

# ***Camera Kiev-88, 688 TTL***

Instruction for use

The KIEV 88 is a medium-size reflex camera with an all-metal (VRN Kiev 88, 88C body) or light-tight rubberised fabric (VRN Kiev 88m, 88Cm, 688 body) curtain shutter and interchangeable magazines of sizes 6x6 or 6x4.5 cm.

Basic delivery kit include: camera body, MC Arsat 80mm/2.8 lens with rubber lens shade, UV-1 and YG-1.4 filters, front lens cap, TTL-metered prism finder, rubber eye cup for prism finder, folding waist level finder, plastic cap for bottom of finder when not on camera, two 6x6 cm 120 type film backs (old type), camera strap, nylon camera case.

The camera is intended for amateur photography.

With a proper handling and care it will enable you to obtain high-quality slides, large-size black-and-white or colour pictures.

The camera is designed for use of a 61.5-mm wide unperforated roll film (type 120).

The camera curtain shutter offers exposure times over a range from 1/1000 to 1/2 s and manual exposure "B".

The shutter cocking mechanism is interlocked with the film transport mechanism, thus preventing double film exposure.

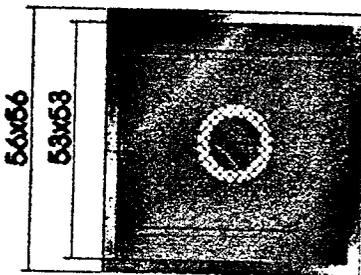
The camera comes complete with lens MC Volna-3. The lens is provided with a special multilayer antireflection coating (MC) which upgrades the image quality and enhances its contrast due to better-integrated transparency and reduced light dispersion.

The focal length of the lens is 80 mm, the relative aperture is 1:2.8, the diaphragm setting limit is 22, the near focusing limit is 0.6 m.

The sharp focusing is carried out with the aid of a microraster or a range finder wedge arranged in the centre of the field of view and with the aid of a ground-glass surface.

Design of the camera envisages the use of interchangeable lenses. The lenses are fitted on a threaded bayonet. The hood-type viewfinder enables the picture to be viewed on the ground-glass surface with or without a magnifying lens. The field of vision of the hood-type viewfinder measures 53x53 mm. Magnification of the TTL prism finder eyepiece is 3x, the field of vision measures 53x53 mm.

Schematic representation of the field of vision when operating with the interchangeable viewfinders is given in the Figure:



The camera is complete (basic kit) with two interchangeable magazines of sizes 6x6 cm, which allow to obtain 12 pictures of film type 120.

The camera is provided with a synchroniser for photographing with electronic cable and cableless flash lamps. The camera loading consists in fitting the magazine with the film in the camera.

The interchangeable magazines offer the opportunity for quick change in the process of photographing from a black-and-white to a colour film or to a more or less sensitive film. The magazine may be removed from the camera irrespective of the number of the pictures taken. Each magazine is provided with an automatic picture counter and a film speed setting scale of the loaded film.

The camera operates in the temperature interval from minus 15 to plus 45 °C.

Before starting the photographing, please get acquainted in detail with these Instructions and you will know all the peculiarities of use of the camera.

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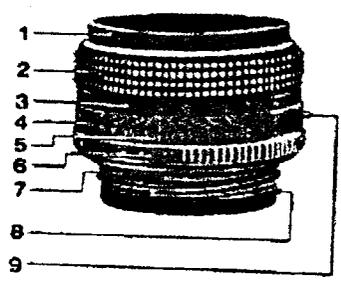
## 2. List of Standard Equipment

Camera body	1
Lens MC Volna-3 2.8/80 (MC Arsat 2.8/80)	1
TTL-metered prismatic viewfinder 45 deg.	1
Folding waist level hood-type finder	1
Magazine and spool (set) 6x6 cm old type	2
Light filters YG-1.4x and UV-1x (set)	1
Front cap of lens	1
Lens rubber hood	1
Eyecap for TTL viewfinder	1
Shoulder strap	1
Case	1
Batteries (G13 / A76 / LR44 type) for TTL viewfinder	3
Instruction for use	1

