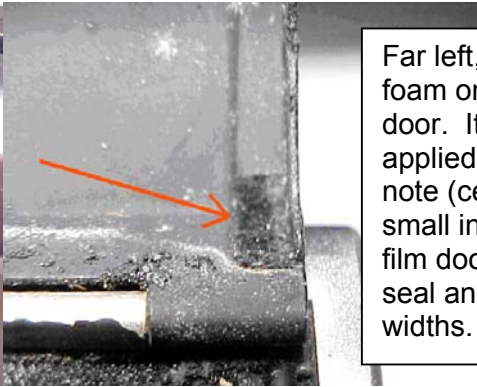
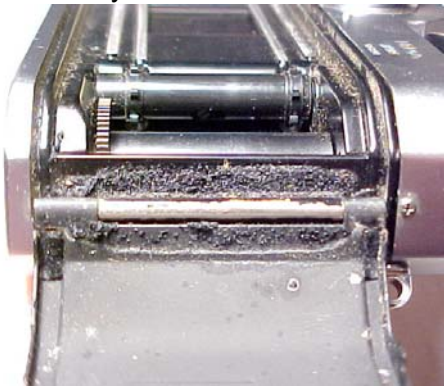


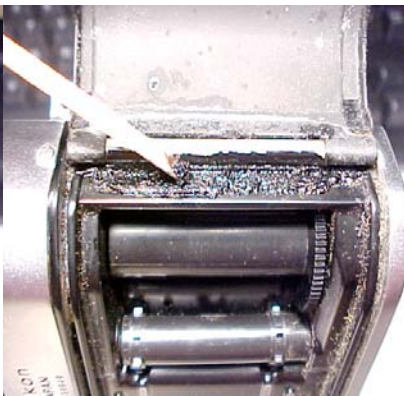
## ProSeal Instructions for Nikon/Nikkormat EL

Please read these instructions completely before you start. Knowledge strengthens confidence, and like most jobs, this is better done right the first time. I think you'll find it rewarding and fun, and I've tried to keep things as easy and logical as possible. This is a very well-designed SLR, and the job you're doing now is very important in repairing one of its most common problems.

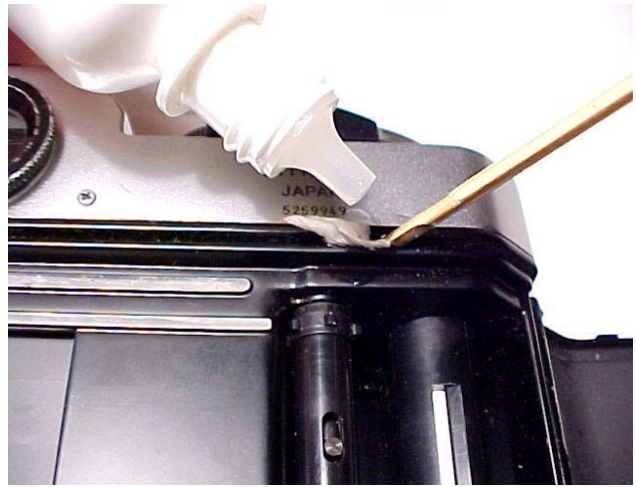
Here are some things you may need: (1) a safe surface to work on—I like to use a piece of cardboard about 1.5' by 1.5', but you can work on fiberboard, newspaper or anything else handy—the important thing is to protect the surface beneath you. (2) Solvent--Naphtha (cigarette lighter fluid is the same thing) or denatured alcohol are what I would use. (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. Now, let's take a look inside your camera:



Far left, you see old deteriorated foam on the body and the film door. It was originally only applied to the body. You will also note (center image) there are small interior corner seals on the film door. Please note: the top seal and bottom seal are different widths.



