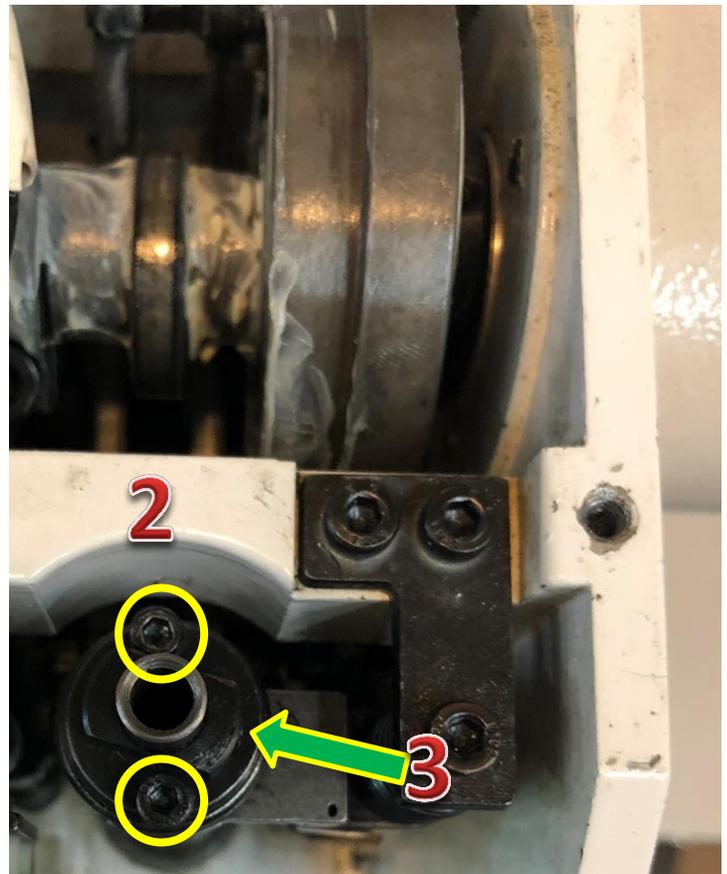
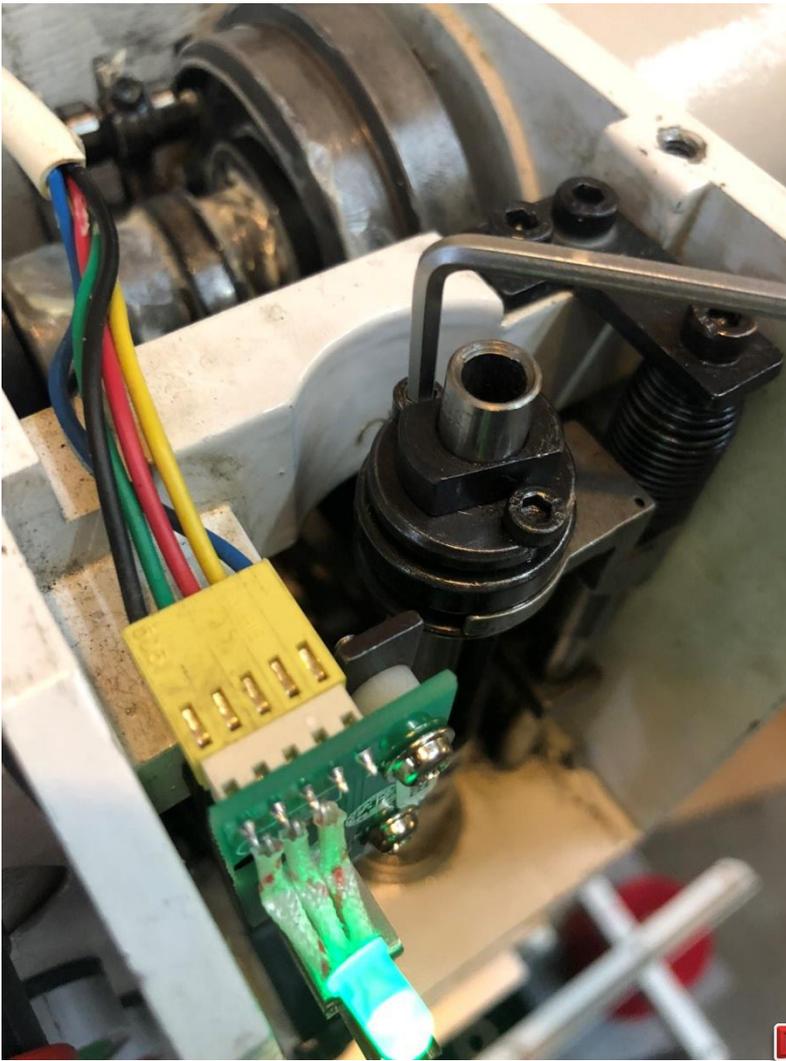


