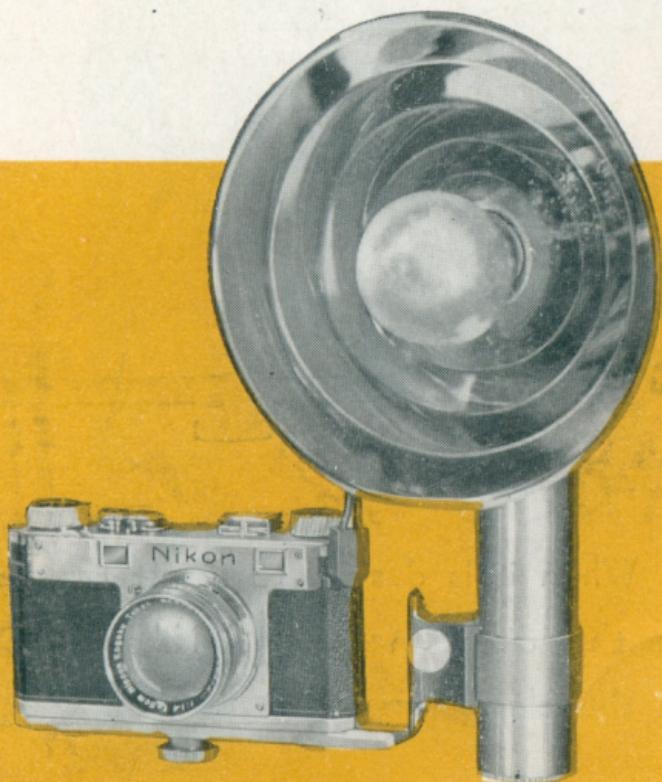
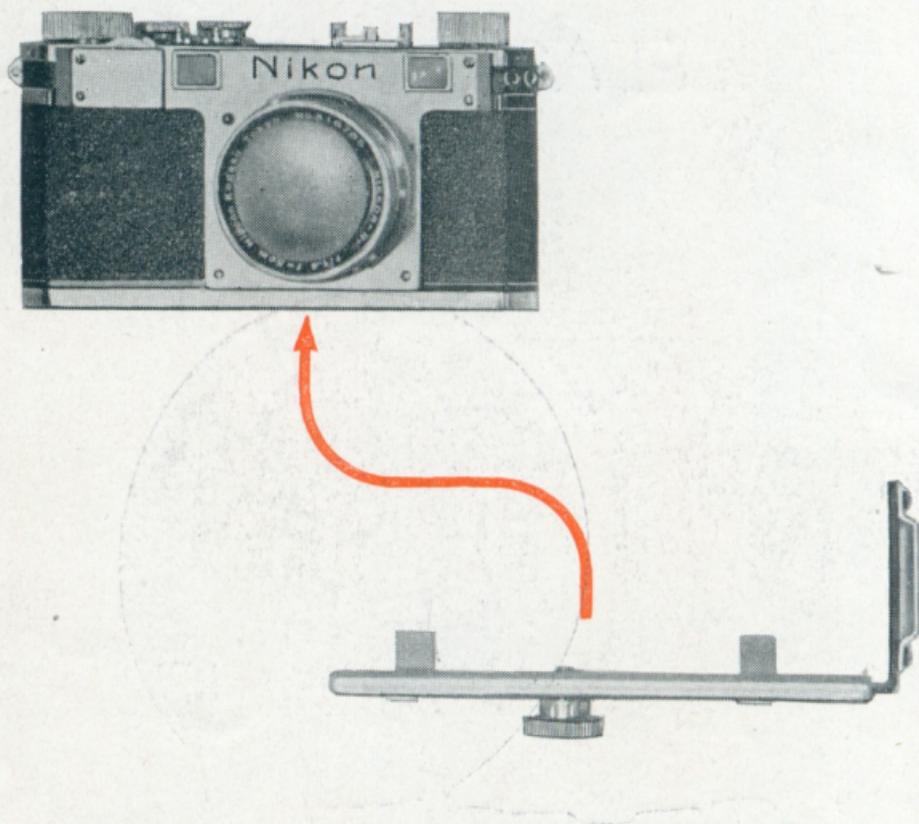


Instructions for using  
Nikon  
FLASH UNIT

Model B. C. B.

