How to assemble and use the supplement
35mm Twin-Lens Reflex Camera

Assembly time: Approx. one hour

Parts in the Kit

Although the supplied春材 EVE screwdriver is convenient for use, it is not recommended that you use a shaft to protect your fingers when holding down the gear.

CAUTION

Please be sure to read the following instructions before assembling the kit.

- Take necessary caution when handling parts with pointed edges. There is a risk of injury.
- This kit includes screws and other small parts. Be careful not to swallow them.
- When tightening screws, firmly press the provided screwdriver straight against the screw and turn it. Be careful not to apply too much force when tightening the screws.
- Do not use any parts that have become damaged or deformed during use.
- Metallic materials used in this kit
- Spring: SS
- Screws: Iron
- Mirror: PC
- Shutter plate: ABS
- Screwdriver handle: PE
- Plastic materials used in this kit
- Spring: PP
- Screws (18): Flathead
- Screwdriver: PE

Things you will need
35mm film (24 to 27 exposures), cellophane tape

Notes for tightening screws

When tightening screw, firmly press the provided screwdriver straight against the screws and turn it. It is said that 70 percent of the force applied is used for pushing against the screw and 30 percent for turning it. The types of screws used for the supplement are those that can go all the way into the plastic as they are inserted (self-threading). For this reason, the screw hole may be damaged if you exert too much force when tightening the screws. The supplied screwdriver comes with a magnetic tip. If the magnetic force of the tip is not strong enough, rub the tip along a magnet several times in the same direction.

Assembling the Body

1. Assemble the body side plate (right)

Insert first into the tripod mount, attach the tripod mount to the side plate (right), and secure with two screws.

2. Assemble the body side plate (left)

Install the film advance knob

1. Install the tripod mount

Insert the nut into the tripod mount, attach the tripod mount to the side plate (right), and secure with two screws.

2. Install the film rewind knob

Secure the film rewind knob and film rewind shaft with a screw, and insert the film rewind shaft all the way into the side plate (right) while holding the tip of the shaft.

3. Install the counter

Place spring A on the counter gear, insert the gear into the side plate (left), and secure with a washer head screw so that there is no play between the parts. After tightening the screw, check that the gear rotates lightly and that the movement of the gear corresponds to that of the counter.

4. Assemble the body side plate (left)

Insert the film advance knob and film advance shaft so that the film advance knob fixing shaft matches the movement of the shaft. Tighten the screw while making sure that the knob does not move.

5. Assemble the body side plate (left)

Install the film advance knob

1. Install the tripod mount

Insert the film advance knob fixing shaft into the large hole on the shaft holder, and align the shape of the film advance knob with the shape of the tip of the film advance knob fixing shaft, so that the movement of the knob matches the movement of the shaft.

2. Install the counter

Place spring A on the counter gear, insert the gear into the side plate (left), place the counter on the other side of the side plate, and secure with a washer head screw so that there is no play between the parts. After tightening the screw, check that the gear rotates lightly and that the movement of the countertimer corresponds to that of the gear.
3. Install the sprocket
Insert the sprocket into the metallic shaft of the side plate (left) and allow it to catch on the counter gear.

3) Insert the shutter plate into the shutter plate

3. Insert the shutter plate
Insert the shutter plate and spring B to the front plate, following the instructions in "How to install spring B" below. After securing the shutter plate, check that it moves smoothly. If it is difficult to move, loosen the washer head screw a bit. If it moves too much, tighten the washer head screw a bit.

3) Install the shutter plate

3. Install the shutter plate feeder
Place spring C on the shutter plate feeder, install it to the front plate, and secure with a head washer screw. Tighten the washer head screw so that the screw head protrudes about 1 mm.

3) Install the shutter plate feeder

3. Install the shutter plate feeder

4. Install the shutter release lever
Attach spring D to the shutter release lever shaft and install it to the front plate. While rotating the shutter release lever from the front surface and secure with a washer head screw. After securing the shutter release lever, check that it moves smoothly. If it is difficult to move, loosen the washer head screw a bit. If it moves too much, tighten the washer head screw a bit.

