

**SERVICE MANUAL AND PART LIST**

for the

**'BROWNIE' 127**

**CAMERA**

**Kodak**

**EQUIPMENT**

**SERVICES**



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MADE BY KODAK LIMITED IN GREAT BRITAIN



## Section I INTRODUCTION

This manual covers both the early 'Brownie' 127 Camera and the later model which incorporates a 'Dakon' moulded plastic lens and a larger viewfinder. Both cameras take eight exposures on 127 films (negative size  $1\frac{5}{8}$ " x  $2\frac{1}{2}$ ").

These cameras are very simple in construction and servicing should not present any difficulty. They are sufficiently robust to stand up to normal use and occasional knocks, but care should be taken not to strain the plastic structure during repair, for example, when tightening screws.

In the event of damage to the camera, it is generally more convenient and satisfactory to replace the affected part complete rather than to repair it. For this reason, service parts are listed as replacement units (see Section V).

The servicing instructions described in Section III apply to both models, but when corresponding replacement units for the two models are not identical, the part numbers are different and these numbers are shown in the part list.



## Section II TOOLS

For the servicing outlined in this manual, the following tools and supplies are required:

### STANDARD TOOLS

Small snipe-nosed pliers  
Tweezers, watchmaker's 'AA'  
4-oz. hammer  
Watchmaker's screwdrivers  
Small Phillips screwdriver  
Pin punch  
'Kodak' Lens Cleaning Solution  
Dry powdered graphite

### SPECIAL TOOLS

Red window tool Code No. T.26  
The special tool is available from:  
KODAK LIMITED,  
Equipment Services,  
WEALDSTONE, HARROW,  
MIDDLESEX.



## Section III SERVICING

This section contains instructions for testing, cleaning and adjusting the camera, removing defective parts and fitting replacements. Before commencing servicing, check the camera in accordance with the instruction sheet issued to Kodak Dealers.

### 1 Neck strap assembly

Removal - Slip the strap (D21776) off the carrying strap studs (D11841) on either side of the camera body.

Replacement - Fit a new strap to the case by reversing the removal procedure.

### 2 Shutter push pin

Removal - Turn the latch (D11866) in the bottom of the case (A21761) and separate the cover (A21762) from the case. Using snipe-nosed pliers, lightly grip the split end of the shutter push pin (D11823) until the two halves meet, then push the pin out of its seating.

Replacement - Drop the new push pin into its recess and press it home until it snaps into position.

### 3 Red window

Removal - Remove the red window (D11848) by pressing it outwards from inside the case.

Replacement - Place the new red window into the aperture on the outside of the camera and insert the concave part of the special tool (T.26) into the aperture from the inside. Press the red window home with the convex part of the tool until the window snaps into position.

### 4 Roll holder

Removal - Remove the two Phillips screws (S6107) which secure the roll holder (C11813) to the cover (A21762) and remove the roll holder. Because the screws are the self-tapping type, excessive wear on the existing threads in the camera top should be avoided by using only the lightest pressure when screwing or unscrewing them.

Replacement - Fit the new roll holder by reversing the removal procedure.



## 5 Winding knob and key post

Removal - Support the camera cover on a block suitably drilled to clear the key post (D3731) and carefully drill and tap out the key post.

Replacement - Insert the key post in the cover and support the cover with the end of the key post on top of the block. Place the winding knob (D11865) in position on the key post and, using a punch, carefully spread the end of the post until it grips the winding knob. Check the action of the winding knob. It should rotate freely in the direction of the arrow on the knob (clockwise) but not in the opposite direction.

## 6 Shutter assembly

The shutter assembly (D11843) is of simple and sturdy construction and faults are unlikely to occur. It may happen, however, that, with constant use or bad storage conditions, replacement of some parts may be necessary. The table on page 9 lists the defects which might develop in the shutter mechanism, together with the necessary adjustment or repairs.

Some parts may be replaced without difficulty, but where the fitting of new parts involves removing and replacing rivets or studs, it may be found more practicable to replace the complete shutter.

