

## Instructions



# FLASH UNIT

## Model B-II

# Canon

The Canon FLASH UNIT Model B-II is designed for use with all models of the Canon Cameras and cameras similar to the Canon. It is an improved model of Model B-I; added features are (1) provision made for using Self-Timer and (2) Photoflash Guide Number Card mounted on the back of the Flash Unit for quick and easier determination of f-setting.

It has undergone a series of rigid mechanical and electronic tests to insure reliable and efficient performance and the synchro-mechanism is set and sealed at the factory so that synchronization to shutter speeds of 1/60 to 1/200 of a second can be retained at all times.

Flash bulbs to be used for this Flash Unit should be of a focal-plane type as listed on the Guide Number Card. Bulbs for lens-shutters are not recommended.

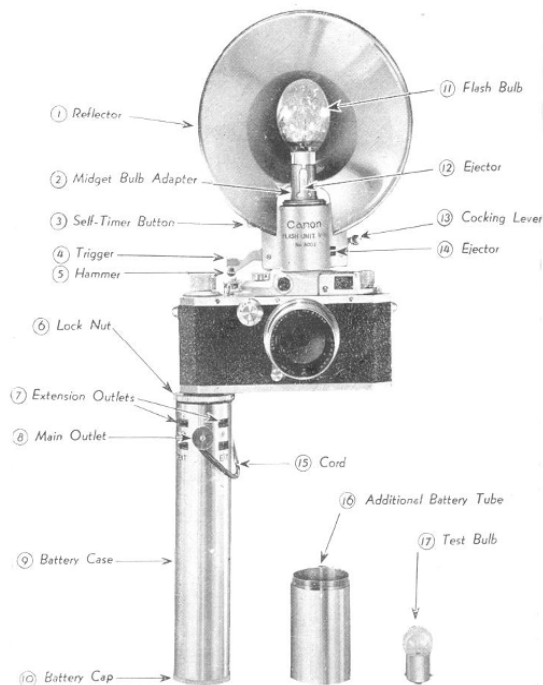
Synchro-mechanism should never be tampered with under any circumstances. If your Flash Unit indicates consistent off-synchronization it will be immediately repaired or exchanged for a new one depending on the condition of your Flash Unit.

## HOW TO MOUNT

Mount the Flash Unit to the camera by sliding into the Accessory Clip as far as it will go. Next screw the Battery Case into the tripod socket and then plug the Cord into the Main Outlet.

## DESCRIPTIONS

- ① **Reflector** This height-adjustable reflector is designed to spread light uniformly over an area of 65 degrees in angle.
- ② **Midget Bulb Adapter** Needed when midget bulb (bayonet-base bulb) or the Test Bulb is used.
- ③ **Self-Timer Button** The Trigger will be depressed internally by using Self-Timer mounted on this button.
- ④ **Trigger** The Synchro-mechanism and the Hammer are actuated simultaneously by depressing this Trigger.
- ⑤ **Hammer** Strikes the Shutter Release Button when the Trigger is depressed.
- ⑥ **Lock Nut** This Nut is adjusted to face the Main Outlet to a desired direction.
- ⑦ **Extension Outlets** Used for extending the Canon Side Lighting Units.
- ⑧ **Main Outlet** Power source for the UNIT.
- ⑨ **Battery Case** Holds two regular size (size D) batteries.
- ⑩ **Battery Cap** Caps the Battery Case or the Additional Battery Tube.
- ⑪ **Flash Bulb** See the Card for focal-plane bulbs that can be used for this Unit.



- ⑫ **Ejector** To eject midget bulbs or the Test Bulb.
- ⑬ **Cocking Lever** Cocked each time before depressing the Trigger.

⑭ **Ejector** To eject medium-base bulbs or the Midget Bulb Adapter.

⑮ **Cord** To be plugged into the Main Outlet.

⑯ **Additional Battery Tube** In order to discharge three or more flash bulbs at the same time extra battery is needed. This Tube is used to extend the Battery Case to hold three batteries.

