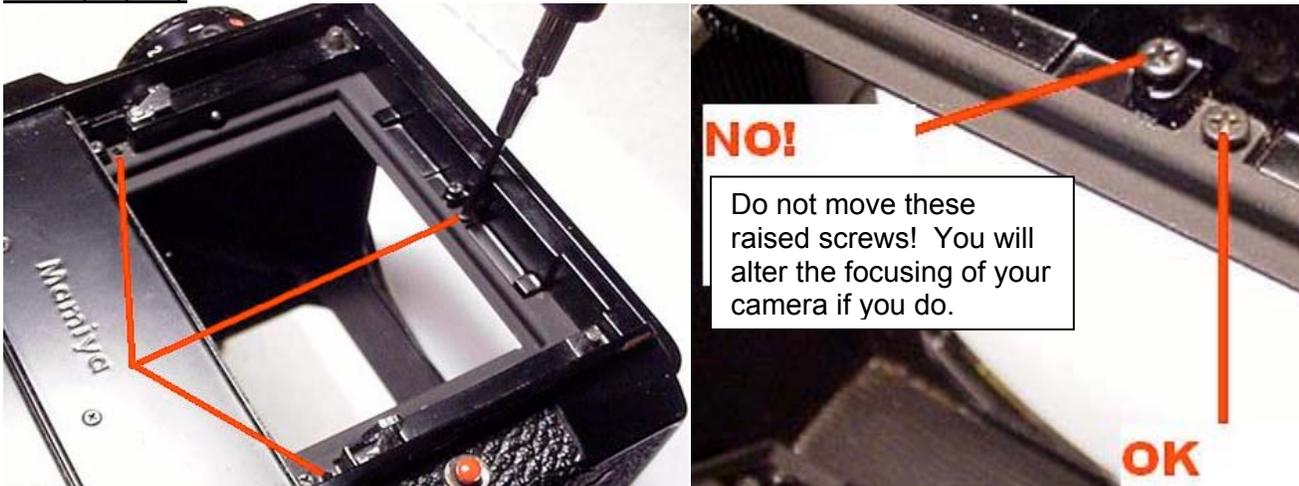


ProSeal Instructions for Mamiya 645J (and other similar models)

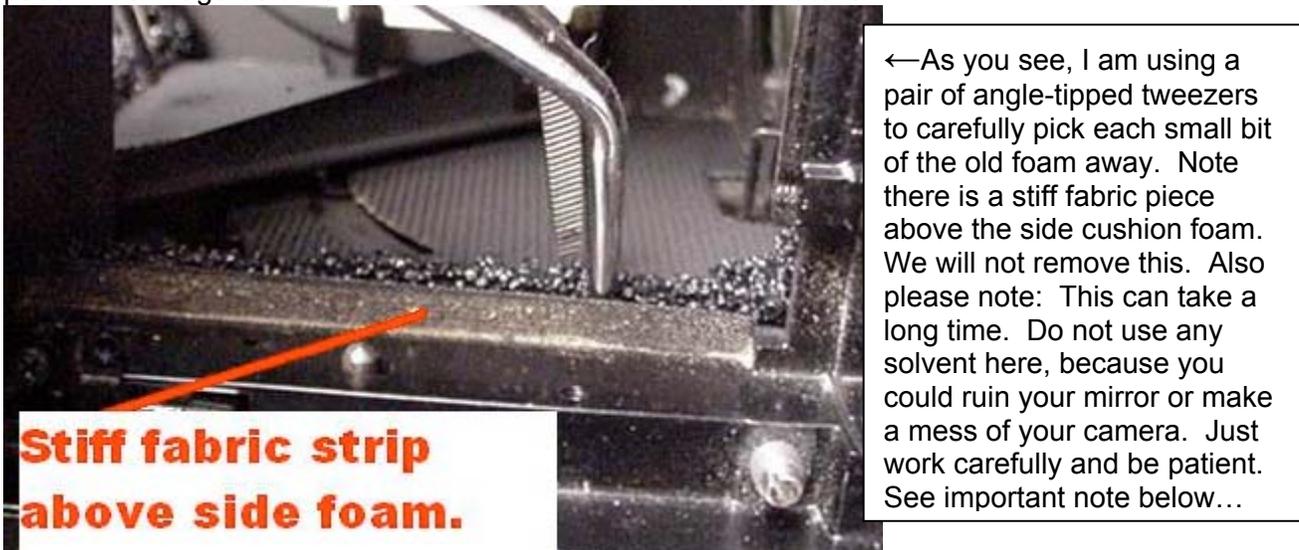
Please read these instructions completely before you start. Knowledge strengthens confidence, and like most jobs, this is better done right the first time. I'm assuming you have read the basic re-sealing instructions I've written. If not, please do that first. This is a very well-designed camera, and the job you're doing now is very important in repairing one of its most common problems.

