obtain clear sharp pictures!!



HOW TO LOAD BATTERY

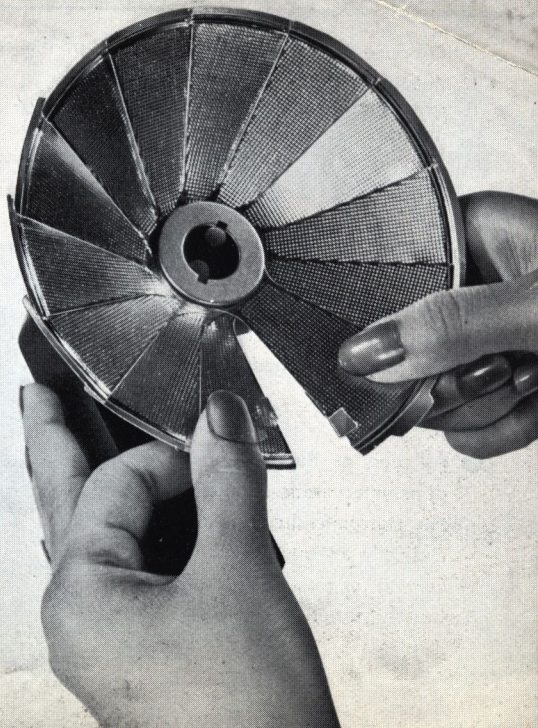
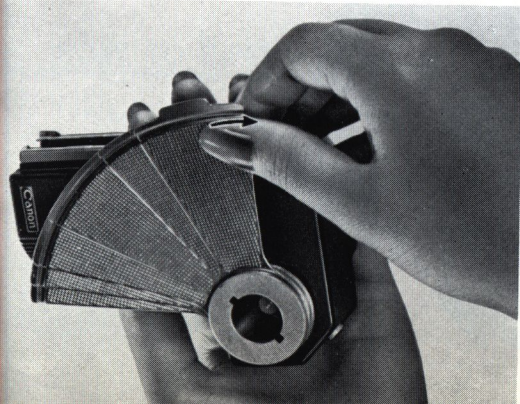
1. Open lid by pressing hook at the base of battery housing.
2. Insert $22\frac{1}{2}$ Volt battery into vacant compartment (right side). Be sure the polarity $\oplus \ominus$ is as shown in the illustration. Capacitor (100 MFD) is already loaded at the left side of the battery housing.

● If the polarity of battery or capacitor is not loaded properly as shown in the illustration the battery will exhaust immediately and quite often the capacitor will puncture.



HOW TO OPEN AND CLOSE THE REFLECTOR

1. Hold the flash unit as shown in the illustration and open the reflector fully in the direction of an arrow, and then connect the ends to hooks provided.
2. To close the reflector unhook the ends and fold it in a reverse direction.

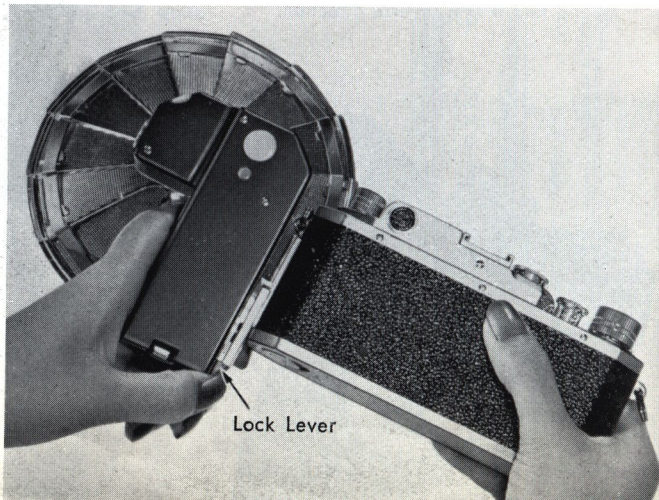


HOW TO MOUNT ON AND DISMOUNT FROM CAMERA

Introduce the flash unit from bottom of the camera to mounting clamp by pressing the lock lever. Make sure it is fully inserted and locked.

