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# Workshop: 'Medium Format'

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## Learning Outcomes

At the end of this workshop you will be able to:

1. Measure light, focus and set up the the medium format cameras.
  2. Load Film.
  3. Recognize the common operation faults of the cameras.
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This document contains helpful reminders, however it is not the replacement of the full manual and induction. Keep this document with you as it will explain how to load film and deals with basic troubleshooting. You can find the entire manuals of the cameras in the tech guide section on the WSA Wikidot Website. <http://wsa.wikidot.com/techshop-guides>

## Mamiya 7II



## Trouble shooting

Uniquely designed to prevent errors. the Mamiya 7II incorporates numerous safety features. If the shutter will not function, it is very likely due to user error rather than camera malfunction. Should there be problems, be sure to review the following points.

### • When the shutter will not function.

- ① Is the battery good?
- ② Is the power on/off lever set to the white dot "ON" position?
- ③ Has the film been completely advanced to the next frame?  
Have all the exposures already been made (10 with 120, 20 with 220)?
- ④ Has the film advance lever been moved until it stops?
- ⑤ Is the light shield curtain closed?  
(In the case of examples ③ ~ ⑤, the red warning Lamp will flash a warning on the lower left hand corner of the viewfinder.

### • When the lens cannot be removed:

Is the light shield curtain open?

The light shield curtain must be closed, and the film advance lever must be advanced and shutter cocked to remove the lens.

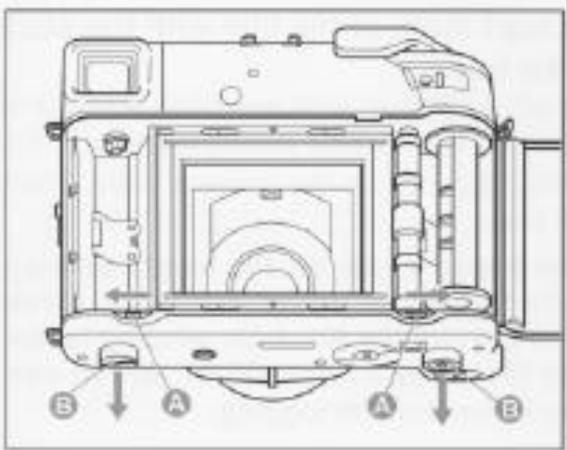
### • When the film cannot be advanced:

Isn't the multi-exposure lever shifted to "MULTI" position?

Film will not advance if the multi-exposure lever is shifted to "MULTI" position.

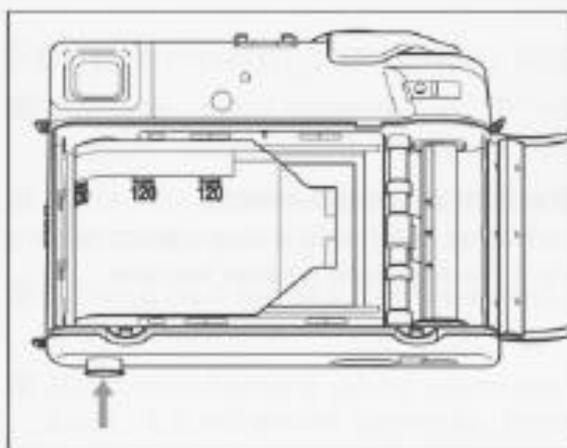
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## Loading the Film



### 1. Operate the spool bearing release lever.

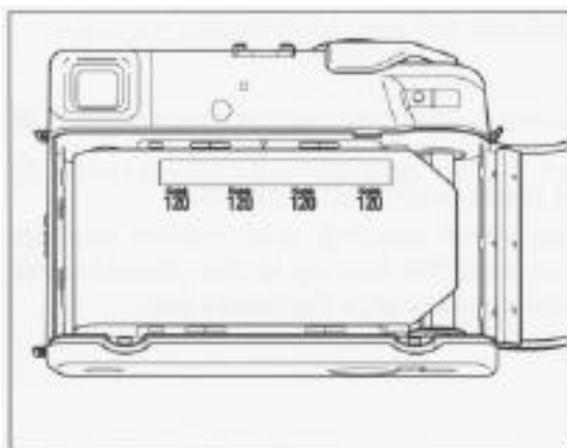
Push the spool release lever "A" on right side to the right, and install the take-up spool in the take-up spool chamber "B", top first, then push the lower spool stud up.



