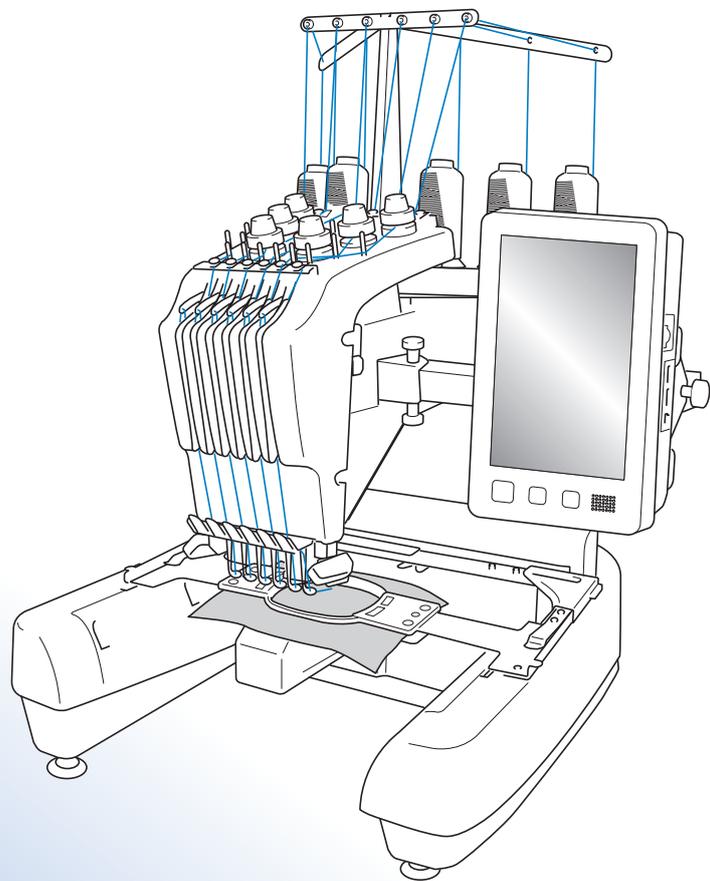


brother

Embroidery Machine

Operation Manual

Product Code: 884-T20



Be sure to read this document before using the machine.
We recommend that you keep this document nearby for future reference.

Trademarks

IBM is a registered trademark or a trademark of International Business Machines Corporation. Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation.

Each company whose software title is mentioned in this manual has a Software License Agreement specific to its proprietary programs.

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Open Source Licensing Remarks

This product includes open-source software.

To see the open source licensing remarks, please go to the manual download section on your model's home page of Brother Solutions Center at “ <http://s.brother/cpbac> ”.

Introduction

Thank you for purchasing this embroidery machine. Before using this machine, carefully read the "IMPORTANT SAFETY INSTRUCTIONS", and then study this manual for the correct operation of the various functions.

In addition, after you have finished reading this manual, store it where it can quickly be accessed for future reference.

IMPORTANT SAFETY INSTRUCTIONS

Please read these safety instructions before attempting to use the machine.

DANGER - To reduce the risk of electric shock:

- 1** Always unplug the machine from the electrical outlet immediately after using, when cleaning, when making any user servicing adjustments mentioned in this manual, or if you are leaving the machine unattended.

WARNING - To reduce the risk of burns, fire, electric shock, or injury to persons:

- 2** Always unplug the machine from the electrical outlet when lubricating it or when making any other user servicing adjustments mentioned in the operation manual
 - To unplug the machine, switch the machine to the symbol "O" position to turn it off, then grasp the plug and pull it out of the electrical outlet. Do not pull on the cord.
 - Plug the machine directly into the electrical outlet. Do not use an extension cord.
 - Always unplug your machine if the power is cut.
- 3** Electrical Hazards:
 - This machine should be connected to an AC power source within the range indicated on the rating label. Do not connect it to a DC power source or inverter. If you are not sure what kind of power source you have, contact a qualified electrician.
 - This machine is approved for use in the country of purchase only.
- 4** Never operate this machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or water is spilled on the unit. Return the machine to the nearest authorized Brother dealer or service center for examination, repair, electrical or mechanical adjustment.
 - To avoid electric shock or fire; do not use a damaged power supply plug or loose electrical outlet, and ensure that the power supply plug is fully inserted and secure.
 - While the machine is stored or in use if you notice anything unusual, such as an odor, heat, discoloration or deformation, stop using the machine immediately and unplug the power cord.
 - When transporting the machine, be sure to lift it from the bottom positions. Lifting the machine by any other part may damage the machine or result in the machine falling, which could cause injuries.
 - When lifting the machine, be careful not to make any sudden or careless movements, otherwise you may injure your back or knees.
 - While the machine is being transported, be careful not to touch the operation panel, thread guides or any other part, otherwise injuries may result.

