

Needle Bar

Installation Directions for the Needle Bar



Tools Needed

Phillips Screw Driver
Flat Head Screw Driver
Small Flat Head Screw Driver
2.5mm allen T Handle Wrench
3.0mm allen T Handle Wrench



- 1-Confirm the machine is on one hundred degrees. (Fig 1)
- 2-Remove the back cover from the Upper Tension Base and the Upper Tension Base which is located on Top of the Needle Case, remove the two Phillips screws on top and the two 3.0mm bolts on the Bottom. (Fig 2-3)

Needle Bar

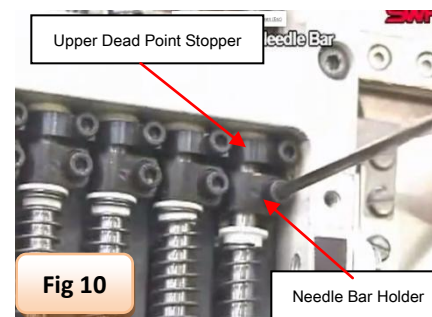
Installation Directions for the Needle Bar (Cont)



3-Remove the two lower covers on the Needle Case. (Fig 4-5)



4-Loosen to remove the Needle Fixed Holder to take the needle out of the machine (Fig 6),
Once removing the screw (Fig 7) the Holder will come out of the Needle Bar. (Fig 8).



5-Remove the black flat head screw from the top part of the Presser Foot. (Fig 9)

6-Loosen the bolts on the Upper Dead Point Stopper and the Needle Bar Holder. (Fig 10)

Needle Bar

Installation Directions for the Needle Bar (Cont)



7-Then needle now can now be pull out of the machine, Making sure you do not loose any parts or Springs.



8-When you are ready to assemble make sure that the two springs do not get cross, the largest of the Two is the Needle Bar Return Spring which goes on first at the top. (Fig 11 and 12)



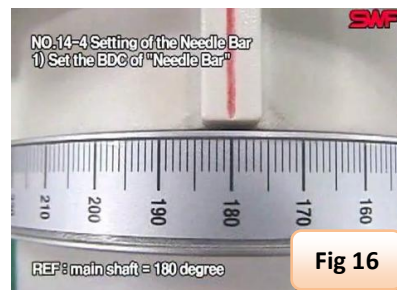
9-Slide the needle bar back through to assemble making sure every part is put back in its proper position You can always confirm and check this by referring to the needle bar beside to the one that you are Replacing.

Needle Bar

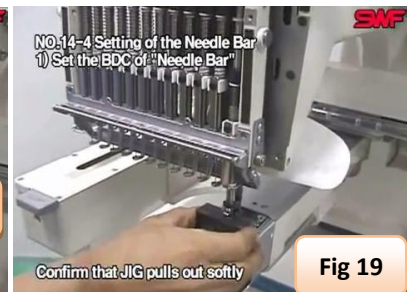
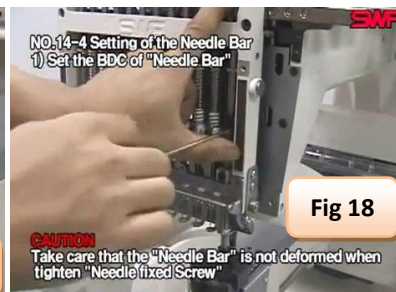
Installation Directions for the Needle Bar (Cont)



10-Once you have everything back in place it is time to make sure the adjustments for the Needle Bar Holder and the Upper Dead Point Stopper on the Needle bar is correct. (Fig 14)



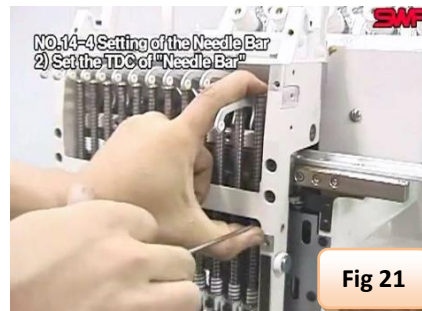
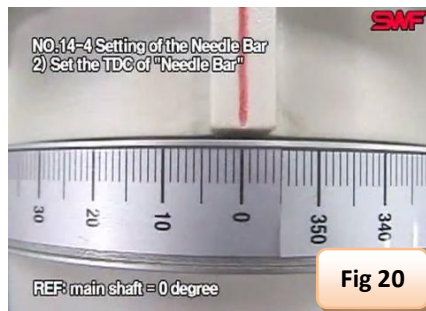
11-Remove the Needle Plate and Spin the degree wheel to 180.



12-Needle Bar Holder is located at 180 Degrees (Fig 15), and by removing the Needle Plate (fig 15) and using The Jig or a Round Needle depth Gauge (Fig 17), inside the bottom case area at 180 degree you Loosen the bottom collar and make sure that the Needle Bar is touching the Jig and is not forced in And can pull out softly. (Fig 17 and 19)

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13-Next for the Upper Dead Point Stopper return the degree wheel to zero degree (fig 20) and then The upper collar goes again the upper cushion rubber making sure that the Cushion is not depressed Nor is there any play or motion in the Needle Bar in the up and down position (Fig 21).



14-Make sure that you oil properly the new Needle Bar (Fig 22-23), turning the degree wheel you can Confirm a regular Needle up/down movement.



15-At this point reassemble the needle plate, The Tension Base And the Covers, confirm proper operation of the Needle Bar You will need to rethread that needle and do a test sewout.



16-Below a 4 part videos to replace the Needle Bar.

Needle Bar

Installation Directions for the Needle Bar (Cont)



Part 1-<http://www.youtube.com/watch?v=LcwpH21Bdyl>

Part 2-<http://www.youtube.com/watch?v=4j9xDEU1LXE>

Part 3-<http://www.youtube.com/watch?v=nBtXf460Yps>

Part 4-<http://www.youtube.com/watch?v=sRR4Vyubjfl>