### 2. Place the film in the film chamber.

Like installing the take-up spool, push the spool release lever on left side to the left, place a roll of film in the film chamber, making sure it seats properly. Make sure the backing paper is in the position illustrated above, black side facing the lens, colored side towards the back.

When the new roll has been inserted, be sure to reset the lower spool stud by pressing it in. (Also, be sure to reset the take-up spool stud in a similar manner.)

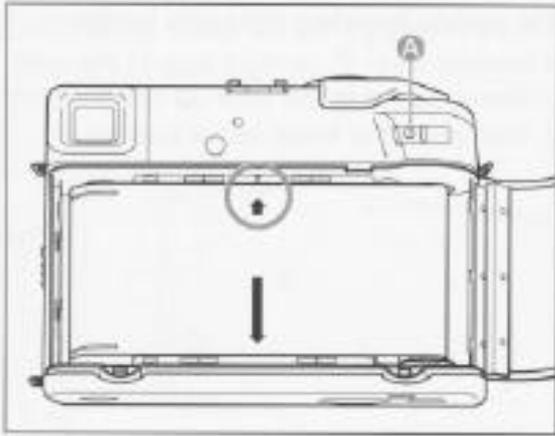


### 3. Insert the film into the groove of the spool in the wind-up chamber.

Pull out the backing paper, and insert the tip into the slot on the take-up spool as pictured.

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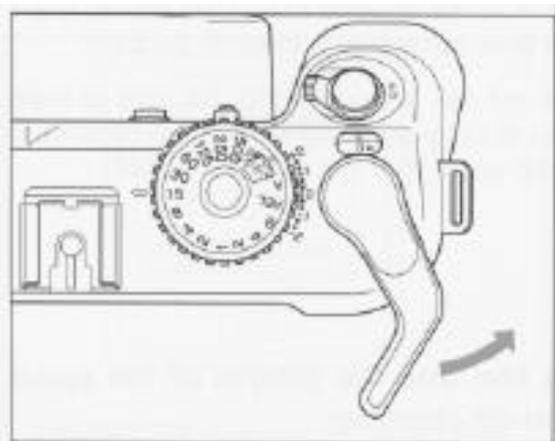
## Loading the Film



### 4. Align the start mark of the film with the start mark on the body.

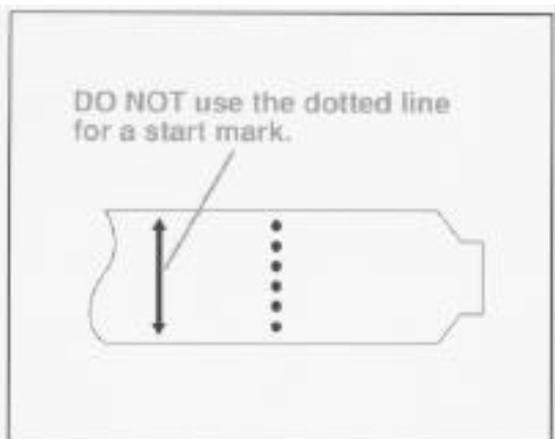
Wind the film advance lever until the small arrow (the starting indicator on the backing paper) aligns with the film starting indicator (▼) on the camera body. Then close the back cover.

- Thread the paper leader on the empty take up spool so the film will be wound evenly and parallel. This will prevent the film from winding loosely or over the edge of the spool, which can cause light leaks and film fogging.
- If the multi-exposure lever "A" is shifted to "MULTI" position, film will not advance.



### 5. Wind up the film advance lever.

Wind the film advance lever until it stops automatically and " 1 " appears in the exposure counter window.

