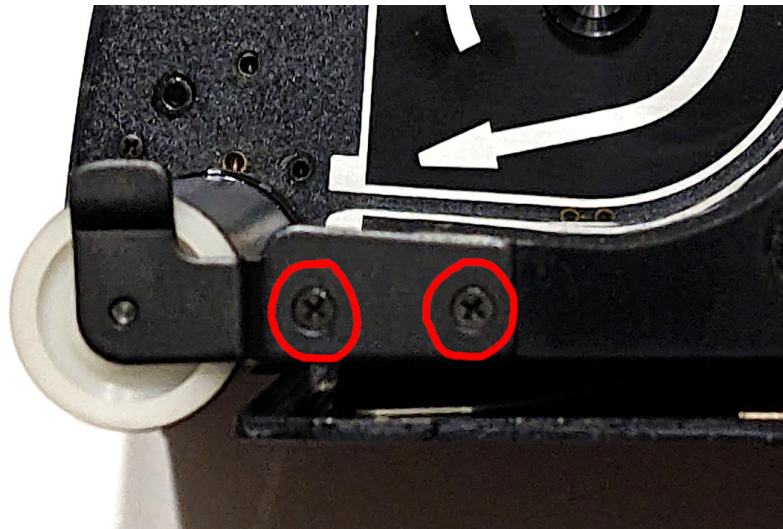


MAMIYA RB67 70MM BACK: ALL-PERF MOD

By default this back will only advance-lock and frame-count properly when loaded with 70mm Type II perforated film that is properly fed over the sprockets in the feed roller. To modify this to accept any film, including 70mm non-perf and 65mm motion picture film (as [spooled for photographers](#) by Mercury Works), first remove the retaining clip that holds the feed roller in place (two screws), then slide the roller off.

Step 1: Remove the film carriage from the shell and remove the bottom from the carriage. Looking at the bottom of the carriage, remove the two small screws circled in red below:

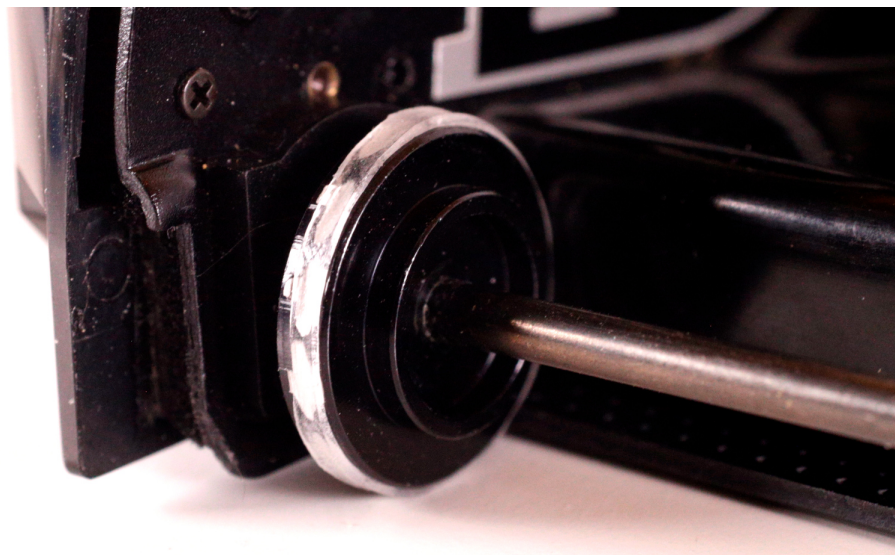


Step 2: Remove the metal plate held by the screws and the roller.

Step 3: The now-accessible sprocket wheel must now be cut down with the Dremel cut-off wheel. Holding the wheel steady, carefully cut off each tooth, one at a time. Then slightly turn the wheel and cut off the next, etc. The ideal goal, however, is not to merely cut the teeth away, but to create a very shallow groove in the middle of the wheel, where each tooth was. Don't cut too deep, and don't leave any sharp burrs, but try to make a slight channel in lieu of each tooth:



Step 3: String an orthodontic band (“¼” X-Heavy Ultra Non Latex Elastics”) over the wheel, seating it in the slight groove where the teeth used to be. Make sure the band isn’t twisted: it should be one consistent flat surface around the circumference of the wheel. If it is twisted when you first position it, simply carefully untwist it section by section until it is flat. Make sure that it is resting in the grooves, or at least in the center of the wheel (you don’t want it creeping too close to the either the top or bottom edge of the wheel).



Step 4: Reassemble the roller, retaining plate, and two screws. If the band ever slips off the wheel, you'll have to take these parts off again and re-position it.

The back will now accept all types of film, including perfed, unperfed, and even 65mm as spooled by Mercury Works. Congratulations!

Note: RB67 backs modified by Mercury Works for sale have all been modified not only to shoot all types of film, but also to function via lever-advance spacing even if the film isn't properly engaging the film advance wheel. This is optional for our 6x7 backs, and mandatory for our 6x6 or 6x9 backs.

These latter are even more reliable, as they completely disable the Mamiya frame measuring mechanism and rely entirely on variable winding strokes instead, making them foolproof.



Mercury Works
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