# Highland Chenille Machines: Set Needle Height

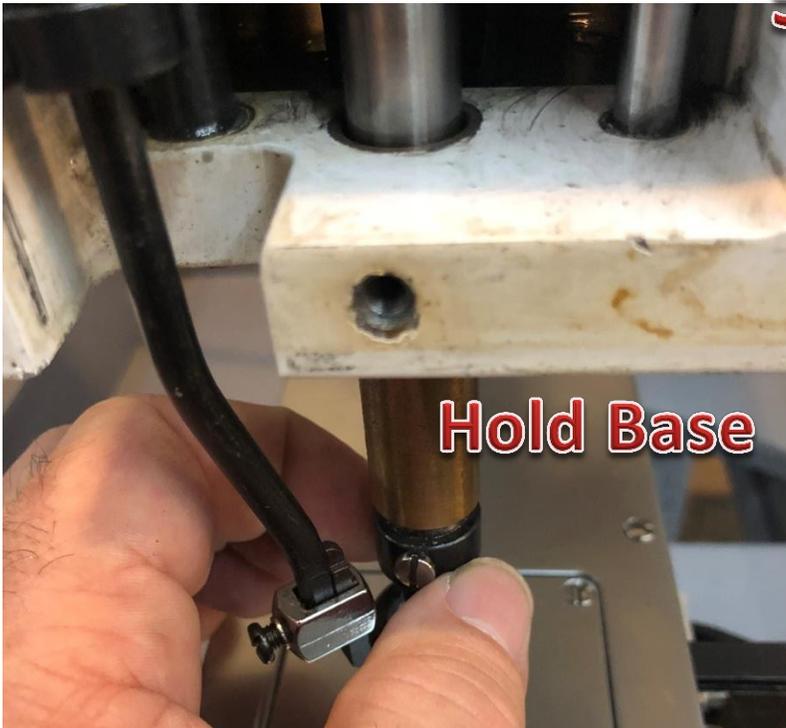


1. Remove the 3 screws circled in red (*illustrated above left*) from the Chenille Head Front Cover and carefully remove the cover.
2. Identify the two screws circled in yellow (*illustrated above*) which allow the needle bar to be removed.
3. Identify the one small set screw that attaches the needle height limit collar to the top of the needle bar (*illustrated above by the green arrow*).
4. Identify the needle bar (*illustrated left*).

