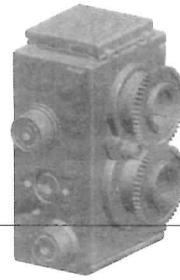


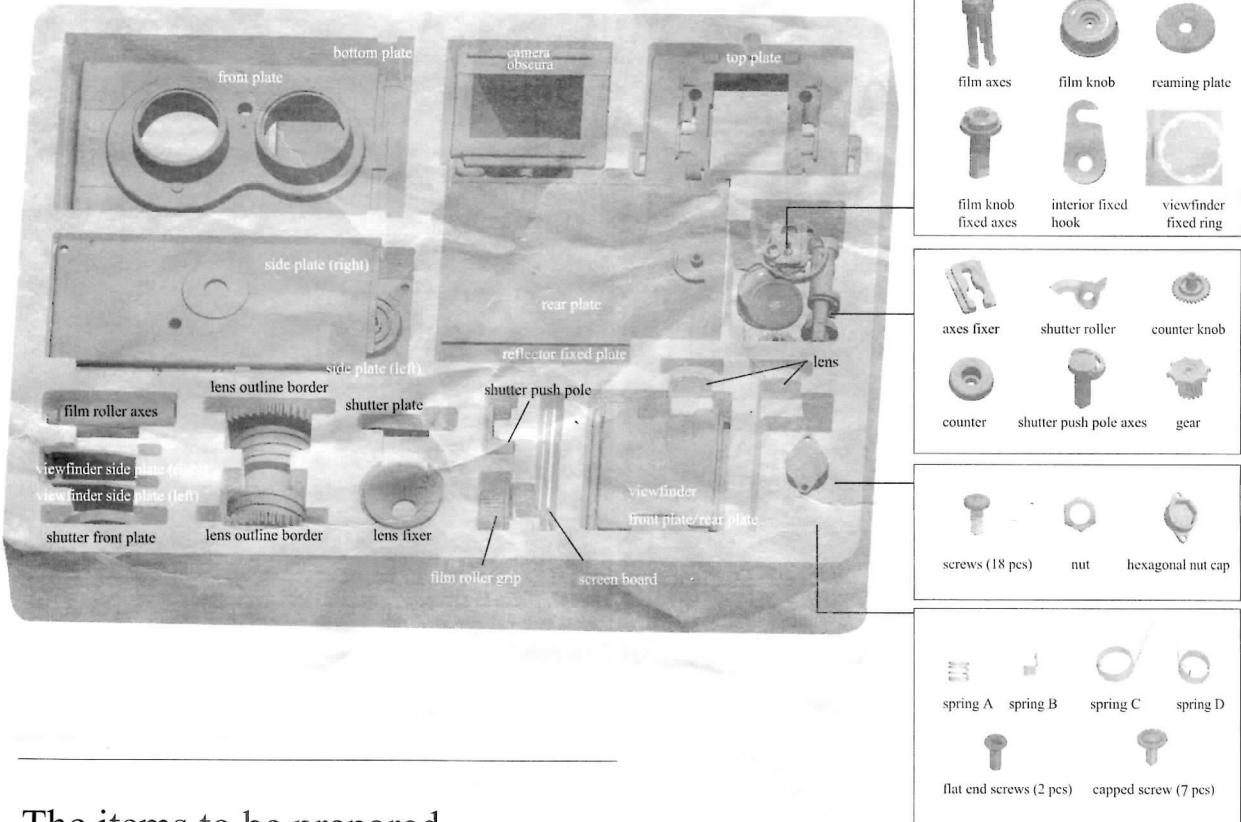
***TWIN LENS
REFLEX CAMERA***

Q Version Vintage Twins Lens Reflex Camera



Assembly period: 1 hour

Packing list



The items to be prepared

35mm film (24-27 pcs/ roll), transparent adhesive tape



Caution: read below carefully before assembly

- Be careful to take sharp items to avoid injury.
- Don't eat tiny parts like bolts etc. to avoid choke.
- Don't see the sun view the viewfinder to avoid your eyes get damaged.
- Be careful to the cars passing by you during you are taking pictures on road to avoid traffic accident.
- Keep away from the place where children can reach.
- ※ Read this manual and be attention to all cautions very carefully before you use this camera.
- ※ For the safe purpose, please follow up all requirements in the manual seriously, and, don't use the damaged parts anytime.

Turning Screw

(please prepare one screw driver yourself)

Basically use 70% power to press the screw or bolt and use 30% power to turn it. All screws are made of plastic, have grooves, big power will damage the screws easily and then camera can't work properly. The end of the accessory screw driver is already magnetized, but if the magnetization is weak, just take a magnet to rub the end of this screw driver in same direction for a few times.

- Plastic parts component:

Top plate, shutter button, shutter front plate, shutter roller axes, shutter connecting rod axes, film axes, interior fixed hook, viewfinder fixer, axes fixer, counter knob

Gear: POM

Lens: AS Screen plate: PET Reflector: PC

Connecting rod: PE Other parts: ABS

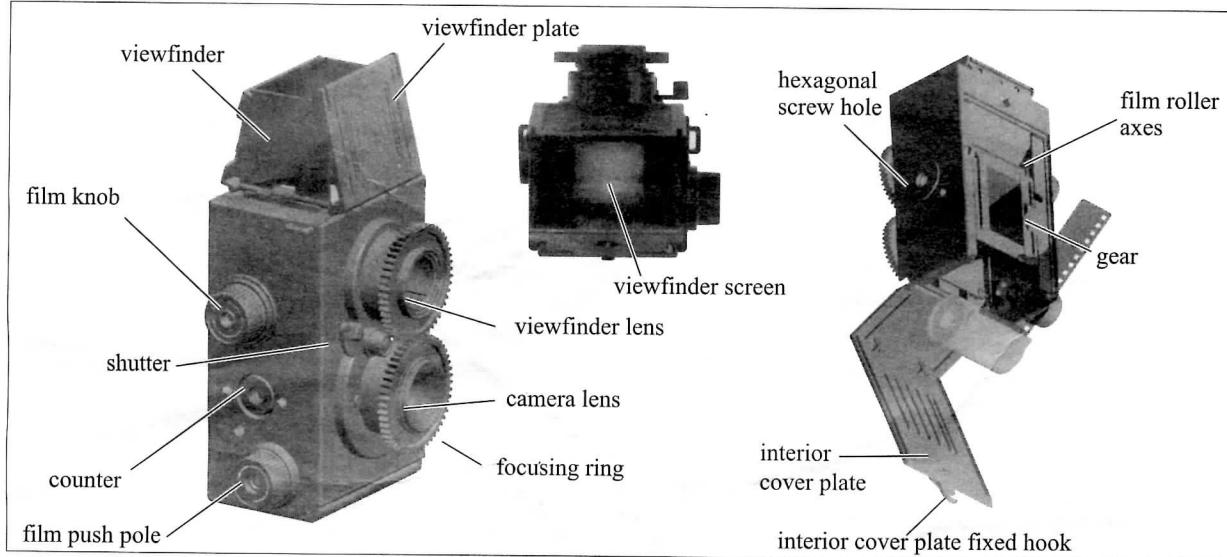
- Metal parts material:

