HIRSCH
One Out of Every Two Embroiderers is a Hirsch Customer.

HOOK TIMING

NOTE: If you have a 90/14 needle available it may be used as a gauge to set the distance between the needle and the tip of the hook. Simply put the needle in on needle 1 but turn it sideways so the eye of the needle is from left to right rather than front to back.

STEP1

Make sure the power on the machine is **OFF** at this point.

STEP 2

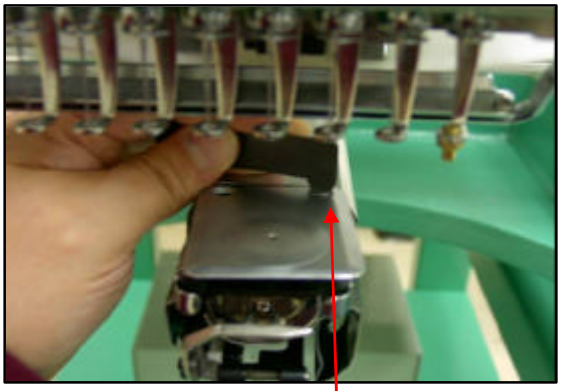
TFHX & TMFX ALL MODELS

TEHX & TMEX SINGLE HEADS

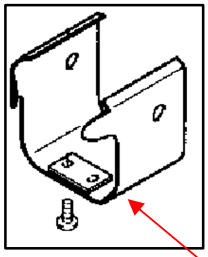
Locate the degree wheel on the machines. TFHX & TMFX models will have two access holes; one to place an allen wrench or a supplied driver to turn the wheel and the second to see the numbers on the wheel. TEHX & TMEX single head models will have the wheel exposed on the back of the machine behind the thread rack and may be turned by hand.

NOTE: You may need a helper at this point because the degree wheel likes to drift when you let go of it but you will need to keep it on 200 degrees when setting the hook. A second set of hands will make this possible.

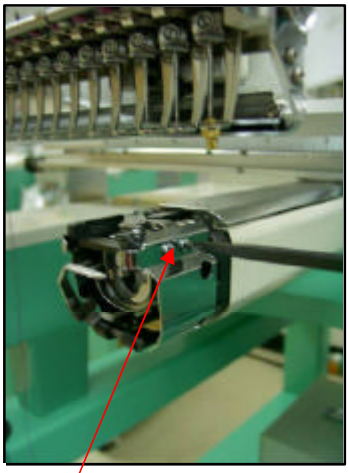
STEP 3



Remove the needle plate by taking out the two flat head screws on the back.



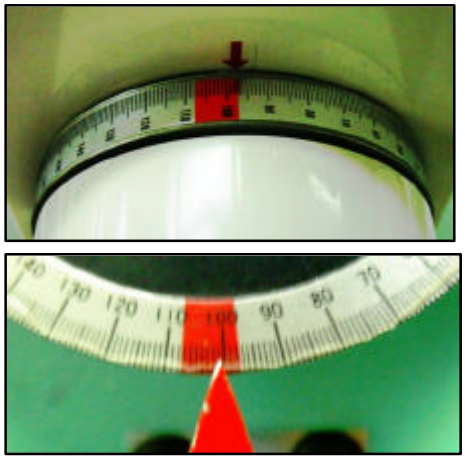
TMFX & TMEX



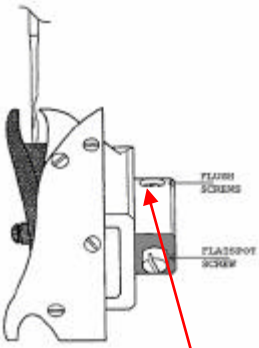
TFHX & TEHX

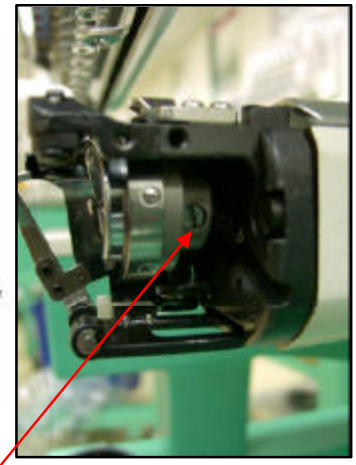
Remove the side cover by taking out the two flat head screws at the top. TMFX and TMEX machines will have a three sided cover with two screws on the bottom.