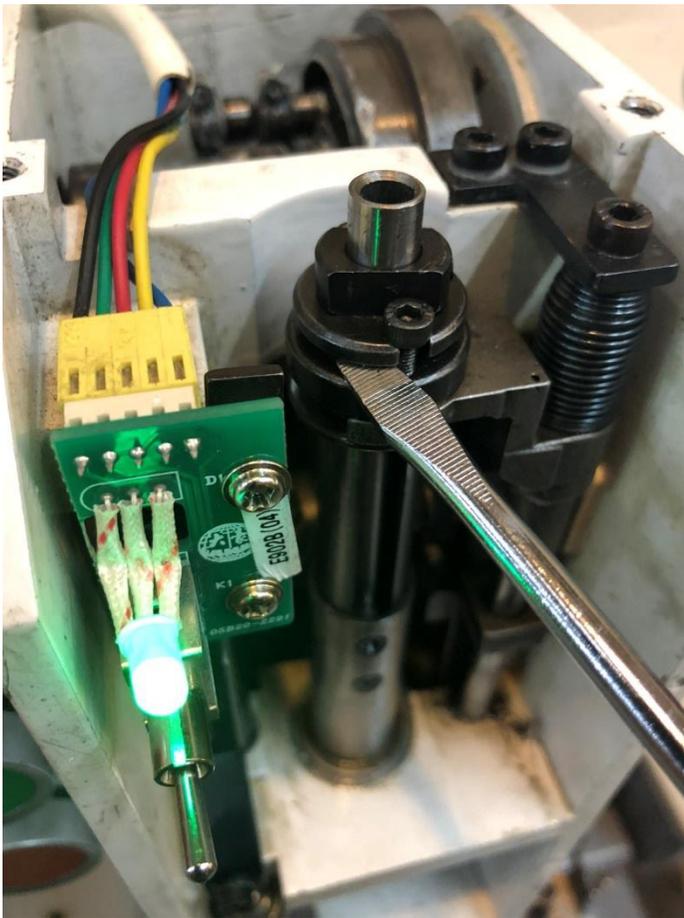


**5**

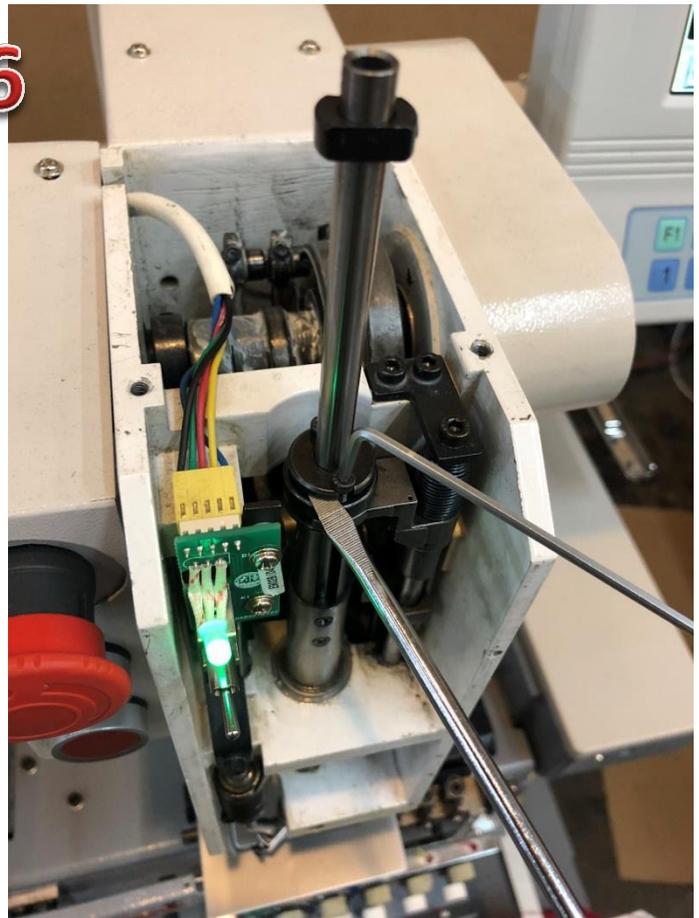
5. Using a 2 mm Allen wrench, loosen the two fixing screws identified in step 2 (illustrated above) while holding the base of the needle bar sleeve (illustrated left).



**Hold Base**



6



6. After the screws are loosened, use a flat blade screwdriver to release the compression collar and slide the needle bar upward as illustrated above.