Spring A/B: Copper

Spring C/D, Screw driver: Metal, Nickel alloy

Screws: Metal

Complete Diagram & Name of Parts

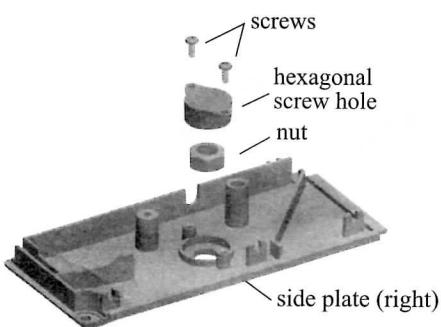


Begin the assembly of camera body

1 Assembly the right side plate

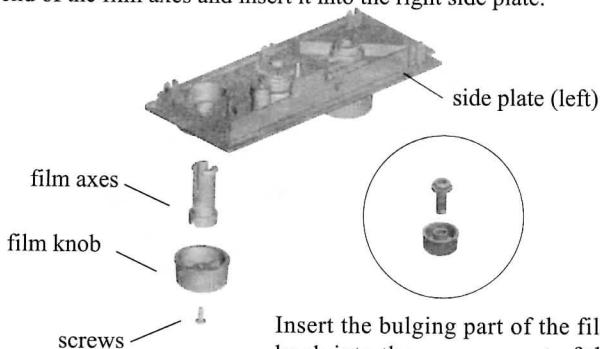
1. Assembly hexagonal screw hole

Fix the hexagonal hole on the right interior side plate by two screws and nut



3. Install film knob

Fix the film knob and film axes with screw, fix the hexagonal hole on the right side plate with screw and nut, hold the front end of the film axes and insert it into the right side plate.

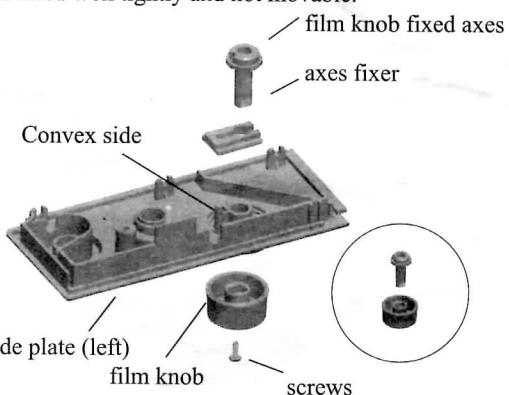


Insert the bulging part of the film knob into the concave part of the film axes, so the film knob can turn with film axes together.

2 Assembly the left side plate

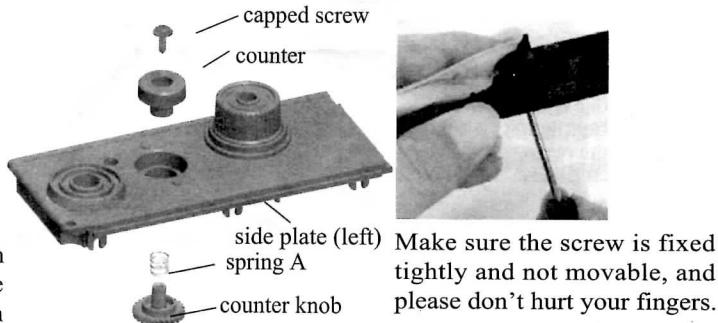
1. Install the file knob

Insert the film knob axes into the bigger hole of the axes fixer, shape the hole of the film knob same as the front end of film fixed axes, so the film knob can be turned with the axes together, make sure the screw is fixed well tightly and not movable.



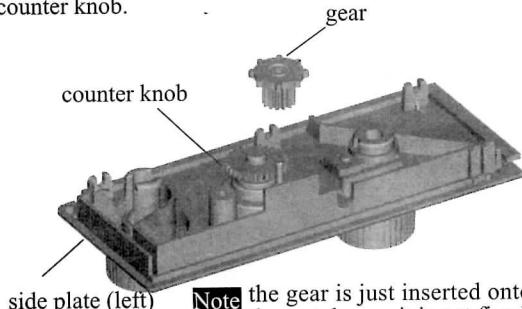
2. Install the counter

Insert the spring A into the counter knob, hold the left side plate and fix the counter on it with screws, and then turn the counter knob, check if the counter can synchronise with the counter knob.



4. Install gear

Insert the gear onto the metal axes on the left side plate and fit the counter knob.



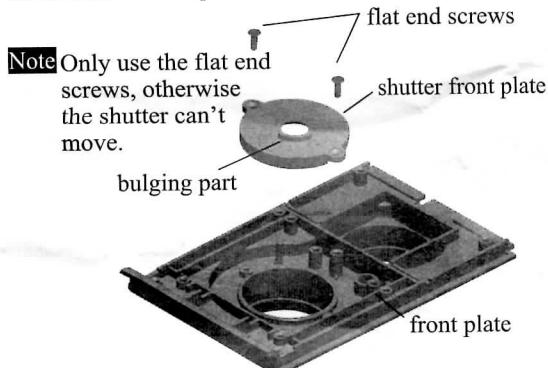
Note the gear is just inserted onto the metal axes, it is not fixed, so please don't lose it.

3 Install the front plate

Install the shutter

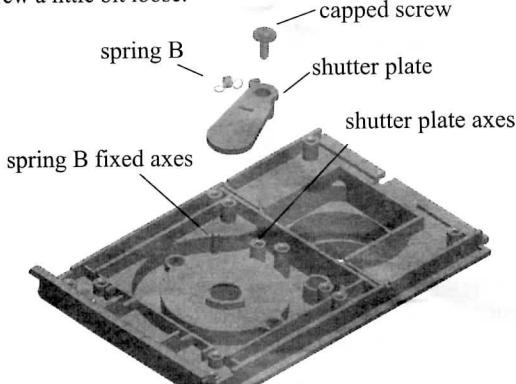
1. Install the shutter front plate

Please note the bulging part of the shutter front plate is up, and fix the shutter front plate with two flat end screws.