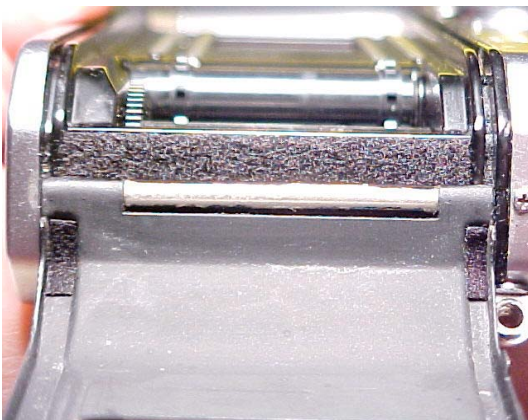
Use your small screwdriver as a dropper (or an old dropper bottle) to carefully drop naphtha (lighter fluid) or denatured alcohol on the hinge end seal. I normally use enough to saturate it, but not to the point of dripping. Let it sit a minute or so and then begin scraping it off. You may use a toothpick with the end broken off, the wide end of your bamboo tool, a wooden cuticle stick, or anything that will not damage the paint. When finished, wipe with a paper towel and solvent. Your work will go better if you are patient and give the solvent time to dissolve and loosen the old adhesive. You can see this process in the three images above. Remove and clean the areas where the inner seals were on the film door at this point, also. **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.** You will probably see black seal residue on the film door edges—you may wipe that off at any time with solvent on a bit of paper towel. In the final frame above, you can see the camera is starting to look better as we get it cleaned.



Above left, I am cleaning the film door edges with a bit of paper towel soaked in solvent. These will be dirty, and I don't want this goo ruining my new foam. To the above right, I am placing a bit of paper towel in the body slot and wetting it with solvent. I start at the film frame reset lever (about 1.25 inches from the hinge end) and I'm careful not to damage it or push anything into it. I will run pieces of paper towel wet with solvent through the slots until they are all clean. You will need to do this several times. Repeat this procedure for the top and bottom slots.



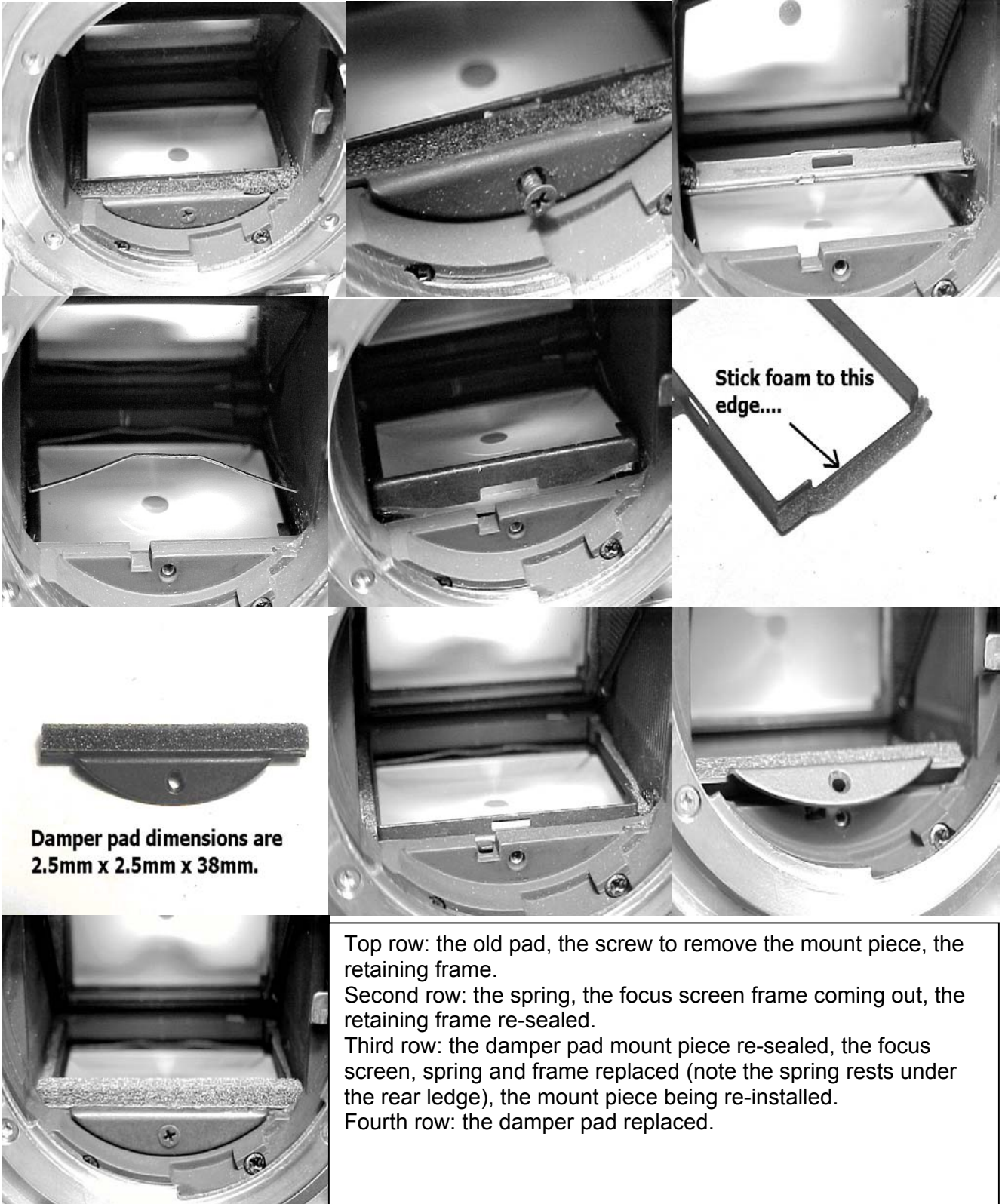
In the first frame above, I start a "Seal Strip" into the slot at the end. I push it into place with the thin end of the bamboo tool, being careful not to twist it. In the second frame, I continue around the curve, and in the final frame, you can see where I have trimmed the strip so that it will end just at the film frame counter lever. I will continue the strip on the other side of the film frame counter, all the way to the latch end. Repeat this for the bottom slot as well. Install the strip with the glossy side facing outward (there are two glossy sides). Do not worry that no adhesive is used. This strip has been carefully designed so that sidewall pressure will keep it in the slot indefinitely.