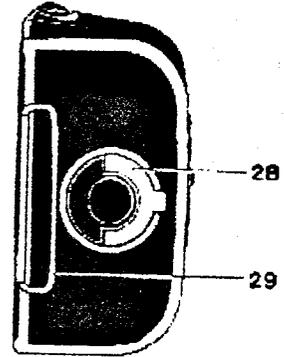
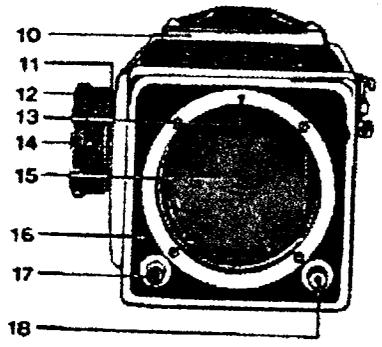
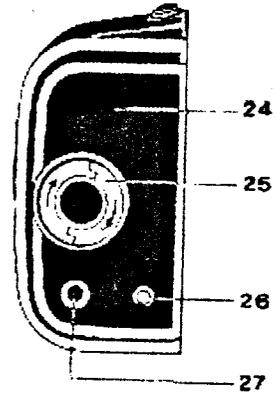
## 3. Main Units and Parts

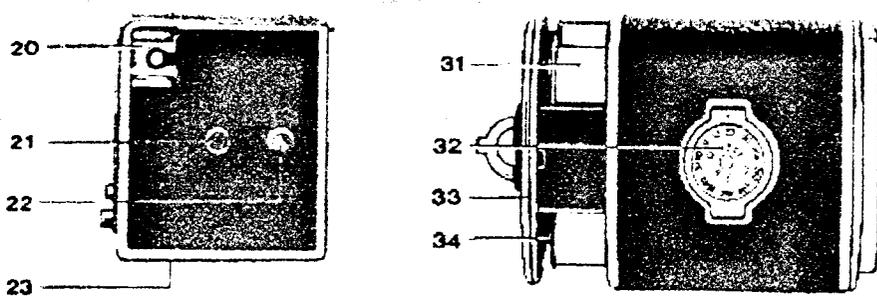
- 1 - lens
- 2 - lens focusing ring
- 3 - distance scale
- 4 - depth-of-field scale
- 5 - diaphragm and distance scale index
- 6 - diaphragm scale
- 7 - red dot for lens fitting
- 8 - lens fixing screw
- 9 - depth-of-field visual check lever
- 10 - finder hood
- 11 - time exposure scale index
- 12 - shutter cocking and exposure time setting knob

- 13 - red dot on camera for lens fitting
- 14 - exposure scale
- 15 - shutter all-metal (VRN Kiev 88, 88C body) or light-tight rubberised fabric (VRN Kiev 88m, 88Cm, 688 body) curtain
- 16 - camera body
- 17 - release button (VRN Kiev 88 body)
- 18 - lens retainer button (VRN Kiev 88, 88m body)
- 19 - finder hood button
- 20 - flash lamp yoke
- 21 - synchroniser plug socket
- 22 - shoulder strap attachment button
- 23 - tripod socket (2 holes with 3/8" or 1/4" thread - optional)
- 24 - magazine
- 25 - film rewinding knob
- 26 - film exposure indicator window
- 27 - picture counter window
- 28 - film transport mechanism lock handle
- 29 - shutter
- 30 - magazine lock button
- 31 - take-up spool
- 32 - film speed setting scale
- 33 - magazine transport mechanism
- 34 - feed spool support



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## 4. Operating Procedure

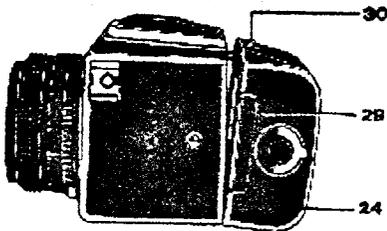
### 4.1. Preparing the Camera for Loading

Take the camera out of the case.

Insert shutter 29 as far as it will go.

Having displaced button 30 in direction of the arrow and having turned magazine 24 as shown in the Figure, remove the magazine from the camera.

The magazine lock will open only with the shutter pushed home.



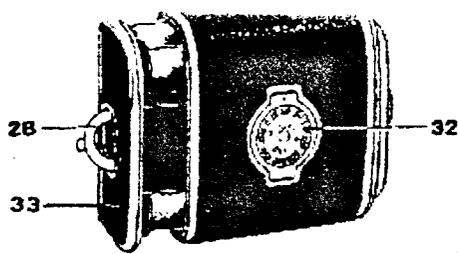
### 4.2. Magazine Loading

#### **CAUTION:**

When loading the magazine with a film take care that the number on the paper label of the transport mechanism complies with the number on the label glued on the magazine body.

The magazine can be loaded with the film in daylight (preferably in a shade).

Remove shutter 29 from the magazine, lift handle 28, turn it fully counter-clockwise and withdraw transport mechanism 33.



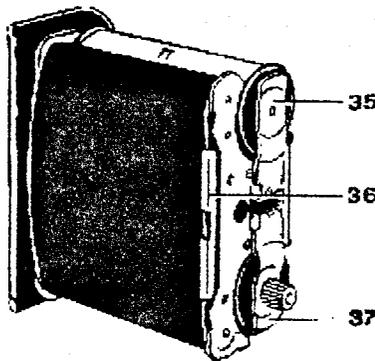
Tear off the paper label from the leader end.

