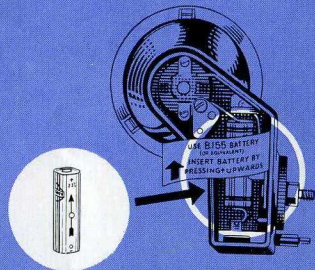


HOW TO USE YOUR

BROWNIE FLASHHOLDER

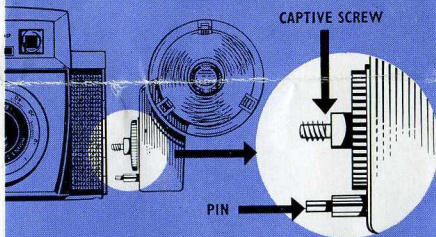
4

fitting the battery



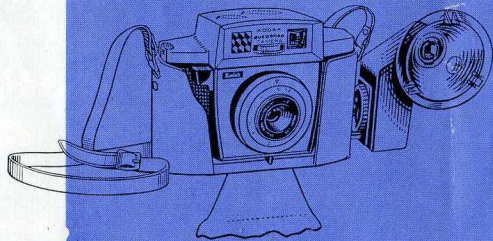
Before using the Flashholder for the first time, a fresh 22½-volt battery (Ever Ready B155 or equivalent) must be inserted. Undo the knurled screw on the back of the Flashholder and remove the metal cover. Insert the battery, positive pole (+) uppermost. The tape within the body should be underneath the battery, so that when the battery is exhausted it can be removed by pulling the end of the tape. It is essential to ensure that good contact is made between the metal ends of the battery and the metal contacts of the Flashholder. Replace the metal cover and secure it by tightening the knurled locking screw.

fitting the flashholder



This Flashholder is for cameras having the "screw and pin" fitting illustrated. If desired, the 'Brownie' Flashholder 4 may be fitted to some cameras without removing the ever-ready case. **Do not insert the flashbulb until the Flashholder has been attached to the camera. Always eject an unfired flashbulb before removing the Flashholder from the camera.**

Insert the PIN on the Flashholder into the lower of the two holes on the camera, then screw the CAPTIVE SCREW into the upper hole. Electrical connections are made automatically.



This picture shows the 'Brownie' Flashholder 4 fitted to the KODAK 'Autosnap' Camera in ever-ready case, but it is suitable for all 'Kodak' and 'Brownie' cameras with a screw and pin fitting.

You ought to read

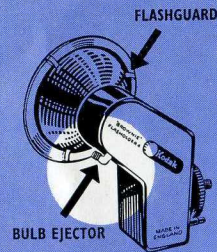
"HOW TO TAKE SNAPSHOTS BY FLASH"
(Ask your Kodak dealer to show you a copy)

taking flash pictures

Fit a *small* capless flashbulb. It will only slide in with its copper wires making proper contact with the metal strips in the Flashholder socket. Push the bulb in firmly as far as it will go, without twisting it. Stand at the correct distance for the type of bulb in use—full details are given in the flash exposure table overleaf. When you press the exposure button on your camera the flashbulb fires automatically at the right instant.

NOTE: When taking close-ups or groups, the use of the Flashguard is recommended. Never take flash pictures in an explosive atmosphere.

removing fired flashholders



Remove the FLASHGUARD and hold the camera (lens pointing downwards) over a suitable receptacle. Then press the BULB EJECTOR and allow the bulb to drop out. Do not touch a newly-fired flashbulb immediately—it *will be too hot*.

FLASH EXPOSURE TABLE (flash as the sole light-source)