Left: The seal for this camera should be 1.5mm thick for optimum performance. I have chosen the fabric seal here, but you could also use the foam. You can see I have also installed the inner film door corner seals. I use 1mm thick fabric seal, as was originally used. Please remember to **lick** the adhesive side of these pieces to allow yourself time to adjust them. In 20 minutes, your saliva will be dry, and you can press them down. The dimensions of the seal are 49mm x 5.5mm x 1.5mm. The top inner piece is 8mm x 2mm x 1mm and bottom inner piece is 8mm x 3mm x 1mm.



~~THE MIRROR DAMPER~~



There are two roads you can choose, and it all depends on whether your focus screen needs cleaning. First: The easy way. If you want to leave your focus screen alone, simply remove the small screw in the center of the damper mount and lift the mount up and out. Clean the old damper pad off with solvent, and replace it with a pad cut from 2.5mm thick open-celled foam to the dimensions of

38mm x 2.5mm. Licking the adhesive side will allow you to place it exactly where you want it. Replace this mounting piece as shown in the third row...you will angle it slightly to get the tab in the slot and move it downward where the screw can be replaced. Second: The more comprehensive way. If your focus screen needs cleaning, you can remove it. After you have removed the damper pad mount piece, pry up gently on the tab of the retaining frame. Lift it up and out. There will be a spring under that, and you should notice that it fits underneath the ledge at the rear of the camera. Lift it up and out (tweezers are good here). Your focus screen (and the lens joined to it) will come out if you hold your camera upright and hit the palm of your hand with the bottom. Do this only until you see the frame protrude to the point you can catch it with a small piece of bamboo or the tip of a small screwdriver...do not let fall to your mirror below. You will notice your focus screen and the lens above it are joined by a piece of clear tape. I would suggest cleaning the top of the lens and the bottom of the focus screen with a very soft cloth and glass cleaner and not separating the two. Do not use any solvent on your focus screen...it is too easy to damage. Replace the seal on both sides of the retaining frame piece with tiny (1.5mm wide) strips of 1.5mm thick open-celled foam, and stick them to the sides as indicated. Replace your focus screen, the spring and the retaining frame, being sure to get the back pieces under the ledge at the rear. Then, replace the mounting piece as described above. I will spend as much time as necessary on this area. Do not rush the process.

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. Using the best costs no more. Remember—your camera is a precision piece of equipment. Do not compromise it or risk damaging it by using low-grade foam or foam of an improper thickness or density.

About licking the self-adhesive side: You'll be working with small pieces of foam with one sticky side, and you'll be working in close quarters. Make it easy on yourself by licking the adhesive side before you install the pieces. This will de-activate the adhesive temporarily, and keep the material from sticking to your fingers or tweezers as badly, too. After 15 to 20 minute, your saliva will have dried, and you can press the piece down for a final seal.