

Tips and Techniques on the PR-620

Techniques and Tips on the PR-620

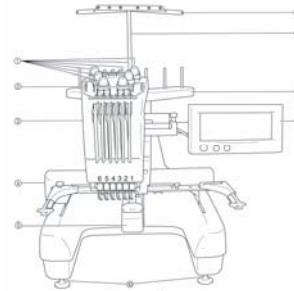
Learn how to demonstrate the PR-620 and make it look as easy as it really is. Topics to be covered will be: basic operation, machine threading, screen icons, merging patterns, using more than 6 colors in a single project and much more. Be impressed at how swiftly you can transfer designs from Brothers extensive library of cards or from the computer/PE Design 8.0 software to the PR-620. Create endless possibilities with the editing and copy function built right into the machine.

Tips and Techniques on the PR-620

Machine Parts

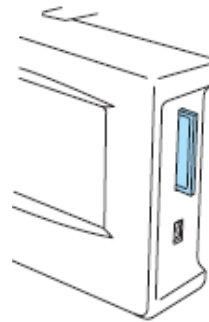
Front View:

1. Thread tension knobs
2. Thread pin guide
3. Needle bar case
4. Carriage
5. Hook cover/hook
6. Thread guide assembly support
7. Spool stand
8. Operation panel
9. Feet



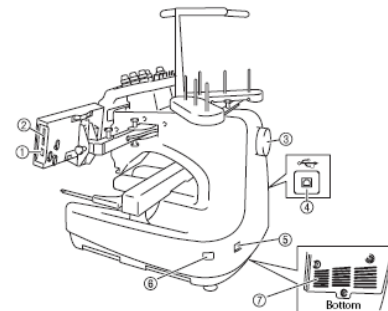
Side view:

1. USB type "A" (host) port connector
2. Embroidery card slot



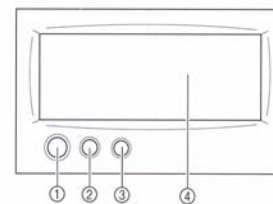
Side/rear view:

3. Hand wheel
4. USB type "B" (function) port connector
5. Power supply plug
6. Main power switch
7. Ventilation slots



Operation panel:

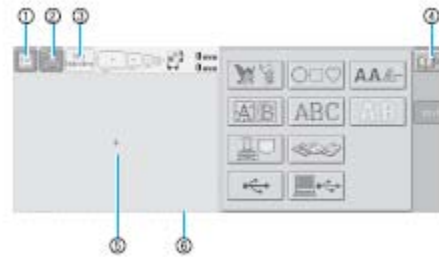
1. Start/stop button
2. Thread trimming button
3. Automatic needle-threading button
4. LCD (touch panel)



Tips and Techniques on the PR-620

Opening screen

1. Settings key
2. Machine operations key
3. New Embroidery key
4. Help key
5. Pattern Display area



Threading the bobbin and inserting the bobbin case into the hook

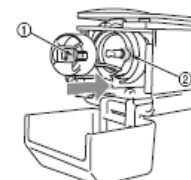
1. Insert the bobbin into the bobbin case



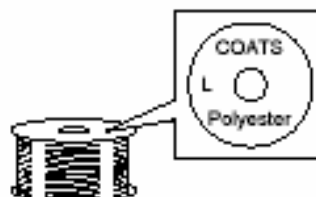
2. Pull the thread through the opening in the tension adjusting spring



3. Insert bobbin case into machine and close cover



Use only prewound bobbin ("L" type/ Polyester) or bobbins specifically designed for this machine

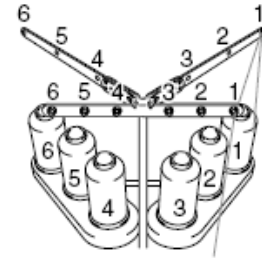


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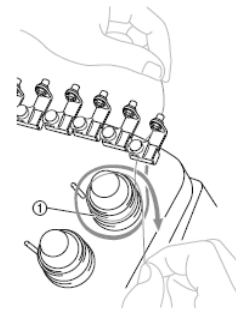
Threading the machine

The numbers indicate the thread path for each of the numbered needle bars.