Removing the shutter:

Remove the cover from the case (Operation 2). With a small screwdriver, remove the screw (S6110) which secures the shutter bracket to the case. This screw is located on the inside of the case, above the lens. Remove the complete shutter assembly (D11843) from its seating in the case.

## 7 Shutter return spring

Removal - Remove the shutter return spring (D11829) with a pair of watchmaker's tweezers. If the spring is broken, make sure that the mechanism is free from the parts of the old spring.

Replacement - When fitting a new spring, note that one end of the spring is hooked. Bend the two ends of the spring outwards to increase the size of the loop, and slip the loop over the stud so that the hooked end grips under the capping blade. Tension the spring by bending it clockwise and seating the longer arm in the notch on the shutter bracket. When correctly fitted, the spring tension should keep the capping blade in the upper position, so that it completely covers the lens aperture.

## 8 Shutter spring

Removal - Remove the shutter spring (D11828) with a pair of watchmaker's tweezers.

Replacement - Hook one end of the new spring over the bent tag on the capping blade, and hook the other end over the stud on the shutter blade.



## 9 Cleaning and easing the shutter movement

To ensure the smooth working of the shutter, clean the inner surfaces of the shutter blade, capping blade and shutter operating slide with a camel-hair brush and polish with graphite. DO NOT USE OIL.

## 10 Replacing the shutter assembly

Slide the shutter assembly (D11843) into the case so that it rests against the front of the covering. Replace and carefully tighten the self-tapping screw (S6110) securing the shutter assembly to the camera body.

### Possible shutter faults

Symptom	Possible fault	Remedy
Shutter moves but does not open.	The shutter spring (D11828) is either broken or has slipped from its anchorage.	Renew or replace spring.
Shutter operating slide remains depressed.	The return spring (D11829) is loose or broken.	Renew or replace the return spring.

## 11 Front viewfinder lens

Removal - Remove the roll holder from the cover (Operation 4). Lift out the viewfinder bottom (C21764). Slip out the retaining springs (D21768) and remove the lens (C21765).

Replacement - Clean the rear surface of the new lens (Operation 12). Insert the new lens with the flat surface facing outwards. Fit the retaining springs so that they seat against the lips of the lens housing.

## 12 Cleaning lens surfaces

First remove any surface dust or grit, using a soft camel-hair brush. Polish the lenses with a soft lintless cloth such as 'Selvyt' cloth, using a light rotary action, avoid unnecessary pressure. If the lenses are very dirty use a little 'Kodak' Lens Cleaning Solution on the cloth.



## **Section IV HOW TO USE THE PART LIST**

The part list can be used in the following ways:

1. TO FIND THE NUMBER OF A PART  
Refer to the drawing and identify the part.  
The part number is printed in red on the drawing.
2. TO FIND THE NAME AND QUANTITY OF A PART  
Read the part list opened alongside the unfolded drawing.
3. TO IDENTITY A PART FROM ITS NAME OR NUMBER  
Read the part list opened alongside the unfolded drawing.



## Section V HOW TO ORDER SERVICE PARTS

All orders for service parts of photographic equipment made by Kodak Limited should be sent to:

KODAK LIMITED,  
Equipment Services,  
WEALDSTONE,  
HARROW,  
MIDDLESEX.

When ordering parts, give the name of the camera and the number of the part. It is unnecessary to give the name of the part.

Service parts are listed as Replacement Units. These units may consist of two or more parts which are permanently secured together. If an order for one of these parts is received, the replacement unit which contains that part will be sent.

Prices of service parts are listed in a separate Price List.