Shift plate 35 through 90 deg., place the spool with the film into the seat and reset the plate to the initial position. In this case the protruding centre of plate 35 should enter the spool hole.

Turn handle 28 fully clockwise, shift plate 37 through 90 deg. and insert the take-up spool into the seat. Reset plate 37 to the initial position so that its driver would enter the spool end face slit.

Pass the film leader on the guide roller, thread it under pressure plate 36, pass it on the second guide roller, fit the leader end in the take-up spool and wind the leader by rotating the take-up spool. In so doing, see to it that the leader would be wound without skewing or crumpling of its edges.

Turn handle 28 counter-clockwise. In this case pressure plate 36 will press the leader to the table. When the magazine is properly loaded, the film leader dark side should face the lens. Lift one of halves of knob 25 by turning through 90 deg. and set figure "1" in picture counter window 27 by rotating the knob in the direction reverse to the arrow.



Insert transport mechanism 33 into the magazine housing as far as it will go, slightly turning knob 25 in the direction of the arrow. Reset knob 25 to the initial position.

Turn handle 28 fully clockwise and after making sure that the lock has fixed the transport mechanism, reset the handle to the initial position. Insert shutter 29 home.

#### *4.3. Preparing the Magazine for Shooting*

Open window 38.

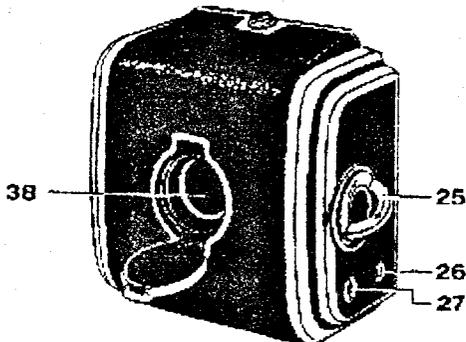
Lift knob 25 and rotate it in the direction of the arrow until the figure "1" appears in window 38,

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which corresponds, to the first picture in the film.

Set the loaded film sensitivity value on film speed setting scale 32. For this purpose turn the disk with the scale until the sensitivity value coincides with the index.

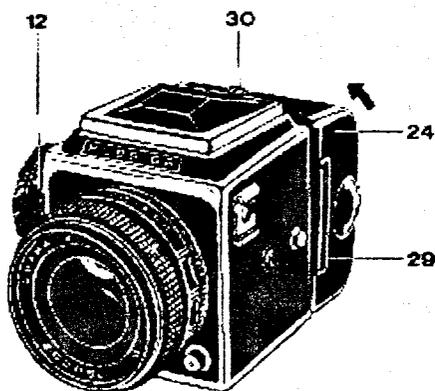
**CAUTION:**

When loading a magazine with a film make sure that figure "1" is set in windows 27 and 38. If you fail to meet the requirements, the shots will go superimposed in shooting.



**4.4. Preparing the Camera for Shooting**

Cock the shutter by turning knob 12 fully in the direction of the arrow available on its body. Fit loaded magazine 24 on the camera catches and, turning the magazine in the direction of the arrow, attach it to the camera until the lock has operated.

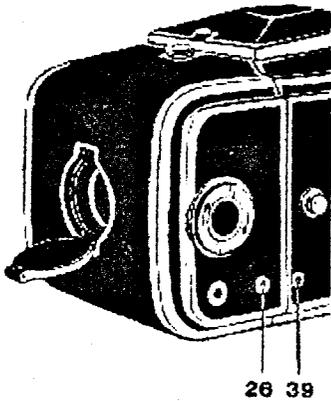


**CAUTION:**

Install the newly loaded magazine on the camera only with the camera shutter cocked and magazine shutter 29 pushed home.

When installing the magazine with a partially exposed film, see to it that the colour of signals in windows 26 and 39 should be similar, otherwise a double exposure or a picture omission may occur. The state of film and camera shutter is determined depending on the colour of signals in these windows (ref. to the Table).

Signal colour	Window 26 (in the magazine)	Window 39 (in the camera body)
White	Film in the picture aperture has not been exposed	Shutter cocked
Red	Film in the picture aperture has been exposed	Shutter released

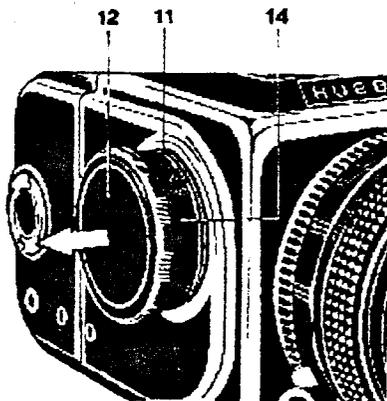


#### 4.5. Shooting

The process of photographing consists of the following jobs:

- shutter cocking and film transporting;
- exposure setting;
- diaphragm setting;
- viewing;
- focusing;
- shutter releasing.

