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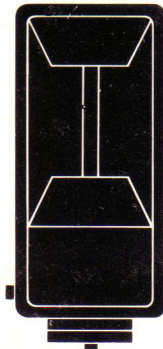
Minolta

MINOLTA MEANS BETTER PICTURES

EP204 E-B1

PRINTED IN JAPAN

MINOLTA ELECTROFLASH P



OWNER'S MANUAL



FEATURES

This efficient electronic flash unit, specially designed for use on the Minolta Hi-matic F and Hi-matic 5 cameras, features:

- Extreme compactness
- Cordless, hot-shoe convenience
- Automatic switch-on/off when attached/removed from camera

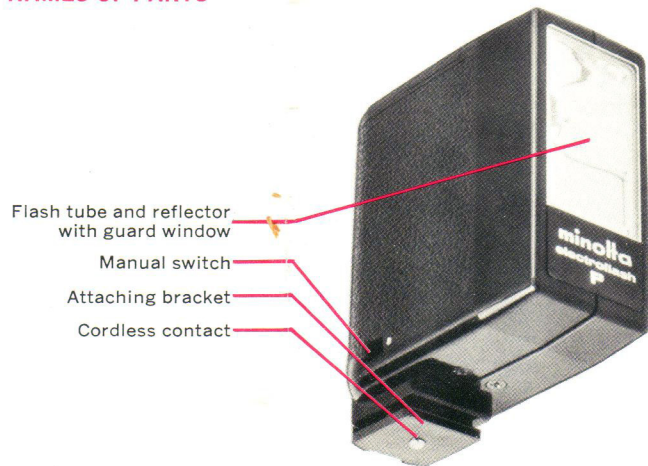
The Electroflash P can also be used with any camera having a direct-contact hot shoe.

SPECIFICATIONS

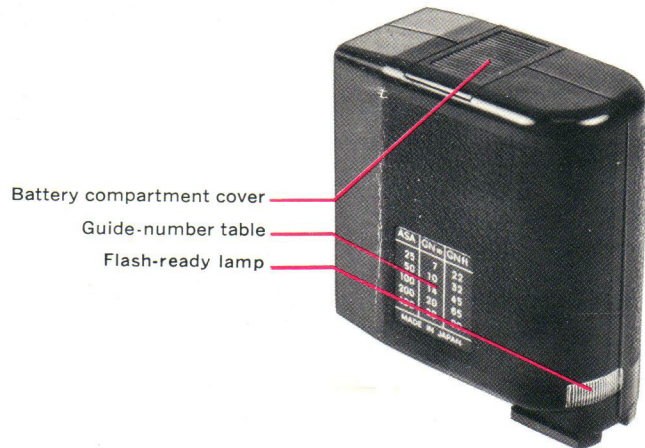
- Power source: Direct current only from two penlight (AA-size) 1.5v non-rechargeable alkaline-manganese or sealed carbon-zinc batteries
- Number of flashes per set of batteries: Up to 150 with alkaline batteries; up to 40 with carbon-zinc batteries
- Guide number: With ASA 100 film, 14 for calculating in meters, 45 for calculating in feet
- Recycling time: Approx. 10 seconds; monitor lamp comes on to indicate recycled condition
- Sync. contact: Direct, "hot-shoe" contact only; no cord
- Flash duration: 1/2000 sec.
- Color temperature: Balanced for daylight color film
- Size and weight: 68mm (2 $\frac{3}{8}$ in.) high x 31mm (1 $\frac{1}{4}$ in.) wide x 60mm (2 $\frac{3}{8}$ in.) deep, 85g (2.98 oz.) without batteries
- Others: Unit automatically switched on by attaching to camera and switched off when removed; manual switch also provided for use when installed on camera; guide number table on side of unit

NAMES OF PARTS

2



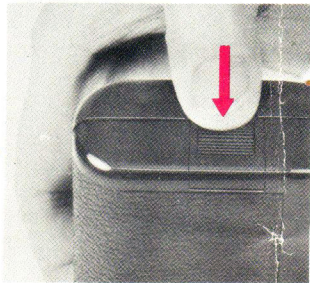
3



INSTALLING BATTERIES

4

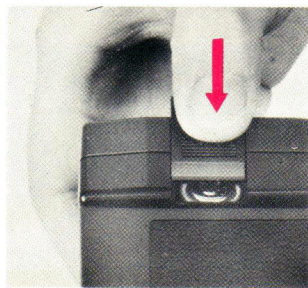
1. Remove battery compartment cover by sliding it toward side of unit on which manual switch is located.



