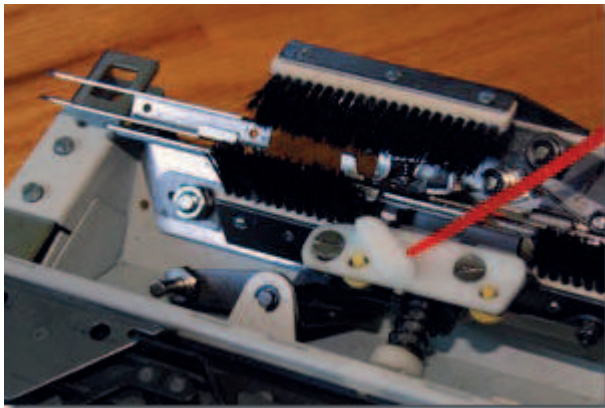


How To Adjust A Passap 4 Color Changer

With so much information presented at the seminar, deciding where to begin once I got home was a challenge. I settled on adjusting my Duo 80 color changer since it's always been cranky. Turns out the face cam on my back lock has been hitting the control lever white nubs way too hard. It's a miracle I never sheared one off.

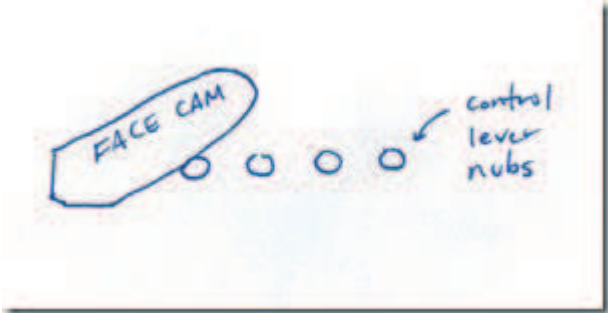
The control lever nubs are the four white pieces of plastic on top of the color changer. The red arrow is pointing to one.



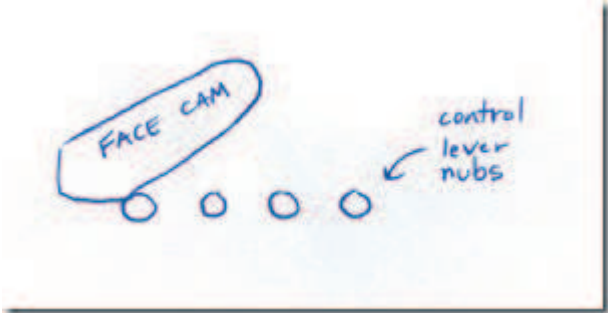
The face cam is located at the top of the back lock on the underside. The red arrow is pointing to it.



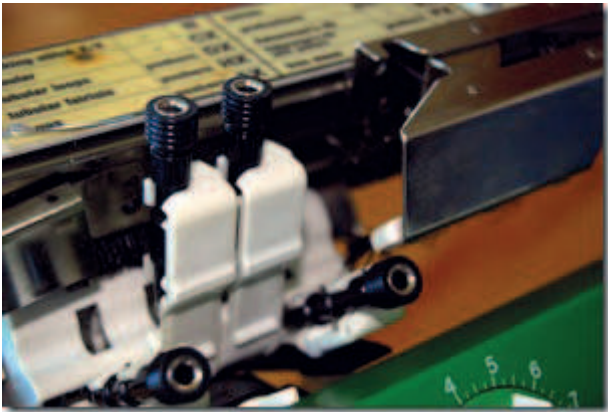
The goal, as presented by Pat Groves in her maintenance class, is for the face cam in the back lock to slightly bump the unselected control levers while hitting the selected control lever with enough force to move the yarn eyelet into the correct position.



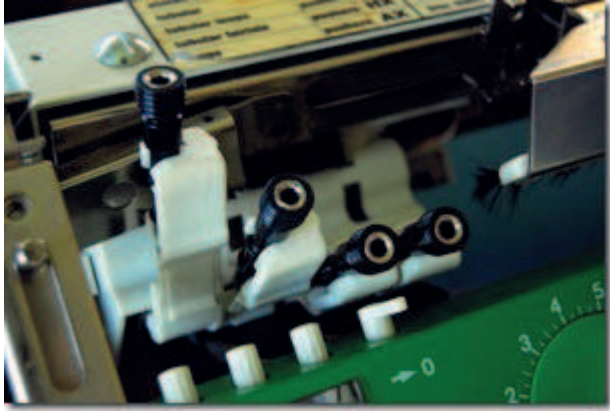
If the face cam is hitting the unselected control lever nubs harder than necessary, it is possible to shear the nubs off.



