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BRONICA SQ-B



COMPLETE CAMERA

INSTRUCTIONS

Thank you for purchasing the Bronica SQ-B camera kit.

Based on the technology and experience acquired through the evolution of the Bronica SQ Series, the SQ-B is a manually operating 2 1/4 X 2 1/4 in. (6 X 6 cm) single-lens-reflex camera built to satisfy all the needs of professional photographers who works with hand-held exposure meters, studio and/or portable electronic flash units and various types of accessories. Among the many professional features of the Bronica SQ-B is flash synchronization at all shutter speeds, up to the fastest 1/500 sec., which is one of the greatest advantage of the lens-shutter single-lens-reflex camera.

The following instructions are for the basic operations of the SQ-B. Although instructions following are based on a standard camera accessories provided with this kit, the actual choice of lenses, film backs and finders from the collection of Bronica system accessories is left to the discretion of the photographer, who should choose what is suitable for the type of assignment contemplated.

To obtain the best results from your Bronica SQ-B, please read this instruction manual carefully before using the camera.

By thoroughly familiarizing yourself with the camera before use, you should be able to handle the camera properly and maintain it in good working condition for a longer period of time.

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	Interchanging Magnifiers

Specifications of the BRONICA SQ-B

Type 6 cm X 6 cm format, lens-shutter type single-lens-reflex camera; with interchangeable lens, film back,

finder and focusing screen systems; without exposure meter coupling mechanism to accept meter-

related accessories.

Frame size 55.6 mm X 55.6 mm

Film 120 roll film with standard film Back SQ/B 120; exclusive accessory film backs are provided for use of

220 roll film, 135 cartridge-loaded film and Polaroid Land pack film.

Lens Interchangeable type. Standard lens Zenzanon-PS/B 80 mm, f/2.8; 6 elements in 5 groups; multi-

layer anti-reflection coated; 50.7° angle of view; f/22 minimum aperture; intermediate aperture

settings; helical focusing from infinity to 80 cm.

Filter sizes 67-mm diameter on Zenzanon-PS/B 80 mm lens.

Lens mount Exclusive four-claw Bronica SQ bayonet mount.

Focusing Helical focusing system built into each lens; angle of focusing 171° for standard lens.

Shutter Electronically controlled SEIKO #0 between-lens leaf shutter; shutter speeds 8 sec. to 1/500 sec.;

without intermediate settings; mechanical control 1/500 second; with shutter release lock.

Fully automatic instant reopening lens aperture; equal-distant aperture scale graduation in half-stops

increments; depth-of-field preview.

increments, depth-or-lield preview.

Film winding Film winding crank; one complete forward revolution or ratcheted winding action.

Cable release socket ISO Standard.

Multiple exposure Multiple exposure possible with lever on camera main body.

Mirror lock-up Mirror lock-up possible with switch lever on the side of came

Mirror lock-up possible with switch lever on the side of camera body; single or continuous mirror lock-

up shooting possible.

Lens aperture

Specifications of the BRONICA SQ-B

Film back Daylight loading interchangeable type; exclusive film backs for 120, 220 and 135 roll films and

Polaroid Land pack films. The SQ-B does not couple with meter when finders with built-in exposure

meter are attached.

Finder Interchangeable finder system; 94 % of actual field of view (remains unchanged when finder is

exchanged). Exposure meter incorporated finder unit does not activate when attached.

Finder screen Interchangeable type; standard microprism/split-image screen; optional screens are split-image,

microprism, matte, grid-lines, microprism/split-image (for 135 film) and matte (for 135 film).

Flash synchronization Battery checking

X-setting (up to 1/500 sec.) with ISO Standard contact terminal.

Red-colored LED lights up in front center area, outside screen area, when battery check button is

depressed, LED also doubles as shutter closing signal.

Battery Dimensions Single 6-volt silver-oxide battery (4SR44) or alkaline-manganese battery (4LR44).

92 mm wide X 109 mm high X 179 mm long (with standard lens, Film Back SQ/B 120 and Waist-level Finder S/B).

B. Kus, US

Weight

1,460 grams (with standard lens, Film Back SQ/B 120 and Waist-level Finder S/B).

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^{*}Specifications are subject to change without prior notice.

