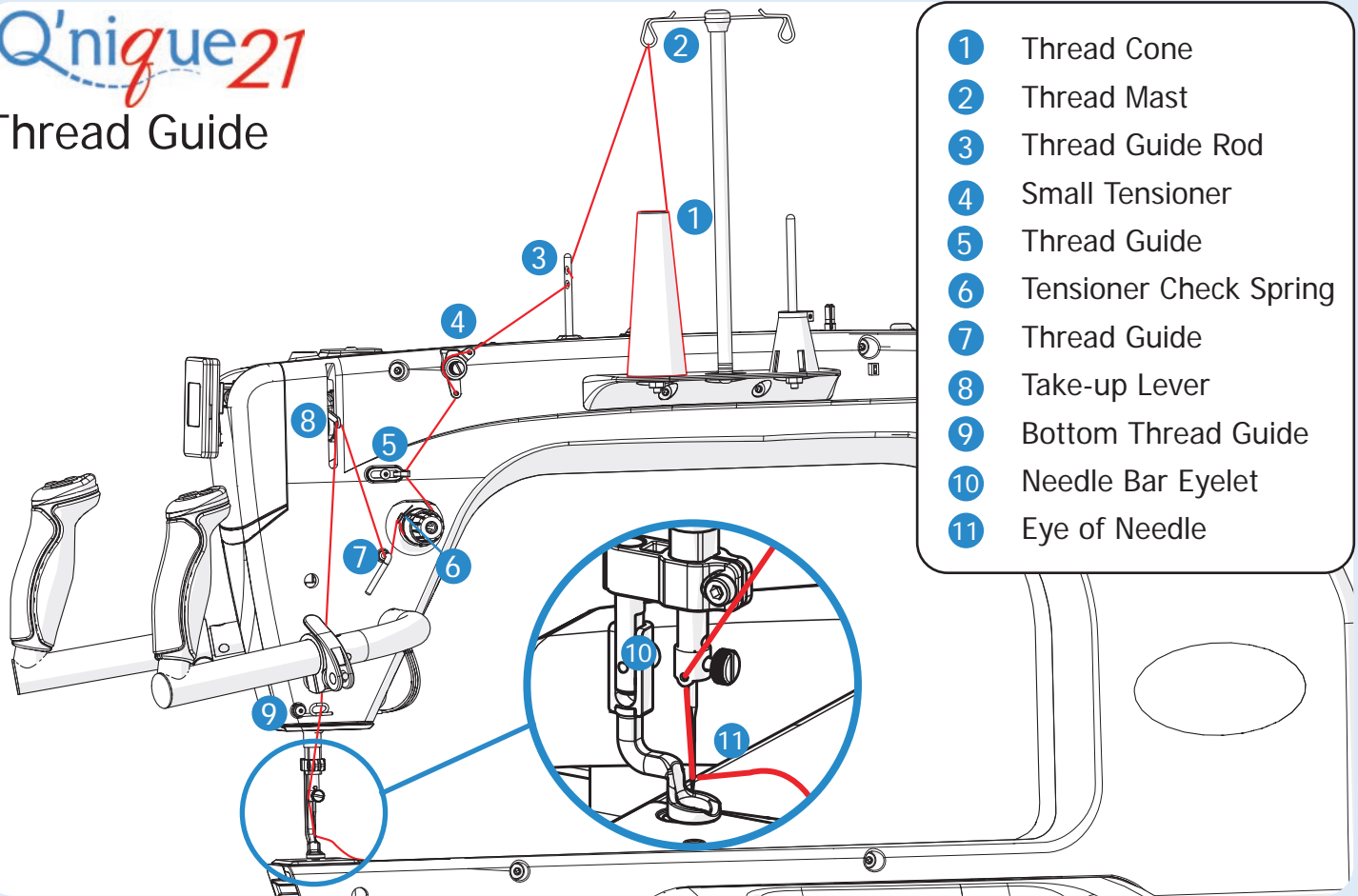


Thread Guide



- 1 Thread Cone
- 2 Thread Mast
- 3 Thread Guide Rod
- 4 Small Tensioner
- 5 Thread Guide
- 6 Tensioner Check Spring
- 7 Thread Guide
- 8 Take-up Lever
- 9 Bottom Thread Guide
- 10 Needle Bar Eyelet
- 11 Eye of Needle

Troubleshooting

If your thread is breaking...