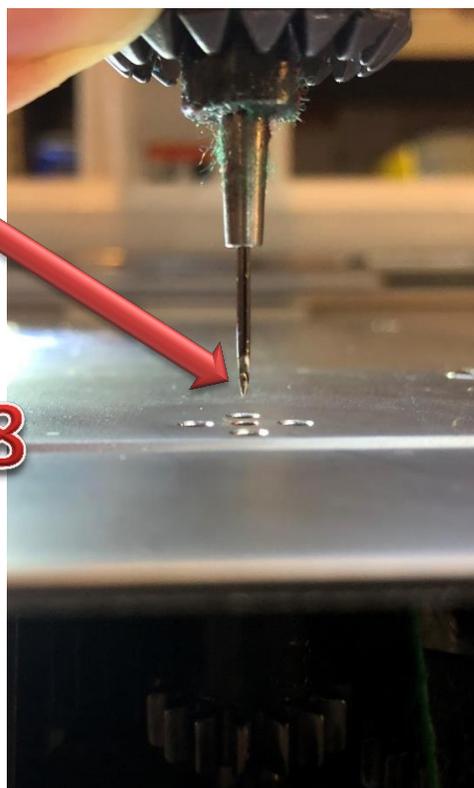


7



Barb

8

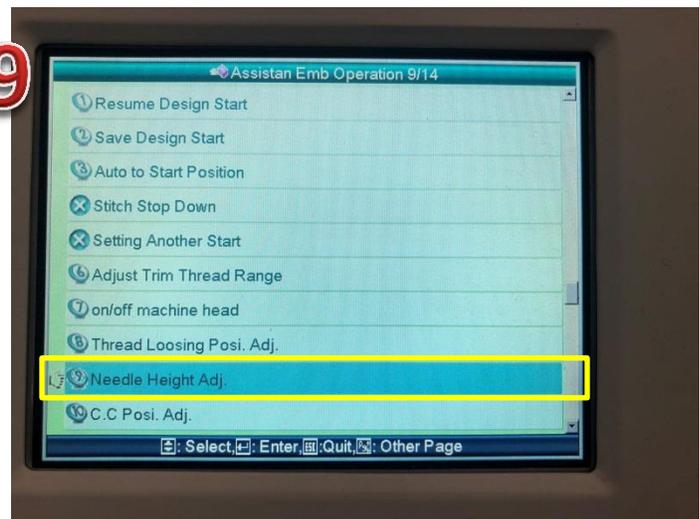


7. After the needle bar is removed, you can replace the chenille needle if the barb is worn, damaged, or broken. When replacing the needle, make certain the flat spot at the top end of the needle aligns facing the 1.5 mm fixing set screw at the end of the needle bar. Verify the top end of the needle is inserted fully into the needle bar before tightening the set screw that secures the needle (illustrated far left).

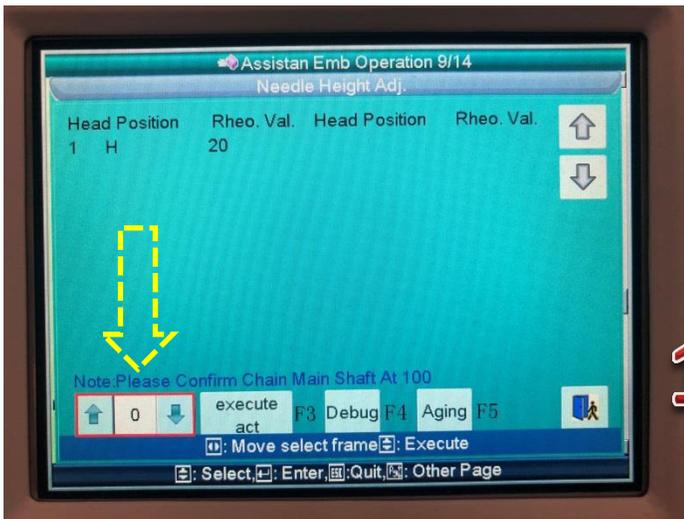
8. Reinsert the needle bar with the barb facing straight forward as you face the machine (illustrated immediate left).



