

# Mamiya RB67 Guide

INTRODUCTION BODIES LENSES BACKS ACCESSORIES USING BLOG LENSES

## Backs

The RB67 has multiple "backs" available. In the terminology of medium format cameras, the back holds the film, film advance mechanism, counter, etc. and they are removable from the body. There is a "darkslide" that seals off the back, which allows backs to be swapped mid-roll. Mamiya produced backs specifically for the RB67 cameras; there is the Pro, Pro-S, and Pro-SD backs released with each body. There are the common 120/220 film size backs, as well as more exotic backs, like cut sheet film or Polaroid backs. However, with some exceptions and caveats they are compatible up and down the line, Pro backs are compatible with a Pro-SD body and vice versa.

If you have a Pro-S or Pro-SD body, it would be the author's suggestion to use Pro-S or Pro-SD backs. The original Pro backs have several failings; one, there is no dark slide interlock so you can accidentally remove the back with the dark slide off; two, it lacks a multi-exposure interlock which means that if you do not advance the film after taking a picture you can double (triple, quadruple, etc.) expose a frame. The Pro-SD back has two advantages over both the Pro and Pro-S backs, it uses mechanical light blocks rather than foam (which has to be replaced regularly). It has a little slot on the back to hold the dark slide, this is pretty convenient compared to storing the slide on the camera body.

All RB67 backs, with the exception of the Pro-SD Polaroid back require the use of a revolving adapter that sits between the body and back. This adapter allows the film back to be rotated between horizontal and vertical formats. The features introduced on the Pro-S body require the use of a Pro-S or Pro-SD revolving adapter to work. For instance, when using Pro backs on a Pro-S or Pro-SD body the double exposure prevention does not function. 6x8 backs were introduced with the Pro-SD. A Pro-SD revolving adapter is required to mount those backs (see notes on the 6x8 backs). Pro-SD revolving adapters also do not use foam to mate the adapter to the film back,

The 6x7 backs share the same outer cassette, but the insert which actually holds the film is different for 120 and 220. You could just keep a bunch of loaded inserts and one cassette, although you wouldn't be able to change backs mid-roll. However, the cassettes and inserts are not compatible with the same generation; you cannot use a Pro-SD insert with a Pro cassette. The official Mamiya word is that 220 film can be used in the 120 insert, however, film flatness is decreased and is not recommended. The power backs for the Pro-SD have a reversible pressure plate so that 120 or 220 film can be used.

Search:

Manufacturer	Name	Size	Number of Exposures	Film Size	Advance	Pro-S/Pro-SD Interlock	Notes
Graflex	"22" Graphic	6x6	12	120	Knob	No	
Graflex	"23" Graphic	6x8	8	120	Knob	No	
Graflex	"23" Graphic	6x8	8	120	Knob	No	
Graflex	RH8	6x8	8	120	Lever	No	
Graflex	RH10	6x7	10	120	Lever	No	
Graflex	RH12	6x6	12	120	Lever	No	
Graflex	RH20	6x7	10	220	Lever	No	
Graflex	RH50	6x7	50	70mm	Lever	No	
Mamiya	120 6x7	6x7	10	120	Lever	No	

 

### Recent Posts

- Q&A: 6x8 on the RB67?
- Mamiya RB67 Pro-SD Brochure
- New Mamiya RB67 sales brochure added
- Custom RB67 skin
- Q&A: RB67 Film Back Compatibility

### Recent Comments

- jodys on Polaroid
- jodys on Polaroid
- Randy Moe on Polaroid
- andy on Polaroid
- Eugen mezei on Polaroid