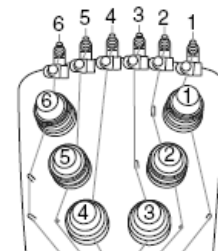
1. Place on spool pin 1 the spool of the thread with the color specified for the needle bar 1



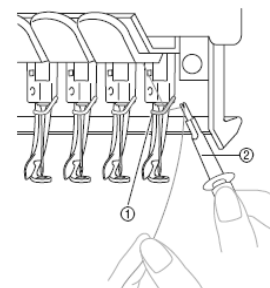
2. Pass the thread through the number 1 hole in the thread guide and wind the thread clockwise once around the thread tension disc.



3. Use thread guides etched on machine to follow path for each thread.



4. Pass the thread through the slot on the thread guide, and then through the hole in the number 1 lower thread guides.



① Needle bar thread guide
② Needle changing tool (Threader)

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5. Use the included threader to pass the thread through the number 1 needle bar thread guide.
6. Repeat this process for each needle to be threaded.

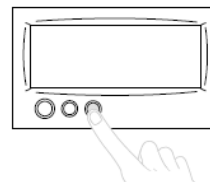
Threading the needle

Note: A design should be loaded in order to thread the needles.

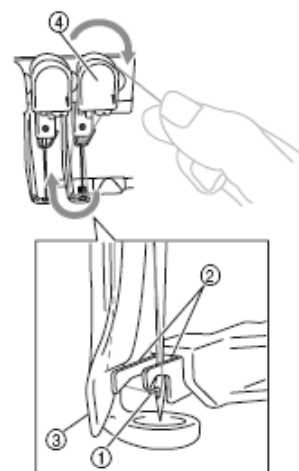
1. Move the needle threader to proper needle by selecting that thread color.



2. Press the automatic needle threading button. The hook on the automatic needle threading mechanism passes through the eye of the needle.



3. Pull out about 6 inches of thread. Then, as shown in the illustration, pull the thread through the fork of the automatic needle threader from the right, and then after pulling the thread through the guide on the presser foot, pull the thread through the thread cutter to cut it.



4. Press the automatic needle threading button.

5. Repeat for remaining needles.

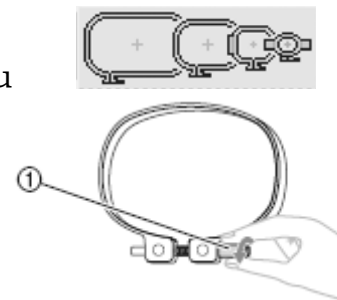
- ① Hook
- ② Fork
- ③ Guide on presser foot
- ④ Thread cutter

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Hooping the fabric in the embroidery frame

Select an embroidery hoop to use. Be sure to use an appropriate size frame for the size of embroidery that you will be doing. If the embroidery frame that is used is too large, the pattern may be misaligned or the fabric may pucker.

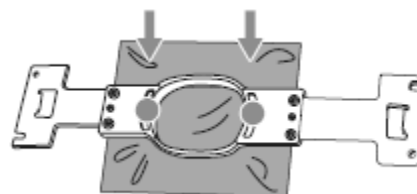
1. Loosen the screw on the outer frame.



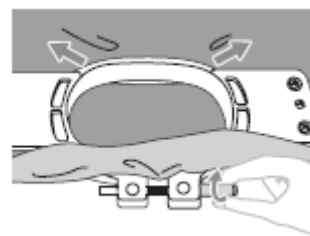
2. Place the fabric with the right side up on top of the outer frame.



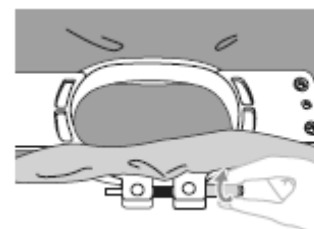
3. Press the inner frame onto the outer frame. Be sure there are no wrinkles in the fabric after it is stretched in the embroidery frame.