5 Always keep your work area clear:

- Never operate the machine with any air openings blocked. Keep ventilation openings of the machine free from the build up of lint, dust, and loose cloth.
- Do not use extension cords. Plug the machine directly into the electrical outlet.
- Never drop or insert any object into any opening.
- Keep fingers out of all machine openings, such as near the carriage, otherwise injuries may result.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- Do not use the machine near a heat source, such as a stove or iron; otherwise, the machine, power cord or garment being sewn may ignite, resulting in fire or an electric shock.
- Do not use this machine near an open flame; the movement of the embroidery frame could cause the garment being sewn to catch fire.
- Do not place this machine on an unstable surface, such as an unsteady or slanted table, otherwise the machine may fall, resulting in injuries.
- While attaching or detaching an embroidery frame or other included accessory or while maintaining the machine, be careful not to hit the machine with your body or any other part of it.

6 Special care is required when sewing:

- Always pay close attention to the needle. Do not use bent or damaged needles.
- Keep fingers away from all moving parts. Special care is required around the machine needle.
- While the machine is in operation, keep your hands away from the needle bar case and all moving parts near the needle bar case, otherwise injuries may result.
- Switch the machine to the symbol "O" position to turn it off when making any adjustments in the needle area, such as changing the needle.
- Do not use a damaged or incorrect needle plate, as it could cause the needle to break.

7 This machine is not a toy:

- Your close attention is necessary when the machine is used by or near children.
- This machine is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with this machine.
- Do not use the included scissors or seam ripper in any other way than how they are intended. In addition, when opening a hole with the seam ripper, do not place your hands or fingers in the cutting path, otherwise injuries may result if the seam ripper slips.
- The plastic bag that this machine was supplied in should be kept out of the reach of children or disposed of. Never allow children to play with the bag due to the danger of suffocation.
- Do not use outdoors.

8 For a longer service life:

- When storing this machine, avoid direct sunlight and high humidity locations. Do not use or store the machine near a space heater, iron, halogen lamp, or other hot objects.
- Use only neutral soaps or detergents to clean the case. Benzene, thinner, and scouring powders can damage the case and machine, and should never be used.
- Always consult the operation manual when replacing or installing any assemblies, needle, or other parts to assure correct installation.

9 For repair or adjustment:

- Do not try to disassemble, repair or alter this machine in any way, otherwise a fire, electric shock or injuries may result.
- If the light unit is damaged, it must be replaced by an authorized Brother dealer.
- In the event a malfunction occurs or adjustment is required, first follow the troubleshooting table in the back of the operation manual to inspect and adjust the machine yourself. If the problem persists, please consult your local authorized Brother dealer.

Use this machine only for its intended use as described in the manual.

Use accessories recommended by the manufacturer as contained in this manual.

Use only the interface cable (USB cable) included with this machine.

Use only a mouse designed specifically for this machine.

The contents of this manual and specifications of this product are subject to change without notice.

For additional product information and updates, visit our website at www.brother.com

SAVE THESE INSTRUCTIONS

This machine is intended for household use.

FOR USERS IN COUNTRIES EXCEPT CENELEC COUNTRIES

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

FOR USERS IN CENELEC COUNTRIES

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

FOR USERS IN THE UK, EIRE, MALTA AND CYPRUS ONLY

IMPORTANT

- In the event of replacing the plug fuse, use a fuse approved by ASTA to BS 1362, i.e. carrying the  mark, rating as marked on plug.
- Always replace the fuse cover. Never use plugs with the fuse cover omitted.
- If the available electrical outlet is not suitable for the plug supplied with this equipment, you should contact your authorized Brother dealer to obtain the correct lead.

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- Use the CONTENT in combination with an embroidery machine that CUSTOMER owns or uses, provided that the CONTENT is not used on more than one embroidery machine at a time.

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Warning Labels

The following warning labels are on the machine.
Be sure to observe the precautions described in the labels.