- Replace your needle if it is bent or burred. Use the needle magnet to align and install your needle straight.
- Follow the "Top Thread Tension" guide on the back to correct your thread tension.
- Check that your machine is threaded correctly using the "Thread Guide" above.
- Follow the "Bobbin Guide" on the back for threading, tensioning, and installing the bobbin case.
- Check the hopping foot height.
- Adjust the take-up rail on your quilting frame to be 1/4 inches above the needle plate.
- For more help, call 1(800) 264-0644 or e-mail support@graceframe.com.

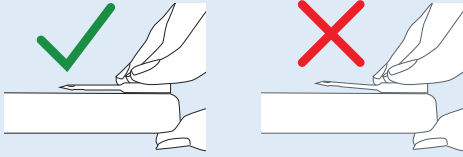
If your machine is skipping stitches...

- Replace your needle if it is bent or burred. Use the needle magnet and to align and install your needle straight.

- Follow the "Top Thread Tension" guide on the back to correct your thread tension.
- Check the hopping foot height.
- Adjust the take-up rail on your quilting frame to be 1/4 inches above the needle plate.
- For more help, call 1(800) 264-0644 or e-mail support@graceframe.com.

Needle Information

Use a straight needle.



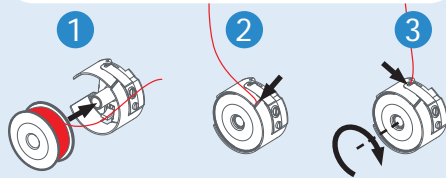
Needle Style: DPx5 MR, 134 MR, 1955 MR **Bobbin Type:** M-Class

Size: Thread Size and Type:

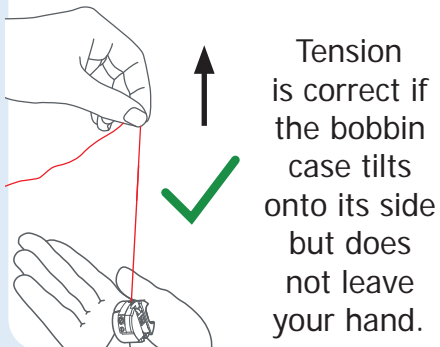
14/90	mono-filament, 100 wt. silk, 60 wt. polyester
16/100	mono-filament, 60 wt., 50 wt. polyester or cotton thread
18/110	40 wt. cotton and polyester, 30 wt. cottons and polyester
20/125	any thread 30 wt. or heavier

Bobbin Guide

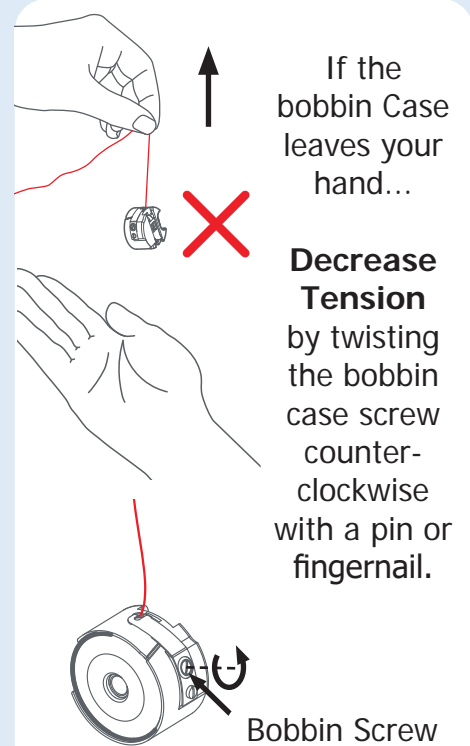
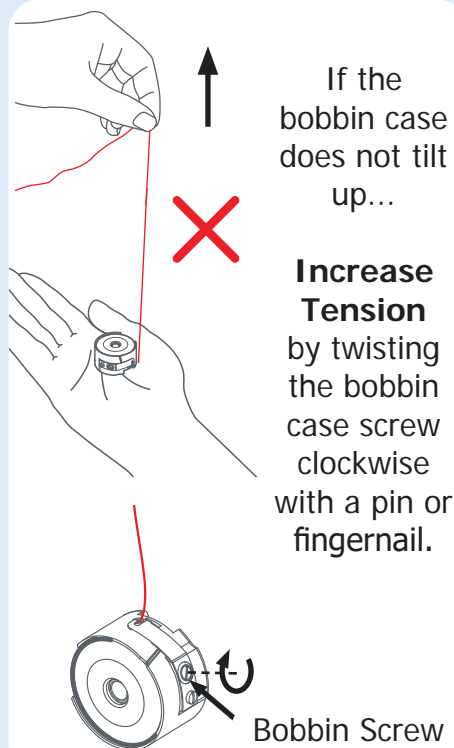
Place the bobbin in the bobbin case so that when you pull the thread, the bobbin rotates clockwise.