4. Lightly tighten the screw, and then pull the edges of the fabric.



5. Securely tighten the screw, and then check that the fabric is taut.




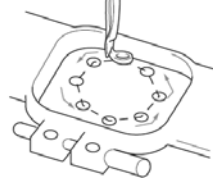





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6. Using the disk shaped screwdriver, firmly tighten the screw.

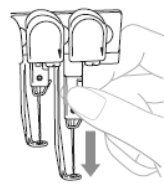



Check the embroidery area

1. Touch , a message appears warning that the embroidery frame is about to move, select .
2. Touch  again. The corners of the octagon showing the embroidery area for the pattern are indicated by needle punch points. 
3. Carefully watch the movement of the embroidery frame and check that the embroidery frame does not hit the presser foot.
4. When the embroidery frame moves to the desired position, touch  again.
5. To continue moving the embroidery frame, touch . To stop checking the embroidery area, touch .

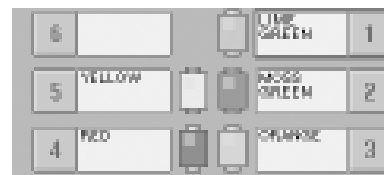
Finding the sewing position

TIP: By locking the needle bar and presser foot in the down position, the needle drop point can easily be easily seen.

1. Hold the needle clap that is at the sewing position, and then fully lower the needle. 
2. The needle and presser foot are locked into the down position.
3. Touch the arrow keys in the embroidery settings screen to move the embroidery frame so that the needle drop point is at the center of the area you wish to embroider. 

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4. Display the embroidery screen, and then touch the key for any needle bar other than the one that is locked and the needle bar will unlock.

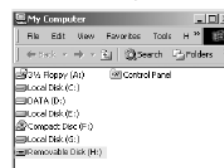


To transfer a design from the computer using the USB cable included with the machine

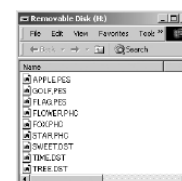
1. Plug the USB cable connector into the corresponding connectors on the computer and the USB port connector on the machine.




2. After the "Removable Disk" folder appears in the "My Computer" folder on the computer, the connection is complete.




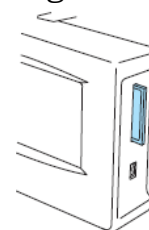
3. Move/copy the pattern data that you wish to recall into the "Removable Disk" folder.



4. On the machine, touch  and a list of patterns will be displayed.


To transfer a design from an Embroidery Card to the machine

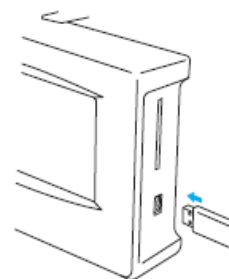
1. With the side of the embroidery card marked with an arrow facing towards you, fully insert the card into the embroidery card slot on the right side of the operation panel.
2. Touch  and a list of patterns on the embroidery card appears.
3. Select desired pattern.