Operational Parts of the BRONICA SQ-B



Operational Parts of the BRONICA SQ-B



Operational Parts of the BRONICA SQ-B



Loading the Battery

The electronically-controlled shutter will not work without loading the battery. The shutter will be mechanically controlled when the battery is not loaded and will be released at 1/500 sec., regardless of the setting on the shutter speed dial. Use one 6-volt silver-oxide battery or alkaline-manganese battery.

* The battery may be obtained at any photographic equipment or electrical appliance shop.



A. Depress the battery chamber button and, at the same time, move the battery chamber cover in the arrow-indicated direction. The cover will come off easily.



B. Coincide the plus (+) and minus (-) marks on the battery with similar polarity indications in the battery chamber. Then, push in the battery. Insert the battery chamber cover into the "BATTERY" end first and then move the cover in the other direction (opposite to the arrow indication) until it locks.

* The shutter will be mechanicallycontrolled (at 1/500 sec.) when the battery is loaded with polarity marks reversed.

Attachment and Removal of Film Backs



If a red-colored battery check LED lights up outside the focusing screen area (central front of finder), when the battery check button is pressed, the battery is loaded properly and there is sufficient power for operations.

- * If the LED does not light up,
- the battery is not loaded properly or.
- (2) the battery is completely drained and should be exchanged.

The film back is a film chamber that can be attached or detached at any time, permitting rapid change of film types even during shooting sessions.

3

The main camera body and film back are fully coupled, upon connection, therefore, always turn the film winding crank completely one time, upon attaching the film back. If winding is not possible, all preparations for taking pictures have been completed. But, if winding is possible, rotating the film winding crank until it stops will automatically take care of the incomplete actions, whether the shutter not fully cocked or film not fully advanced. Thus, it is always possible to choose the film type most suited for the shot, even midway in the roll.

Additional film backs including a Polaroid film back are available optionally in 6X6, 6X4.5 and 35-mm formats.

* Refer to the instructions supplied with Film Back SQ 135 for proper use of that particular film back.

- * The accessory Film Back SQ/B 120 does not have the film speed and exposure compensation dials. This film back can be attached to other SQ cameras but the exposure meter, if applied, will not operate.
- * It is possible to attach a film back incorporating the film speed and exposure compensation dials to the main camera body of the SQ-B but finders with built-in exposure meters will not activate.

Attachment and Removal of Film Backs



A. To attach the film back to the main camera body, simply insert the latches at the upper end of the film back into the attachment openings at the upper end of the main camera body. Then, press the lower end of the film back against the main body until it locks securely.



B. To remove the film back from the main camera body, insert the dark slide into the dark slide slit, as illustrated, with the mark on the dark slide at the top end. Push it all the way in.



C. Depress the film back release button and the lower end of the film back can be removed, as illustrated. Simply shift the film back up slightly and pull it away.

* The dark slide cannot be withdrawn from the film back when the film back is detached from the main camera body.

Attachment and Removal of Film Backs

* The dark slide must be withdrawn from its slit, upon attachment of the film back to the main body, as otherwise the shutter cannot be released. Furthermore, there is danger of the film back accidentally becoming detached from the main body, should the dark slide be left in its slit while the camera is being carried. Therefore, make it a rule to withdraw the dark slide promptly upon attaching the film back to the main body.

Construction of Film Back



The film back consists of a film holder which will be loaded with a roll of film and a film back frame which completely encloses the film holder and shields it from light.

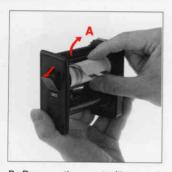
- * The Film Back SQ/B 120 is for exclusive use of 120 roll film. For loading 220 roll film, use the optional Film Back SQ-i 220.
- * To take other format pictures such as 6 X 4.5-cm, 24 X 35-mm, 24 X 54-mm or Polaroid pictures, use exclusive film backs. (See attached "Bronica SQ-System Accessories".)

Film Loading



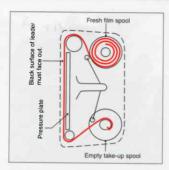
- A. Open the back cover by squeezing the back cover release button toward each other, then remove, the film holder.
- * Note, when you load the first roll after opening the camera package, an empty film spool is in the bottom spool holder and you do not need to transfer the empty film spool from the top to the bottom film holder as instructed in the next column.

