

Checkout Notes For Brother Embroidery Machine Brother Model PE800

Notes on use - Aubrey Mueller December 2025

Materials Provided by the Makerspace

- Embroidery Hoops
- Prewound Bobbin Thread - Please donate a couple of dollars if using several.
- Spare needles, Embroidery type 75/11
- Dedicated thread snips and Fabric Scissors. FOR THREAD/FABRIC ONLY.

Materials Provided by the Maker

- Embroidery thread
- Fabric to be embroidered upon. Laundering items before embroidering is suggested.
- Non-Woven Stabilizer material - Manual page B-29
 - Cut away, Tear away, Melt away
- Optional - Hand needle for finishing work

Checkout Demonstrations

- Machine Anatomy - See [Manual](#)
- Threading the Machine - Raise that foot!
 - Needle Threader Mechanism - Raise that needle!
 - Needle Changing
- Inserting a Bobbin (bobbin or bottom thread)
- Creating and scaling a Design
 - Saving a design
- Measuring the Embroidery Hoop for clearance
- Embroidering

Items that should not be embroidered

- Heavy-duty fabrics like leather, vinyl or heavy denims.
- Very Delicate or super lightweight fabrics will likely not work well.
- Most knitted items like beanies or sweaters will not have enough structure.
- Items that cannot be securely held in the hoop, like baseball hats or small goods.
- Non-Fabric Items or items that are dirty.

Loading Fabric into the Embroidery Hoop

*Fabric and Stabilizer should be cut large enough to meet the hoop on all sides.

Place the larger hoop on the table, and loosen it just enough to accommodate the removal of the inner hoop. This step is very important for the correct tension of your fabric in the hoop. If used, place stabilizer fabric in the hoop first, then design fabric. Correct or "right" sides of fabric should be facing up. Place the smaller embroidery hoop in snugly, then tighten the exterior hoop. Fabrics/Stabilizers should make direct contact with the deck of the machine. The correct setup is NOT like a traditional hand embroidery hoop. Before inserting the hoop into the machine, check to see if your bobbin thread is low.

Fabric and Thread Tension

Fabric and stabilizer should have tension and should not have wrinkles or pulling. Fabric should not be adjusted from the exterior of the closed hoops, as this may cause unsightly pulls or wrinkles. Always be mindful of fabric grain/stretch when dealing with tension. Laundering beforehand is suggested to avoid shrinkage issues.

Please try not to adjust the machine's topthread tension. If you must, please put it back when you are finished. Do not adjust the bobbin tension. The machine's tension is set to these bobbins. Please do not use any other bobbins other than the ones provided by the Makerspace, or the machine can be damaged.

Before Embroidering!

ALWAYS compare the maximum drafted design measurements, PLUS an added buffer for the presser foot clearance, to the embroidery hoop's actual interior dimension. The hoops we use are NOT a perfect match to the machine software. Be mindful when selecting the hoop size setting on the lcd screen. Selecting a larger hoop or scaling down your design will allow the machine to embroider, but **a manual measurement is still needed to avoid hitting the embroidery hoop. Hitting the hoop is a safety hazard, and can potentially cause damage to the machine, needle and your project.** Before moving the carriage, make sure the needle and presser foot are elevated. It is recommended to keep a longer top thread tail, and to move it towards the rear, away from the design to be stitched. Raise the foot to gently pull out more top thread.

During Embroidery

During pauses in the design of the same color (like different words in a sentence) do not bother to clip the unsecured threads on the design between stitching sessions, unless you would like extra length to secure the thread by sewing it in by hand.

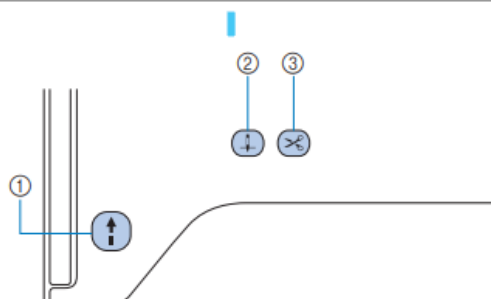
Finishing

- Aubrey has found that the final stitches are not well locked in and the design can become unpicked. She recommends securing the ends of the thread on the back side of the design, either by sewing in and knotting, or using a launderable adhesive.
- A microfiber cloth is excellent at catching tiny thread pieces.