2. Install the shutter plate

According below picuture (the installation of spring B), fix the shutter plate and spring B on the front plate, and make sure the shutter plate can move properly and easily, if not, please get the screw a little bit loose.

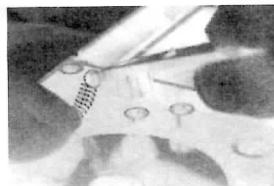


The installation procedure of spring B

- ① Put one end of spring B on the shutter plate.
- ② Put the other end of spring B on its fixed axes on the front plate, press it by your thumb, and make sure it will not fall off.
- ③ Insert the shutter plate into the shutter plate axes on the front plate, please note, don't get the spring B longer.

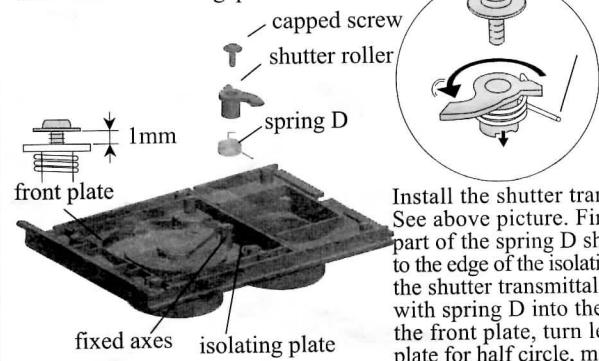
Note The spring B is so tiny, don't pull it too long, otherwise it will affect the shutter's work.

- Make sure the spring B will not bounce off during the installation as it is really too tiny.



3. Install the shutter plate transmittal pole

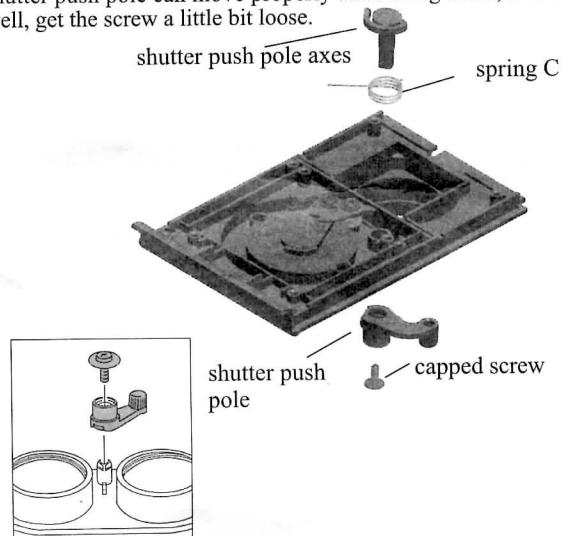
Put the spring D on the shutter plate transmittal pole, and install this onto the front plate with the capped screws, at the beginning, turn the screw until there is a 1mm gap.



Install the shutter transmittal pole:
See above picture. First, the longer part of the spring D should get close to the edge of the isolating plate, insert the shutter transmittal pole which is with spring D into the fixed axes of the front plate, turn left the shutter plate for half circle, make sure it can stick on the capped screw, and then turn the screws on the shutter plate tightly now.

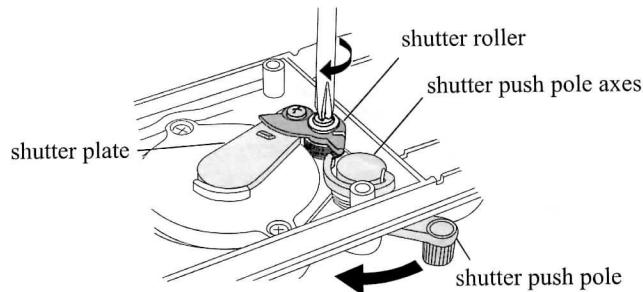
4. Install the shutter push pole

Put the spring C into the axes of shutter push pole, and then fix the shutter push pole on the front plate, turn right the axes and insert the shutter push pole at the same time, and then fix it with capped screw. Make sure the shutter push pole can move properly after being fixed, if it can't move well, get the screw a little bit loose.



5. Rectify the screw of the shutter transmittal pole

Operate the shutter push pole as rectify the screw little by little, too tight to move, get loose the screw by half circle, operate the shutter push pole again, check if all parts work together properly, if so, you can hear ringing "click" sound.

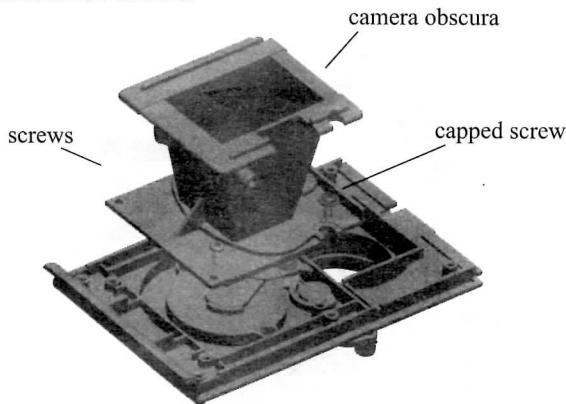


Shutter action confirmation

Face the hole to the brightness, make sure the shutter can work, it is normal if you can see a round hole instantly as soon as the shutter open, if not, please check if you did the installation properly, repeat this a few times until the correct assembly is done, if the camera can't work properly, check the screws and other parts carefully and rectify the necessary parts.

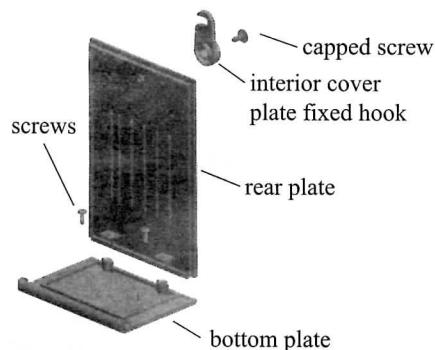
Install the obscura

Install the obscura front plate, fix the obscura with two capped screws, and the other side of obscura without screws will float out, installation finished.