Film Loading



B. Remove the empty film spool pre-inserted in the top spool holder of the film holder by pushing up the spool in the arrow-indicated A direction. Insert the empty spool to the bottom spool holder by pressing out the left-hand bottom shaft and aligning the spool key hole with the right-hand shaft.

Insert a fresh film spool into the top spool holder aligning the right-hand key hole of the film spool with the top right shaft then, close the left-hand shaft to securely hold the film spool.



C. After loading the fresh film spool properly, draw out the leading end of the film and turn it across the film pressure plate (as illustrated). Run it down and turn it over to the take-up spool. Insert the leading end into the slit of the take-up spool and wind slightly until securely engaged.

* The inside black surface of the leader must face out when running across the pressure plate.



D. Rotate the film back winding crank on the right side of the film insert in the direction indicated by the arrow, while checking the advancing film.

When the starting point, or arrow mark, is aligned with the triangular ▼ start-mark on the top left side of the film insert, stop rotation.

Film Loading



E. The starting point, or arrow mark of the unexposed film, can also be aligned with the start-mark, with the film insert loaded in the film back. Simply rotate the film winding crank on the main camera body. This method is preferred since there will be coupling with the main camera body mechanism, from the beginning.



* If the film is not advanced when the film winding crank is rotated, the film holder is not inserted properly (A) and/or the main camera body may be set for multiple exposures (B). In the latter case, return the multiple exposure lever to an upright or vertical position. (See "22. Multiple Exposures" on

Page 25.)



F. Close the back cover, by pressing it firmly against the base of the film back, as illustrated. The back cover will automatically close and lock.

The same operation will close the back cover when the film back is detached from the main body.

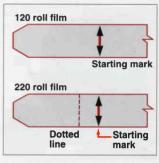
Film Loading



G. Upon loading the film, rotate the film winding crank until it stops to place the first frame into place for taking the picture. The exposure counter will also change from "S" to "1", while the shutter will also be cocked.



H. The manual film winder is used for advancing the film, when the film back is detached from the main body for film loading. The manual film winder can continue to rotate, even when the film is set for the first exposure. It should be rotated 2 or 3 times more, in order to take up any slack in the loaded film.



* When loading 220 roll film in the Film Back SQ-i 220, do not mistake the dotted line before the arrow mark for the starting mark.



Upon loading the film tear off the end flap from the empty film package and insert it in the film type indicator frame. This will help you keep track of the film loaded in the film back, even when two or more film backs are used with different films.



Rotating the film winding crank completely one time, in the forward direction, will advance the film one frame and, at the same time, cock the shutter, with the winding action stopping automatically. On the other hand, short, rapid strokes, up to an accumulated full rotation, will also do the job.

* Make sure that "N" on the mirror lock-up switch lever is set opposite the index when taking pictures which do not require mirror lock-up.

* The Bronica SQ-B does not incorporate an exposure meter.

Furthermore, it will not couple with a finder incorporating an exposure meter.

* It is possible to attach and view through a finder that incorporates an exposure meter but the meter will not be activated.

* It is possible to attach and take photographs with a film back that incorporates an ISO Setting Dial but the ISO setting will not be effective.

* The shutter speed and aperture must be determined with an independent exposure meter or obtained with another camera with built-in metering system.



The Film Back SQ/B 120 included in the kit takes 12 pictures on one roll of film. The exposure counter begins at "S" (Start), and as the film is advanced to the first frame it displays "1". The counter advances with each exposure and proceeds through numerical sequence to an orange number "12", after which the counter displays an extended stripe also in orange, indicating the roll is finished.

When you use the SQ-i 220 Film Back which takes 24 pictures, read above descriptions replacing the number "12" with "24".



After completing exposing one roll of film (12 exposures), continue winding until the leader paper is completely wound up, or approximately 8 full turns of the advance crank. Then, open the back cover and take out the film holder.

Take out the take-up spool from the film holder, while holding the exposed film so that it will not unwind. Seal the exposed film.