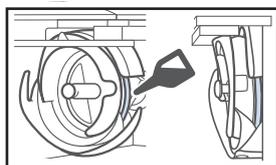
1

	⚠ CAUTION	⚠ VORSICHT	⚠ ATTENTION	⚠ PRECAUCIÓN	⚠ CUIDADO
	Carriage may cause injury. Do not put hands in carriage traveling path.	Um Verletzungen mit dem Stickarm zu vermeiden, nicht die Hände in die Nähe des Stickarms halten.	Le chariot peut provoquer des blessures. Ne pas mettre les mains dans le chemin du chariot.	El carro puede provocar lesiones. No poner las manos por donde pasa el carro.	O carro de transporte pode causar ferimentos. Não coloque as mãos sobre o trilho do carro de transporte.

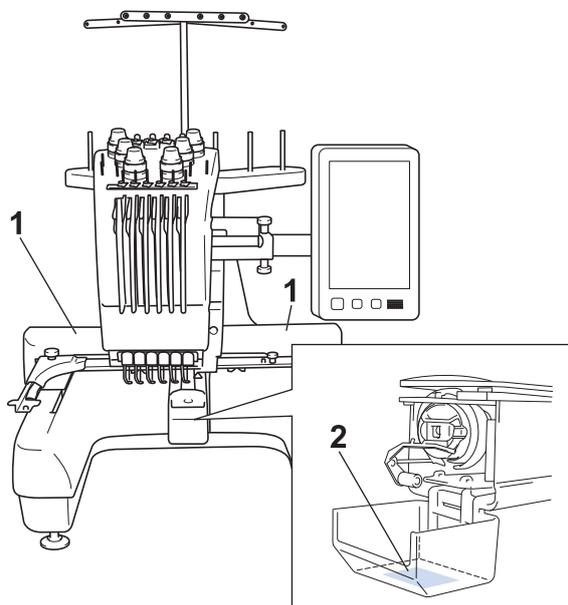
	⚠ VOORZICHTIG	⚠ ATTENZIONE	⚠ ОСТОРОЖНО!	⚠ 注意	⚠ 注意
	De borduurarm kan verwondingen veroorzaken. Houdt uw handen buiten bereik van de borduurarm.	Il carrello potrebbe ferirvi. Non appoggiate la mano nel percorso del carrello.	Движущаяся каретка может быть причиной травмы. Не кладите руки на пути движения каретки.	刺しゅう機のキャリッジや刺しゅう枠が動いているときに、手や物を近づけないでください。 ケガの原因になります。	在绣花机的导轨或绣花框移动时，为避免造成伤害，请不要将手或物品靠近。

2

Label locations



Please put a drop of oil onto the hook once a day before use.



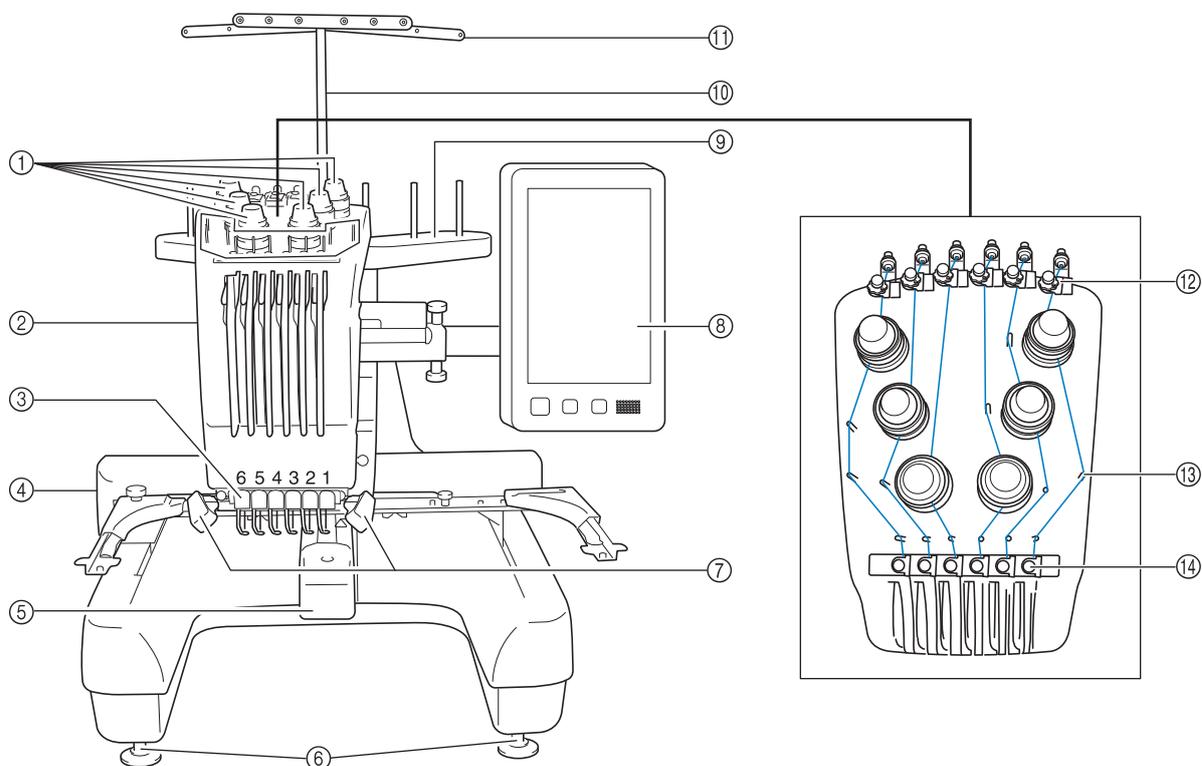
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Names of Machine Parts and Their Functions