Cock the shutter and transport the film by turning knob 12 fully. At the beginning of cocking the shutter a slight increase of the force applied to the knob is possible.



When the shutter is being cocked:

pressing smoothly on release button 17 as far as it will go.

When the camera shutter is being released:

- the mirror automatically swings to the upper position;
- the diaphragm aperture closes to the pre-set value;
- the film is exposed;
- the red signals are set in windows 26 and 39.

At the exposure times over  $1/30$  s it is recommended to carry out the photographing from a tripod. With the use of exposure times from  $1/8$  to  $1/2$  s the release button is to be released after the complete operation of the shutter. Tripod sockets 23 in the camera are provided with thread  $3/8"$  (or with  $1/4"$  - optional).

The camera shutter can be released with the aid of a straight thread, which is screwed into the threaded hole of release button 17.

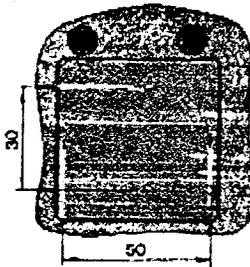
The shooting over, fold the finder hood. For this purpose press the viewfinder magnifying lens to cap 40 until it is fixed, fold the side walls, then the rear wall and, while holding the rear wall, close cap 40 until it is fixed by a lock.

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## 5. Determining the Exposure Time with the Aid of Prismatic Viewfinder TTL

With the use of camera Kiev 88 TTL you can determine the exposure time and the diaphragm aperture with the aid of an exposure meter built into the prismatic viewfinder.

Advantage and convenience of the TTL measurement system lies in the automatic control of all factors affecting the value of the exposure time. The field of measurement of the exposure time meter is in the central part of the viewfinder field of vision and has an oval shape (ref. to the Figure).

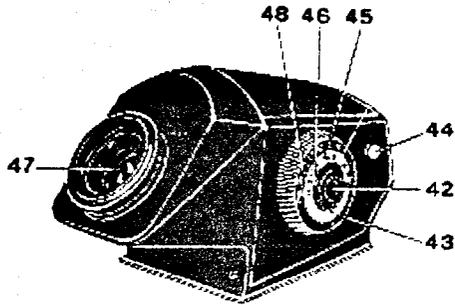


The exposure time meter ensures measurements in the range of brightness of 2 to 16 000 cd/m<sup>2</sup>, in this case the film-in-use sensitivity value is taken into account. Voltage of the power supply source is 4.5 V.

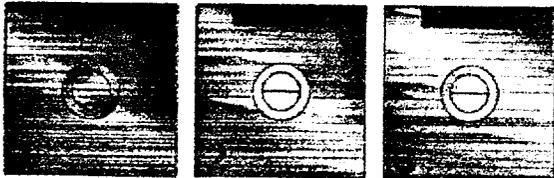
When preparing the prismatic viewfinder TTL for operation set the film sensitivity on its calculator by turning handle 42 until the film speed value in ISO units appears in window 43.

Set on the calculator the value of the lens speed by turning scale 45 until the appropriate value coincides with index 46.

By the lens speed is meant the number corresponding to the maximum relative aperture, e.g. for lens MC Volna-3 2.8/80 - 2.8.

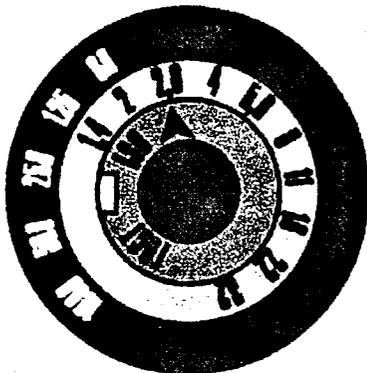


Turn on the exposure time meter having depressed button 44. Upon its turning-on, release the button. The exposure time meter will operate for 15 s, then it will automatically turn off. For its repeated turning-on depress the button again. While viewing in viewfinder eyepiece 47, aim the camera on the object so that its image would be arranged within the field of view of the viewfinder. Depending on the brightness of the object being photographed, in the upper part of the field of view of the viewfinder you will see the luminescence of one of the signals:



Should the "Little light" red signal (Fig. No.1), located on the left in the field of view of the viewfinder, be seen, slowly turn calculator ring 48 counter-clockwise until the "Sufficient light" second red signal appears.