The number on the shutter speed scale indicates the set shutter speed. For example "8S" is 8 sec., "2S" is 2 sec., "2" is 1/2 sec. and "500" is 1/500 sec. Intermediate speed settings are not available.

Shutter speed setting range on the Bronica SQ-B is from 8 sec., "8S", upto 1/500 sec. "500" and does not include B (bulb) and T (time). Installation of the PS lenses other than the PS/B 80 mm allows for "T" settings.

(See "13 Time (T) Exposure" on page 17.)

Setting the Shutter Speed Dial

- * The shutter speed setting can be changed before or after film winding operation.
- * The shutter is released at 1/500 sec., regardless of the settings when the battery is not loaded, or battery power is insufficient for normal shutter operation.

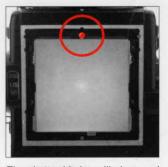
Shutter Release Button



12

Depress the shutter release button with a smooth, gentle action. Do not force or jerk.

* Following the shutter release, a red-colored LED will light up momentarily in the front central area of the finder and will indicate that the exposure has been completed. Carefully observe this red LED, especially when a slow shutter speed is released. Do not wind the film before the red LED lights up or you will forcefully terminate the camera operation before it is completed.



The shutter blades will close and there will be under-exposure if the film winding crank is accidentally rotated before the exposure is completed, as in the case of a slow shutter speed setting. In this case, the next frame may also be exposed and result in an improper exposure as well.

* Although the battery will not be drained by an accidental shutter release button depression, it is strongly recommended that you lock the shutter release button by rotating the locking ring and coincide the orange dot to "L" when

Shutter Release Button

camera is not in use to prevent accidental shutter release.

- * The shutter release button will not be operable in such cases listed below as a part of camera's safety measure to prevent improper camera operations.
- 1. Shutter release button is locked.
- 2. Dark slide is inserted.
- Film is not advanced.
 (Same when exposure counter is between "S" and "1".)
- 4. Shutter is not cocked.
- Lens is not attached properly.
 (Same with automatic extension tubes, too.)
- Lens release button is depressed.
- All frames (i.e., 12 frames for 120 roll film and 24 for 220 roll film) have been exposed.

13 Time (T) Exposure



Time exposure is not possible with the PS/B 80 mm lens supplied with the SQ-B camera kit.

When one of other Zenzanon-PS lenses is attached, time exposures can be made with the time exposure lever on the lens, regardless of the setting on the shutter speed scale.

A. First, cock the shutter with the film winding crank and then pull up the time exposure lever lock release.



- B. Slide the time exposure lever and release the shutter, when a red-colored "T" is exposed on the lens barrel. The shutter will stay open until the time exposure lever is moved in the opposite direction, exposing the letter "A", which will close the shutter.
- * Except for time exposures, always shift the time exposure lever so that the letter "A" is visible on the lens barrel and keep the time exposure lever lock release pushed in all the way.

Exchanging Lenses

The lens cannot be attached or detached unless the shutter is cocked.

Therefore, first, rotate the film winding crank and cock the lens shutter.



A. To attach the lens to the main body, align the orange dot on the main camera body and the red dot on the lens, and then insert the lens fully into its mount. Rotate in the counterclockwise direction until it stops, with an audible click, which will indicate that it is securely locked



B. To detach the lens, the film winding crank must also be rotated to cock the lens shutter first. Then, press the lens release button down and, at the same time, rotate the lens in the clockwise direction until it makes a full stop, at which point it will be possible to detach the lens.



A. The waist-level finder can be interchanged, with other optional finders, to match shooting conditions with photographic conditions. To attach the finder, align the front end of the finder frame on top of the camera main body, as shown. Then gently lower the finder and, when well-seated, slide forward until it locks.

- B. To detach, simply depress the finder release button, while, at the same time, sliding the finder backwards where it can then be taken off by lifting.
- * Finders incorporating exposure meters can be attached but the meter will not activate



A. The focusing hood of the waistlevel finder is opened by pushing up on the focusing hood catch at the rear end of the folded waist-level finder.

* Although instructions are based on the waist-level finder included in this kit, you may choose the Prism Finder S and other finder units to suit your photography.