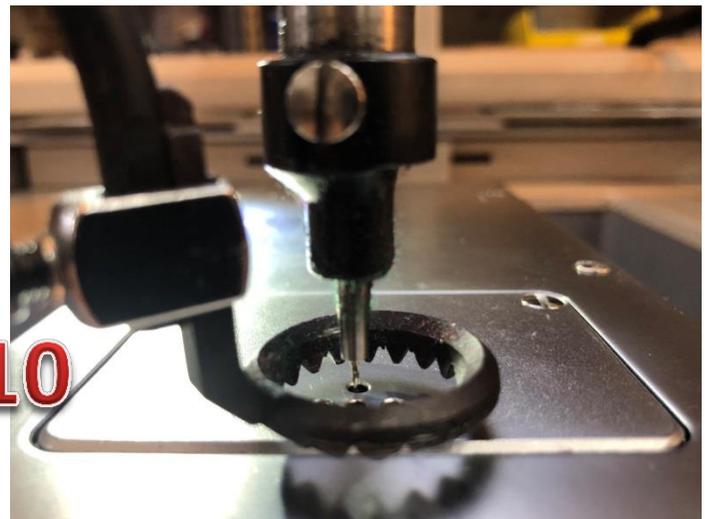
9



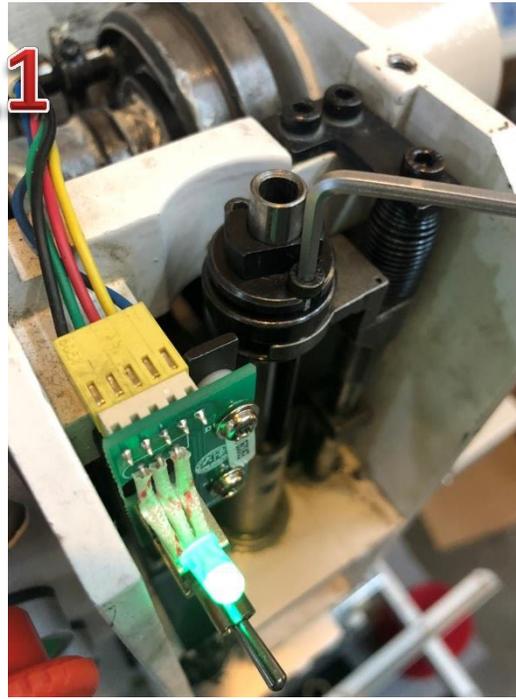
9. Navigate to the screen above on the Op Panel and select the icon (illustrated as F6 above left). Navigate down to “Needle Height Adj.” (illustrated above right) and press Enter on the Op Panel.



10



10. Verify the Chenille head switch is turned **on**; the Head Position selection window is set to 0 (illustrated above left); and that nothing is in the path of the needle. Then, press the F3 key on the Op Panel to execute lowering the needle. The needle should lower as illustrated above right.



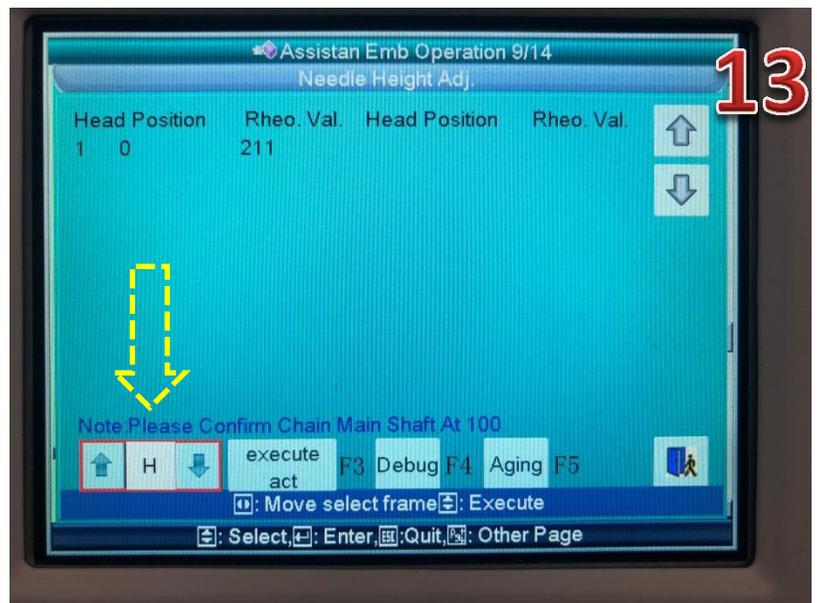
11. Place a 2.5 Allen wrench flat onto the surface of the needle plate and directly under the tip of the chenille needle. Then, secure/tighten the two needle bar coupler fixing screws, identified in step 2.



**NOTE:** If replacing these screws for any reason, you must match the exact type of screw. Screws too long are not going to secure this coupler. These screws have threaded posts no longer than **8 mm**.



12. It may be necessary to adjust the needle height limit collar as identified in step 3 (*illustrated left*). If the tip of the needle does not reach the surface of the 2 mm Allen wrench, this collar will need to be released to allow the needle bar to drop further. In any case, after the needle height is achieved, set this collar to rest against the needle bar couple (*illustrated left*).



13. After the adjustment is completed, you should change the "Needle Height Adj." Position to "H" as illustrated above and press "F3" to execute to raise the needle back into the highest position.