Should the "Much light" red signal (Fig. No.2), located on the right, be seen, turn ring 48 clockwise until the second red signal appears. With the calculator in this position (two red signals light up, Fig. No.3), choose the "exposure-diaphragm" pair required for photographing by using the exposure scale and the diaphragm scale, e.g. exposure  $1/30$  s is opposite diaphragm value 2.8 (ref to the Figure),  $1/15$  s is opposite 4,  $1/8$  s is opposite 5.6,  $1/2$  s is opposite 11.



Set the values of exposure and diaphragm, chosen for photographing, on the camera exposure scale

and on the lens diaphragm scale.

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## 6. Replacement of Power Supply Source

The battery rated for 4.5 V and sizing diameter 11.6x16.2 mm serves as a power supply source (we are using G13 / A76 / LR44 cell type).

The serviceability of the power supply source is controlled by means of lighting signals, which light up in the field of view of the viewfinder eyepiece. The absence of signals with button 44 depressed is indicative of the necessity of replacement of the power supply source.

To replace or install the power supply source, unscrew cap 49 and, observing the polarity ("+" of the power supply source should be arranged from the end of the cap on which the "+" symbol is engraved), install it into the seat.

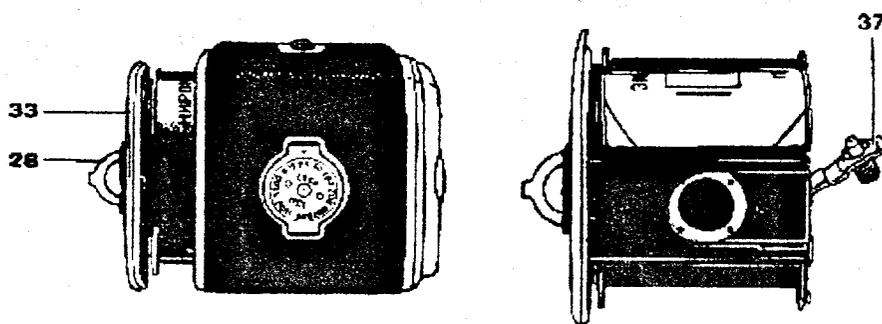
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## 7. Unloading the Camera

The shooting can last until figure "12" appears in the picture counter window, indicating that the film has been fully used. After this fully insert magazine shutter 29 and remove the magazine from the camera. Lift knob 25 and rotate it in the direction of the arrow until the film has been rewound on the take-up spool. The rewinding should be carried out smoothly, without seizure. Otherwise it is essential to stop the rewinding, extract the transport mechanism as it is indicated below and eliminate the cause of the film seizure. Check that the film rewinding is over by looking into window 38. Lift and turn handle 29 fully clockwise.

Remove transport mechanism 33 from the magazine. Turn plate 37, remove the spool with exposed film and glue the leader with a paper label.

Reset the spool into the seat and return plate 37 to the initial position, Install the transport mechanism into the magazine and close the magazine lock.

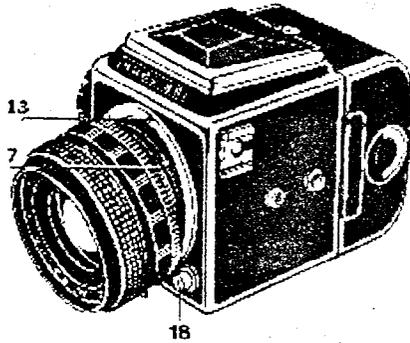


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## 8. Replacement of Lens

Design of the camera envisages the use of interchangeable lenses.

To remove the lens, depress button 18, turn the lens fully counter-clockwise and detach it. When fitting the lens on the camera, match red dot 7 on its base with red dot 13 on the camera ring. Insert the lens and turn it clockwise until it is locked.

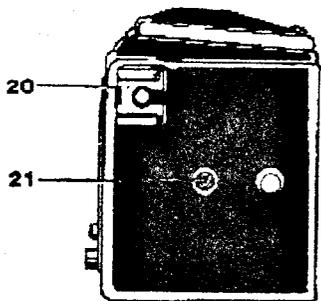


The interchangeable lenses released for the camera are as follows:

- Zodiak-8 (MC Zodiak-8) - 3.5/30 superwide-angle (180 deg.)
  - Mir-26 (MC Mir-26) - 3.5/45 wide-angle (83 deg)
  - Mir-38 (MC Mir-38) - 3.5/65 wide-angle (66 deg.)
  - MC Vega-28 - 2.8/120 long-focus (36 deg.)
  - Kaleinar-3 (MC Kaleinar-3) - 2.8/150 long-focus (28 deg.)
  - MC Telear-5 - 5.6/250 long-focus (18 deg.)
  - Jupiter-36 (MC Jupiter-36) - 3.5/250 long-focus (19 deg.)
  - MC Arsat Macro - 5.6/500 superlong-focus, non-mirror (8 deg.)
  - PCS Hartblei Shift - 3.5/45 architectural, PCS / perspective correction system
  - MC PCS Arsat Shift - 4.5/55 architectural, PCS / perspective correction system (69-84 deg.)
  - PCS Hartblei Shift - 3.5/65 architectural, PCS / perspective correction system
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## 9. Flash Photography