## Section VI SERVICE PART LIST

### REPLACEMENT UNITS

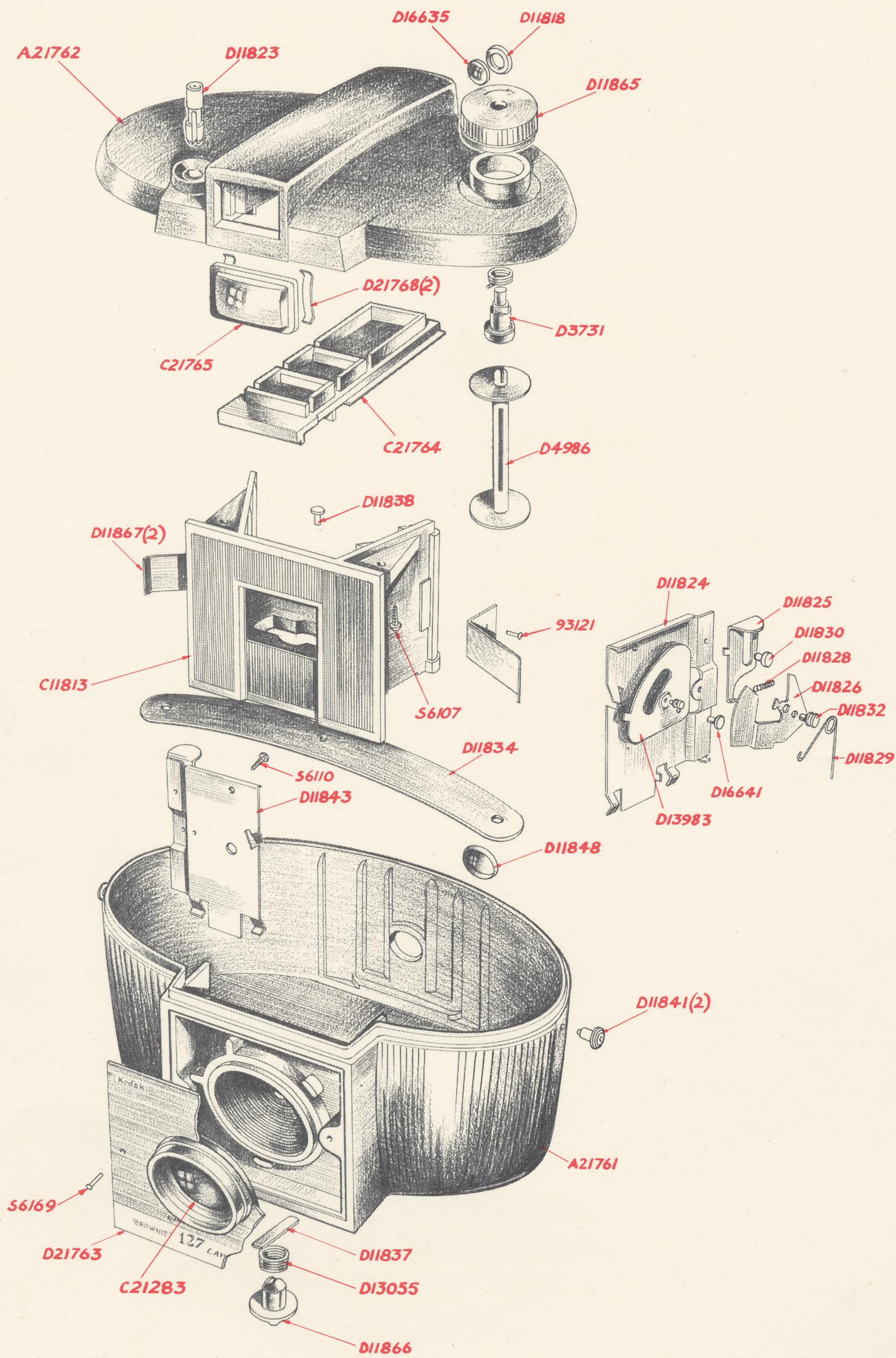
Part Number	NAME OF PART	Quantity Required
D3731	Key Post Assembled	1
D4986	127 Spool Assembly	1
C11813	Roll Holder	1
D11818	Finder Lens Retainer	1
D11823	Shutter Push Pin	1
D11828	Shutter Spring	1
D11829	Return Spring	1
D11834	Spool Bracket	1
D11837	Latch Blade	1
D11838	Rivet for Spool Bracket	1
D11841	Carrying Strap Stud	2
D11843	Shutter Complete	1
D11844	Roll Holder (Early Model)	1
D11845	Cover (Early Model)	1
D11846	Case (Early Model)	1
D11847	Cover and Roll Holder Assembled (Early Model)	1
D11848	Red Window	1
D11865	Winding Knob	1
D11866	Knob for Latch	1
D11867	Film Tension Spring	2
D13055	Spacing Spring for Latch	1
D16635	Rear Finder Lens	1
A21761	Case (Specify Colour)	1
A21762	Cover (Specify Colour)	1
A21763	Front Plate	1
C21764	Viewfinder Bottom	1
C21765	Viewfinder Front Lens	1
D21768	Retaining Spring for Front Finder Lens	2
A21770	Cover and Roll Holder Assembled (Black)	1
D21776	Neck Strap Assembly (not shown)	2
93121	Rivet (Film Tension Spring to Roll Holder)	2