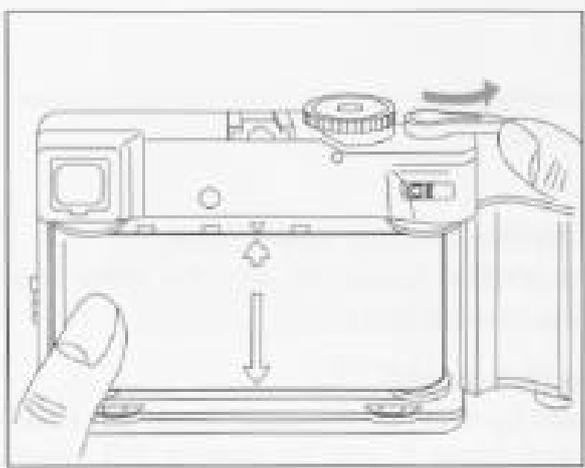


### Setting Start Mark with 220 Roll Film

To assure even frame spacing, and prevent overlapping, be sure to wind the film up to the printed arrow start mark, which appears after the dotted line.

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## Loading the Film



### Prevention of Light Leaks Due To Loose Film Winding

- \* Use your left thumb to press lightly on the paper leader while advancing winding lever slowly to assure smooth and tight film take-up on the empty spool. Advance the film and align the printed arrow start mark with the small triangle start mark on the camera. Then close the camera back.

### For preventing the film loose winding

- When any other numeral than "S" appears in the exposure counter window, it is an indicted that the film is loaded. So do not open back cover.
- If the film is not properly aligned with the "▼" indicator, the film may be improperly loaded and cause spacing problems.
- When a 6EX roll film (5 exposures) is used, the procedure of loading the film is the same as with 120 roll film.
- Make sure backing paper advances evenly between the spool flanges and does not begin to slant. If it advances unevenly, remove the backing paper from the take-up spool and start over again.
- Do not pull excessively on the backing paper, and do not load/unload the film in direct sunlight: bright light may fog the film.
- Before loading the film into the camera, be careful of the film looseness.

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CAUTION: the RZ&RB are complex cameras, please read the entire online manual on the WSA wikidot.

## Mamiya RZ & RB



### Troubleshooting

Uniquely designed to prevent errors, the RZ67 incorporates numerous safety features, so if you can not release the shutter, or remove a lens or holder, it is most likely due to user error rather than a camera malfunction. Should something appear to go wrong, be sure to check the following points.

#### When the shutter can not be released

1. Has the film been completely advanced to the first frame? Have all the exposures already been made (10 with 120, 20 with 220)?
  2. Has the Cocking Lever been advanced as far as it will go?
  3. Has the Dark Slide been removed?
  4. Have you locked the Shutter Release Button and forgotten?
  5. Is there a battery in the Battery Chamber? Is the battery still good?
  6. Is the "T" lever of the lens on "N"?
  7. Is the camera speed dial on RBL and a RZ lens is on camera?
  8. Is the camera speed dial on AEF and the AE Finder and a RZ lens is not attached?
  9. Have you used the mirror -up mode and red ring on the collar is still visible after removing the cable release?
- In the case of examples 1-3, an orange lamp will illuminate in the viewfinder if an error has been made.

#### When the lens can not be removed

Have you pressed the Cocking Lever completely forward?

#### When the Film Holder can not be removed

Have you inserted the Dark Slide into the holder?

#### CAUTION:

- The winder RZ-1 cannot be used on the RZ PRO II body.
- When using the mirror-up operation in the B (bulb) mode, use an optional double cable release.
- The previous models of AE Prism Finders or AE Magnifying Finders cannot be used with the RZ PRO II unless their circuits are modified. Contact your country's Mamiya Distributor for further information.
- The AE Prism Finder FE701 can be directly mounted on the RZ PRO II.
- Electronic Flash Precautions  
Electronic Flash units that have a high sync trigger voltage may seriously damage the electronic circuitry of your RZ PRO II. Flash units with a maximum of 12 volts sync output trigger voltage are safe for use. Please contact your flash manufacturer, or have your local flash repair station test the sync line trigger voltage before using with your RZ PRO II. Older studio flash power packs are particularly suspect of using high voltage sync trigger voltages, sometimes feeding as much as 400 volts into your RZ PRO II sync terminal! To prevent this problem, you may consider using a "filter" or regulating circuit between your power pack and sync cord. Contact your local flash dealer or manufacturer for more information about these devices.