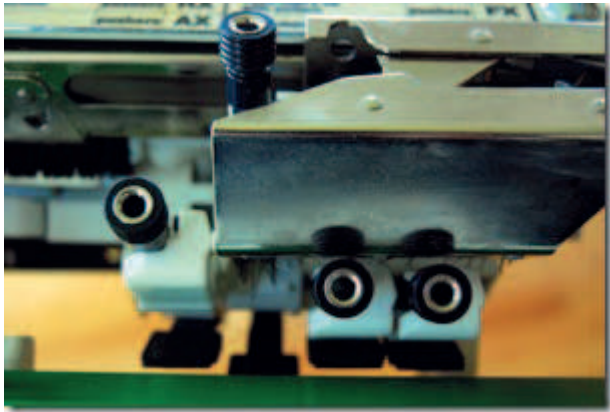
You want the front of the face cam to just bump the nubs when they are unselected



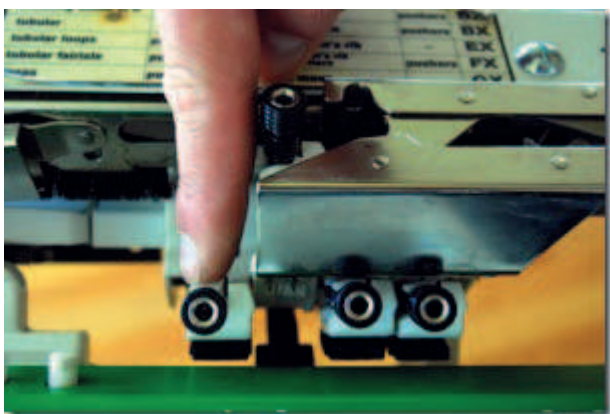
Hit it too soft and the holder won't be taken out of work, causing two eyelets to pop up.



Hit it too hard and an eyelet can pop back up slightly...

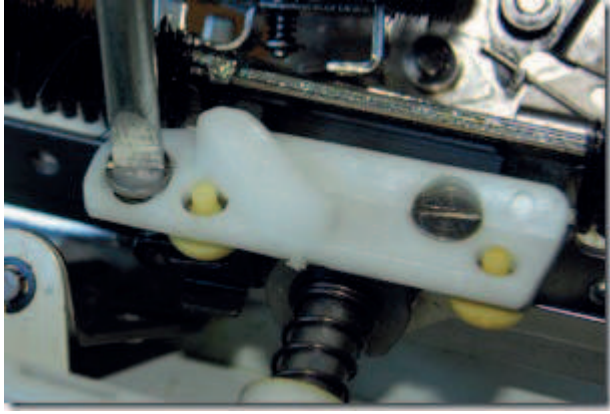


...causing the lock to ram into the yarn eyelet on its return trip to the left. Not a pretty sight.



If either of the above two problems occur while you are adjusting the color changer, gently push the offending eyelet down with your finger until you feel it set into place.

Let's start adjusting.

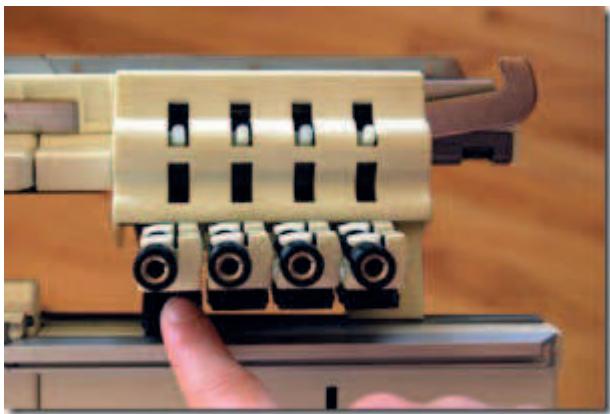


The face cam on the back lock is held in place by two screws. One acts as a pivot, the other as the adjuster. Loosen, but do not remove, both screws to move the cam as needed.