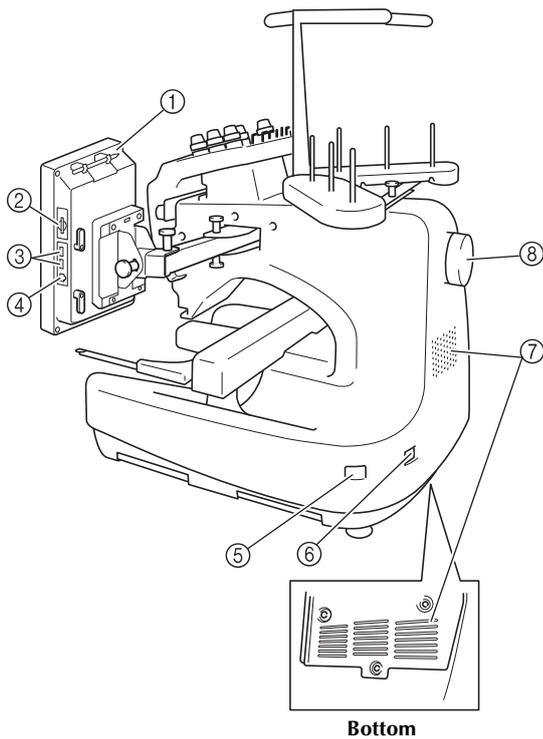
The names of the various parts of the sewing machine and their functions are described below. Before using the sewing machine, carefully read these descriptions to learn the names of the machine parts.

Front view



- ① **Thread tension knobs**
Adjust the tension of the thread.
- ② **Needle bar case**
Moves to the left and right to move the needle to the embroidering position.
- ③ **Lower thread guide**
- ④ **Carriage**
Attach the embroidery frame to the carriage. When the machine is turned on or when the machine is embroidering, the carriage moves forward, backward, left and right.
- ⑤ **Hook cover/Hook**
Open the hook cover, and then insert the bobbin case into the hook.
- ⑥ **Feet**
Use the feet to adjust the height of the legs.
- ⑦ **Sewing light**
The brightness of the sewing light can be adjusted in the settings screen.
- ⑧ **Operation panel**
- ⑨ **Spool stand**
Put 6 thread spools to embroider.
- ⑩ **Thread guide assembly support**
- ⑪ **Thread guide**
- ⑫ **Upper thread guide pretension knob**
- ⑬ **Thread guide pins**
- ⑭ **Middle thread guide**

Right-side/rear view



① Touch pen holder

Use the touch pen holder to hold the touch pen when not in use.

② SD card slot

Insert an SD card into the SD card slot in order to import/export embroidery pattern data.

③ USB port for media

In order to send patterns from/to USB media, plug the USB media directly into the USB port.

④ USB port for computer

In order to import/export patterns between a computer and the machine, plug the USB cable into the USB port.

⑤ Main power switch

Use the main power switch to turn the machine ON (I) and OFF (O).

Do not turn the power on soon after turning the power off. It is recommended that you wait 5 seconds before turning the power back on.

⑥ Power supply plug

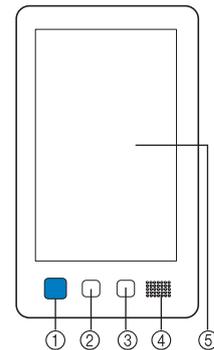
Insert the plug on the power supply cord into the power supply plug.

