

**CANON CAMERA COMPANY, INC.**  
TOKYO JAPAN



Directions for using



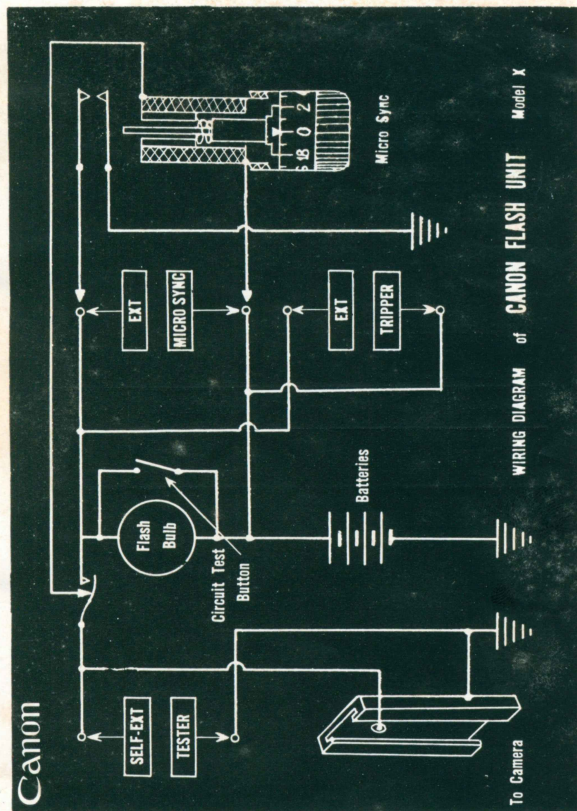
**Canon**

**FLASH  
UNIT**

**Model X**

FOR PERSONAL USE ONLY  
[thecanoncollector.com](http://thecanoncollector.com)

The CANON FLASH UNIT Model X has been precision built by highly trained craftsmen using the finest of raw materials. Special electrical contacts give a minimum resistance so that positive and accurate circuit is ensured at all times and the batteries will attain as long a life as possible. These units have been principally designed for use with synchronized CANON CAMERAS and will function perfectly with other synchronized cameras in conjunction with special CANON FLASH UNIT BRACKET (see page 17).



## BATTERY POWER and FLASH BULBS

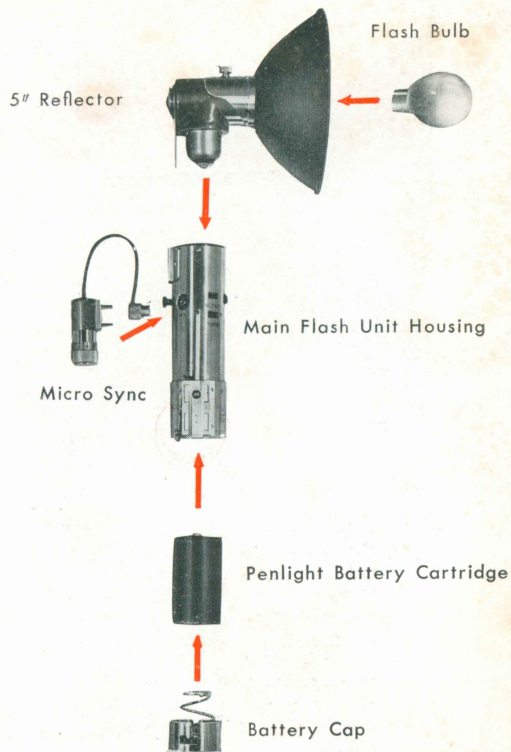
The number of flash bulbs that can be discharged simultaneously in perfect synchronization depends on the total power of the batteries used.

The following is a table showing the maximum number of main and extension flash bulbs that can be employed at any one time with a synchronized Canon Camera.

