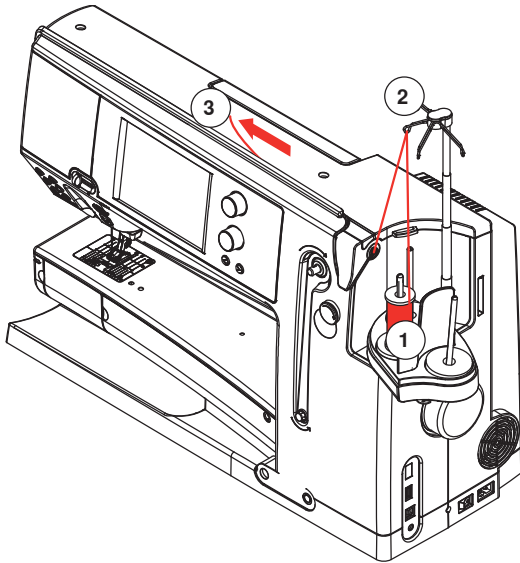


## Threading the Upper Thread

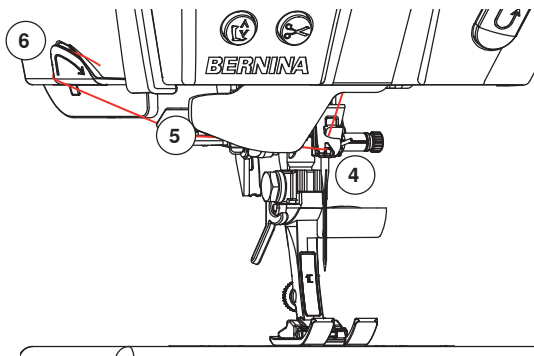
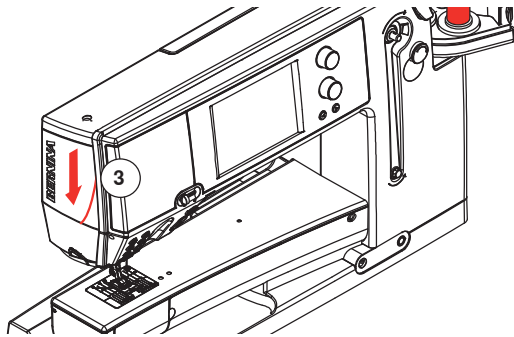
### ATTENTION!

Do not start the threaded sewing-/embroidery computer if there is no fabric on the stitch plate.  
The sewing-/embroidery computer must be switched ON for threading.



#### Automatic

- place thread spool on the rear or center spool pin 1
- thread the corresponding guide 2 on the telescopic rod
- hold with both hands and guide into the threading opening 3 of the sewing computer until ...



- ... taking it up to the thread guide in the needle clamp 4
- then lead it to the left into the thread clamp 5 and pull it over the thread cutter 6 from the back to the front
- touch the «Automatic threader»-button
  - ▶ this will be indicated by a message and shown in an animation
  - ▶ during threading the «Start/Stop»-button is illuminated red
  - ▶ if the thread has been threaded correctly the «Start/Stop»-button is illuminated green

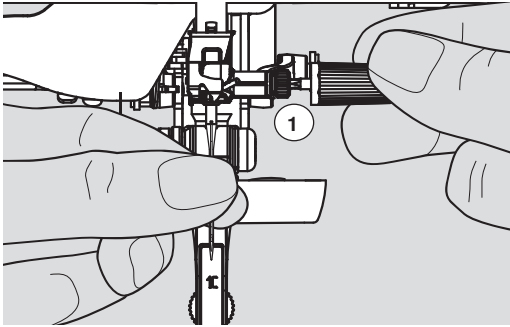
#### Manual

- follow the five first steps as described above
- touch the «Manual threading»-icon in the Display
- touch the «Automatic threading»-button, then thread the needle by hand



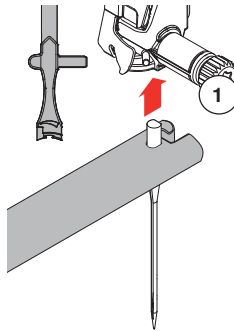
- when using unruly threads, slip the net over the upper thread spool
- large net for large spools, small net for small spools
- this prevents the upper thread from slipping and gives an even thread feed
- place the thread(s) under the presser foot and to the back before starting to sew