#### SMALL PARTS

##### SCREWS

S6107	No. 4 x $\frac{3}{8}$ " Recessed Hd. Type Y Self-Tapping Screw (Roll Holder to Cover)	2
S6110	No. 2 x $\frac{1}{8}$ " Bind. Hd. PK Type Z Self-Tapping Screw (Shutter to Case)	1
S6169	No. 00 x $\frac{1}{8}$ " Rd. Hd. PK Drive Screw (Front plate to Case)	2





**'BROWNIE' 127 MODEL II CAMERA**





This price list supersedes all previous price lists for the 'Brownie' 127 Camera.

**'BROWNIE' 127 CAMERA**

PART OR ASSEMBLY	PART No.	PRICE
Key Post Assembled . . . . .	D 3731	1/- each
Roll Holder . . . . .	C 11813	1/9 each
Finder Lens Retainer. . . . .	D 11818	-/2 each
Push Pin for Shutter (specify colour) . . . . .	D 11823	-/3 each
Shutter Spring . . . . .	D 11828	-/2 each
Return Spring . . . . .	D 11829	-/2 each
Spool Bracket . . . . .	D 11834	-/4 each
Latch Blade . . . . .	D 11837	-/2 each
Rivet for Spool Bracket . . . . .	D 11838	-/6 doz.
Carry Strap Stud. . . . .	D 11841	-/1 each
Shutter Plate Assembled . . . . .	D 11843	1/3 each
Roll Holder (Early Model) . . . . .	D 11844	1/9 each
Cover Assembled (Early Model) . . . . .	D 11845	7/3 each
Case Assembled (Early Model). . . . .	D 11846	10/- each
Cover and Roll Holder Assembled (Early Model)	D 11847	9/- each
Red Window . . . . .	D 11848	-/3 each
Neck Strap Assembled (Black). . . . .	D 11849	-/9 each
Take-up Knob (specify colour) . . . . .	D 11865	-/4 each
Knob for Latch . . . . .	D 11866	-/3 each
Film Tension Spring . . . . .	D 11867	-/3 each
Spacing Spring for Latch. . . . .	D 13055	-/3 each
Rear Finder Lens. . . . .	D 16635	-/9 each
Front Plate . . . . .	D 21763	-/9 each
Viewfinder Bottom . . . . .	C 21764	-/3 each
Viewfinder Front Lens . . . . .	C 21765	-/9 each
Packing Washer . . . . .	D 21766	-/1 each
Retaining Spring. . . . .	D 21768	-/1 each
Case Assembled (Black) . . . . .	A 21769	11/- each
Cover and Roll Holder Assembled (Black) . . . . .	D 21770	10/- each
Case Assembled (White) . . . . .	A 21775	11/- each
Neck Strap Assembled (Grey) . . . . .	D 21776	-/9 each
Cover and Roll Holder Assembled (Grey) . . . . .	D 21778	10/- each
Rivet . . . . .	93121	-/9 doz.
Standard Screws . . . . .		1/- doz.