STEP4



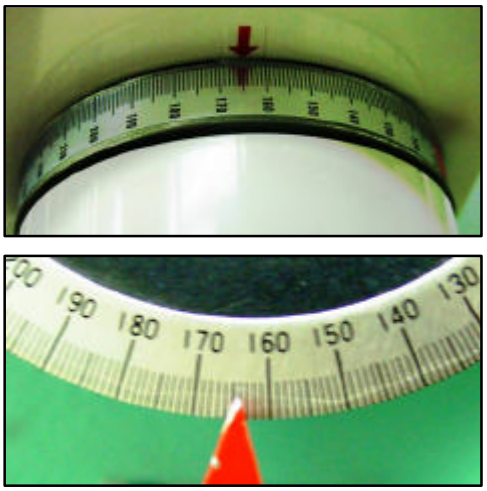
Make sure the degree wheel is reading around 100 degrees. If it is not turn the shaft to get it there.



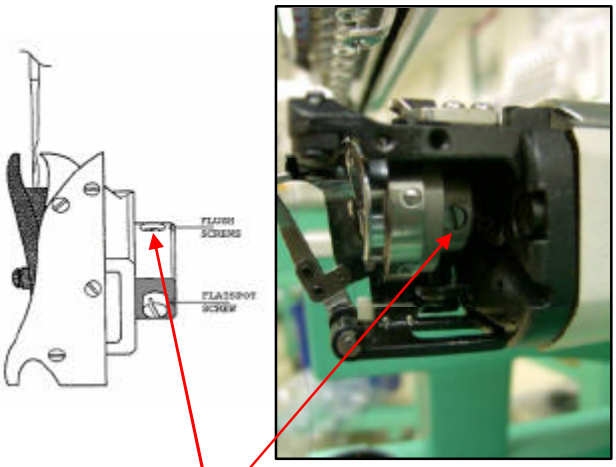


You will now have access to the first of two flush screws that need to be loosened. Do not remove the screw just loosen it up.

STEP 5

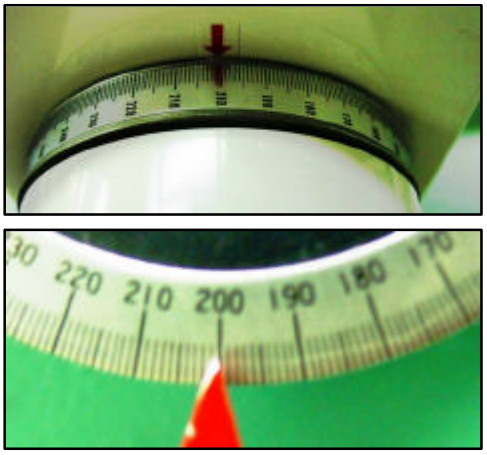


Use the degree wheel to move the shaft. Make sure it is reading around 165 degrees.

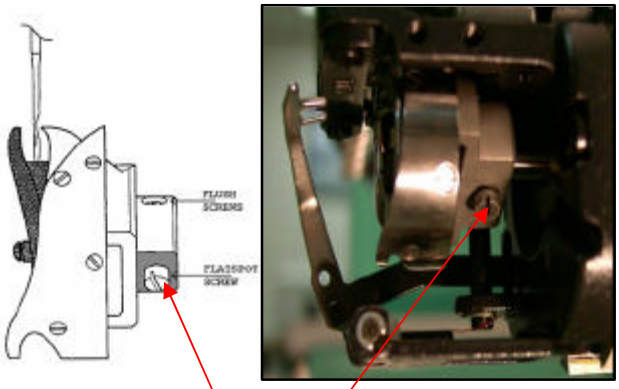


You will now have access to the second of two flush screws that need to be loosened. Do not remove the screw just loosen it up.