Tension Test: Hold the bobbin case in your hand and pull the thread up.

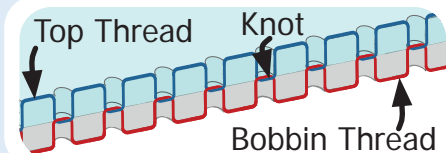


Set the bobbin tension first, and then adjust the top thread tension.



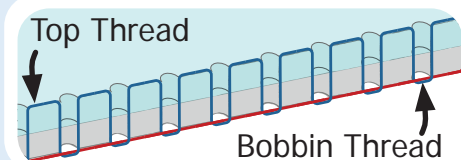
Top Thread Tension

Set the bobbin tension first (see above).

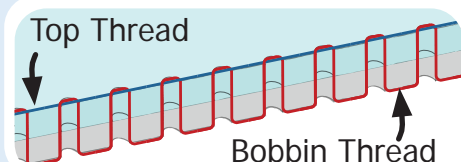
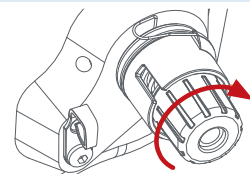


Correct thread tension

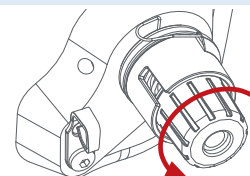
The top and bobbin thread knot in the middle of the fabric layers.



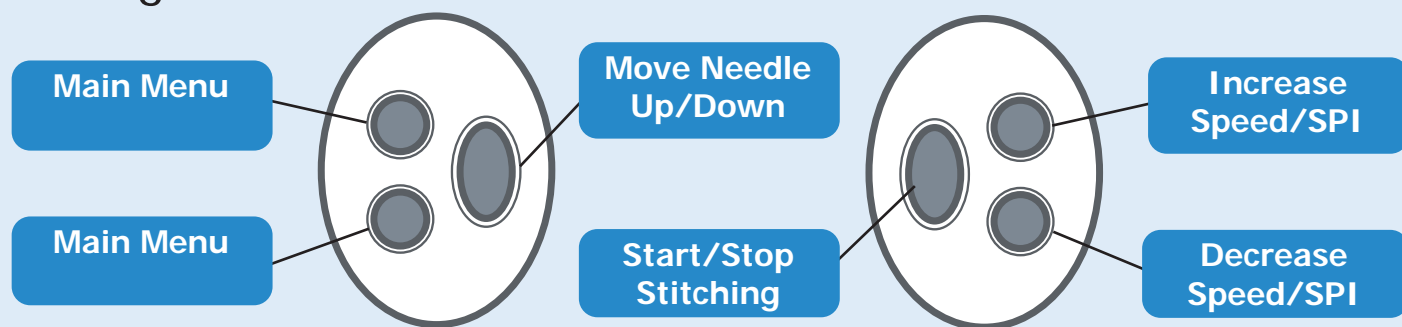
If the top thread is pulled through the bottom layer of fabric, increase tension.



If the bobbin thread is pulled through the top layer of fabric, decrease tension.