Amperes	3 to 4	4 to 6	6 to 8	8 to 10	over 10
Bulbs	1	2	3	4	5

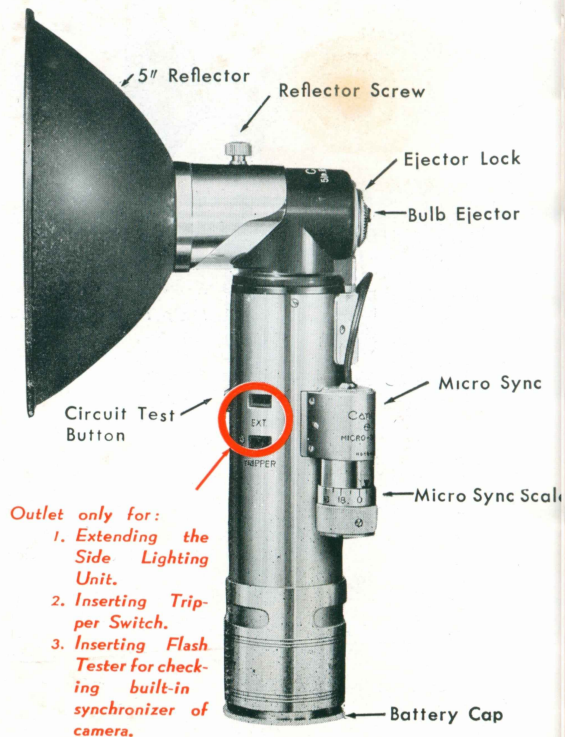
- Note :**
1. Use only fresh batteries having not less than 4.5 volts, 3 amperes.
  2. Never use current from the mains (house current).
  3. When the MICRO SYNC is not used one additional bulb may be used above the numbers shown.

## HOW TO ASSEMBLE

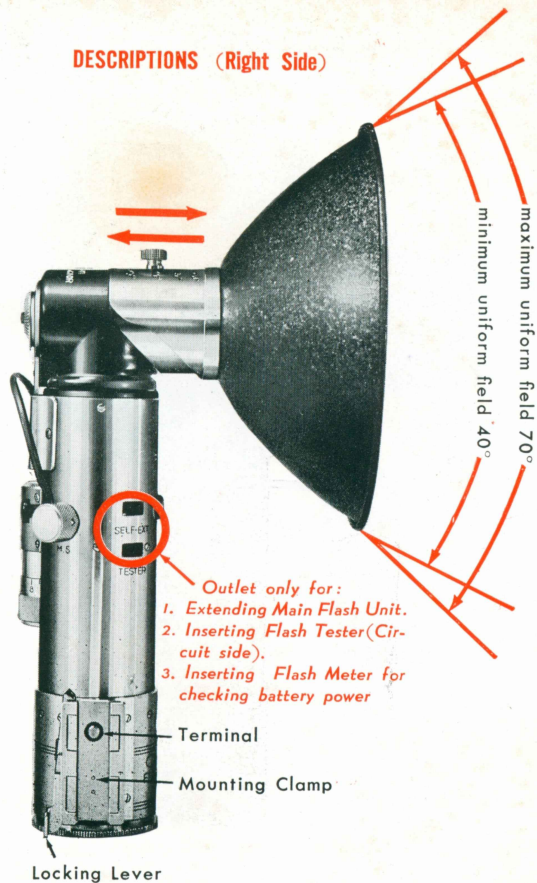




## DESCRIPTIONS (Left Side)

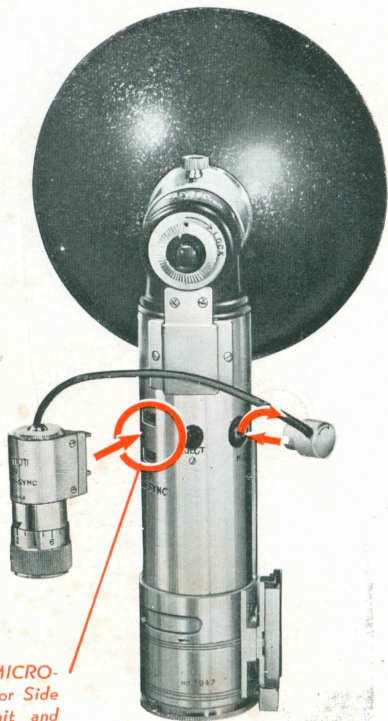


## DESCRIPTIONS (Right Side)





## HOW TO MOUNT MICRO SYNC



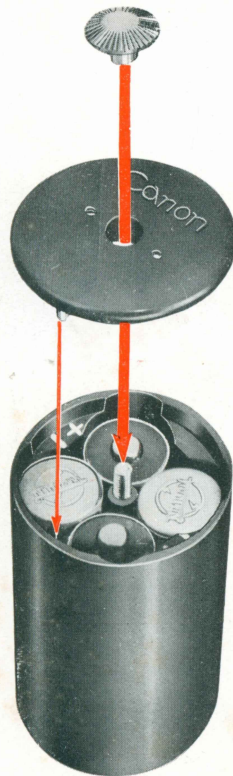
Outlet for MICRO-SYNC and for Side Lighting Unit and Flash Tester when MICRO SYNC is not in use.