Waist-level Finder and Interchanging Magnifiers



B. The magnifier is flipped into viewing position, by simply sliding the release lever in the arrow indicated direction.

To store the magnifier, simply push it down until it catches.

* The magnifier can be exchanged for one matching the eyesight of the user.



C. To close the focusing hood, first, push down the magnifier (if it is in viewing position). Next, press in both side frames, as illustrated, and, at the same time, press the front frame back towards the rear. The focusing hood will automatically be folded down.



D. The standard magnifier supplied with the waist-level finder has a power of -1.5 diopters, which can be exchanged for others with powers of -4.5, -3.5, -2.5, -0.5, +0.5 and +1.5 diopters. These optional accessories should be purchased to suit the user's eyesight, if necessary.

Simply rotate the magnifier frame in the counterclockwise direction to unscrew.

Attach in the reverse manner.

Setting the Aperture



A. The aperture ring is rotated, in either direction, to set the required f-number opposite the white index dot. The aperture ring click-stops at Intermediate settings are also possible.

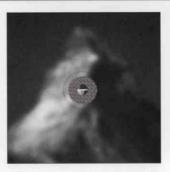


- B. All interchangeable lenses for the Bronica SQ-B have automatic lens diaphragms and the focusing screen is always viewed at the full aperture, providing the brightest possible image. However, depressing the depth of field preview lever will stop the lens aperture down to the pre-selected lens opening for the depth-of-field preview on the focusing screen.
- * The aperture ring must not be adjusted while the depth-of-field preview lever is being depressed.

- * Attached to other camera bodies, such as SQ-A, SQ-Ai, having a finder incorporated exposure meter, the PS/B 80 mm lens activates the camera and its exposure meter related features.
- * The Bronica SQ-B attached with the PS/B 80 mm will not activate a finder unit with a built-in exposure meter.



A. The lens is focused on the subject, by rotating the focusing ring in either direction, while checking the effect on the microprism/split-image range finder spot in the center of the focusing screen (standard type).



B. The central split-image spot splits the image into two, with the upper and lower halves separated horizontally when the lens is out of focus. When in focus, however, the two halves will coincide with the displacement disappearing. The microprism ring surrounding the central spot can also be used for checking the sharpness of the focused image, since the image will glitter when the lens is not focused. The surrounding full-area matte surface can also be used for checking overall image sharpness.





A. Distance scales on the Zenzanon PS lenses can be used for focusing at the required distance or finding the distance actually focused. Simply rotate the focusing ring and set the required distance opposite the orange-colored index to focus on an required distance.

B. There is an apparent zone of sharpness, the depth of field, both in front and back of the focused subject. The depth-of-field scale shows the zone of apparent sharpness at any lens opening or distance and can be utilized for ascertaining the depth of field. The



depth-of-field scale is next to the distance scales and is made up of identical pairs of apertures on both sides of the orange-colored distance index. These identical pairs of apertures indicate the distance zone in focus at these lens openings. For example, if the 80 mm lens, stopped down to f/22, is focused at a distance of 3 m (10 ft), the depth-of-field scale shows that the zone will extend from 2 to 7 m (7 ft. to 23 ft.) at f/22.

(See the depth-of-field table for the Zenzanon-PS 80 mm lens, on page 36.)



In infrared photography, some adjustment must be made in the focus in order to retain sharpness on the film, Because the invisible infrared rays are longer in wave length than the visible rays used for focusing. For infrared photography:

- Use a R filter or equivalent with an infrared (black-and-white) film
- The red-colored line, next to the orange-colored distance index, is the infrared index.
- After focusing in the normal manner, re-set the distance indicated by the orange-colored

Infrared Photography



distance index to the infrared index, by shifting the distance ring.

4. Follow instructions enclosed with the infrared film and filter and, to be on the safe side, make several bracketing shots. In general, more exposure rather than less seems to be a safe quide.

Flash Photography

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A. Always use flash cords with a standard PC type plug. When detaching the flash cord, grip the plug firmly and pull it out straight, and do not twist or pull on the cord.

B. The lens shutter of Zenzanon-S and PS series lenses have X-settings for flash synchronization, which allow all the electronic flash units to synchronize at all shutter speed settings, up to the fastest 1/500 sec.