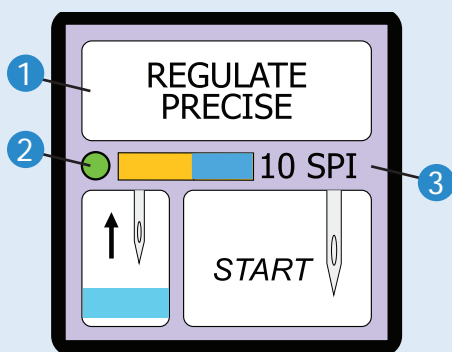


Quilting Controls



*These buttons may be reversed in Preferences for left-handed quilters.

Quilting Screens

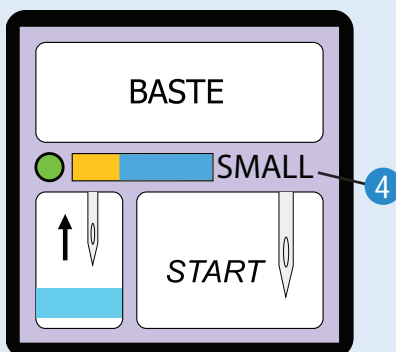


- 1 Quilting Mode**
Go to the Main Menu to change quilting modes.

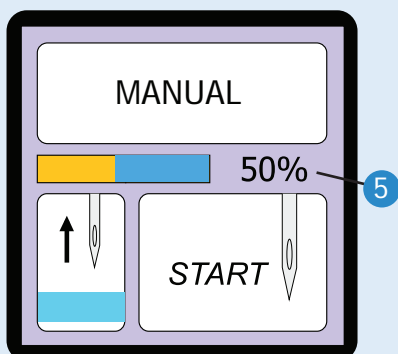
- 2 Over-speed Indicator**
Alarm sounds and indicator turns **red** if machine is moved too quickly for stitch length setting. To turn off alarm, go to the Preferences menu.

- Machine movement speed is good.
- Slow down. Machine movement too fast.

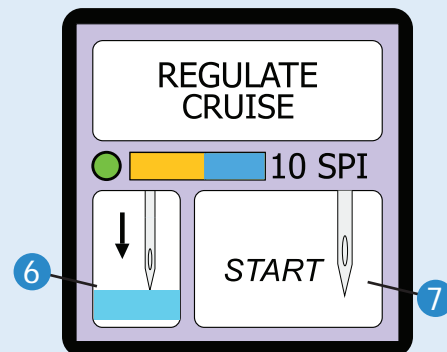
- 3 Stitch Length**
Displayed in Stitches Per Inch (SPI) or Centimeter (SPC). To change units, go to the Preferences menu. To change the stitch length, press Increase or Decrease on the handlebar controls.



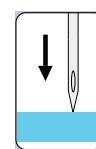
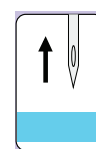
- 4 Basting Stitch Length**
Baste stitches can be set to [Small], [Medium], and [Large] by pressing Increase or Decrease on the handlebar controls.



- 5 Manual Speed**
Displayed as percentage of highest speed. Change by pressing Increase or Decrease on the handlebar controls.