4 Install the interior cover plate

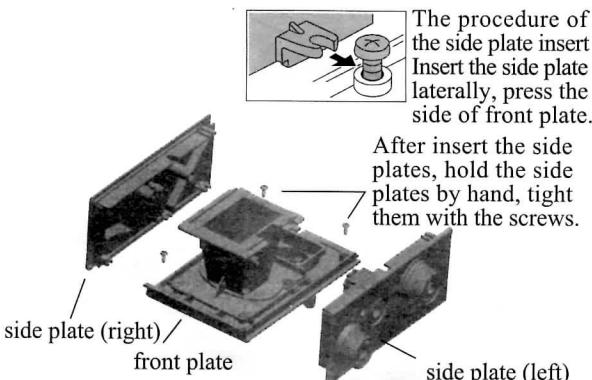
Install the rear plate and bottom plate which are assembled with the interior cover plate fixed hook into the rear plate with the capped screw. If the fixed hook can't move, get the screw a little loose, too loose screw will cause light leak.



5 Camera body assembly

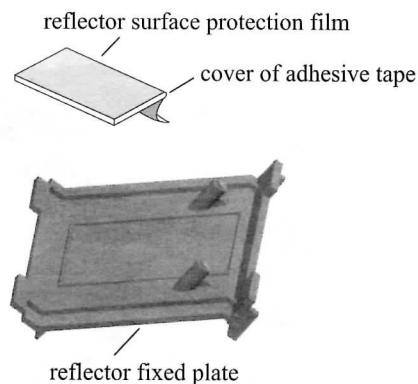
1. Install the side plate on the front plate

Turn 6 screws on the front plate tightly, and turn 2 screws on one side of the front plate, and don't turn other 4 screws too tightly.



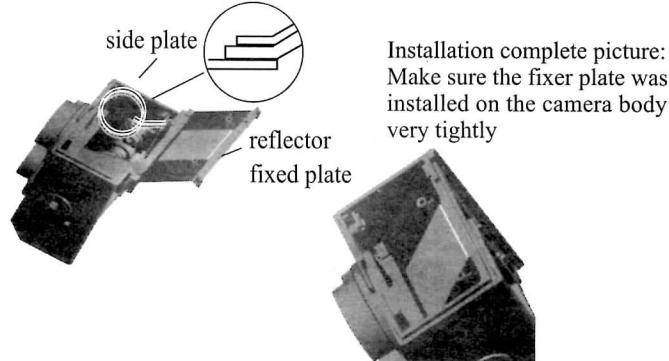
2. Install the reflector on its fixer plate

There is double faced adhesive tape on the back of the reflector, tear the cover of tape, stick the reflector inside the frame of the reflector fixer properly.

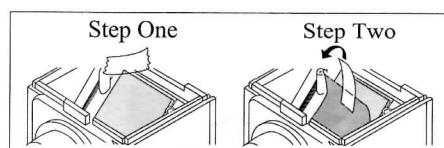


3. Install the fixer plate on the camera body

Pull the side plates to out to left and right while insert the fixer plate, after the proper installation complete, tear off the reflector surface protection film, insert the bottom of the fixer plate into the slit of side plate.

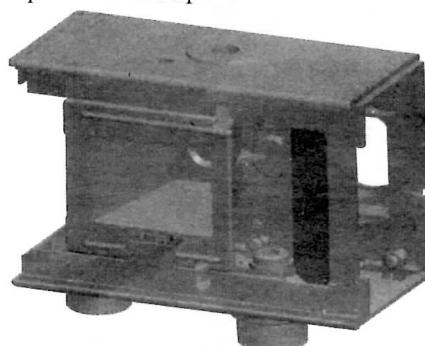


The procedure of tear off the protection film:
Use the tape to stick the film and then tear it off, keep the reflector clean, don't touch the reflector with your finger any time.



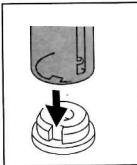
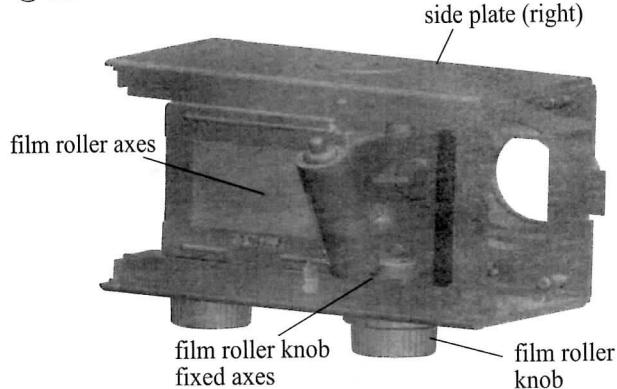
4. Fix the middle part of the side plate of the camera body

Stab the pre-cut part with the accessory screw driver and the hole of obscura, use two screws same as the one for side plate fitting to fix the middle part of the front plate.



5. Install the film transmittal axes

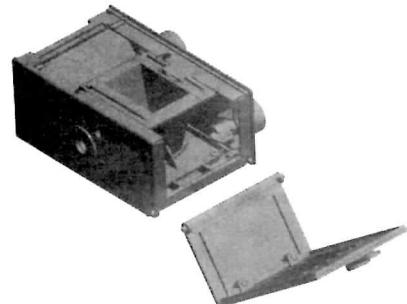
- ① Insert the front end of the transmittal axes into the groove of the right side plate.
- ② Insert the transmittal axes into the fixed axes of the film roller grip while Spreading out the side plates.
- ③ Fit the transmittal axes with film roller fixed axes.



No need to turn the transmittal axes once the bulging part of the transmittal axes is inserted well onto the concave part of the film roller knob.

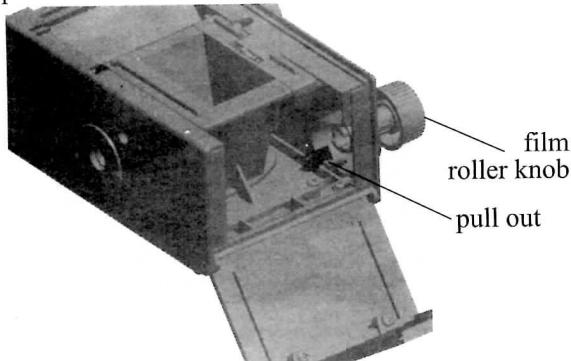
6. Install the interior cover plate on the camera body

Insert the cover into the camera body while spreading out the side plates.