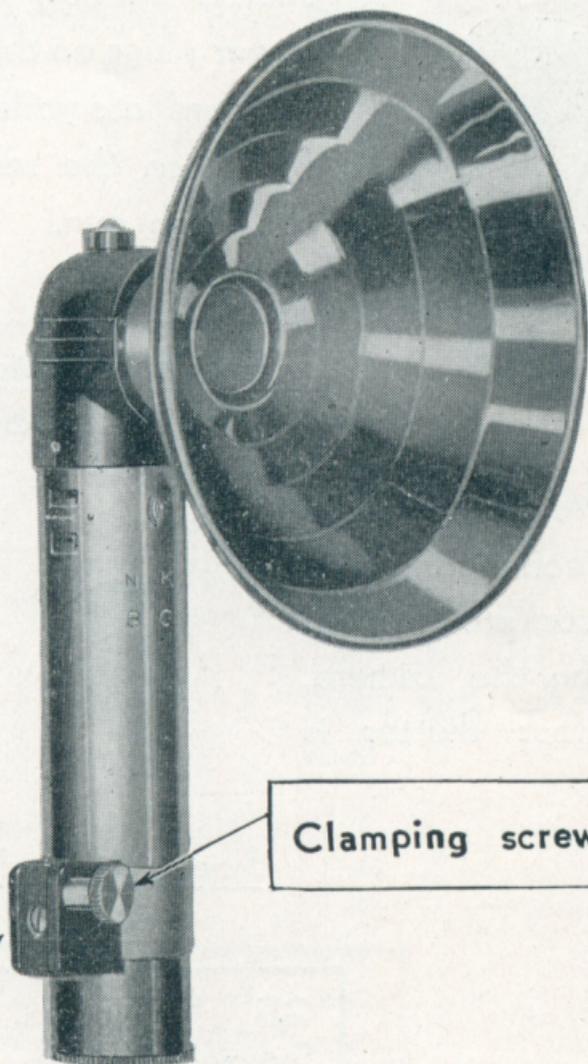


## MOUNTING

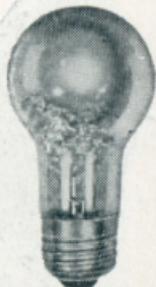


When it is desired to adjust the height or change the direction of the Nikon Flash Unit, loosen the clamp screw. \_\_\_\_\_

The Nikon flash gun can be fixed to the camera with the ever-ready carrying case attached.



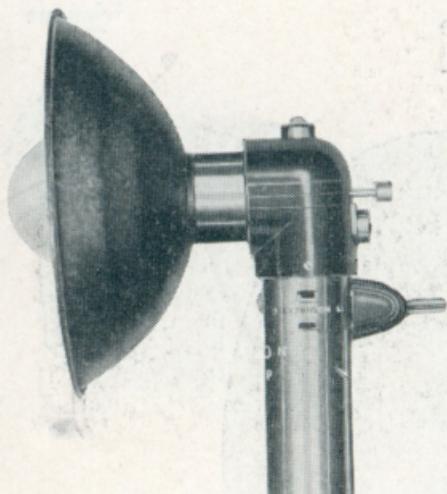
Medium  
Base  
bulb



Midget  
lamp  
adapter



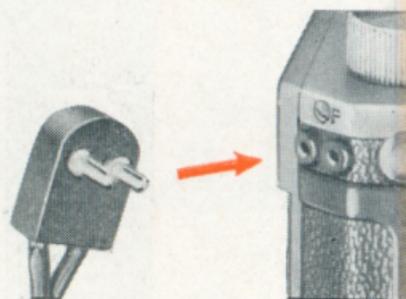
Midget  
lamp



For both fast and slow shutter speeds, thrust the larger plugs on the connecting cord into yellow sockets found on the rear side of the flash gun.