The camera incorporates a synchroniser, which ensures a synchronous operation of the shutter with electronic flash lamps. In case of photographing with a cableless flash lamp it should be mounted in yoke 20. Connection of the flash lamp with cable is effected via plug socket 21.



When photographing with electronic flash lamps, the synchronisation is ensured at the exposure of

1/30 s and over.

The photographing with flash lamps is to be carried out in accordance with the directions for use supplied with them.

When the flash lamp is connected via plug socket 21, insert the screw-plate (available in the set) into yoke 20.

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## 10. Application of Light Filters

The camera set includes the light filters with a M62x0.75 thread used as attachments screwed into the front part of the lens mount.

The UV-lx light filter is colourless and is used for weakening the effect of ultraviolet rays, e.g. when photographing in high mountains or when using a colour film.

The YG-1.4x light filter is yellow-green, light one, improves the reproduction of tonal values of multicoloured objects on the highly sensitive photographic materials with only insignificant loss of their sensitivity. On the medium-sensitive photographic materials the practically correct reproduction of tonal values of multicoloured objects is obtained.

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## 11. Care

Protect the camera from dust, moisture, snow, harmful vapours, jerks, jolting, impacts and sharp temperature variations.

Handle the camera with care, do not exert the excessive efforts in handling it, keep the camera clean.

Do not remove the lens without an utmost necessity since this may result in dirt and dust getting into the camera.

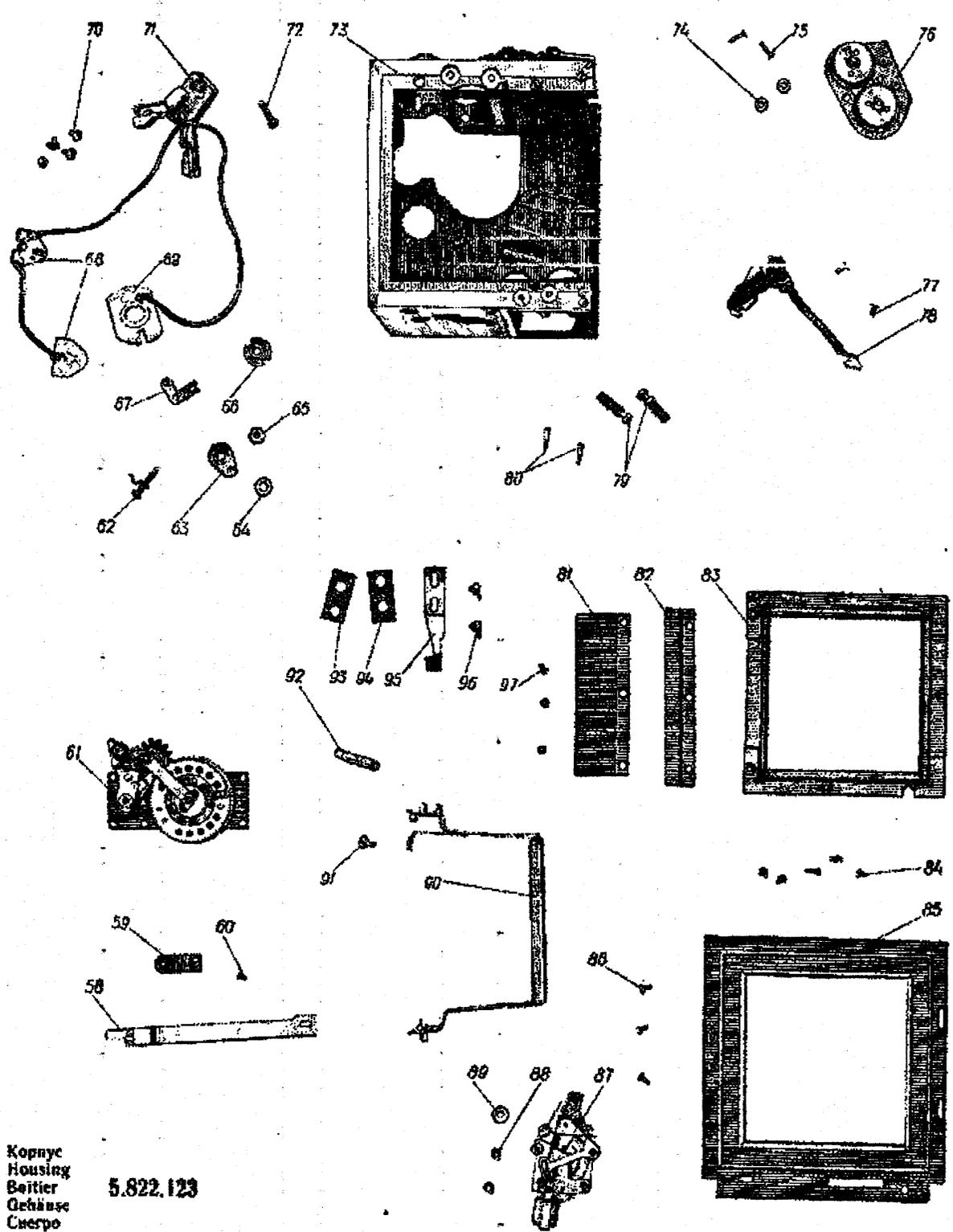
Clean the camera regularly. Remove the dust from its external and internal surfaces with a soft brush or blow off the dust with the aid of a rubber bulb. Thoroughly protect the optical components from getting dusty or dirty, try to avoid touching them with fingers. Protect the camera shutter curtains from mechanical damage as they are made of very thin metallic foil.