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## Loading the Film Holder



Pull out the upper and lower Back Cover Latches and the back cover will open. Because of the double safety lock, pulling out just one of the two Back Cover Latches will not open the cover. After opening the back cover of the Roll Film Holder, remove the Film Insert. When loading film, it is not necessary to remove the holder from the camera back. When loading film, avoid direct sunlight--either load in the shade or turn your body away from the sun and use the shade of your own body.

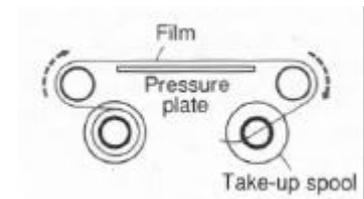


While holding down the left-hand Spool Release Pin of the Film Insert, fit a roll of film between the upper and lower left-hand Film Spool Studs. Make sure that the backing paper is set as shown in the photo above.

When loaded correctly, the inside of the backing paper (the black side) will appear on the outside of the insert back. If it does not, remove the film, turn it upside-down, and reload.



After feeding the tip of the backing paper into the slot of the Take-up Spool,



gently wind the Film Advance Knob until the arrow of the backing paper aligns with the insert Start Mark.

As you gently advance the backing paper, make sure it advances evenly between the spool flanges and does not begin to slant. If it advances unevenly, remove the backing paper from the Take-up Spool and re-insert. Heeding this point will eliminate the possibility of crimping the edge of the film.

Set the correct film speed value on the Film Speed Dial of the Roll Film Holder.



Place the Film Insert into the housing, making sure the film advance coupler of the insert fits into the appropriate hole of the cassette.



After correctly placing the insert into the housing, close the back cover, and while gently holding it in place, push both of the Back Cover Latches as far as they will go.

The Roll Film Holder Housing will accept either 120 (HA703) or 220 (HB702) Film Inserts.

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## Advancing the Film



Before attempting to advance the film to the first frame, make sure the R-M Lever is set to its normal (center) position. If the lever is set to 'M'(multiple exposure), it will not be possible to advance the film with the Cocking Lever.



**The film can be advanced in either of two ways.**

- A.** By winding the Film Advance Knob of the Film Insert until it stops.
- B.** By activating the Cocking Lever of the camera body several times, until it stops. (The lens shutter will not be cocked unless the Cocking Lever is moved all the way until it stops.



When the film is completely advanced, the numeral '1' will appear in the Exposure Counter, making the first frame ready for exposure.

While advancing the film from S (start) to 1 with the Cocking Lever, the shutter releasing mechanism is automatically locked until the film is fully advanced to frame 1.

Since there are vertical and horizontal exposure counter windows, an upright numeral can be seen with the Roll Film Holder in horizontal or vertical position.

## Taking Photographs

When the film is advanced to the next frame, the numeral in the Exposure Counter will automatically change.

### • CAUTION

120 or 220 film used in this roll film holder is, unlike 35 mm film, not perforated.

Therefore, if it is advanced very rapidly, the spacing between frames may become uneven. So, be sure to gently operate the cocking lever with even strokes to maintain proper frame spacing.

After an exposure is made, the automatic double exposure prevention mechanism blocks the shutter release until the film has been advanced.

After completing the last exposure, press the Cocking Lever several times, until the film and backing paper have been completely wound onto the Take-up Spool. Instead of using the Cocking Lever, you can use the Film Advance Knob of the Film Insert, if you prefer.

src: Mamiya RZ 67 Pro II: Instructions (<http://wsa.wikidot.com/photo:medium-format-cameras>)





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Notes