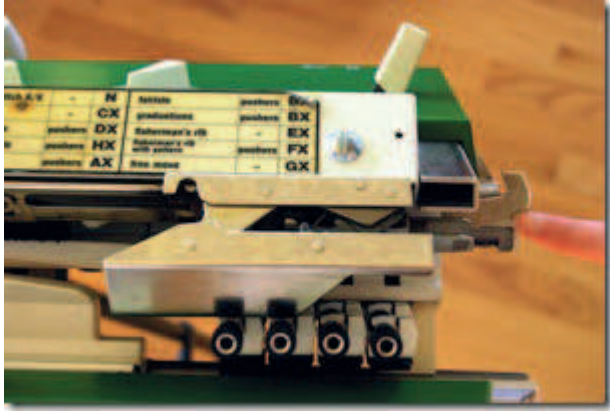
Shifting the left side of the cam (as you look at the underside of the lock) down lessens the force hitting the control lever nubs. Shifting the left side of the cam up increases the force.

Remember, you want the cam to just bump the nubs when no color lever is selected. You should see the eyelet holders move slightly from the bumping. Striking the nubs with too much force can break them and a broken nub is a royal pain to replace.

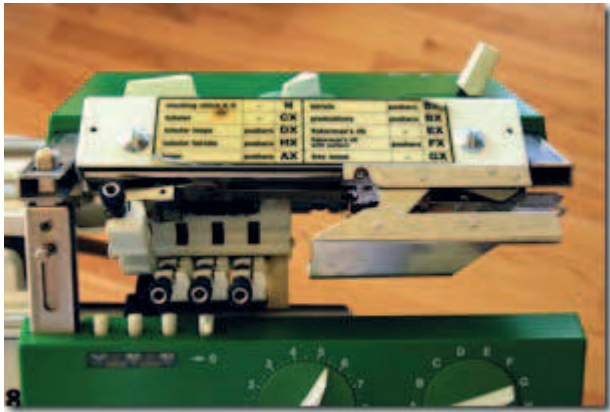
Once you are happy with how the face cam is just touching the control lever nubs, it is time to methodically check each color eyelet to make sure it selects properly.



Start with color 1. With lock to the left, push down the black selector key under the eyelet.

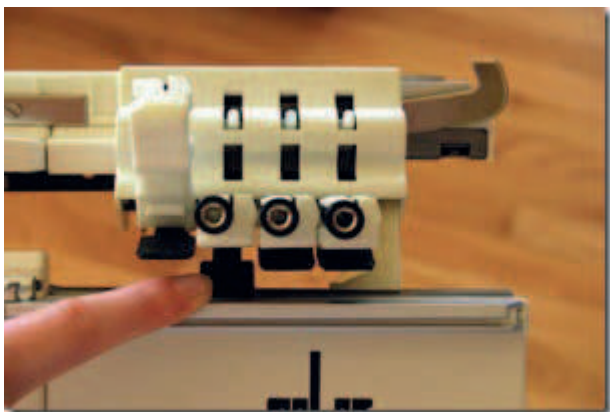


Move the lock all the way to the right so it moves the color changer lever.



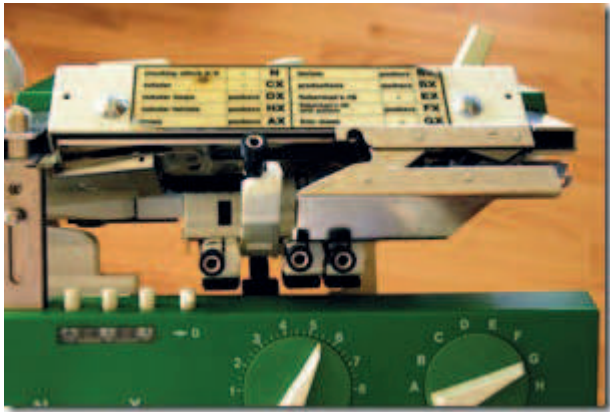
Color 1 eyelet will pop up and be ready for selection.

Move the lock to the left and pick up the eyelet.



Now press down the selection key for Color 2. Notice how the Color 1 holder remains in the up position to receive the Color 1 eyelet on its return trip.

Move the lock to the right, returning Color 1 to its holder.



Continue pushing the lock all the way to the right to trip the color changer lever. Color 2 eyelet will pop up, ready to be picked up by the lock. Color 1 eyelet should have returned to the bottom rest position.

Repeat this process, stepping through all 4 eyelets to make sure they work properly.

If you have two colors popping up at the same time or one color not going fully back down, readjust the face cam on the back lock so it applies the proper pressure.

Pat's instructions greatly improved my color changer's performance. I don't think there will be any sheared nubs in my near-term future.

However, my Color 1 eyelet still insists on occasionally sticking half way back down. If I adjust the face cam further, the other eyelets start acting up. For now I'm choosing to leave it alone and work around the temperamental beast. It is still operating much better than before the seminar.