Distances:—feet in black, metres on blue panels

'KODAK' FILMS	FLASH BULB	EXPOSURE VALUE (EV) NUMBERS FOR 'KODAK' CAMERAS					
		EV 15	EV 14	EV 13	EV 12	EV 11	EV 10
'Kodachrome' ASA 32	PFI or No. I (clear)	—	—	3-4½	4½-6½	6½-9	9-15
		—	—	0.9-1.4	1.4-2.0	2.0-2.7	2.7-4.6
3		3-4½	4½-7	7-9	9-13	13-21	
0.9		0.9-1.4	1.4-2.1	2.1-2.7	2.7-4.0	4.0-6.4	
3		3-4	4-5½	5½-8	8-11	11-25	
0.9		0.9-1.2	1.2-1.7	1.7-2.4	2.4-3.4	3.4-7.6	
3-4½		4½-6½	6½-9	9-13	13-19	19-40	
0.9-1.4		1.4-2.0	2.0-2.7	2.7-4.0	4.0-5.8	5.8-12.2	
3-5		5-7½	7½-11	11-15	15-21	21-45	
0.9-1.5		1.5-2.2	2.2-3.4	3.4-4.6	4.6-6.4	6.4-13.7	
4-8		8-11	11-16	16-22	22-32	32-70	
1.2-2.4		2.4-3.4	3.4-4.9	4.9-6.7	6.7-9.8	9.8-21.4	
'Kodachrome' II for Daylight ASA 25	PFIB or No. IBS (blue)	—	—	3-4	4-6	6-8	8-13
		—	—	0.9-1.2	1.2-1.8	1.8-2.4	2.4-4.0
—		3-3½	3½-5	5-6½	6½-10	10-13	
—		0.9-1.1	1.1-1.5	1.5-2.0	2.0-3.0	3.0-4.0	
3-3½		3½-4½	4½-7	7-10	10-13	13-20	
0.9-1.1		1.1-1.4	1.4-2.1	2.1-3.0	3.0-4.0	4.0-6.1	
3-4½		4½-7½	7½-11	11-15	15-21	21-30	
0.9-1.4		1.4-2.2	2.2-3.4	3.4-4.6	4.6-6.4	6.4-9.1	

* 'Kodachrome-X' initially will be available only in 35mm cassettes. Your Kodak dealer will be able to tell you when he receives supplies of other sizes.

'BROWNIE' CRESTA II CAMERAS Use the distances given under the column headed EV13.

'BROWNIE' 44B CAMERAS Use shutter speed 1/30. To find distances for this camera, use the guide numbers which are given in the film instruction sheets. To find the *f*/number, divide the guide number by the flash-to-subject distance, or to find the flash distance, divide the guide number by the *f*/number. Example: With a guide number of 80, the flash-to-subject distance will be 5 feet at an aperture of *f*/16.

LIGHT SETTING NUMBERS (LSN) FOR KODAK BANTAM 'COLORSNAP' 2 CAMERA

LIGHT SETTING NUMBERS APPEAR ON BLUE PANELS

'KODAK' FILMS	FLASH BULB	FLASH-TO-SUBJECT DISTANCE RANGE					
		3-5 ft 0.9 - 1.5 m	5-7 ft 1.5 - 2.1 m	8-12 ft 2.4 - 3.7 m	13-17 ft 4.0 - 5.2 m	18-25 ft 5.5 - 7.6 m	
'Kodachrome' ASA 32	PFI or No. I (clear)	4	6	8	-	-	
'Verichrome' Pan ASA 125		1★	2	5	7	9	
'Tri-X' Pan ASA 400		-	-	1	3	5	
★ USE ONE THICKNESS OF CLEAN WHITE HANDKERCHIEF OVER THE FLASHGUARD							
'KODAK' FILM	FLASH BULB	FLASH-TO-SUBJECT DISTANCE					
		3 ft 0.9 m	4 ft 1.2 m	5 ft 1.5 m	6 ft 1.8 m	8 ft 2.4 m	10 ft 3 m
'Kodachrome' II for Daylight ASA 25	PFIB or No. IBS (blue)	3	4	5	6	8	9

The flash-to-subject distances in this leaflet are calculated for average subjects in average rooms. Select from the tables the desired distance for the film in use and read off the camera setting. Then, if necessary, make the following adjustments: in large rooms or rooms where little light is reflected from walls, ceiling and furnishings, *reduce* the camera setting by one EV number or *increase* the L.S.N. by two. In bright rooms where light is readily reflected by the surroundings, *increase* the camera setting by one EV number or *reduce* the L.S.N. by two.

Product names quoted thus—'Kodak'—are trade marks