⑦ Ventilation slots

⑧ Handwheel

Rotate the handwheel to move the needle up and down. Be sure to rotate the handwheel toward the LCD panel (counterclockwise).

Operation panel



① Start/Stop button

Press the start/stop button to start or stop the machine. The lighting status and color of the button changes depending on the operation condition of the machine.

Lit in red : When the machine cannot start sewing

Flashing in green : When the machine can start sewing

Lit in green : While the machine is sewing

Flashing in orange : When the machine can cut the thread

Off : When the machine is turned off

② Thread trimming button

Press the thread trimming button to trim both the upper and the bobbin threads.

③ Automatic needle-threading button

Press the automatic needle threading button to thread the needle.

④ Speaker

⑤ LCD (touch panel)

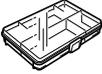
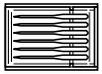
Touch the keys that appear on the touch panel to select and edit patterns and confirm various information.

Accessories

The accessories listed below are included with this machine. Make sure to use the accessories designed for this machine.

Included accessories

After opening the box, check that the following accessories are included. If any item is missing or damaged, contact your authorized Brother dealer.

	Part Name	Part Code
1. 	Accessory case	XC6482-051
2. 	Needle set × 2	XC6469-001
3. 	Prewound bobbin × 6	XC6368-051
4. 	Spool net × 6	S34455-000
5. 	Seam ripper	XF4967-001
6. 	Scissors	XF2052-001
7. 	Tweezers	XC6542-051
8. 	Touch pen	XA9940-051
9. 	Needle changing tool (Threader)	XF2212-001
10. 	Needle plate spacer	XC6499-151
11. 	Spacer (on machine)	XF1978-001
12. 	Phillips screwdriver	XC6543-051

	Part Name	Part Code
13. 	Standard screwdriver	X55468-051
14. 	Allen screwdriver	XC5159-051
15. 	Offset screwdriver	XC6545-051
16. 	Disc-shaped screwdriver	XC1074-051
17. 	Wrench 13 mm × 10 mm	XC6159-051
18. 	Oiler	XZ0206-051 XG3677-001 (for Europe and Turkey)
19. 	Cleaning brush	X59476-051
20. 	Weight (L)	XC5974-151
21. 	Spool mat × 6	XC7134-051
22. 	Spool cap × 6	130012-054
23. 	USB cable	XD1851-051
24. 	Embroidery frame (extra-large) 200 mm (H) × 300 mm (W) (7-7/8 inches (H) × 11-3/4 inches (W))	PRH300 (Americas) PRH300: XC6284-052 (Other area)

	Part Name
	Part Code
25.	Embroidery frame (large) 130 mm (H) × 180 mm (W) (5-1/8 inches (H) × 7-1/8 inches (W))  PRH180 (Americas) PRH180: XC6285-052 (Other area)
26.	Embroidery frame (medium) 100 mm (H) × 100 mm (W) (4 inches (H) × 4 inches (W))  PRH100 (Americas) PRH100: XC6286-052 (Other area)
27.	Embroidery frame (small) 40 mm (H) × 60 mm (W) (1-1/2 inches (H) × 2-3/8 inches (W))  PRH60 (Americas) PRH60: XC6287-052 (Other area)
28.	Embroidery sheet (extra-large) 200 mm (H) × 300 mm (W) (7-7/8 inches (H) × 11-3/4 inches (W))  XC5704-051
29.	Embroidery sheet (large) 130 mm (H) × 180 mm (W) (5-1/8 inches (H) × 7-1/8 inches (W))  XC5721-051
30.	Embroidery sheet (medium) 100 mm (H) × 100 mm (W) (4 inches (H) × 4 inches (W))  XC5759-051
31.	Embroidery sheet (small) 40 mm (H) × 60 mm (W) (1-1/2 inches (H) × 2-3/8 inches (W))  XC5761-051
32.	Embroidery frame holder A (with white corner cover)  XF2222-001
33.	Embroidery frame holder B (with light gray corner cover)  XF2223-001
34.	Operation Manual  This manual
35.	Embroidery Design Guide  XG8276-001
36.	Power cord  Visit your authorized Brother dealer.
37.	Bobbin case (on machine)  XC7206-001

⚠ CAUTION

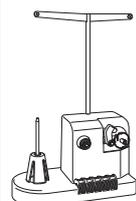
- Be sure to use the included power cord for this machine. Using any other power cord may result in damage.