7. Fix the side plate of the camera body

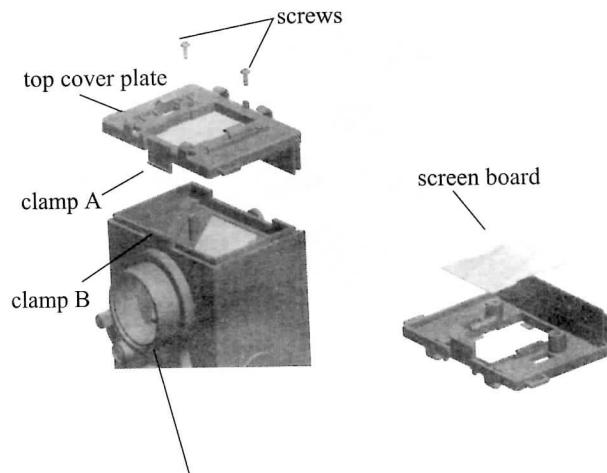
Turn the screw of bottom part of front plate tightly while holding the side plates from two sides of the camera body. The film roller knob can be pulled out while you install the side plates.



6 Viewfinder assembly

1. Install the top cover plate

Insert the screen board into the top cover plate, install it on the camera body, fix with screws.

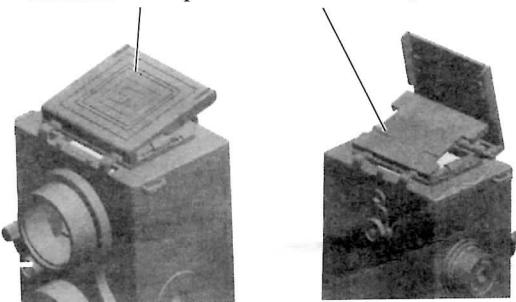


Push the clamp of the top cover plate and the clamp of camera body, insert it on the front of the top cover plate. After this installation, push this assembled part down to install it tightly.

2. Install the viewfinder holder

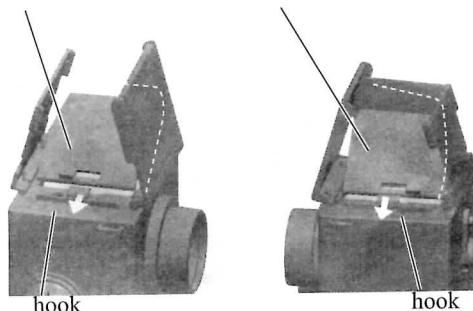
Viewfinder holder consist of viewfinder front plate/ rear plate/ side plate (left)/ side plate (right), totally 4 plates. Please install it as per the below procedure: First, insert sideways the front plate and rear plate into the top cover plate.

viewfinder front plate viewfinder rear plate



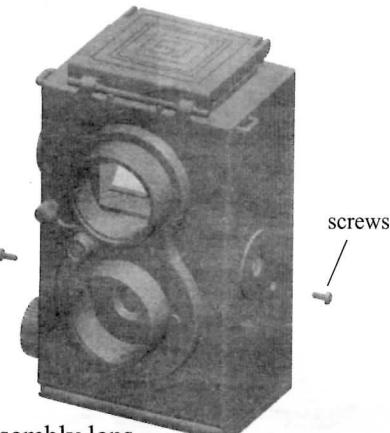
Stand the front plate and rear plate by hand, insert the side plate (left and right) sideways into the top cover plate, face the hook of the side plate outside, install it on the camera body, please don't insert the plates on wrong left or right location.

viewfinder side plate (right) viewfinder side plate (left)



3. Fix the side plate of camera body

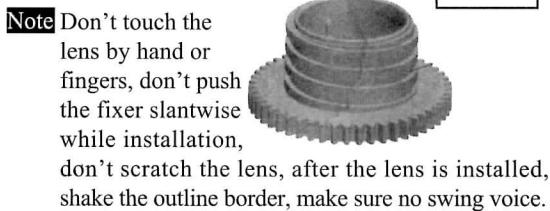
Fix the side plate with screws from the side of camera body



7 Assembly lens

1. Assembly the viewfinder lens

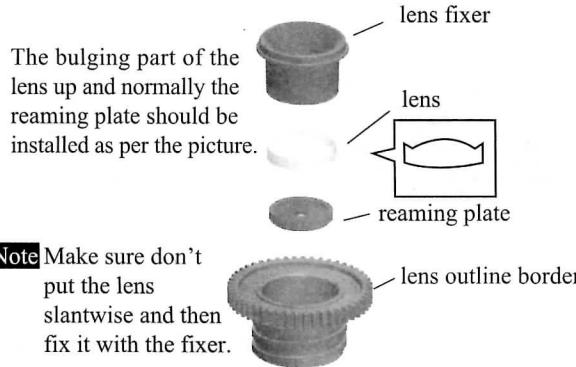
Note the correct direction, put the lens into the viewfinder lens outline border, and then put the viewfinder fixer and fix it, two lenses are totally same, so just take one from these two lenses. The bulging part of the lens should face down, and the smooth end of the fixer faces the lens. The fixer of camera lens should be pushed into the deepest location during the installation.



Note Don't touch the lens by hand or fingers, don't push the fixer slantwise while installation, don't scratch the lens, after the lens is installed, shake the outline border, make sure no swing voice.

2. Assembly camera lens

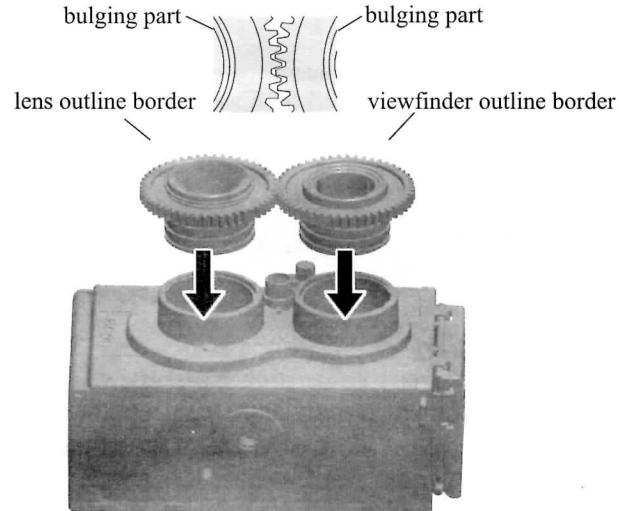
Put the reaming plate into the outline border of the camera lens, the fixer of lens should be installed to the lens and fix the lens well.