### Categories

- qa
- Uncategorized

Mamiya	220 6x7	6x7	20	220	Lever	No	
Mamiya	120 6x4.5	6x4.5	15	120	Lever	No	
Mamiya	Pro-S 6x7 120	6x7	10	120	Lever	Yes	
Mamiya	Pro-S 6x7 220	6x7	20	220	Lever	Yes	
Mamiya	Pro-S 6x4.5 120	6x4.5	15	120	Lever	Yes	
Mamiya	Pro-S 70mm	6x7	50	70mm	Lever	Yes	
Mamiya	Pro-S Motorized Back	6x7	10/20	120/220	Motorized	Yes	This requires two parts, the motorized back and a control pack that fits on the bottom of the camera
Mamiya	Pro-SD HA- 702	6x4.5	15	120	Lever	Yes	
Mamiya	Pro-SD HB- 704	6x4.5	30	220	Lever	Yes	
Mamiya	Pro-SD HA- 701	6x7	10	120	Lever	Yes	
Mamiya	Pro-SD HB- 701	6x7	20	220	Lever	Yes	
Mamiya	Pro-SD 6x7 Motorized Back	6x7	10/20	120/220	Motorized	Yes	
Mamiya	Pro-SD 6x8 Motorized Back	6x8	9/18	120/220	Motorized	Yes	
Mamiya	Pro-SD 70mm	6x7	50	70mm	Lever	Yes	

Showing 1 to 23 of 23 entries

## Pro

- 120 6x7



o



- 220 6x7
- 120 6x4.5

## Pro-S

*Film flatness improved.*

*Double exposure interlock.*

*Darkslide interlock—prevents pulling the darkslide unless the back is mounted on the body.*

- 120 6×7
- 220 6×7
- 120 6×4.5
  - There is a mask that fits over the screen to assist with framing. This would be fairly easy to fabricate.
- 70mm film holder
- 120/220 Roll film power drive (this comes in two parts the back itself and the power drive control pack which mounts on the bottom of the camera)

## Pro-SD

*Pro-SD backs use mechanical light traps, rather than foam. This reduces the risk of light leaks. They all have an additional darkslide pocket that is, apparently, easier to use than the lugs on the side of the body.*

- 120 6×4.5 HA-702
  - There is a mask that fits over the screen to assist with framing. This would be fairly easy to fabricate.
- 220 6×4.5 HB-704
  - There is a mask that fits over the screen to assist with framing. This would be fairly easy to fabricate.
- 120 6×7 HA-701
- 220 6×7 HB-701
- 120/220 Power drive roll film holder 6×7 (These new backs are single monolithic devices that take 4AA batteries, They are also 120/220 compatible as opposed to the manual backs.
- 120/220 Power drive roll film holder 6×8, images courtesy of [revdocjim@chemicalcameras.wordpress.com](mailto:revdocjim@chemicalcameras.wordpress.com)



- With a full 6×8 setup, you still only have the 6×8 negative in the portrait configuration, not with the back rotated in the landscape position.
- 9 exposures with 120 roll film or 18 exposures with 220 roll film
- A full 6×8 setup requires the following to work on Pro or Pro-S bodies
  - a 6×8 power back.
  - a 6×8 light baffle—which lies between the revolving adapter and the body. You can tell what sort of baffle you have by taking off the current revolving adapter. There is a flat black baffle held in by four screws, if this says "8" or "6×8" you are ready to go.
  - Pro-SD 6×8 revolving adapter
  - a 6×8 Matte screen to get full 6×8 view(optional)
- In the case that only some pieces are assembled, here is a list of negative sizes
  - Normal RB67: 5.6cm x 6.8cm negative.

- RB67 Pro Body + RB67 Pro revolving adapter + 6×8 power back: 5.6cm x 7.2cm negative.
  - RB67 Pro Body + RB67 Pro-SD revolving adapter + 6×8 power back: 5.6cm x 7.3cm negative
  - RB67 Pro Body + RB67 Pro-SD revolving adapter+ 6×8 power back + "8" light baffle: 5.6cm x 7.5cm negative
- 70mm film holder
  - Polaroid pack Film Holder HP701 (horizontal and vertical masks are available, but not necessary)
    - This appears to be a completely new design. This adapter does \*not\* require a P-adapter and mounts directly to the body without the revolving adapter. See my Polaroid notes for more details.

## Other

### Cut film/Plate Holders

Mamiya produced several different ways to expose cut sheet film or plates. At the date of writing, Feb 2011, at least two different manufacturers are producing cut film in this size. Presumably, you could also cut down 4"x5" film.