For fast shutter speeds  
1/20-1/500 sec.

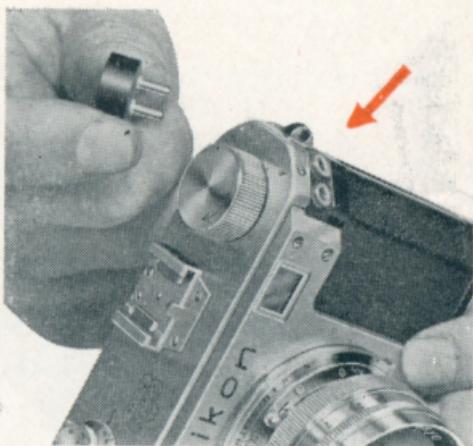
Push the smaller plugs on the connecting cord into sockets marked "F" on the camera, when fast shutter is used.



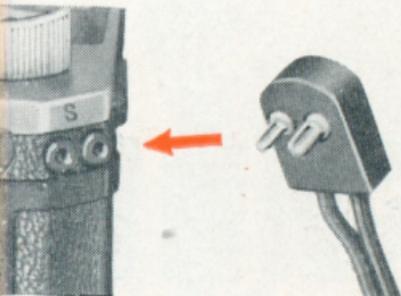
Focal plane shutter bulb  
must be used

GE	No. 6	No. 31
Sylvania	FP 26	No. 2A

And push the smaller plugs  
on the connecting cord  
into sockets on the  
camera.



For slow shutter speeds  
1-1/8 sec.