## HOW TO LOAD PENLIGHT BATTERY CARTRIDGE

1. Load 4 fresh penlight batteries as illustrated.
2. Replace the lid as shown.
3. Screw in the milled screw tightly.

### Note :

Remove batteries from the cartridge when not intended to use for a week or more.

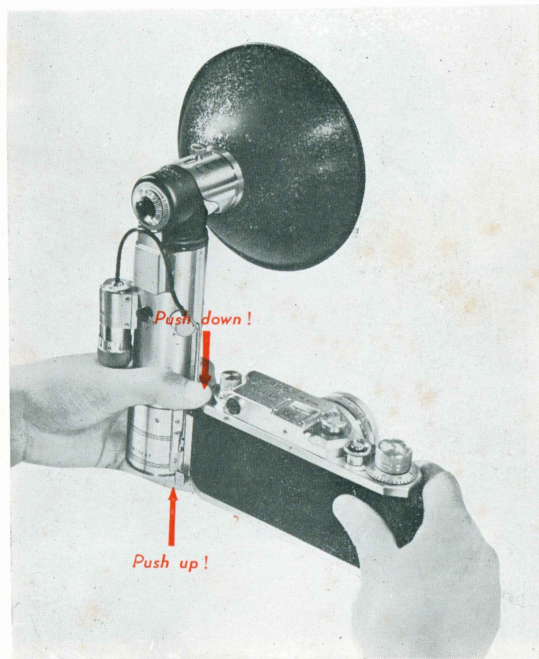


## HOW TO MOUNT ONTO CAMERA

**1st Step** —Introduce Flash Unit from below.



**2nd Step** —When properly housed terminals will coincide and Lock clicks over camera bracket.



## HOW TO DISMOUNT FROM CAMERA

### 1st Step



### 2nd Step





## MICRO SYNC and EXPOSURE GUIDE NUMBERS

At certain shutter speeds and with different types of flash bulbs, the MICRO SYNC is essential to ensure perfect synchronization.

Supplied with this booklet is a set of cards which contain (1) the guidance of how to set the scale of the MICRO SYNC according to the speed of the shutter and the types of flash bulbs in common use and (2) exposure guide numbers.

Example: When a film speed of 80 (tungsten) is used and a shutter speed of 1/100 sec. is intended (see illustration below), set the MICRO SYNC Scale at 2. And divide guide number 140 by distance in feet between the flash bulb and subject for f-stop. In case of meter divide 40 by distance in meter.



**Note:** As there are two tables, one side for "feet" and the other side for "meter" for each flash bulb, make sure to use proper table.

### EXPOSURE GUIDE NUMBERS FOR G. E. No. 6

(Based on the use of Canon Reflectors)

LB	SHUTTER SPEED	MICRO SYNC	FILM SPEED (ASA Tungsten)					
			5-8	10-16	20-32	40-64	80-125	160-250
No. 6	1/8	off						
	1/25	15						
	1/40	10						
	1/60	6						
	1/100	2					140	
	1/200	0						
	1/500	off						
	1/1000	"						

GUIDE NUMBER ÷ DISTANCE (in ft) = f opening

Make sure to set Slow Shutter Speed Dial to 25 when Fast Shutter Speed Dial is used.

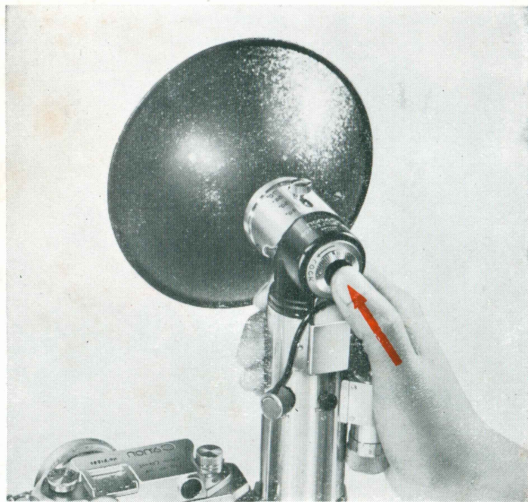
## EJECTOR LOCK

Lock the Ejector Lock to prevent accidental ejecting if not intended to use immediately.