## Changing the needle



### Removing the needle

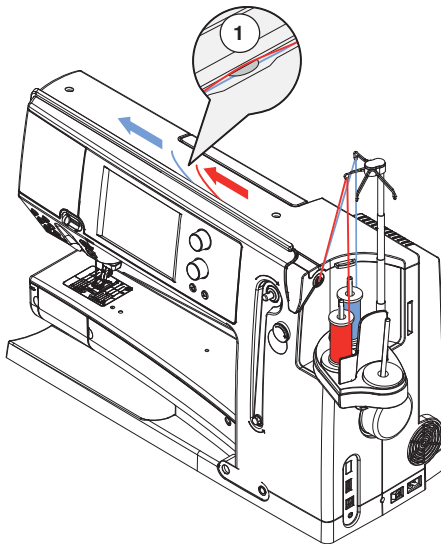
- raise the needle
- remove or lower presser foot (see page 27, 39)
- turn power switch to «0» (off)
- loosen the needle clamp screw **1** using the gray screwdriver
- pull the needle down to remove



### Inserting the needle

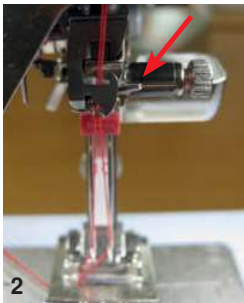
- flat side of needle to the back
- insert the needle with the multifunction tool as far as it will go
- tighten needle clamp **1** using the gray screwdriver

## Threading Double/Triple Needle



### Threading Double Needle

- touch the «Security Program»-icon
- touch the corresponding needle icon in the «Security Program»-Display
- close the «Security Program»-Display
- place a thread spool on the center spool pin and one on the rear spool pin and thread the corresponding guides on the telescopic rod
- insert the two threads together into the threading slit, guiding the thread of the rear spool pin behind the thread-tension disc **1** while guiding the thread of the center spool pin in front of the tension disc **1**. Then guide the two threads through the thread guide at the needle clamp
- touch the «Manual Threading»-icon in the threading animation Display. Next touch the illuminated automatic threading button
- using the manual threader in your accessory kit, manually thread the left needle and then the right needle



### Working with the Double needle

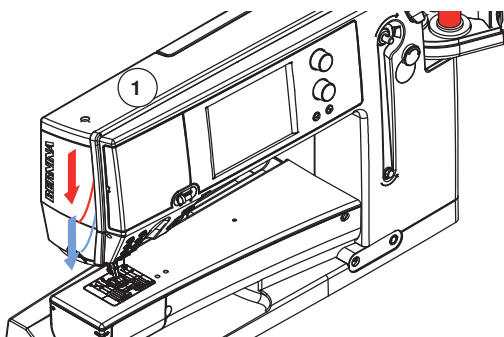
To achieve the best sewing quality:

Upper threads must be guided separately into the thread guide of the needle clamp.

- at that point, thread the first thread behind the wire as usual (red arrow), thread the second thread in front of the wire (picture 2)
- the recommended optimal speed for Double Needles ranges from about 350-500 stitches per minute. Set the slide speed control as shown below (picture 3)
- make sure that the threads are not twisted after the thread take-up lever. For a better sight the cover can be removed

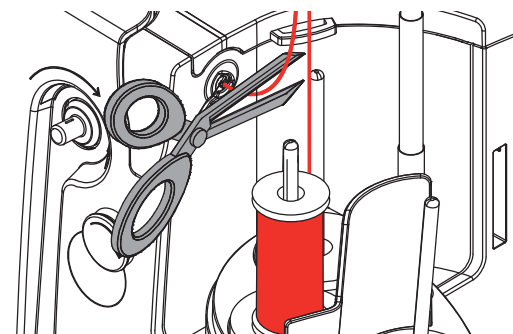
### As a general guideline:

- replace the needle before starting a new sewing project
- Needles are wearing parts and by frequent use they change their features. Even after 1.5 hours of usage first abrasions are recognizable. After about 8 hours, increases in thread breakage, loops and poor stitch formation may occur.



### Triple Needle

- touch the «Security Program»-icon
- touch the icon of the triple needle in the «Security Program»-Display
- place a thread spool on each spool pin and thread the respective guides on the telescopic rod
- thread as usual, guiding the thread from the rear and center spool pin in the threading slit to the rear of thread tension disc **1** and the thread from the front spool pin in front of the tension disc



### Changing the thread

- cut the spool thread before the pre-tension and pull out of the sewing computer **in front of** near the needle