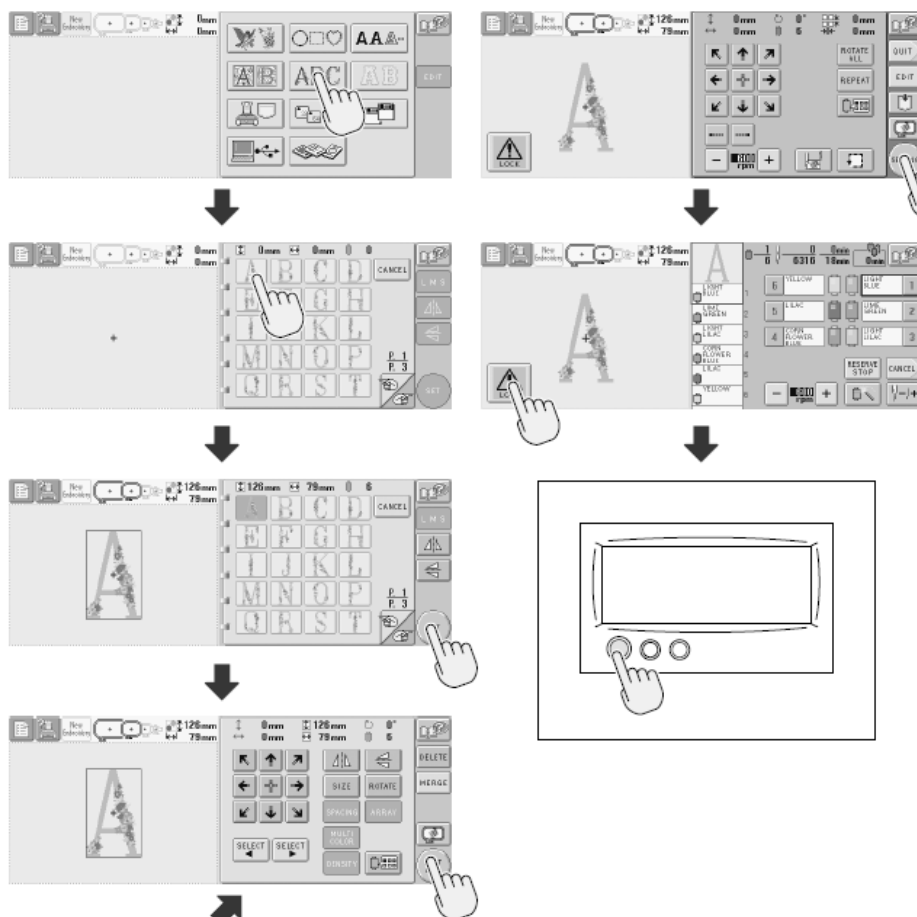
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To transfer a design from a USB device (*purchased separately*) to the machine

1. With the front of USB drive facing towards you, fully insert the stick into the right side of the operation panel. A list of approved USB devices can be found on the Brother web site under the updates.
2. Touch  and a list of patterns will appear.
3. Select desired pattern.







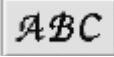











Basic Operation/Quick Start



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Selecting an Embroidery Pattern and merging letters

Various patterns, such as embroidery patterns, frame patterns, built in designs and patterns on embroidery cards, can be easily combined.

1. To merge designs, select  Built in designs on the operation panel.
2. Select the Birdhouse  and SET.
3. Select .
4. Select the Built in Alphabets  and touch .
5. Type in H, select size  (medium).
6. Continue typing in the letters in upper and lower case o m e_T w e e t_H o m e and select .
7. Select Array and .
8. Use  button to move lettering above bird house. Touch  and .
9. Touch centering button  to center design in hoop.
10. Check the design by selecting preview .
11. Select  and change threads as needed.
12. Load fabric in suggested hoop and place on machine.
13. Press  and start/stop button to start embroidery .


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Create a repeating pattern


The entire pattern can be copied and repeated the specified number of times. The pattern can be repeated a maximum of 30 times in both vertical and horizontal directions within the embroidery area.

1. Using the Brother 73 (Asian) card, insert card into the card slot.



2. Select  on the operation panel.


3. Select , touch ,  and .

4. Touch  four times. Each time you press this button, it will add another design.

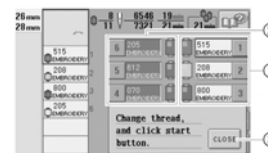
5. Select  and  to finish design.

6. Change threads accordingly and stitch out design.

Changing the Thread Spools with Designs of seven or More Colors

The spool change indicator  in the navigation screen indicates the number of times that the thread spools will need to be changed. When it is time for a thread change, the machine signals with *Change thread*



1. The needle bars where the thread spools must be changed appear in color.
2. The needle bars where it is not necessary to change colors appear in gray.