4) Install the shutter release lever

4. Install the shutter release lever

5. Adjust the screw of the shutter plate feeder
Gradually tighten the screw of the shutter plate feeder while operating the shutter release lever. As you tighten the screw, the shutter release lever shaft will move the shutter plate feeder. As you tighten the screw further, the shutter plate opens. Tighten the screw an additional one-quarter turn from the position where the shutter plate begins to open.

5) Adjust the screw of the shutter plate feeder

5. Adjust the screw of the shutter plate feeder

6. Install the black box
Install the black box to the front plate, and secure tightly with two screws. When you tighten the screws, the side of the black box not secured with screws will rise, but this is not a problem.

6) Install the black box

6. Install the black box

7. Install the mirror fixing plate to the body
Insert the mirror fixing plate while pushing against the side plates to the left and right. After properly installing the mirror fixing plate, remove the protective film of the mirror (two pieces). Insert the lower part of the fixing plate into the slit on the side plate.

7) Install the mirror fixing plate to the body

7. Install the mirror fixing plate to the body
5. Install the film advance shaft
(1) Insert the tip of the film advance shaft into the socket on the side plate (right).
(2) While gently pushing against the side plates by hand, insert the film advance shaft onto the top of the film advance knob fixing shaft.
(3) While turning the film advance knob, align and connect the projecting parts and openings on the film advance shaft and the film advance knob fixing shaft.

6. Assemble the viewfinder
1. Install the top plate
Insert the screen plate (there is no front or back) into the top plate, and secure it to the body with two screws.

2. Install the viewfinder hood
The viewfinder hood consists of four pieces: the front plate, rear plate, side plate (left), and side plate (right). Be sure to install in the correct order. First, insert the viewfinder front plate and rear plate onto the top plate at an angle.

3. Secure the body side plates
Secure the body side plates with two screws from the side plate side.

7. Secure the body side plates
While pressing together the side plates on both sides, secure the side plates by tightening the screws for securing the side plates, located at the lower part of the front plate. The rewind knob will get in the way, so push the shaft to the outside.

3. Install the viewfinder lens and imaging lens to the body
Install the viewfinder lens and imaging lens to the body while aligning the teeth on the imaging lens frame and viewfinder lens frame. Install the viewfinder lens frame in the opening on the body closest to the viewfinder.

3. Assemble the lenses
1. Assemble the viewfinder lens
Insert one lens into the viewfinder lens frame (the surface with printed characters) in the correct direction, and secure the lens by attaching the viewfinder lens holder. The two lenses are identical, so you may use either lens.

2. Assemble the imaging lens
Insert the aperture plate into the imaging lens frame, insert the lens in the correct direction, and secure the lens by attaching the imaging lens holder.
Taking Pictures (Basics)

1. Load the film
   1. Insert the 35mm film
      Unlock the back cover locking hook, open the back cover, pull up the film rewind knob, and insert the film.
      
      **Load the film**
      Use commercially available 35mm film. Be sure to insert the film in the correct direction.
      **CAUTION**
      - It is recommended to use ISO 400 negative film (with 24 to 27 exposures).
      - Be sure to insert the film in the correct direction.
      - Use commercially available 35mm film.

2. Load the 35mm film
   Push down the film rewind knob to secure the film. Insert the edge of the film into the slit on the film advance shaft, allow the tooth to catch on the second or third perforation (hole) on the film, and turn the film advance knob one full rotation.

3. Close the back cover and set the counter
   Close the back cover, lock the locking hook, and align the groove on the counter with either notch on the top or bottom.

4. Advance the film to ready the camera
   Turn the film advance knob to advance the film by two frames. The camera is now ready to take a picture.

5. Rewind the film
   After the film is done, turn the film rewind knob to rewind the film back into its cartridge. When the film rewind knob can be turned easily, this indicates that the film has no more remaining exposures.

Basic method of taking a picture with a twins-reflex camera

1. Open the viewfinder hood
   (1) Open and pull up both sides of the viewfinder front plate, and then pull up the viewfinder rear plate.
   (2) While holding open the viewfinder front and rear plates, lift up the viewfinder side plates by unlocking your finger on the hooks, and open the viewfinder side plates to the left and right to secure the viewfinder hood.