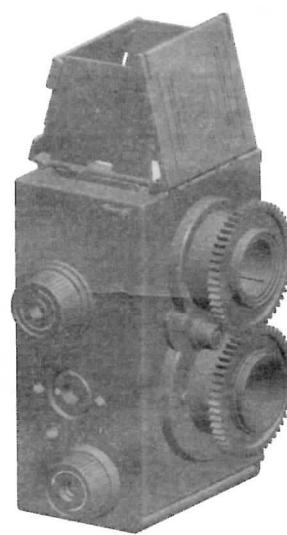
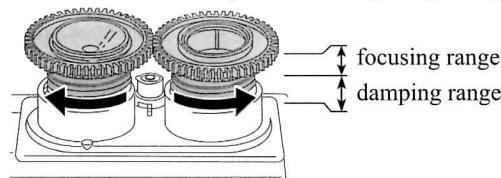
Note Make sure don't put the lens slantwise and then fix it with the fixer.

3. Viewfinder lens and camera lens

The camera lens outline border jiggles with the bulging part of viewfinder outline border, to install these two outline border on the camera body, the viewfinder should be installed the location near the viewfinder.



The camera lens outline border and the viewfinder lens outline border should be installed as per the picture, if they can't be turned well, please don't turn it reluctantly, turn it back and try again and make sure it can be turned properly and smoothly, the turning range of this is the regulating range of focus length. If it was set with damping in order to avoid the lens fall off during the focus length regulating.



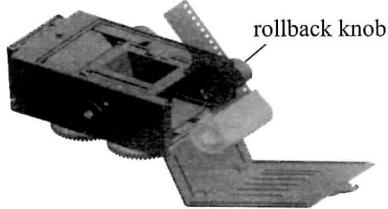
DONE!

Let's get start it (Quick Start Guide)

1 Film setting

1. Insert 35mm film

Loose the fixed hook of the interior cover plate, open the interior cover plate, pull out the rollback knob, and then insert a 35mm film.



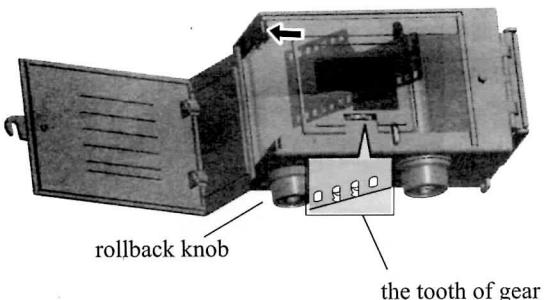
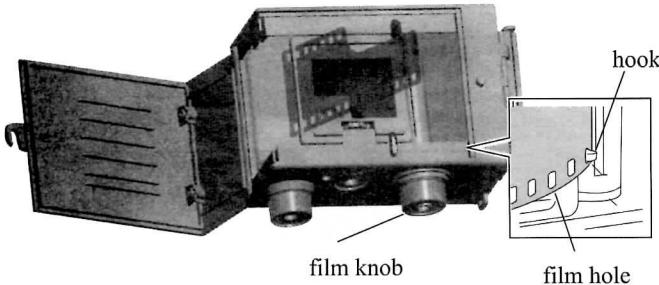
All standard 35mm films are compatible, and please pay attention to the up and down direction while inserting a film.

Note

- The ISO 200 or 400 film is strongly recommended.
(24-27 pcs/ roll).

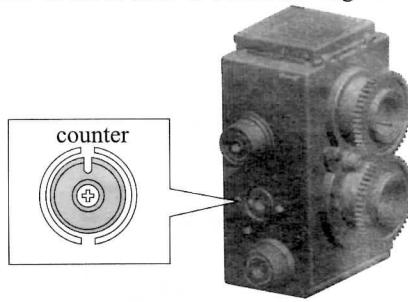
2. Set the 35mm film

Fix the film by turning the rollback knob, put the front end of the film into the groove of the film transmittal axes, put the hole of the second to third page film on the hook, and then turn the film knob for a circle.



Pull out the film, insert the tooth (sharp end) of the gear into the holes of film, make sure they are fitted well. Turn a little the rollback knob, get the film a bit loose.

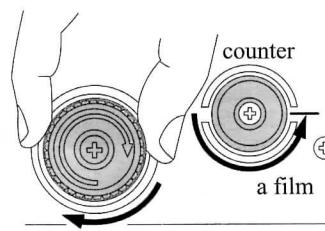
3. Close the interior cover plate, reset the counter. Close the interior cover plate and then the fixed hook, fit the groove of the counter to which one edge of the film.



Note

- Don't turn the film knob or rollback knob while you are resetting the counter.

4. Turn the film by the film knob, start shot images. Turn the film knob for 2 pages film, the preparation of shot is complete.

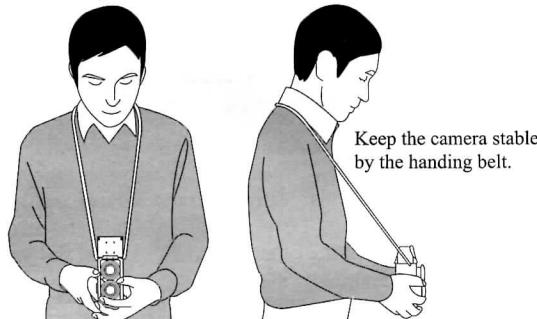


Film turning guide, Look at the counter while you are turning the film knob, half circle turning on the film knob means one page film.

Note

- The counter can be turned easily, so don't touch it unless necessary.
- Don't forget to turn the film knob after shot, make a good habit to turn the film knob before or after shot, and always do the same.
- If the counter moves before the film is turned, please regulate the counter to the correct position before shot.

The basic shot posture of twin lens camera



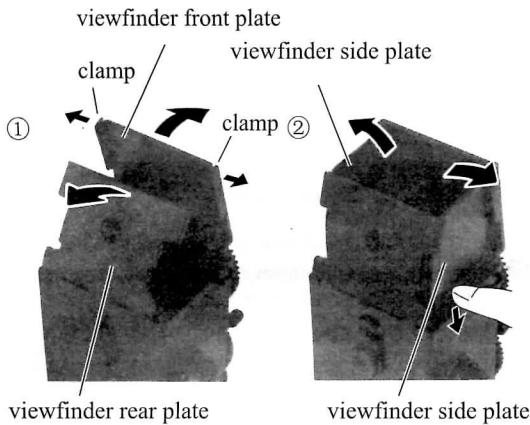
- ① Open the viewfinder.
- ② Look down the viewfinder and finish the focusing. Keep your eyes 20-30mm distance to the screen board while focusing, too close to see image clearly. And, please note the image on the viewfinder is reverse to the real object.
- ③ Hold the shot lens by left hand, and shutter by right hand.
- ④ Use the handing belt to keep the camera stable if possible while shot. The handing belt hand the two sides of the camera, pull the handing belt gently, then the camera can be keep stable.
- ⑤ Hold your breath while shot, push the shutter gently and please note don't shake the camera.