This means, of course, that flash fillin for daylight shots can also be made very easily. * For the exposure control in flash photography, please refer to the instructions of the electronic flash unit and/or flash meter of your choice.



A. To make multiple exposures, rotate the film winding crank (to advance the film and cock the shutter). Turn the multiple exposure lever in the clockwise or arrow-indicated direction, which will expose a red mark. When set in this manner, the shutter can be released and cocked any number of times, without advancing the film.



C. Upon completing a multipleexposed picture shooting, be sure to return the multiple exposure lever back to its vertical position and cover the red mark

Otherwise, there will be additional multiple exposures on the same frame.



A. The mirror lock-up switch lever has three settings, or N, S and C, with the lever rotated to set N (normal) to the index for shooting without locking up the mirror and to S (single frame) or C (continuous) for shooting with the mirror locked up.

Mirror Lock-Up



B. For shooting with the mirror locked up, first, cock the shutter. Then, rotate the mirror lock-up lever in the arrow-indicated direction and coincide S or C to the index. The lens shutter will close completely and the reflex mirror and film safety plate will swing up.



C. The shutter will be released when the shutter release button or cable release is depressed.



D. When S is set to the index, with the mirror lock-up switch lever, the lever will automatically return to N, with the next film advance and shutter cocking action. All, following shots will, of course, be normal.

Mirror Lock-Up



E. When C is set to the index, with the mirror lock-up switch lever, the lever will not return to N, with the next film advance and shutter cocking action. Therefore, shooting with the mirror locked up will be possible any number of times.

* When the film winding crank is revolved, after exposing all 12 or 24 exposures, film winding only, in the normal manner, will not take place but the shutter will be released, with the mirror locked up, any number of times. Therefore, always return the mirror lock-up switch lever to N,



after the last 12th or 24th exposure, and wind the film in the normal manner.

F. To return to normal shooting, after shooting with the mirror locked up in the continuous mode, rotate the mirror lock-up switch lever and set S or N to the index; then, cock the shutter.

When shooting is suspended, with the camera lens cocked and mirror lock-up in the S or C mode, rotating the mirror lock-up switch lever to N, will result in one of the following actions:

- 1. Shutter will be released, or.
- Shutter will not be released furthermore, it will not be possible to press the shutter release button.

In order to prevent the above, shooting should be continued, in the manner described on the next page.



a. Cover the lens and take one blank exposure, as follows: First, return the mirror lock-up switch lever to N setting. Then, use the multiple exposure lever and expose the frame. Finally, after exposing the frame, reverse the multiple exposure lever.

(See "22. Multiple Exposures" on



 Utilize film back interchangeability and expose the frame after removing the film back from the main body.

Then, continue shooting, according to "a" preceding.

(See "3. Attachment and Removal of Film Backs" on page 8.)



A. The focusing screen can be exchanged, depending on the type of photographic work being undertaken.

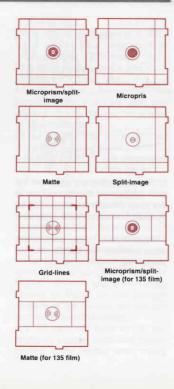
First, remove the finder attached to the main camera body. Next, move the screen removal levers on both sides in the arrow-indicated directions, as illustrated. Then, using a pair of pincers or similar tool, lift up the screen with the protrusion at the rear end.

page 25.)

Interchanging Focusing Screens



- B. To install the focusing screen, insert the protrusion at the rear end of the screen in a corresponding groove on the main camera body. Then, slide both screen removal levers forward to secure the focusing screen.
- * Seven types of focusing screens are available for the Bronica SQ-B.



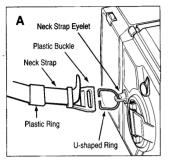
Removal/Attachment of the Film Winding Crank

25



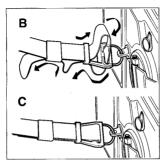
The film winding crank can be detached by pulling out the crank shaft as illustrated and the Speed Grip S may be attached in its place. For use, see instructions supplied with the Speed Grip S.

* The Motor Drive SQ-i can not be attached to the Bronica SQ-B.



- A. First, insert the U-shaped ring into the neck strap eyelet, as illustrated.
- B. Next, place the plastic buckle over the U-shaped ring.