Troubleshooting - Manual page A-6

- If something is very wrong, you may turn the machine off by hitting the on-off switch.
- When in doubt, rethread the machine
- Always double-check the hoop and measure for size/clearance
- Getting pulls? Check to see if the needle is blunt, or if the thread is tearing.
- Make sure the bobbin thread tail is not so long that it catches underneath the machine and causes a nest.
- This machine does not need maintenance oil, please do not oil the machine.

Operation buttons



① “Start/Stop” button (↑)

Press the “Start/Stop” button to start or stop embroidering. The button changes color according to the machine’s operation mode.

- Green: The machine is ready to embroider or is embroidering.
- Red: The machine can not embroider.
- Orange: The machine is winding the bobbin thread, or the bobbin winder shaft is moved to the right side.

② Needle position button (↑/↓)

Press the needle position button to raise or lower the needle.

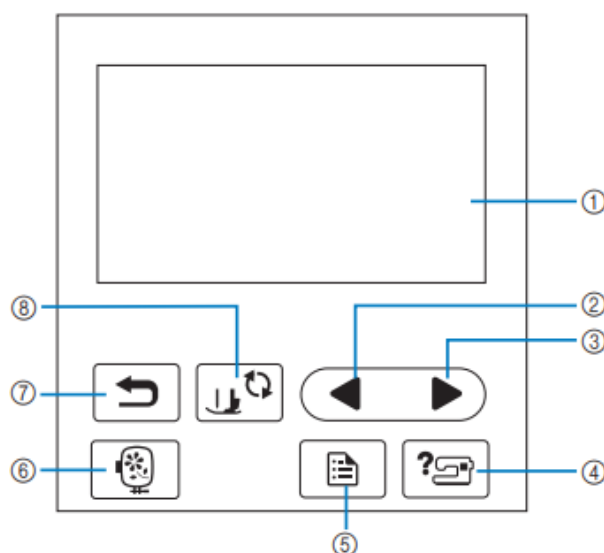
③ Thread cutter button (✂)

Press the thread cutter button after embroidering is stopped to cut both the upper and the bobbin threads.

⚠ CAUTION

- Do not press (✂) (Thread cutter button) after the threads have already been cut, otherwise the needle may break, the threads may become tangled or damage to the machine may occur.

Operation panel and operation keys



① LCD (liquid crystal display) (touch panel)

Selected pattern settings and messages are displayed. Touch the keys displayed on the LCD to perform operations. For details, refer to “LCD Operation” on page B-9.

② Previous page key ◀

Displays the previous screen when there are items that are not displayed on the LCD.

③ Next page key ▶

Displays the next screen when there are items that are not displayed on the LCD.

④ Help key ?

Press to get help on using the machine.

⑤ Settings key ⚙

Press to set the needle stop position, the buzzer sound, and more.

⑥ Embroidery key 🪡

Press this key to sew embroidery.

⑦ Back key ↶

Press to return to the previous screen.

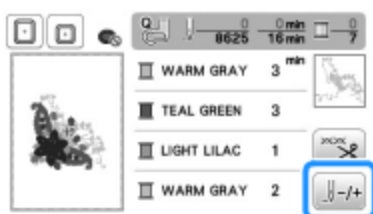
⑧ Presser foot/Needle exchange key ⬇️

Press this key before changing the needle, the presser foot, etc. This key locks all key and button functions to prevent operation of the machine.

If the thread breaks during sewing

- 1 Press the "Start/Stop" button to **stop** the machine.
- 2 If the upper thread is broken, redo the upper threading. If the bobbin thread is broken, press **OK** and follow the directions in steps 1 through 6 from the previous section to reset the bobbin.

- 3 Press **U-/+**.



- 4 Press **U-1**, **U-10**, or **U-100** to move the needle back the correct number of stitches before the area where the thread broke.



Memo

- If you cannot move back to the area where the thread broke, press **U+** to select the color and move to the beginning position of that color, then use **U+1**, **U+10** or **U+100** to move ahead to slightly before where the thread broke.

- 5 Press **OK** to return to the original screen.

- 6 Lower the presser foot lever to lower the presser foot, and press the "Start/Stop" button to continue sewing.