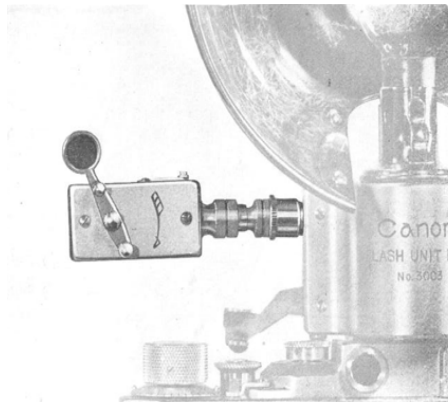
⑰ **Test Bulb** This bulb is used together with the Midget Bulb Adapter for checking electrical connection.

#### OPERATION

1. Wind the camera.
2. Insert a flash bulb. For midget bulb use Midget Bulb Adapter; for medium base bulb disregard the Adapter and insert direct into socket.
3. Cock the Cocking Lever. ⑫
4. Determine f-setting from the Table of Photoflash Guide Numbers.
5. Depress the Trigger ④ while sighting through the viewfinder.

#### CIRCUIT CHECKING

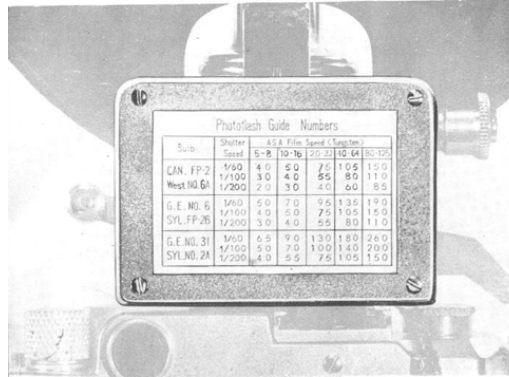
1. Insert the Test Bulb together with the midget Bulb Adapter into the socket.
2. Cock the Cocking Lever ⑫.
3. Depress the Trigger ④ and see if the Test Bulb lights. If it fails to light see whether the bulb is inserted properly or the Plug inserted correctly into the Main Outlet, and check whether batteries are loaded properly. If this still fails to light the Test Bulb the Flash Unit should be returned to the manufacturer for complete check and service.



#### SELF-TIMER

When you desire to put yourself in a flash picture this Flash Unit can be discharged by mounting Canon Self-Timer onto the Self Timer Button. Since the Button is made identical to Shutter Release Button of the Canon Camera Models III and IV it is unnecessary to readjust the Self-Timer.

The use of sturdy tripod is recommended.



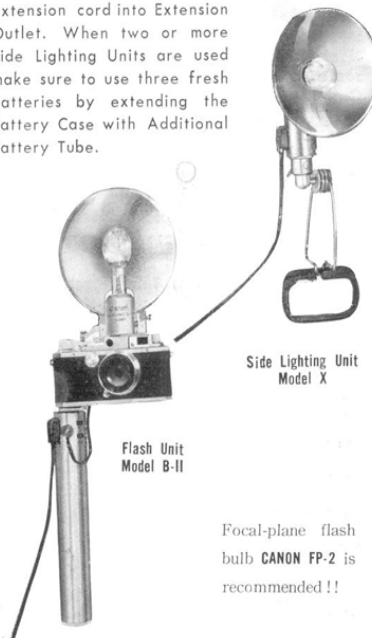
#### PHOTOFLASH GUIDE NUMBERS

In photoflash photography an exposure meter (light meter) is not used for determining a f-setting, instead the Photoflash Guide Numbers are used. If, for example, a CANON FP-2 flash bulb is used at a shutter speed of 1/100 second for film of tungsten speed of 20, a GUIDE NUMBER will be 55 (from the table). When object distance is 10 feet f-setting will be f:5.5

$$f = \frac{\text{GUIDE NUMBER (55)}}{\text{DISTANCE (10ft)}} = 5.5$$

Use f:5.6.

The Canon Side Lighting Unit can be used by inserting the extension cord into Extension Outlet. When two or more Side Lighting Units are used make sure to use three fresh batteries by extending the Battery Case with Additional Battery Tube.



Focal-plane flash bulb CANON FP-2 is recommended!!

Canon Camera Co., Inc.

Tokyo Japan