Memo

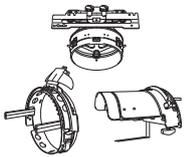
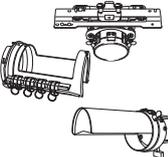
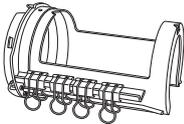
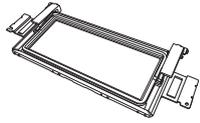
- The included touch pen can be stored in the touch pen holder on the back of the operation panel. Refer to page 8.

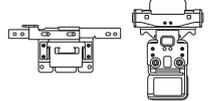
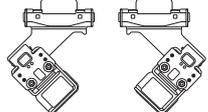
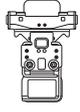
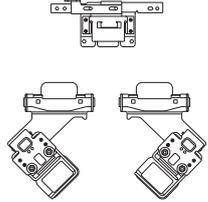
Accessories that are included in some countries or regions

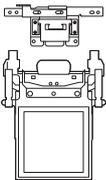
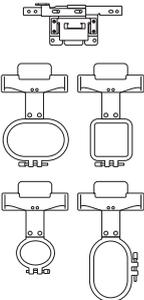
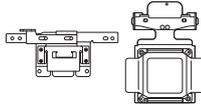
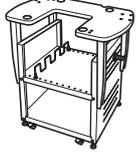
	Part Name
	Part Code
1.	Embroidery Design Guide  XG8278-001
2.	Bobbin winder set  PRBW1

Optional Accessories

The following are available as optional accessories to be purchased separately.

	Part Name
	Part Code
1.	 <p>Advanced cap frame 2 set</p> <p>PRCF3 (Americas) PRCF3: XE2158-201 (Other area)</p>
2.	 <p>Advanced cap frame 2 60 mm (H) × 130 mm (W) (2-3/8 inches (H) × 5-1/8 inches (W))</p> <p>PRCFH3 (Americas) PRCFH3: XE2162-001 (Other area)</p>
3.	 <p>Advanced cap frame 50 mm (H) × 130 mm (W) (2 inches (H) × 5-1/8 inches (W))</p> <p>PRCFH2 (Americas) PRCFH2: XC7610-052 (Other area)</p>
4.	 <p>Mounting jig</p> <p>PRCFJ2 (Americas) PRCFJ2: XC7611-052 (Other area)</p>
5.	 <p>Cylinder frame set</p> <p>PRCL1 (Americas) PRCL1: XE2166-001 (Other area)</p>
6.	 <p>Cylinder frame 80 mm (H) × 90 mm (W) (3 inches (H) × 3-1/2 inches (W))</p> <p>PRCLH1 (Americas) PRCLH1: XE2170-001 (Other area)</p>
7.	 <p>Quilt frame 200 mm × 200 mm (7-7/8 inches × 7-7/8 inches)</p> <p>PRPQF200 (Americas) PRPQF200: XE8411-001 (Other area)</p>
8.	 <p>Border frame 100 mm (H) × 300 mm (W) (4 inches (H) × 11-3/4 inches (W))</p> <p>PRPBF1 (Americas) PRPBF1: XE8414-001 (Other area)</p>
9.	 <p>Round frame set</p> <p>PRPRFK1 (Americas) PRPRFK1: XE8402-001 (Other area)</p>

	Part Name
	Part Code
10.	 <p>Round frame (Ø100 mm (4 inches))</p> <p>PRPRF100 (Americas) PRPRF100: XE8427-001 (Other area)</p>
11.	 <p>Round frame (Ø130 mm (5 inches))</p> <p>PRPRF130 (Americas) PRPRF130: XE8430-001 (Other area)</p>
12.	 <p>Round frame (Ø160 mm (6 inches))</p> <p>PRPRF160 (Americas) PRPRF160: XE8433-001 (Other area)</p>
13.	 <p>Embroidery frame holder C (with dark gray corner covers)</p> <p>PRPARMC (Americas) PRPARMC: XE8436-001 (Other area)</p>
14.	 <p>Flat frame 200 mm (H) × 300 mm (W) (7-7/8 inches (H) × 11-3/4 inches (W))</p> <p>PRF300 (Americas) PRF300: XE2086-001 (Other area)</p>
15.	 <p>Clamp frame S straight set 24 mm (H) × 45 mm (W) (7/8 inch (H) × 1-3/4 inches (W))</p> <p>PRCLP45B (Americas) PRCLP45B: XF2251-001 (Europe) PRCLP45B: XF2252-001 (Other area)</p>
16.	 <p>Clamp frames S L & R 24 mm (H) × 45 mm (W) (7/8 inch (H) × 1-3/4 inches (W))</p> <p>PRCLP45LR (Americas) PRCLP45LR: XF2255-001 (Europe) PRCLP45LR: XF2256-001 (Other area)</p>
17.	 <p>Clamp frame S straight 24 mm (H) × 45 mm (W) (7/8 inch (H) × 1-3/4 inches (W))</p> <p>PRCLP45S (Americas) PRCLP45S: XF2269-001 (Europe) PRCLP45S: XF2268-001 (Other area)</p>
18.	 <p>Clamp frames S L & R set 24 mm (H) × 45 mm (W) (7/8 inch (H) × 1-3/4 inches (W))</p> <p>PRCLP45LRD (Americas) PRCLP45LRD: XF2270-001 (Europe) PRCLP45LRD: XF2272-001 (Other area)</p>