Then, thread the neck strap through the plastic buckle (and the Ushaped ring) and pull it out, as shown by red arrows.



- C. After adjusting the length of the neck strap, pass the leading end of the strap through the strap ring, as illustrated, which will fix it securely.
- * There should be no slack in the strap between the buckle and the plastic ring.

Facts about the Battery

The battery supplies power for the various electronic control mechanisms incorporated in the Bronica SQ-B. When used incorrectly, there is possibility of the wrong exposure being set to the camera and/or the camera not operating.

Be sure to use and store the battery correctly for obtaining optimum performance from it at all times.

- Take the batteries out of the battery chamber when storing the camera.
- Leaving the batteries in the camera for a long time, without using it, can lead to leakage problems and result in poor contact. Discard a batteries with leakage or corrosion and thoroughly clean out the battery chamber, before inserting a new batteries.
- Clean the contacts of the battery chamber and battery with a soft cloth. do not use sand paper or emery cloth.
- Do not throw the batteries into a fire, or hit it strongly, as there is danger of explosion.
- A silver-oxide or an alkalinemanganese battery used with the

Facts about the Battery

Bronica SQ-B works well at a low temperature. However, there is a tendency for performance to drop when the temperature falls below O°C (32°F). therefore, make it a rule to use new batteries and/or keep replacement batteries on hand for shooting outdoors in freezing weather. Keep the batteries (and camera) under cover, next to the body, and load just before beginning the session and/or, preferably, use the optional Remote Camera Battery Pack Ei.

Pointers on Shooting

- The shutter cannot be cocked when film is not loaded in the film back. The use of the multiple exposure lever will, however, permit you to cock the shutter, in such instances. This feature is, of course, very convenient for familiarizing yourself with the camera and for testing the shutter in flash photography.

 (See "22. Multiple Exposures"on
- page 25.)

 Battery power is not consumed when time exposures are made.
- The battery voltage will drop when the camera is used for long shooting sessions in freezing weather. Insert new batteries or keep a spare on hand, for such occasions. Furthermore, keep such batteries in an inside pocket.
- The focusing screen is detachable, for exchanging with other types. Do not place trimming masks or tapes on the bottom surface of the screen, as this will lead to inaccurate focusing.
- A red LED will flash above the focusing screen area and signal closing of the shutter when taking

- the picture. Wait for this signal, especially at slow shutter speeds, before rotating the film winding crank.
- It should be remembered when compose pictures, that the final print may not be a square format when printed, but will be cropped on both sides or at the top and bottom.
- The optional Remote Camera Battery Pack Ei should be used with the SQ-B. The optional Remote Camera Battery Pack SQ-i cannot be used.
- Time (T) exposure is not obtainable with the standard Zenzanon-PS/B 80mm lens (supplied in the SQ-B kit) but time exposures are feasible when other Zenzanon-PS lenses are attached.
- Although the battery will not be drained by depressing the shutter release button half way, it is recommended that the shutter release button be locked to prevent accidental release of the shutter.
- The various accessory film backs can be attached but the film speed dial will not operate.

Care of the Bronica SQ-B

- Restrict cleaning of the reflex mirror to blowing or brushing with the blower brush or a soft camel hair brush. Do not touch the surface with your fingers or a cloth.
- Use lens cleaning tissue and liquid to lean the surface of the lens. Do not use silicon-coated cloth for this purpose, as it will prove detrimental to the lens coating.
- Clean the plastic focusing screen in the same manner. Do not touch the surface as you may leave fingerprints.
- Protect your camera from temperature changes which can result in moisture condensation, frost, etc., inside the body, leading to rusting of metallic parts and troubles.
- Protect your camera from impact and vibrations, too.
- Upon attaching the film back, always pull out the dark slide from its slit.
- Always protect the lens with its cover, when carrying the camera.

- Clean the camera and lens very carefully after using it outdoors in wet weather or at the seashore.
- Wipe the camera carefully with a well-wrung damp cloth, using fresh water, if the exterior is effected by salty air. Then, wipe it dry with a soft, dry cloth. If necessary, send it out for a quick inspection at an authorized repair station.
- If the equipment is not being used for a long period, store everything in tin-lined containers, with plenty of desiccant, such as silica gel. Finally store the equipment in a cool, dry and well ventilated (but not windy) place.
- Do not over tighten, when using a longer-than-standard tripod screw, as you may damage the body.