Here are some things you may need: (1) a safe surface to work on—I like to use a piece of cardboard about 1.5' by 1.5', but you can work on fiberboard, newspaper or anything else handy—the important thing is to protect the surface beneath you. (2) Naphtha (cigarette lighter fluid is the same thing) or denatured alcohol for a solvent. (3) 2 or 3 paper towels. (4) some toothpicks or your bamboo tool—if you have access to a wooden cuticle stick, this is a handy tool. (5) a safety razor blade, hobby knife, or small scissors. (6) a small screwdriver **(7) a pair of tweezers.**

We're going to begin with the most difficult part. We may as well get it over with, right? Well, it will not be too bad for you. When you remove the top piece and your focus screen, you will notice a small retaining frame held with 3 screws. The screws that are raised should not be touched! I have made 2 image files for you below. The one on the right shows the screws you should not touch. Why? These screws adjust the height of your focus screen. If you alter these screws, your camera will not focus properly.

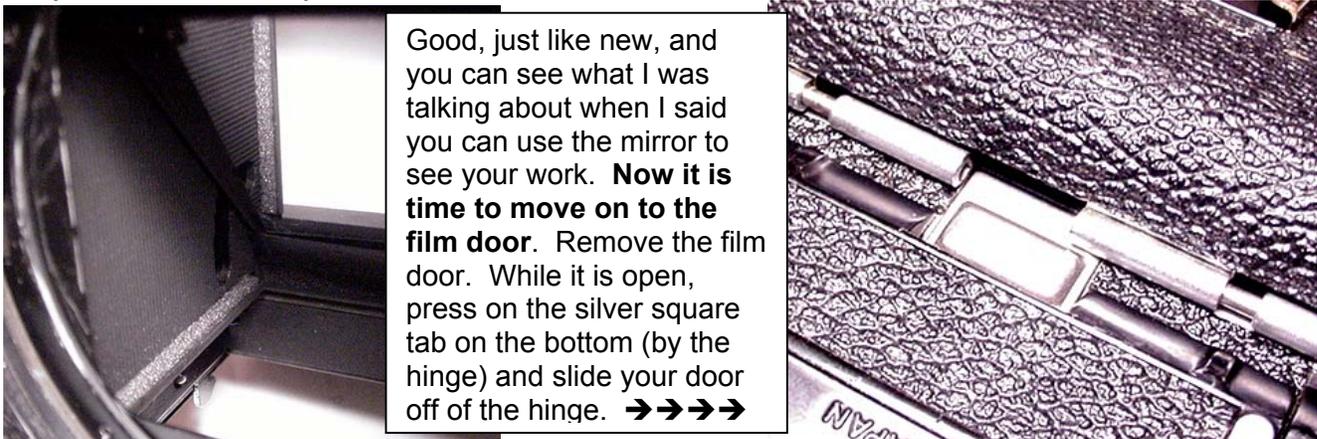


When this retaining plate is removed, you will be able to reach the mirror damper and the side damper pads. The image below shows how I will remove all of this material:



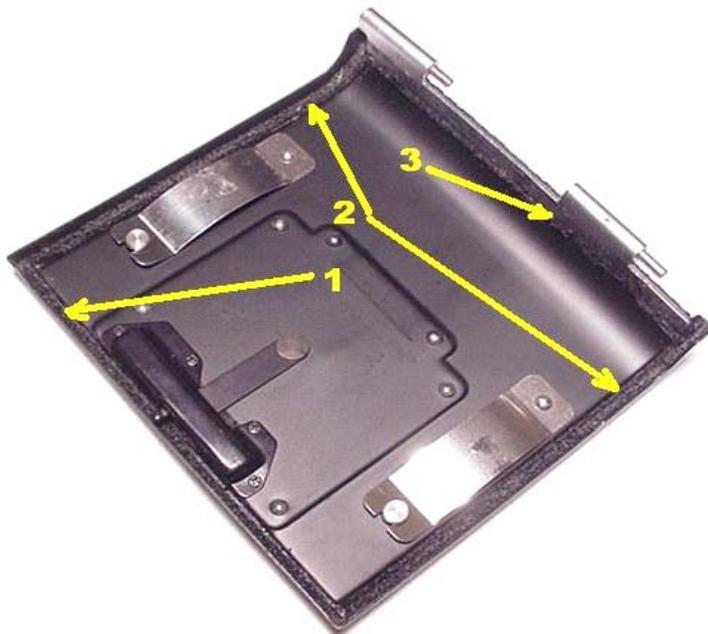
NOTE: this can be tedious. You should be patient and take your time. Here is a suggestion...enjoy some classical music or listen to the reading of a good and old book. How? Well, I would go to <http://librivox.org/> You will find many books in many languages. I think you will enjoy this site. Wait...Is your wife in the same room with you? Ok, here's something nice you can do. Go to this site: <http://www.archive.org/details/oldtimeradio> In the index, find Lux 1954. Then find "People Will Talk" and play the file. Cary Grant & Jeanne Crain in a happy story anybody should enjoy.

OK, now you have cleaned all the old mess off, and it is time to install the nice new material. First you will cut three pieces of self-adhesive 2mm thick foam. One will be 58mm long x 4mm wide...the front damper piece. Then cut 2 pieces of 42mm long x 2mm wide. Remove the backing piece for the first piece (the front pad) and lick the adhesive side well. Put the whole thing in your mouth if needed. Then turn the camera so that the lens mount side is in the palm of your left hand and slide the piece into place. Why get it wet? So you can position it. It will stick tight when your saliva dries. Now get that piece where you want it (you can see your work in the camera's mirror) and let it dry for 20 minutes or so. Then, install the side foam pieces the same way. They will go right against the front pad and run down the sides. I will attach these to the stiff pieces of fabric to hold them in place. **Remember to lick them, please.** Now, while they are still wet, install the retaining frame you removed earlier. There is a spring-loaded ball which you may have to press in as you install the frame. Replace the 3 screws. Then (while the side pieces are still wet) using the thin end of your bamboo tool, guide the side foam pieces into the slots formed by the retaining frame and the camera body. Here is the look you want:



Good, just like new, and you can see what I was talking about when I said you can use the mirror to see your work. **Now it is time to move on to the film door.** Remove the film door. While it is open, press on the silver square tab on the bottom (by the hinge) and slide your door off of the hinge. →→→→

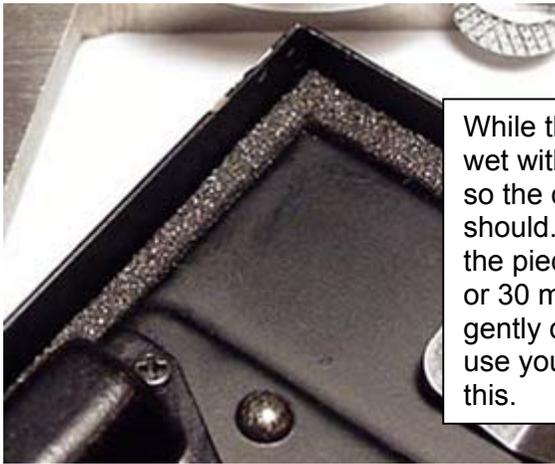
Now, you have removed the film door, and this is what you see:



Arrow 1 points to the latch end seal, arrow 2 points to the side seals, and arrow 3 points to the hinge end seal. Using your bamboo tool, solvent (denatured alcohol or naphtha) and some bits of paper towel or napkin, please clean all the old foam from your film door very well. Then cut these pieces of new foam:

1. 1.5mm thick foam cut to 79mm x 1.5mm
2. 1.5mm thick foam cut to 78mm x 2.5mm---cut two of these (for each side)
3. 1mm thick foam cut to 74mm x 2mm

Install each piece, licking the adhesive side first. You will need the latch end piece wet as you'll have to tuck it beneath the latch pin.