	Part Name
	Part Code
19.	 <p>Clamp frame M set 100mm (H) × 100 mm (W) (4 inches (H) × 4 inches (W))</p> <p>PRCLPM1 (Americas) PRCLP100B: 115D02E000B (Europe) PRCLPM1AP: 115D02E700B (Other area)</p>
20.	 <p>Compact frame set 70: 41 mm (H) × 70 mm (W) (1-5/8 inches (H) × 2-3/4 inches (W)) 50: 50 mm (H) × 50 mm (W) (2 inches (H) × 2 inches (W)) 44: 38 mm (H) × 44 mm (W) (1-1/2 inches (H) × 1-3/4 inches (W)) Portrait orientation: 33 mm (H) × 75 mm (W) (1-5/16 inches (H) × 2-15/16 inches (W))</p> <p>PRHCK1 (Americas) PRSFK1: 115D02E000A (Europe) PRHCK1AP: 115D02E700A (Other area)</p>
21.	 <p>Sleeve frame 200 mm (H) × 70 mm (W) (7-7/8 inches (H) × 2-3/4 inches (W))</p> <p>PRHSL200 (Americas) PRHSL200: 115D02E000C (Europe) PRHSL200AP: 115D02E700C (Other area)</p>
22.	 <p>Magnetic frame set 50 mm (H) x 50 mm (W) (2 inches (H) x 2 inches (W))</p> <p>PRMHA50 (Americas) PRMFA50: 115D02E000E (Europe) PRMFA50AP: 115D02E700E (Other area)</p>
23.	 <p>Magnetic frame 50 mm (H) x 50 mm (W) (2 inches (H) x 2 inches (W))</p> <p>PRMH50 (Americas) PRMF50: 115D02E000F (Europe) PRMF50AP: 115D02E700F (Other area)</p>
24.	 <p>Embroidery Table</p> <p>PRWT1 (Americas) PRWT1: XE8417-001 (Other area)</p>
25.	 <p>Embroidery Stand</p> <p>PRNSTD2 (Americas) VRPRNSTD: 115Z05E0005 (Europe) VRPRNSTD: 115Z05E7005 (Other area)</p>
26.	 <p>Metal bobbin</p> <p>100376-051</p>
27.	 <p>Weight (S)</p> <p>XC6631-051</p>
28.	 <p>USB mouse</p> <p>XE5334-101</p>



Note

- Visit your nearest authorized Brother dealer for a complete listing of optional accessories for your machine.



Memo

- Always use accessories recommended for this machine.
- All specifications are correct at the time of printing. Please be aware that some specifications may change without notice.

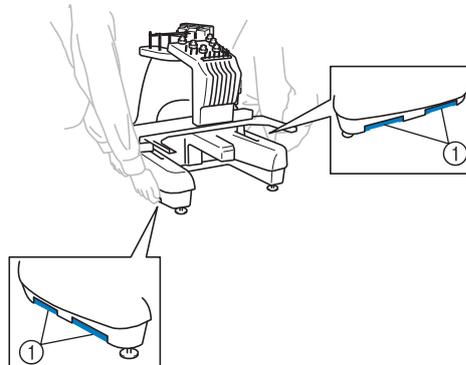
Setting Up the Machine

The procedures for setting up the machine are described below. If the machine is not set up correctly, it may shake or produce loud noises and the embroidery will not be sewn correctly. An optional embroidery stand is also available.