• Both main camera body and lens must be in the "cocked" condition to attach or remove the lens. In other words, when "cocked" the cocking pin of the lens will be set between the red band and green dot, while the cocking pin of the main body mount will be set to the green colored dot

When not set in the above manner, the cocking pin of the detached lens can be set by moving it manually, while the cocking pin of the main body mount will be set by revolving the film winding crank.

Depth-of-Field Table

Zenzanon PS/B 80 mm, F/2.8

Depth-of-Field Distance Range (meters)											
F-No.	Focus Dist.	∞	10	5	3	2	1.5	1.2	1	0.9	0.8
2.8	Farthest	∞	12.9	5.62	3.20	2.08	1.54	1.23	1.02	0.91	0.81
	Closest	43.5	8.17	4.51	2.82	1.92	1.46	1.17	0.98	0.89	0.79
4	Farthest	∞	14.5	5.90	3.29	2.12	1.56	1.24	1.02	0.92	0.81
	Closest	31.4	7.63	4.34	2.76	1.89	1.44	1.16	0.98	0.88	0.79
5.6	Farthest	∞	17.9	6.38	3.43	2.17	1.59	1.25	1.04	0.93	0.82
	Closest	22.2	6.95	4.12	2.67	1.85	1.42	1.15	0.97	0.87	0.78
8	Farthest	∞	26.8	7.20	3.65	2.26	1.63	1.28	1.05	0.94	0.83
	Closest	15.7	6.17	3.84	2.55	1.80	1.39	1.13	0.95	0.86	0.77
11	Farthest	∞	89.2	8.82	4.01	2.38	1.69	1.32	1.07	0.96	0.84
	Closest	11.2	5.33	3.50	2.40	1.73	1.35	1.10	0.94	0.85	0.76
16	Farthest	∞	∞	13.0	4.66	2.59	1.79	1.37	1.11	0.98	0.86
	Closest	7.92	4.47	3.12	2.22	1.64	1.29	1.07	0.91	0.83	0.75
22	Farthest	8	∞	39.1	6.07	2.95	1.95	1.46	1.16	1.02	0.89
	Closest	5.62	3.65	2.70	2.01	1.52	1.22	1.02	0.88	0.81	0.72

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	Depth-of-Field Distance Range (feet)										
F-No.	Focus Dist.	∞	30	15	10	7	5	4	3.5	3	2.6
2.8	Farthest	∞	37.7	16.7	10.7	7.32	5.15	4.09	3.57	3.05	2.67
	Closest	143	24.9	13.6	9.39	6.71	4.86	3.91	3.43	2.95	2.61
4	Farthest	∞	42.0	17.4	11.0	7.45	5.21	4.13	3.60	3.07	2.67
ļ .	Closest	103	23.4	13.2	9.18	6.60	4.80	3.88	3.41	2.94	2.61
5.6	Farthest	∞	50.3	18.7	11.5	7.66	5.31	4.19	3.64	3.09	2.71
	Closest	72.9	21.4	12.6	8.88	6.45	4.73	3.83	3.37	2.91	2.57
8	Farthest	∞	70.0	20.8	12.2	7.97	5.45	4.27	3.70	3.14	2.74
	Closest	51.7	19.2	11.8	8.48	6.25	4.62	3.77	3.32	2.88	2.54
11	Farthest	∞	15.8	24.8	13.4	8.46	5.66	4.39	3.79	3.20	2.77
' '	Closest	36.6	16.7	10.8	7.99	5.98	4.48	3.68	3.26	2.83	2.51
16	Farthest	∞	∞	34.0	15.7	9.27	5.99	4.58	3.92	3.29	2.84
	Closest	26.0	14.1	9.69	7.38	5.65	4.30	3.56	3.17	2.76	2.48
22	Farthest	∞	∞	72.8	20.6	10.7	6.54	4.88	4.13	3.42	2.94
	Closest	18.5	11.6	8.46	6.66	5.23	4.07	3.40	3.05	2.68	2.38