While the foam pieces are still wet with my saliva, I will adjust so the corners mate as they should. Remember...when the pieces are dry (maybe 20 or 30 minutes), press them gently down again. You can use your bamboo tool to do this.

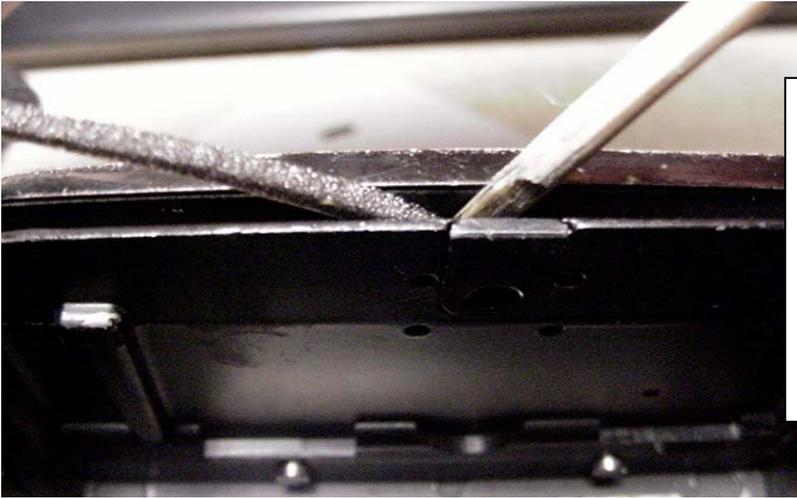


Now for the body seals...Let's take a look:



Use your small screwdriver as a dropper (or an old dropper bottle) to carefully drop naphtha (lighter fluid) or denatured alcohol on the hinge end seal. I normally use enough to saturate it, but not to the point of dripping. Let it sit a minute or so and then begin scraping it off. You may use a toothpick with the end broken off, the wide end of your bamboo tool, a wooden cuticle stick, or anything that will not damage the paint. Your work will go better if you are patient and give the solvent time to dissolve and loosen the old adhesive. IMPORTANT NOTE: Observe the precautions on the solvent can. Work in a well-ventilated area and avoid too much skin contact or contact with eyes, and don't drink it.

In the image to the right, you can see how I will clean out the long thin body slots. Using the thin end of the bamboo tool and a bit of paper towel, I will drop solvent on it and push it through the slot until all is clean. Please note: this will take several times to get the slot clean. Also, please do not push old material into the film frame reset lever. You will see this about one inch from the end of the slot on the side with the winding knob. Clean all the slots carefully, and then cut some strips of 2mm thick foam. One is 2mm wide x 81.5mm long, one is 1.5mm wide x 50mm long, one is 1.5mm wide x 18mm long and one is 1.5mm wide x 72mm long. After removing the backing paper, lick these well (get them very wet) and install them into the slots, being sure the adhesive side is to the bottom of the slot. Use the thin end of your bamboo tool to guide them in. You can test fit the pieces into the slots before you remove the backing paper. They should fit without having to be forced. Remember...you are going to have one sticky side. You do not want it to stick to the side as you try to install it. You can see how I install these pieces in the image below:



Left: Using the thin end of my bamboo tool, I carefully guide the wet piece of foam into the slot, making certain it does not twist or turn. I will work about a half inch at a time, and then I will let everything dry completely before pressing gently down for the final installation. Be sure the corners meet closely together.



And last, the hinge end seal. This is a simple seal which is made with 1.5mm thick foam cut 76mm long x 4mm wide. Installing it is just a matter of licking the adhesive side and positioning as needed. After this seal (and all the others) are dry, press gently down for the final installation.

Guess what? You're finished, and your camera is back to "like new" condition and ready to enjoy again.

~~NOTES~~

These instructions were given to you as an accompaniment to a general seal kit, or for any of several reasons. You should be able to easily cut your own seal pieces from my seal material, and you should **never** use inferior materials as a substitute. Work like a pro...your camera deserves it.

Jon Goodman --- 2008