2. Focus on the subject
   Turn the imaging lens frame to focus on the subject.

3. Lower the shutter release lever to take a picture
   Press your arms against your side to prevent camera shake, and gently push down on the shutter release lever.

4. Advance the film
   Turn the film advance knob to advance the film.

5. Take a picture
   (1) Open and pull both sides of the viewfinder front plate, and then pull up the viewfinder rear plate.
   (2) While holding open the viewfinder front and rear plates, lift up the viewfinder side plates by unlocking your finger on the hooks, and open the viewfinder side plates to the left and right to secure the viewfinder hood.

How to check that the film is fully rewound
   When rewinding of the film is completed, the film advance knob and counter will not rotate even if the film rewind knob is turned.

Focusing range

- The image on the screen plate appears horizontally inverted.

- If the lens is positioned at an infinite distance may be exceeded, resulting in a blurred picture. It may be difficult to use the viewfinder to determine the correct focus for distant subjects, so a good rule of thumb is to focus on a location (several meters) closer than the actual subject.

- Press your arms against your side to prevent camera shake, and gently push down on the shutter release lever.

- When checking the focus, position your eyes about 20 to 30 cm from the screen plate. If you are too close to the screen plate, you will not be able to determine whether the subject is in focus. When viewing the subject in the viewfinder, you will not be able to determine if the subject is in focus.

- When checking the focus, position your eyes about 20 to 30 cm from the screen plate. If you are too close to the screen plate, you will not be able to determine if the subject is in focus.

- The counter does not have a display indicating the number of exposures.

- Be careful not to hold the film rewind knobs or the counter when turning the film advance knob.

- Turning the film advance knob with excessive force after the film is done can cause the film to break.

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Take test pictures and check the results

Once you are familiar with the basics of taking pictures with your camera, it is recommended that you first take test pictures and check the results. Try taking pictures of subjects at various distances.

Q: Is any light entering the camera?
A: Check that the screen plate and mirror fixing plate are installed correctly.

Q: The picture is too white
A: The exposure may be insufficient. Select the appropriate film and aperture while referring to “Use the appropriate aperture and film for better pictures” (p. 9).

Q: The picture has multiple exposures
A: Some photo development services are unable to print pictures up the film as soon as possible. If you must leave the film in the camera, store the camera in a cool, dark location.

Q: The shutter does not open properly
A: Adjust all shutter parts while referring to “Assembling the shutter” (p. 3).

Q: The counter does not move
A: Adjust the spring position and screw tightness while referring to “Assemble the body side plate (left)” (p. 2).

Q: The film does not rewind
A: Check that the perforations on the film catch on the sprocket teeth.

Q: A photo development service cannot print my pictures
A: Some photo development services are unable to print pictures that do not have uniform frame sizes. When advancing the film, make sure that the counter stops exactly at the marked position.

Q: The counter may not be rotating properly
A: Adjust the spring position and screw tightness while referring to “Assemble the body side plate (left)” (p. 2).

Q: The shutter does not open properly
A: Adjust all shutter parts while referring to “Assembling the shutter” (p. 3).

Q: The shutter may not be opening fully
A: Check the operation of the shutter while referring to “Checking the operation of the shutter” (p. 3).

Q: The picture is too white
A: The exposure may be insufficient. Select the appropriate film and aperture while referring to “Use the appropriate aperture and film for better pictures” (p. 9).

Q: The shutter may not be opening fully
A: Check the operation of the shutter while referring to “Checking the operation of the shutter” (p. 3).

Q: The picture is too wide
A: Check that the area around the frame is black, light may be entering the camera. Check that all screws on the body are secured tightly.

Q: The picture is dark and the color is poor
A: The exposure may be insufficient. Select the appropriate film and aperture while referring to “Use the appropriate aperture and film for better pictures” (p. 9).

Q: The picture is dark and the color is poor
A: The exposure may be insufficient. Select the appropriate film and aperture while referring to “Use the appropriate aperture and film for better pictures” (p. 9).

Q: The picture is blurred
A: Camera shake can easily occur when operating the shutter release lever. See “Basic method of taking a picture with a twins-reflex camera” (p. 7) for tips on how to securely hold the camera. Use of a tripod is recommended when taking pictures of landscapes.