3. Touch the  key to store the current thread change.

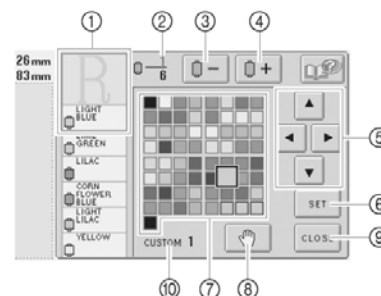
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Changing colors of a pattern

1. In the Operation panel, select , the letter R and .






2. Touch . The thread change color screen appears.

1. *The part of the pattern in the color at the top of the thread color sequence is displayed*
2. *Shows the number of thread changes*
3. *Selects the previous color in the thread color sequence display*
4. *Selects the next color in the thread color sequence display*
5. *Use these keys to select a color from the color chart*
6. *Applies the color change*
7. *Color thread chart*
8. *Specifies pause locations*
9. *Touch this key to close screen*
10. *Name of the thread chart in use*









3. Touch  and  until the color to be changed appears at the top of the thread color sequence display (the thread color for the part of the pattern displayed at the top will be changed). For this sample, change the letter R coloring.




4. Touch , ,  and  to select the new color from the color palette. Change color to 328.
5. When changes are complete, touch .


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Specify pause locations before embroidering


1. Pause locations can be specified in the thread color change screen.
2. Touch  in the pattern editing screen or the embroidery settings screen.
3. Touch  and  so that the color at the top of the thread color sequence display is the color where you wish to stop the machine before sewing it.
4. Touch  and the mark  will appear where you have designated a stop.
5. After specifying the desired stops, press .


Temporary Needle Bar Settings


1. After embroidery begins, the machine can be stopped at a color change and a different needle bar can be specified for the next color to be sewn
2. While sewing the color before the one that you wish to change, touch . After the color being sewn is finished, the threads are trimmed and the machine stops.

3. Touch .



4. Touch the key  for the needle bar threaded with the color that you wish to embroider with.

5. Touch  and the embroidery screen appears again.


6. Press  and the Start/Stop button and Embroidery will continue with the selected replacement color.





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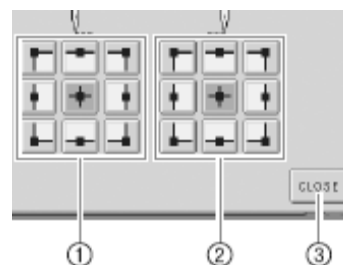
Setting a lock stitch between each color

Lock stitches can be sewn at the beginning of the pattern, the beginning of sewing each thread color change and at the beginning of sewing after the thread trim.

1. Touch  to set the lock stitch.
 - ❖ If the first stitch length is less than 0.8 mm, the lock stitch won't be inserted
 - ❖ The automatic lock stitch setting stays the same until the key is touched to turn it off.






Starting/Ending Position Settings

1. Touch  and the Start/Ending position screen appears. Select point for starting.
2. Select ending point.
3. Select 




Changing the size of a pattern

The size of a pattern can be increased or decreased to between 90% and 120% of its original size.

1. Touch . touch  to decrease size or  to increase the size.
2. Touching any one of these 4 symbols will adjust the size vertically or horizontally, larger or smaller. 
3. After making the desired changes, touch  and the editing screen appears again.

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Tips and hints for the PR620

1. You must place the hoop on the machine, turn on the machine and then select your design for proper centering within the desired hoop. If you choose to "resume" a design with a different size hoop, it will not be centered correctly.
2. You can also select . This will cancel all operations previously performed and returns to the initial pattern group selection screen.
3. Decrease the sewing speed when sewing on thick, thin or heavy fabrics.
4. The sewing speed can be changed while the machine is embroidering.
5. Decrease the sewing machine speed when using metallic threads.
6. Up to 100 patterns can be combined and saved to the machine as long as it doesn't exceed 500 colors.
7. Stabilizers are important. Be sure to use the right stabilizer or backing for the right job. In addition, some fabrics such as toweling or corduroy will require a topping. Take into consideration the fabric, thread and stitch count. Refer to pages 165 of the manual for a bit about stabilizers and page 167 to see the stabilizer/fabric compatibility chart.
8. Hooping techniques: Use the right tool for the right job. The wrong size of embroidery hoop may result in poor design alignment. Try to use the hoop suggested by the machine. Refer to page 166 of the manual.