- Double cut film/plate holder
  - These look like miniature 4"x5" large format film holders. They mate with the revolving adapter like the roll film backs.
- Plate holder adapter for Plate holder model 2 for Mamiya C series cameras
  - This is a plastic adapter so that the Plate Holder Model 2 for Mamiya C can be mounted onto the RB67's revolving adapter. The Plate Holder Model 2 itself takes a single piece of cut film 2 1/4" by 3 1/4" or 2 1/2" by 3 1/2".
- Small metal sheaths actually hold the film, then are inserted into each side of the holder.
  - Type A sheaths hold 2 1/4" by 3 1/4" cut film
  - Type J/D sheaths hold 2 1/2" by 3 1/2" dry plates
- Film pack adapter (sheet film was once sold in packs of 16 known as film packs).

### Mamiya Press backs

Mamiya also released several adapters to allow the use of various backs from the older Mamiya Press and Universal cameras. Using these backs required a combination of P-adapters and M-adapters (which came in both horizontal and vertical). Graflex adapters can be used on any of the RB67 bodies as they attach directly to the revolving adapter just like RB67 backs.

All require a M adapter (either horizontal or vertical) and a P adapter to mate with any of the RB67 bodies

- Roll film holder (6×7)
- Roll film holder model K ?
- Focusing Screen Holder attached to any of the following
  - Cut film/plate holder type J, holds a single cut film/plate, 2 1/2" by 3 1/2"
  - Cut film/plate holder type A, holds a single cut film/plate, 2 1/4" by 3 1/4"
  - Film pack adapter

### Mamiya Universal backs

Requires a P adapter to mate with any of the RB67 bodies



P Adapter Body Side



P Adapter Back Side

- Polaroid Land pack film holder Model 1
- Polaroid Land pack film holder Model 2
- Polaroid Land pack film holder Model 3

### Graflok backs

The RB67's design lineage includes the Graflok back used on Graflex cameras. Specifically, the revolving adapter is actually a 2"x3" Graflok. This means that the 2"x3" roll film backs can be used.

- "22" Graphic (6x6) 120 size
- "23" Graphic (6x8) 120 size
- Graflex RH 12 (6x6) 120 size
- Graflex RH 8 (6x8) 120 size
- Graflex RH 10 (6x7) 120 size
- Graflex RH 20 (6x7) 220 size
- Graflex RH 50 (6x7) 70mm size

### 7 Comments



**JC Behar**

May 7, 2012 - 4:18 am | [Permalink](#)

Hi, I have what I believe to be a power supply for the motorised back of the RB67 pro. Anyone knows the Mamiya catalog number by any chance? I have pics if anyone interested. Tks. JCB, Zurich, Switzerland

[Reply](#)



**Terry**

September 18, 2012 - 9:51 am | [Permalink](#)

Hi there, do you have the mask for ha-702? Do you mind to scan or email me the template of thr mask measurement. When I purchased the used ha-702 the mask is not coming along so I have the difficulty of composing . Do you mind to help? Thanks

[Reply](#)



**jodys**

September 18, 2012 - 1:50 pm | [Permalink](#)

I don't have the mask. Maybe someone else reading this can help?

[Reply](#)

**JP**

November 1, 2012 - 11:02 am | [Permalink](#)



I recently acquired an RB67 PRO SD body with a PRO S revolving back. Is there a difference between the two revolving back units? I have the option of exchanging it, just wondering if its worth the hassle.

Reply



**jodys**

November 1, 2012 - 12:56 pm | [Permalink](#)

There are some minor differences. The Pro-SD adapter is necessary to mount 6x8 backs. Not a big difference, but I would exchange and get the Pro-SD revolving adapter.

Reply



**Jacek**

January 1, 2013 - 3:53 am | [Permalink](#)

One guy insists that "new" SD motorized back is universal for 6x7 and 6x8 size. I think not. What is the true?

Reply



**jodys**

January 1, 2013 - 8:24 am | [Permalink](#)

There are different motorized backs for 6x7 and 6x8. Perhaps he is confusing the fact that the motorized backs use one insert to do both 120 and 220 (unlike earlier backs which require different inserts).

Reply

## Leave a Reply

Your email address will not be published. Required fields are marked \*

Name \*

Email \*

Website

Comment

You may use these [HTML tags](#) and attributes: <a href="" title=""> <abbr title=""> <acronym title=""> <b> <blockquote cite=""> <code> <del datetime=""> <em> <i> <q cite=""> <strike> <strong>

**Post Comment**