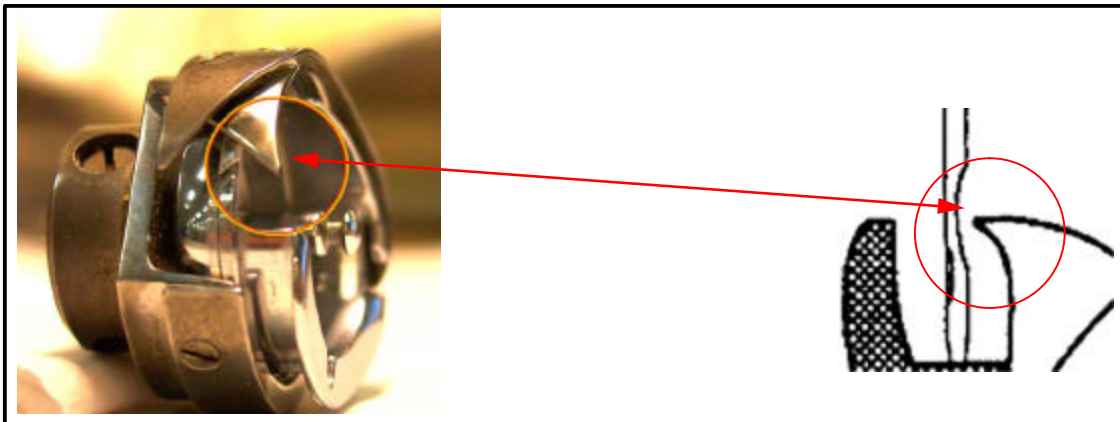
STEP 6



Use the degree wheel to move the shaft again. Now you will need to set the shaft between 200-201 and it needs to stay there. Someone will need to hold it.

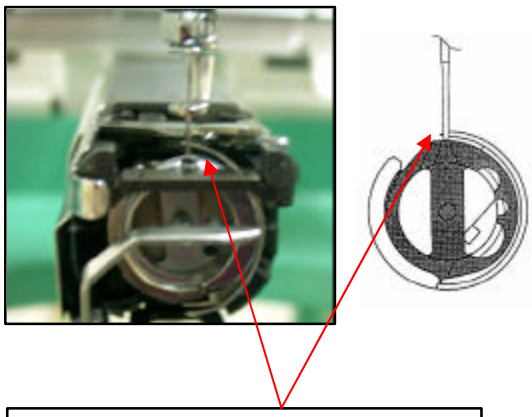


You will know have access to the set screw. When you loosen this one the entire rotary hook will be loose on the shaft.

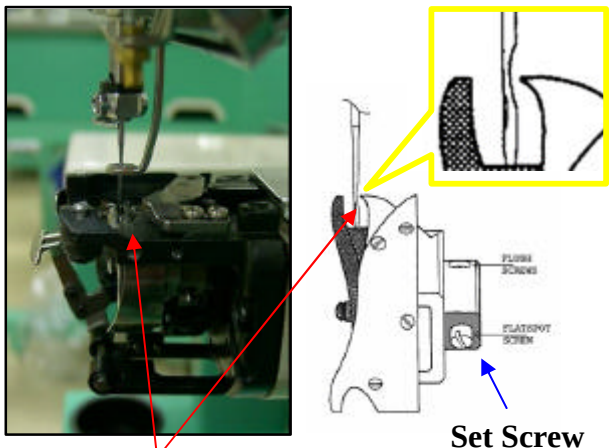


NOTE: These diagrams are meant to show you the tip of the rotary hook. This tip is what you will be trying to set behind the needle, while getting a two thread width gap. (If you are using a 90/14 needle as suggested earlier you want the tip to lightly touch the back of the needle without pushing the needle forward.)