2 Take pictures

1. Open the viewfinder

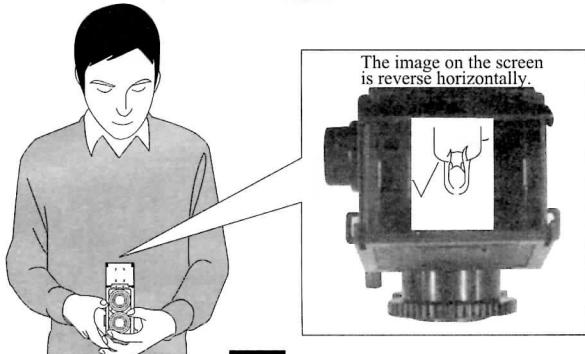
① Spread two sides of the front plate of the viewfinder up while spreading the rear plate.

② Press the front and rear plates and while putting the clamp by your finger, and then spread two side plates.



2. Focusing

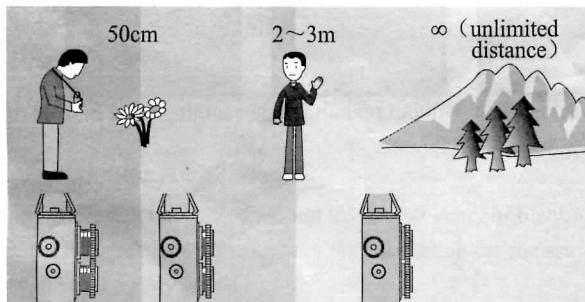
Turn the outline border of the shot lens, i.e. the focusing ring, can focus the object you are going to shoot.



Note

Keep your eyes 20-30mm distance from the viewfinder screen, too close to focus well.

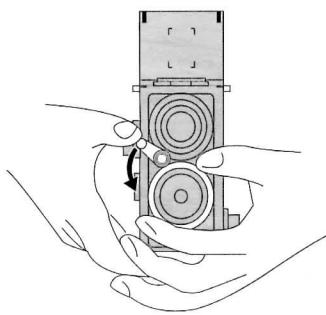
Focus Range



It will exceed the focus reasonable range if the lens too far or too close to object, this will causes blurred images, in order to assure good quality pictures, make sure the distance is within a few meters far only.

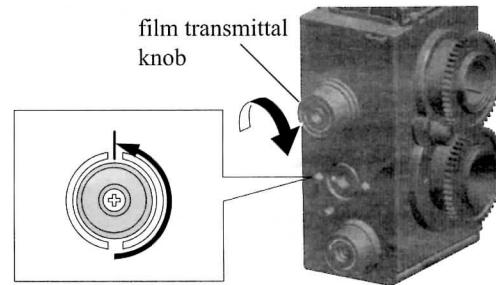
3. Simply push the shutter button for shot

Don't shake the camera, keep it stable. Elbow your pleural region and push the shutter button gently.



4. Turn the film

Turn the film through the film transmittal knob.



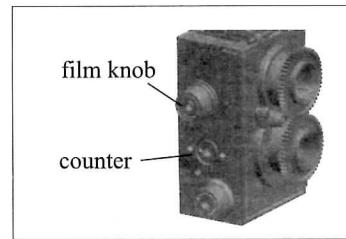
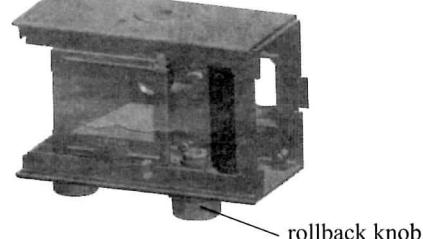
Turn the counter groove 180° means one page film is transmitted, it means the film finishes if the film transmittal knob can be turned.

Note

- The counter does not indicate the film pages quantity.
- Don't push the counter and rollback knob when the film knob is being turned.
- Don't turn the film knob rudely once the film finishes, otherwise the film knob will get damaged.

5. Roll back the film

After finish taking pictures, the film will be rolled back to the film tube when the rollback knob is turned, when the strength get very small it means the film rolling back finish, you can take it out.

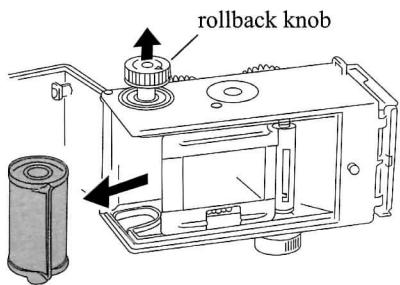


The way to confirm if the rolling back is finished.

If the rolling back finish, the film knob and counter will not move even the rollback knob is being turned.

6. Take the film out

Loose the interior cover plate, pull out the rollback knob, take the film out. The film now is ready for developing pictures.



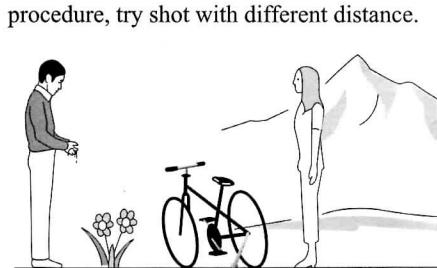
Cautions of pictures developing

- The pictures are taken under manual mode, so the gap between each page film is different, if the pictures are developed by machine, it may cause some pictures are cut, in order to avoid this problem, the manual developing via medicinal liquid is recommended and then get perfect pictures.

Adjustment

1 Confirm the test shot

The initial test shot is recommended as per the operation

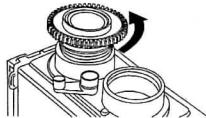


Confirm below items:

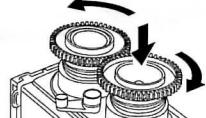
- If light leakage occurs
- Check if the focus length is suitable on the viewfinder
- What's the reasonable distance for focusing
- What's the suitable brightness
- Can the film be transmitted smoothly (the gap between each page is same or similar)

2 Adjust the position of the lens

If the focus length is confirmed not suitable after the test shot, please adjust the shot lens vertically.