2. Insert two batteries (see specs. p. 1), making sure that plus (+) and minus (-) ends of batteries are positioned as indicated inside battery compartment.



3. Replace cover by aligning carefully, depressing ends of batteries slightly with it, and sliding it toward guide-numberable side of unit until securely in place.



CAUTION:

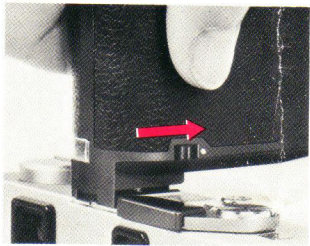
- This flash unit is designed to use only non-rechargeable alkaline-manganese or sealed carbon-zinc batteries as specified. Do not use nickel-cadmium or other rechargeable batteries as this may seriously damage its solid state electronic components.
- When monitor lamp fails to light within a reasonable time with flash unit attached to camera and manual switch in on position, replace both batteries with fresh ones at the same time.
- Battery contacts should not be touched with the fingers and should be cleaned with a dry rough cloth before insertion.

5

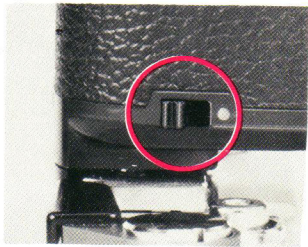
OPERATION

6 Mounting on Camera

Simply slide attaching bracket of flash unit all the way into the "hot-shoe" of any camera wired for cordless flash. This automatically switches the unit on if manual switch is in the on position (near the dot).



Removing unit from camera automatically switches the unit off. The manual switch should be set in the off position (away from the dot) to conserve batteries whenever the unit is attached to the camera but you are not taking pictures.



Setting Sync. Delay and Shutter Speed

With cameras having a sync. delay selector, set it at the "X" position.

Lens Aperture

1. With cameras featuring "easy-flash" or "flashmatic" system, simply set the applicable guide number (GN) at the appropriate place on the camera, and lens aperture is automatically adjusted by focusing your subject.



2. With cameras not so equipped, find the guide number for the ASA film speed and measuring unit (m or ft) in use in the table on side of flash unit. Then divide this GN by the numerical distance (in meters or feet as appropriate) from flash to subject. The result is the F-number at which you should set your lens.

NOTE:

- For film speeds intermediate to those listed, use the nearest one that experience shows will yield desired exposure.
- For dark subjects or in poor light-reflecting conditions (such as outdoors at night or in dark surrounding indoors), it is recommended that the lens be opened a half-stop or full-stop more than indicated by the GN calculation.

Recycling

Do not attempt to fire flash when monitor is not glowing.

Daylight Flash

To determine flash-to-subject distance for properly balanced exposure with non-flashmatic cameras for many subjects that are backlighted or in shadow in daylight, first determine and set the applicable F-number (lens aperture) as indicated by an exposure meter. Then divide the guide number by this F-number. The resulting figure is the proper distance between flash and subject.

Minolta Camera Co., Ltd., 18, 4-chome, Shiomachidori, Minami-ku, Osaka, Japan
Minolta Corporation, 200 Park Avenue South, New York, N.Y. 10003, U.S.A.
Minolta Camera Handelsgesellschaft m.b.H., 2 Hamburg 1, Spaldingstrasse 1, West Germany
Minolta Hong Kong Limited, D'Aguilar Place, D'Aguilar Street, Hong Kong