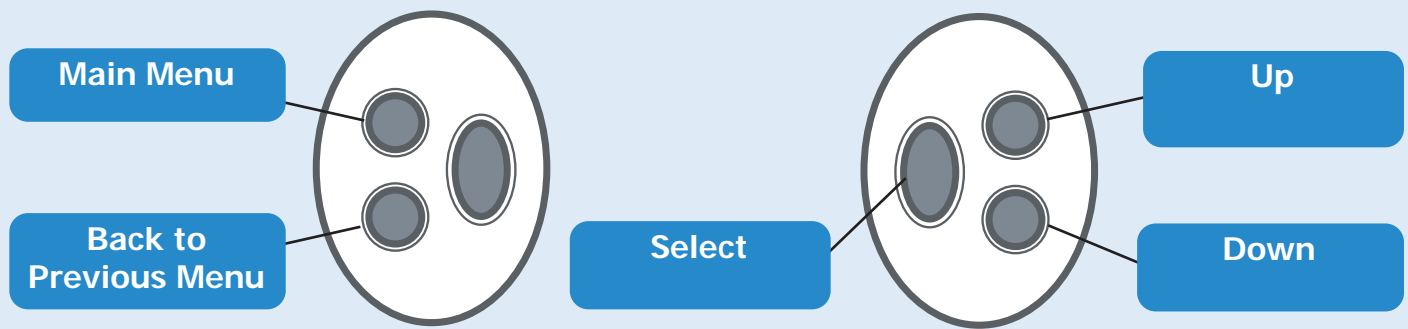


- 6 Needle Stop Indicator**
Indicates whether the needle will stop sewing in the [Up] position or the [Down] position. Press and hold the Needle Up/Down handlebar control for 3 seconds to switch the needle stop position.



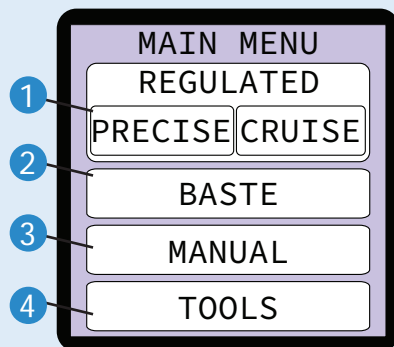
- 7 Start/Stop Indicator**
Corresponds to the Start/Stop Stitching handlebar control. When stitching is active, indicator reads [STOP]. When Stitching is not active, indicator reads [START].
Note: During active stitching, some handlebar control buttons are locked from use.

Menu Button Controls



*These buttons may be reversed in Preferences for left-handed quilters.

Menu Screens



1 Regulated Quilting

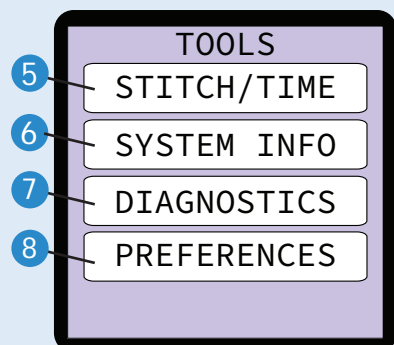
Choose between two regulated quilting modes:

- Precise: Stitching stops when machine is not moving.
- Cruise: Stitches in place when machine is not moving.

2 Baste

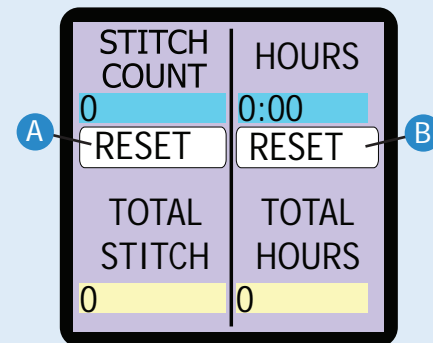
3 Manual Quilting

4 Tools Menu



5 Stitch/Time

Select to open the stitch and machine run-time counter.



A Stitch Count Reset

Press to reset the stitch count. Total Stitches cannot be reset.

B Hours Reset

Press to reset the machine run-time count. Total Hours cannot be reset.

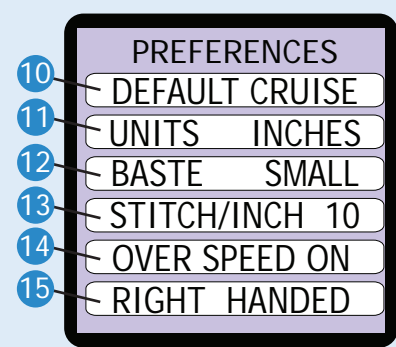
6 System Information

Select to view the machine and display firmware.

7 Diagnostics

Select to test encoders, buttons, or sensors in case of malfunction.

8 Preferences Menu



10 Default Mode

Choose the starting mode or menu for the machine: [Precise], [Cruise], [Baste], [Manual], or (Main) [Menu].

11 Units

Switch between [Inches] and [Metric].

12 Basting Stitch Size

Choose the stitch size for the basting mode: [Small], [Medium], [Large].

13 Stitch/Inch

Choose stitches-per-inch for regulated quilting.

14 Over Speed

Select to turn off over-speed alarm.

15 Right Handed

Select to reverse the handlebar controls.