Pull and turn 1/4 circle on the first put lens.



The outline border of the latter put lens has bulging part.

Then turn the outline border of the latter put lens, it turns with the first put one, they gear each other.

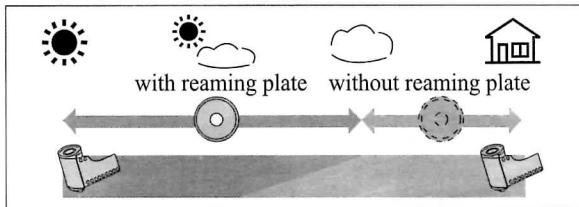
NOTE

See the photo, if the viewfinder lens was put first, the operation is totally different, the adjustment is required to be done from the reverse direction of the camera direction.

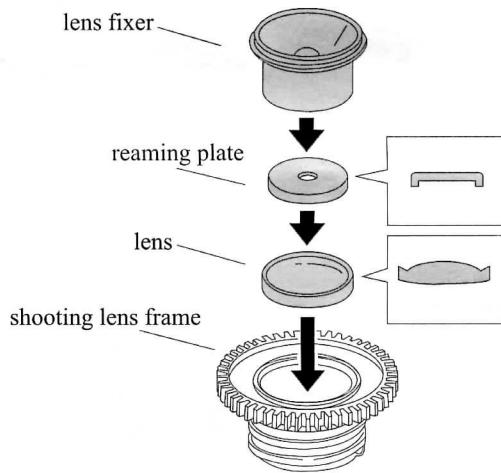
Start taking pictures (Application Guide)

1 Use the reaming plate and film preferably to take pictures.

Use the reaming plate or not and the ISO of film base on the brightness of the area where and when you are taking pictures. Dark side file has wide record range (exposure range), it can rectify the pictures in some degree sometimes, so convenient.



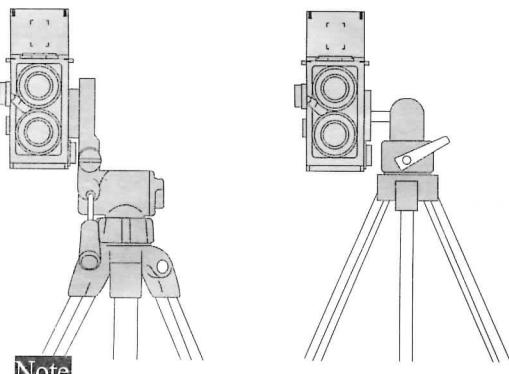
Think about what you need to decide if you need the reaming plate or not, the bigger range focusing is achieved with reaming plate, the background of the object can be blurred if the reaming plate is fixed outside, and, fixing the reaming plate in front of the lens can make the strong inverted image effect occurs.



with reaming plate without reaming plate reaming plate in front of lens

2 Use the tripod to take pictures

The tripod can avoid shake and help you to get clear pictures.



Note

- The hole for tripod is on the left side plate, so please turn tripod platform 90° to install the camera.



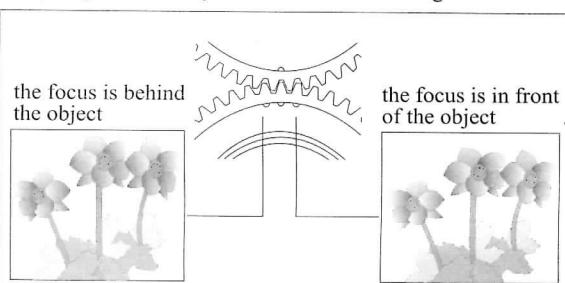
Q: It is not able to focus properly

A: Make sure the lens is installed correctly, face the exact direction.

A: Keep suitable distance between your eyes and the screen, otherwise you are unable to get a correct judgement.

A: Make sure both the screen and reflector are installed properly.

A: Try to give a fine adjustment on the focus length.



The fine adjustment of focus length:

If the focus length of real object is different from the one you find on viewfinder, please regulate the gearing position of the shooting lens and viewfinder lens, please check the procedure of lens position regulation we descripe in the previous page, regulate the first put lens outline border's rotations to solve the problem.

Q: The picture is dark, the color is not good

A: No enough exposure, please refer the description of "use the reaming plate and film preferably to take pictures."

A: The shutter might not be open completely, refer the (the confirmation of shutter action).

Q: The picture is too bright

A: Double check the film, if all part except the image is black, the light leakage might occurs, check if all screws on the camera body is fixed tightly or not.

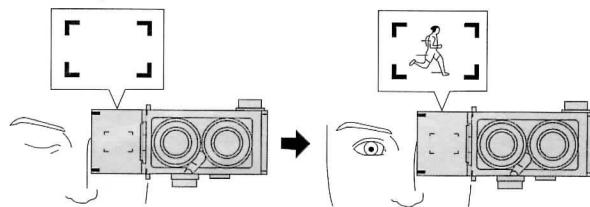
A: If the film was kept inside the camera and not used again, this will cause dark picture, try best to finish the film or keep the camera with the film in the cool and dark area.

3 Use the sport viewfinder to take pictures

If the object moves after the focusing, it is convenient to use the sport viewfinder, and you can turn the camera horizontally.

The way to see object in the sport viewfinder:

- ① Close an eye and use the other eye to see the object from the ostiole on the rear plate of the viewfinder, you can see the four angles on the front plate.
- ② Open your eyes, you can see the background and four angles at the same time, you can decide the shooting range.



Q: Ghost image

A: Counter is not reset properly, refer (the assembly of side plate of camera body) to adjust spring position and the screws tightness or not.

Q: The shutter can be operated smoothly

A: Refer (shutter assembly) to adjust and rectify all parts.

Q: The counter does not run

A: Refer (the assembly of the side plate of the camera body) to adjust spring position and the screws tightness or not.

Q: The film can't be transmitted

A: The holes of film can't gear the gear, please double check it.

A: The film can't be put inside, please confirm, turn the rollback to check if it can be turn properly.

Q: The pictures can't be developed in the dark room.

A: The gap between each film page will cause this problem, please confirm the counter is at the right initial position when you transmit the film.

A: The reason of this problem might be the counter can't run properly. Refer (the assembly of the side plate of the camera body), adjust spring position and the screws tightness or not.

Q: Breezing image

A: The camera will be shake easily once the shutter button can't be pressed, please refer (The basic shot posture of twin lens camera), use the tripod to take the picture of landscape if possible.

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