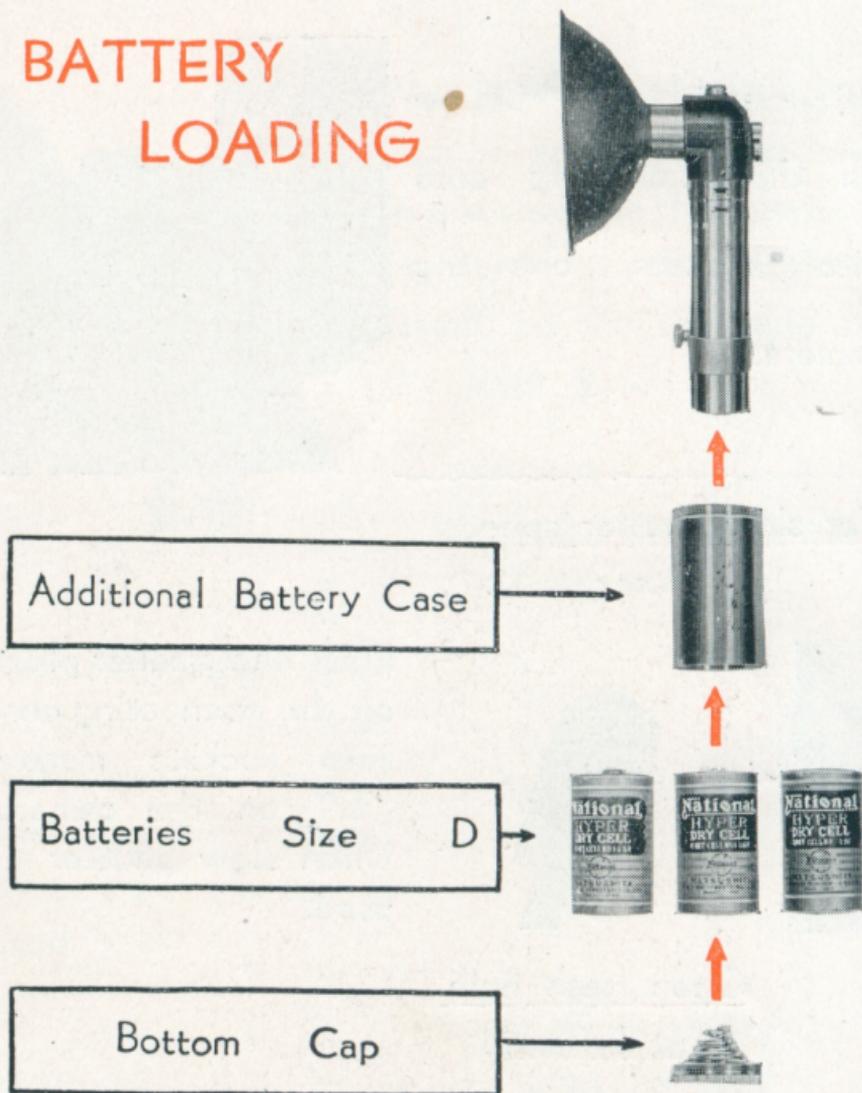


Push the smaller plugs  
on the connecting cord  
into sockets marked  
"S" on the camera,  
when slow shutter is  
used.

Open flash bulb  
must be used

GE	No. 5	No. 11	etc.
Sylvania	Press 25,	40	etc.

# BATTERY LOADING



For a shutter speed of  $1/500$  of a second or when more than two flash bulbs are consumed on the circuit, increase the battery voltage to not less than 4.5 volts.

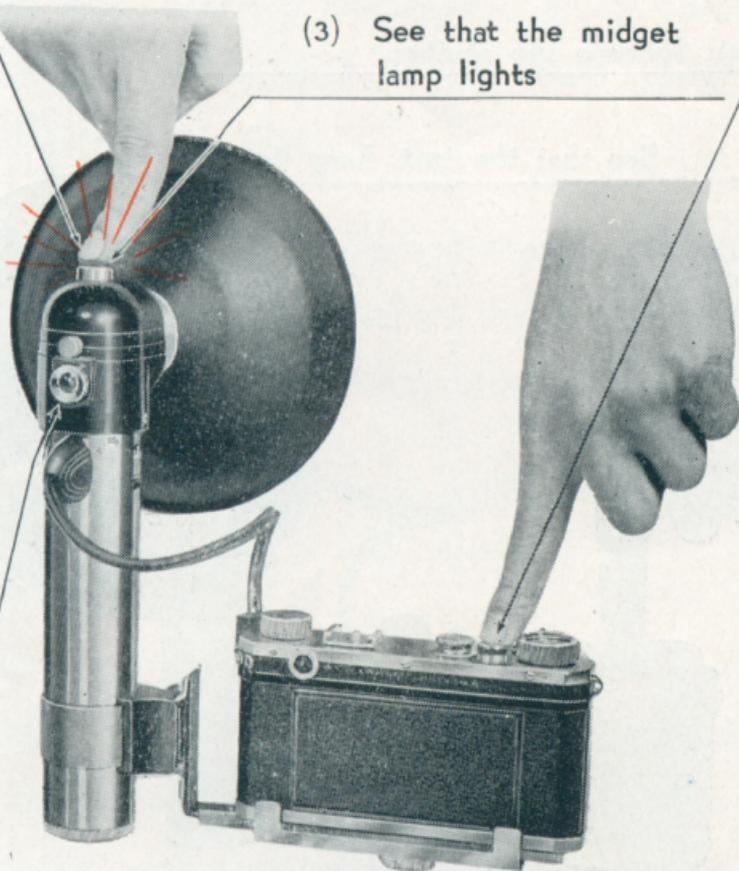
## CIRCUIT & BATTERY CHECK

Check Flash Unit and camera synchronizer circuit before shooting.

(1) Push the midget lamp (a)

(2) Release the shutter.