To dismount from the camera press lock lever and push up the camera.

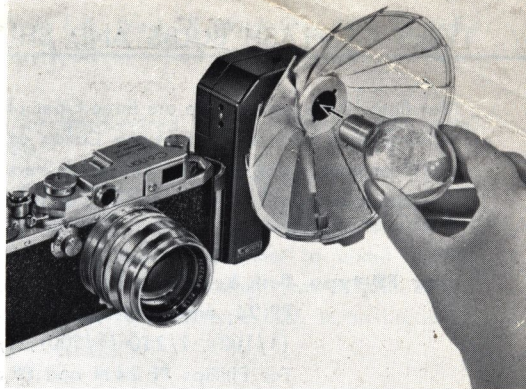
- After the flash unit is properly mounted the entire synchronizing circuit as well as charging circuit are automatically established.
- As soon as the flash unit is dismounted from the camera the charging circuit is automatically opened, thus preventing unnecessary loss of battery power.



HOW TO INSERT FLASH BULB

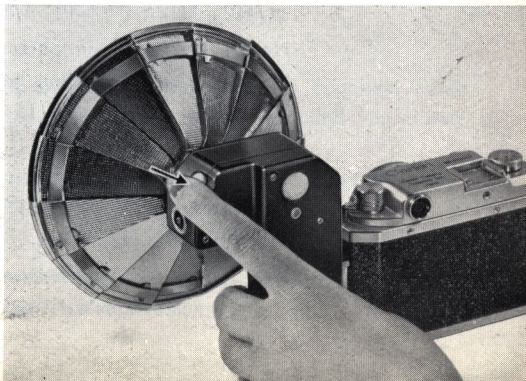
Insert flash bulb into socket by coinciding the grooves of the socket and pins of the flash bulb.

- When shutter protective transparent coating on bulb surface extends too far over to metal base of bulb, flash bulb will not fire. In such case scrape off the coating from two pins on the metal base.



HOW TO EJECT FLASH BULB

To remove the fired flash bulb, simply press the Ejector Button as shown in the illustration and the bulb will snap out from the socket.



TYPES OF FLASH BULBS AND SHUTTER SPEEDS TO BE USED

For flash photography there are three types of flash bulbs, the FP-type designed for use with cameras having focal-plane shutters as the Canon camera, and the M-type and F-type both designed for use with cameras having between-the-lens shutters. The latter two types, however, can be used with the synchronized Canon cameras by using shutter speeds given below.

For FP-type flash bulbs such as Matsuda FP-6, West No. 6, West 6Z, G.E. No. 6, Sylvania FP-26, and Westinghouse No. 6, use one of the shutter speeds 1/15 (1/8), 1/125 (1/100), 1/250 (1/200), 1/500 (1/500), or 1/1000 (1/1000) second.

For Phillips PF 24 N and PF 45 N use 1/15 (1/8), 1/30 (1/25), (1/40), 1/60 (1/60), 1/125 (1/100), 1/250 (1/200), or 1/500 (1/500) second.

Notes: 1. Figures in parentheses are for synchronized Canon cameras with body serial numbers below 169,999.

2. Do not use 1/15 (1/8) sec. on Canon camera Model II-F.

For M-type flash bulbs such as Matsuda M-5, West No. 0, West No. 3, West No. 5, G.E. No. 5, Sylvania Press 25, Phillips PF 3 N, Phillips PF 14 N, and Phillips PF 25 N, use shutter speed of 1/30 (1/25) sec.

Note: Figure in parentheses is for synchronized Canon cameras with body serial numbers below 169,999.

For F-type flash bulbs such as Matsuda F-1, Matsuda F-5, West SF, West SM, West SS, G.E. SM and Sylvania SF, use 1/15 (1/8) or 1/30 with Slow Dial X (1/25 with Slow Dial X).