Store the camera in the case, close the lens with a cap.

Having brought the camera from the frosty weather into the warm premises, do not open it immediately, let it become gradually warmed up in the case for 2-3 h.

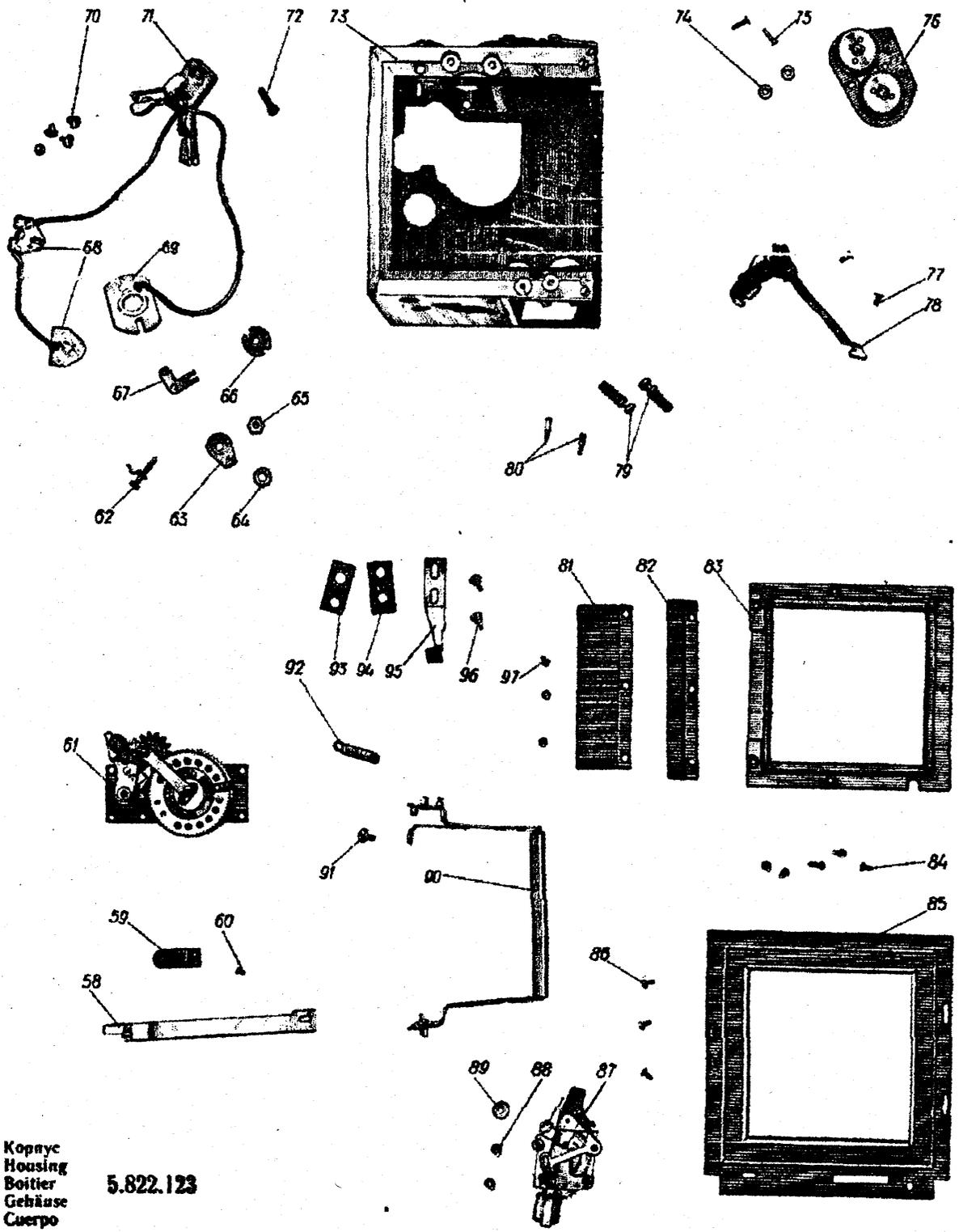
When some defects or faults have been discovered, do not carry out the repair on your own.