(3) See that the midget lamp lights



(4) Check battery by pushing this midget lamp (b)

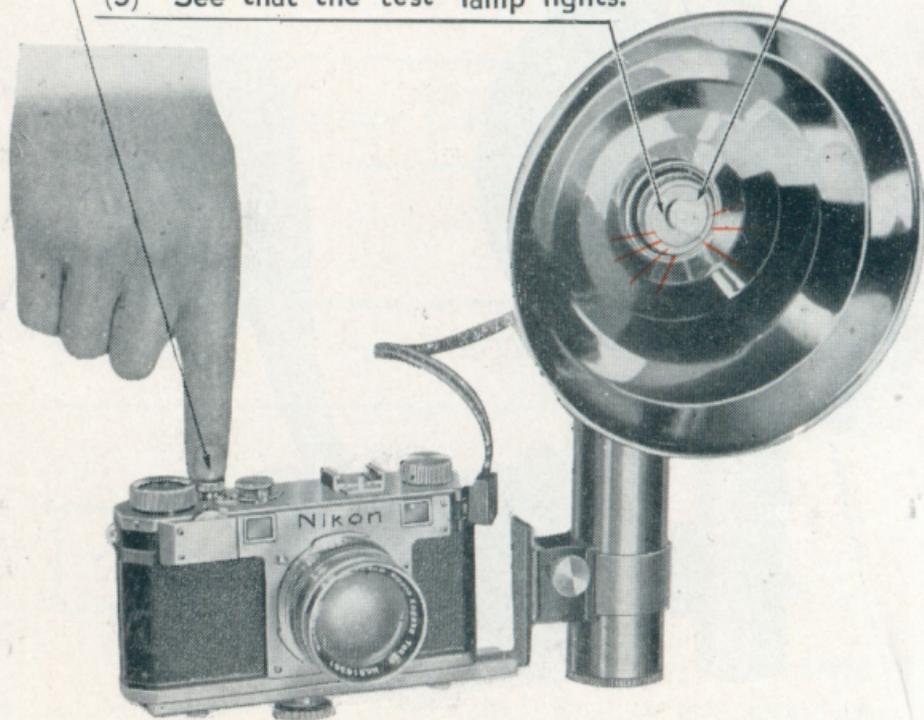
## SOCKET CHECK

To check flash bulb socket connection:

(1) Put the test lamp into the socket

(2) Release the shutter.

(3) See that the test lamp lights.



1. In the above tests, if the midget lamp or test lamp is not lighted, check the filament which may be found snapped.

To change the damaged midget lamp for a new one, unscrew the plastic piece containing the lamp. Use a 6.3 volt bulb used in a radio set.

2. The snapped midget lamp bulbs do not interfere with the circuit; therefore even if they do not light in the test, flash synchronization will work.
3. If undamaged midget lamp bulbs are not lighted, check batteries.
4. After the circuit and battery tests, and the socket connection found complete, the camera is ready for flash shooting. Wind up the shutter and push the release button, and the flash synchronizes with the shutter release.