## BLUB EJECTION

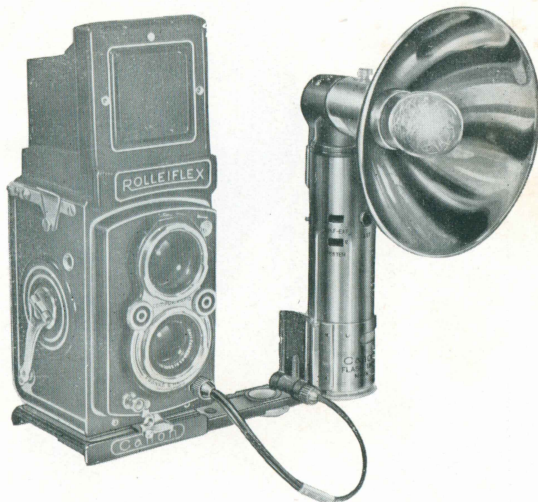
Discard fired flash bulb by pressing the Ejector.



*The end of instructions*

## FLASH UNIT ACCESSORIES

### CANON FLASH UNIT BRACKET



By using the bracket—Flash Unit Bracket R—the Canon Flash Unit Model X can be used with any reflex type camera having built-in flash synchronizer. Similar bracket—Flash Unit Bracket S— is also available for camera other than reflex type; such as Nikon, Leica IIIf, Contessa 35, Super Ikonta, Agfa Karomat, etc.

CANON

**SIDE LIGHTING UNIT, Model X**



CANON

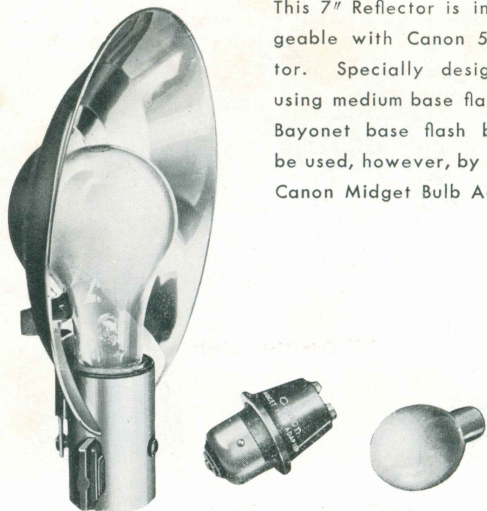
**SELF EXTENSION ADAPTER**

By using the CANON SELF EXTENSION ADAPTER the Flash Unit can be extended away from the camera.





**CANON**  
**7" REFLECTOR**



This 7" Reflector is interchangeable with Canon 5" Reflector. Specially designed for using medium base flash bulbs. Bayonet base flash bulb can be used, however, by inserting Canon Midget Bulb Adapter.

**CANON**  
**FLASH TESTER**

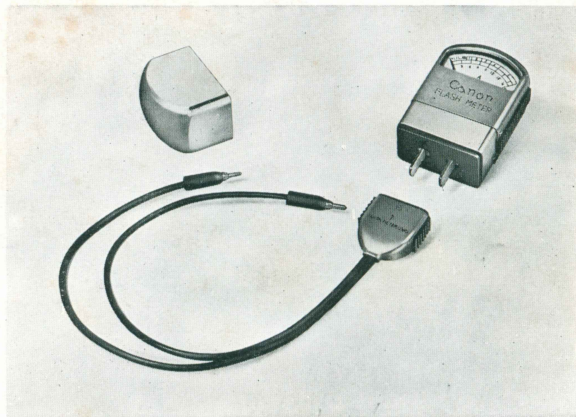


This Tester is designed to check :

1. Flash bulbs.
2. Built-in Flash Synchronizer.
3. Extension circuits.

One penlight battery is loaded as a power source.

CANON  
FLASH METER



This meter is designed to check total battery power by plugging into Flash Unit or individual battery power by using Terminal Cord provided with the meter.

CANON  
ADDITIONAL BATTERY CASE A

This battery Case is used to load three regular (size D) batteries when more power and life is desired.

Recommend especially when 2 or more Side Lighting Units are used.