Notes: 1. Figures in parentheses are for synchronized Canon cameras with body serial numbers below 169,999.

2. Do not use 1/15 (1/8) sec. on Canon camera model II-F.

Although the available shutter speeds for this type of bulbs are comparatively slow the pictures will be taken at a shutter speed equivalent to about 1/200 second, since the flash duration is extremely shorter than the other types of flash bulbs. As it is smaller in size and less expensive than FP or M type flash bulbs it is ideal for general flash photography.

HOW TO DETERMINE f-OPENINGS

In flash photography, f-openings (lens apertures) are determined from a table, "Exposure Guide Numbers," given on a carton in which the flash bulbs are contained. It is recommended you closely follow the table for f-openings of your lens.

CIRCUIT TEST

Both the flash synchronizing circuit built within the camera and the flash unit circuit can be checked with the use of the Test Lamp built in the flash unit as described on next page :

1. Flash Synchronizer Test

Mount the flash unit with empty flash bulb to your camera and release the shutter. If the Test Lamp blinks then it proves that the flash synchronizing circuit is in good condition. In case the film is loaded in the camera use "Control Double Exposures" method described in the camera instruction booklet.

2. Flash Unit Test

Keep the flash unit mounted to the camera and now load a flash bulb to the flash unit. Press the Test Button and if the Test Lamp blinks it proves that the flash unit is in good condition.

Now you are sure that the flash unit and the camera are in perfect condition.

In either test, should it does not blink, check the following points and repeat the tests:

1. See whether the flash unit is mounted to the camera properly and locked.
2. See whether the flash bulb is fully inserted to the socket and contact is properly made. It could be an inferior contact due to shatter protective transparent coating extending too far over to metal base of the bulb. In such case scrape off the coating from two pins on the metal base. Try another flash bulb.
3. Open the battery housing and see whether the contact springs are snugly with terminals of battery and capacitor, and $\oplus \ominus$ positioned correctly. Try with fresh battery.

When it still does not blink send the flash unit or the camera, whichever may be in trouble, to the manufacturer or its authorized repair agents for repair.

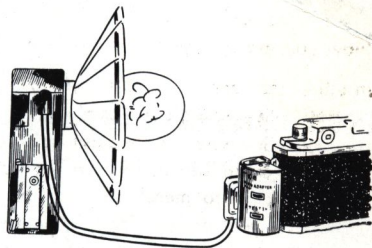
OFF-SYNCHRONIZATION

When you discover the flash lighting is not uniform throughout the entire area of the film frame after developing, the cause of it could be one of the reasons described on the following page:

1. When using the High Shutter Speeds, the Slow Shutter Speed Dial might have been set to speed other than 30 (or 25). It must be set to 30 (or 25) as instructed in the camera instruction booklet.
2. When using the Slow Shutter Speeds the High Shutter Speed Dial might have been set to speed other than 30-1 (or 25-1). It must be set to 30-1 (or 25-1) as instructed in the camera instruction booklet.
3. Shutter speed other than that given on page 7 or 8 might have been used for the flash bulb you used.

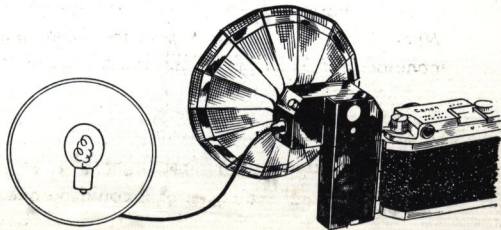
HOW TO EXTEND THE FLASH UNIT

In case it is desired to extend the flash unit away from your Canon camera it is recommended to use Self-Extension Adapter and Self-Extension Cord as shown in the illustration, which are available separately as flash unit accessories.



SIDE LIGHTING UNIT

When additional lighting is desired the new pocket size Canon Side Lighting Unit, Model III must be used; no other make will operate properly with the flash unit.



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