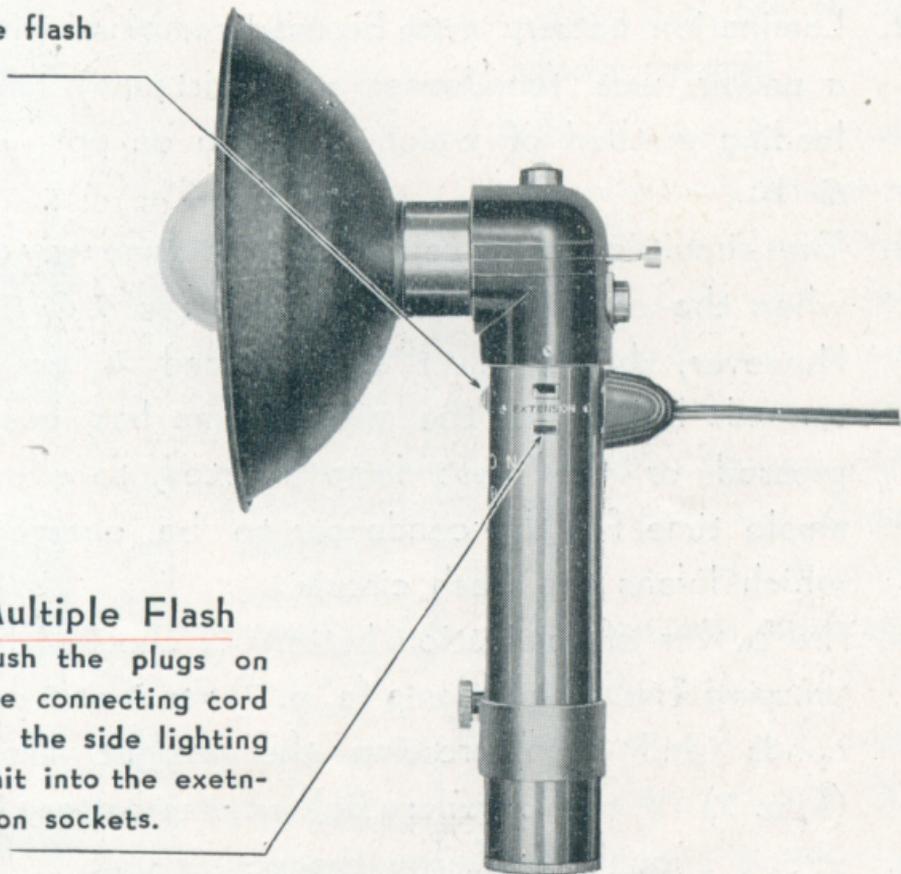
# EJECTING used bulbs



## INDEPENDENT UNSYNCHRONIZING FLASH AND MULTIPLE FLASH

### Independent unsynchronizing Flash

Press the trigger  
down to shoot  
the flash



### Multiple Flash

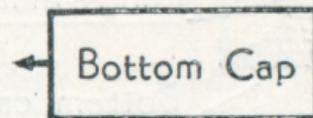
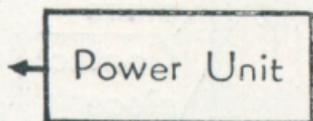
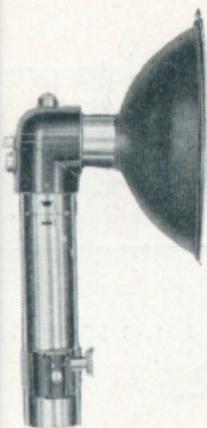
Push the plugs on  
the connecting cord  
of the side lighting  
unit into the extension  
sockets.

## LAMINATION BATTERY

For multiple flash, lamination battery is recommended to ensure firing.