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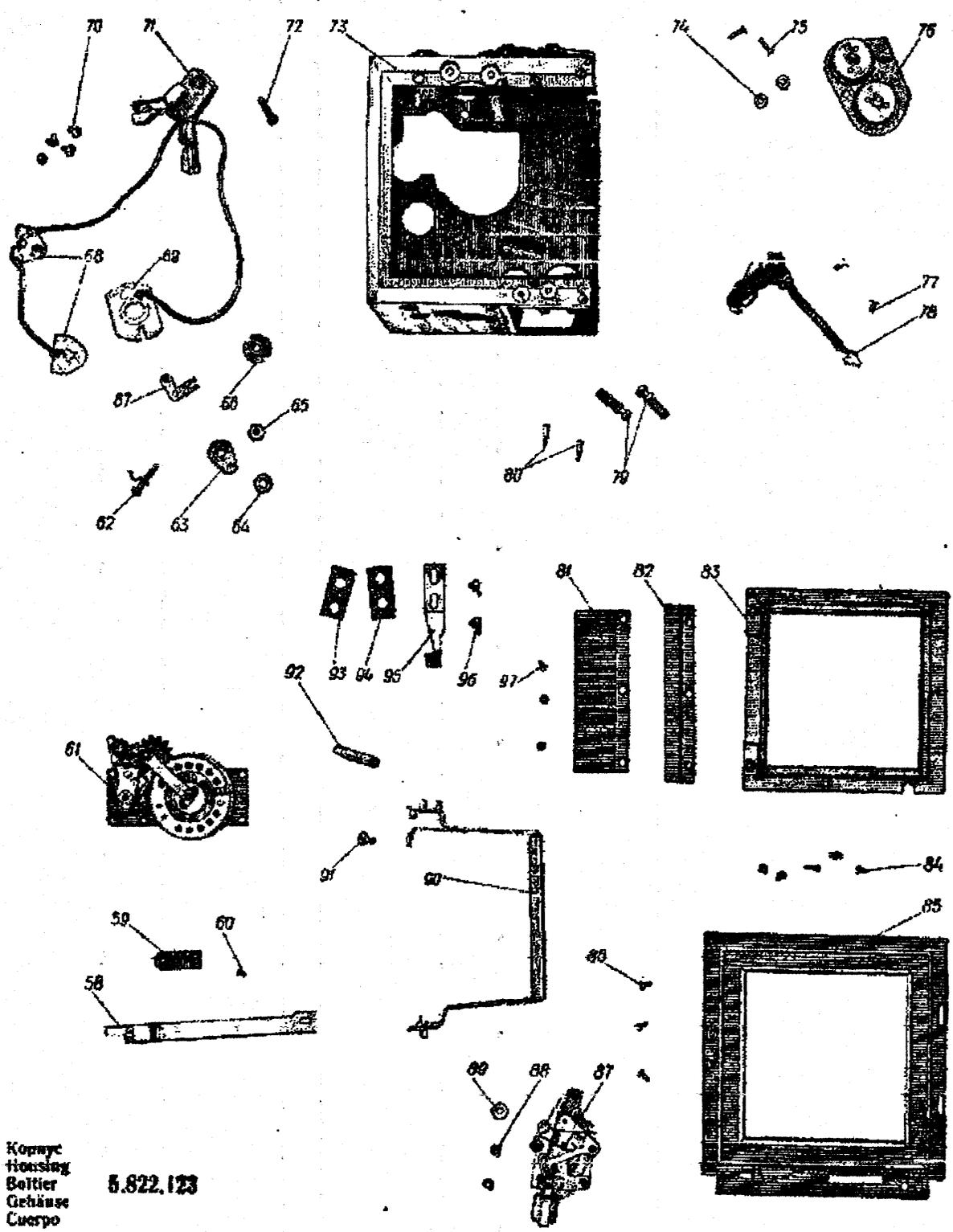
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