STEP 7



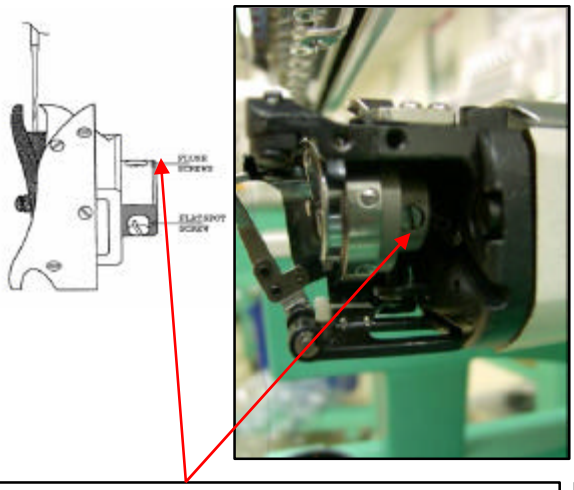
The needle should be down at this point so that you may bring the tip of the hook around to the back of the needle. If you look straight at the needle the tip should be directly behind the needle. (It is OK if the tip is slightly past the left side of the needle.)



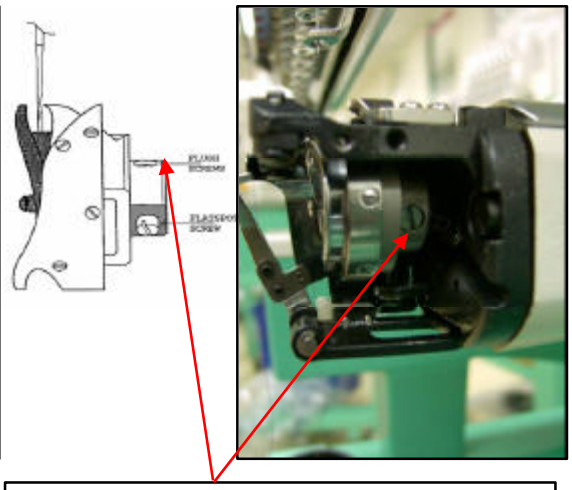
Set Screw

Now you want to get a two thread width distance between the back of the needle and the tip of the hook. (Remember with a 90/14 you need only to have the tip lightly touch the back of the needle.)
TIGHTEN THE SET SCREW NOW

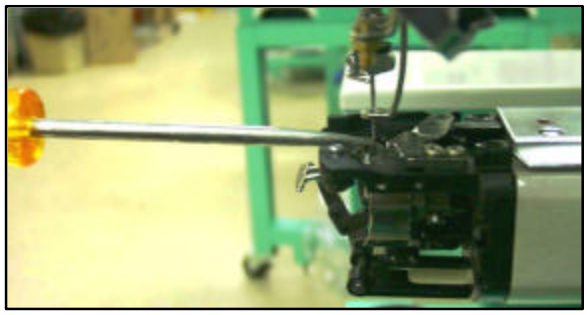
STEP 8



Turn degree wheel until it reads around 165 and tighten the first flush screw.

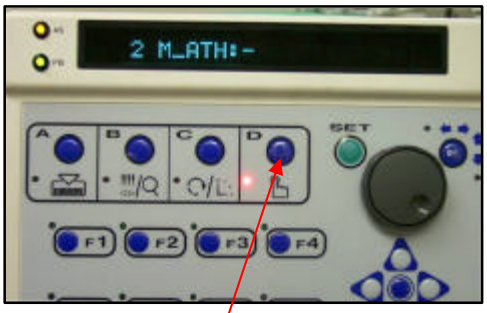


Turn degree wheel until it reads around 100 and tighten the second flush screw. All three screws should now be tight. (Replace the 90/14 needle with a 75/11 at this point)



TIP : In order to help assure that you have a two thread with gap between the back of the needle and the tip of the hook, you may bring the needle back down to 200 degrees. Place the tip of a screwdriver against the front of the needle if you push on the needle it should move slightly back before it hits the tip of the hook. If there is no movement in the needle then you have set the hook too close.

STEP 9



Set up to run a sample design to test the quality of the sewing. If you are not satisfied with the results try this procedure again.

Turn the power on. Proceed to do a manual trim. Press D button twice (M_ATH :-)and turn the dash to a circle, press **SET**. If the needle did not break you should proceed to put the needle plate and side covers back on.