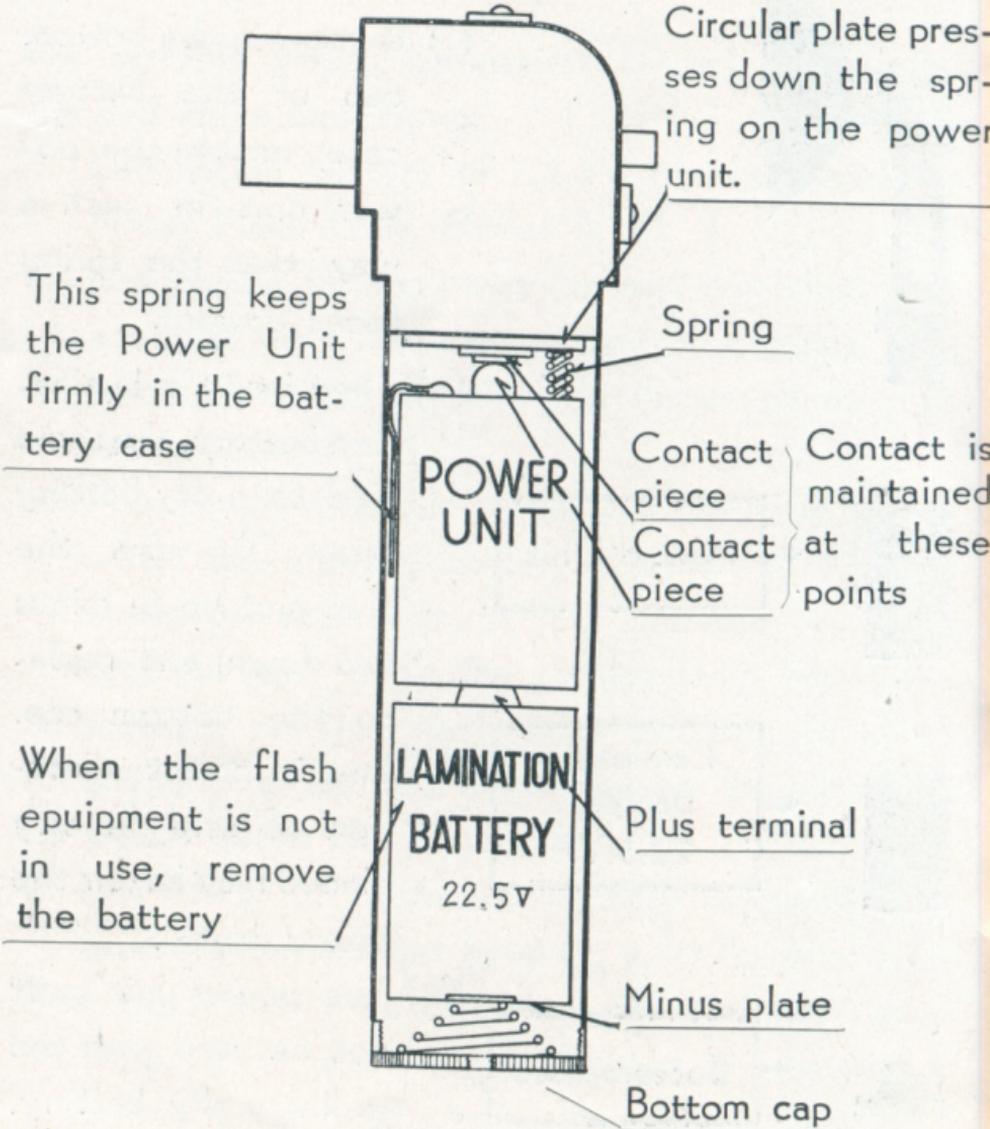
1. Lamination battery of 22.5V can be used for Nikon Flash Unit, Model B. C. B.
2. Lamination battery must be used combined with a power unit (condenser and resistance), the loading method of which is shown on pp 13 & 14.
3. The circuit check is carried out the same way as when the ordinary battery is used (pp. 7 & 8). However, shutter must be released 4 or 5 seconds later after the midget lamp has been pressed or the test lamp inserted, to allow ample time for the condenser to be charged, which livens the flash circuit.
4. The power of lamination battery is checked by pressing the midget lamp (a, p. 7) for 4 or 5 seconds and then pressing the midget lamp (b, p. 7). If the lamps are lighted, the battery is strong enough to charge the power unit.

## LOADING THE LAMINATION BATTERY



- (1) Removing the bottom cap of the battery case, encase the power unit in such a way that the spring faces upward.
- (2) Then insert a lamination battery, the same size as a dry battery (size D), with the plus end up & minus end down, and replace the bottom cap. The incorrect direction of the battery placed may impair the power unit.
- (3) The power unit must not be used with the ordinary dry battery.

# CONTACT OF POWERUNIT & LAMINATION BATTERY



## REMARKS

1. The flash lamp is automatically lighted with the release of the shutter button, which must not be touched until all is ready.
2. Before the flash bulb is inserted, make sure that the winding of film is in the "advance" direction indicated by "A" on the camera top. When the film winding is in the "reverse" direction indicated by "R", the circuit will have already been closed without the shutter being released, so that the flash bulb will go off instantly when it is inserted.
3. The body of camera and Flash Unit must be electrically insulated as the flash circuit is not earthed.  
In pushing the flash bulb into the socket care must be taken so that the base of the bulb does not touch any other part than the inside of the socket
4. Voltage of lamination battery must not exceed 22.5V, if it does, the power unit may be demaged.
5. A slight electric shock from the lamination battery when the hand is not dry is harmless



**NIPPON KOGAKU K. K.**

SHINAGAWA, TOKYO