Setup and transporting precautions

⚠ CAUTION

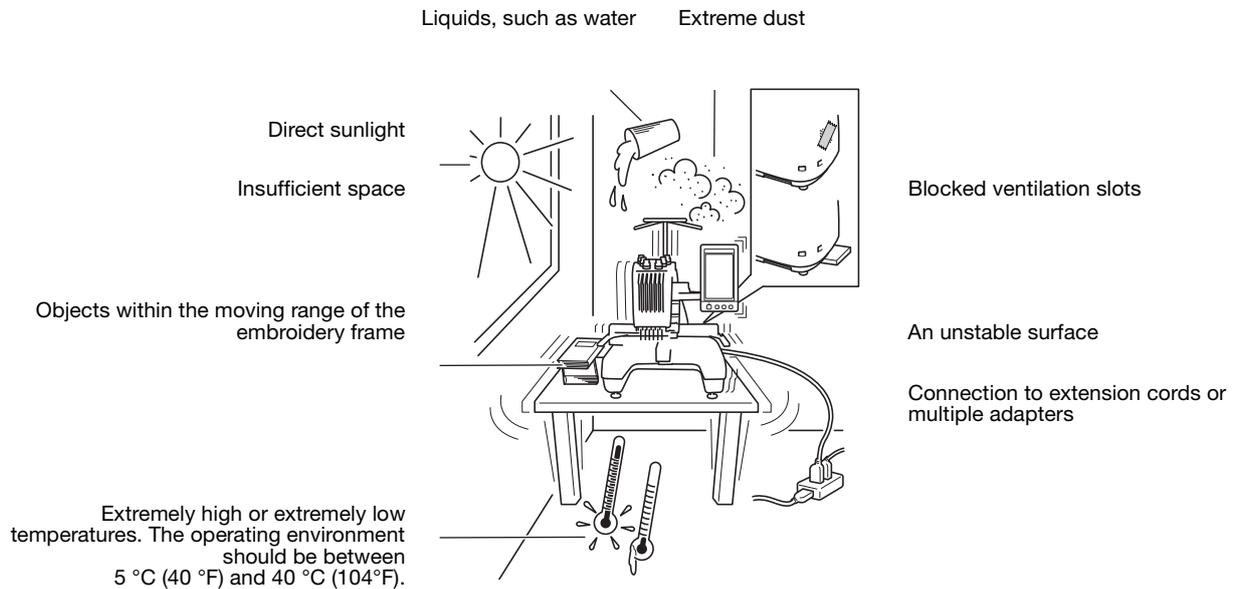
- The temperature of the operating environment should be between 5 °C (40 °F) and 40 °C (104 °F). If the machine is operated in an environment that is either too cold or too hot, the machine may malfunction.
- Do not use the machine in a location where it will be exposed to direct sunlight, otherwise the machine may malfunction.
- Set up the machine with its four adjustable feet completely in contact with the desk or table, so that the machine is level.
- Do not block the ventilation slots at the back and on the rear underside of the machine by such as putting anything under the embroidery machine, and do not allow lint or dust to accumulate in the ventilation slots, otherwise the machine's motor may overheat, resulting in a fire or in damage to the machine.
- The machine weight is approximately 38 kg (84 lb). The transporting or setting up of the embroidery machine should be performed by two people.
- When transporting the machine, be sure to have two people lift the machine from the bottom at the indicated slots (①). Lifting the machine from any other area may damage the machine or result in the machine falling, which could cause injuries.



- When lightning occurs, turn off the machine and unplug the power supply cord. Lightning may cause the machine to malfunction.
- Do not plug in the power supply cord until setup of the machine is completed, otherwise injuries may result if the start/stop button is accidentally pressed and the machine starts sewing.
- When lubricating the machine, wear protective eyeglasses and gloves to prevent the oil or grease from getting into your eyes or on your skin. Do not put the oil or grease into your mouth. Keep the oil and grease out of the reach of children.
- While attaching or detaching an embroidery frame or other included accessory or while maintaining the machine, be careful not to hit the machine with your body or any other part of it.

⚠ CAUTION

- In order to prevent malfunctions or damage, do not set up the machine in a location exposed to the following conditions.



Setting up the machine

762 mm (30 inches)

587 mm (23 inches)

Minimum of 50 mm (2 inches)

More than 250 mm (9-1/32 inches)

512 mm (20-5/32 inches)

More than 250 mm (9-1/32 inches)

More than 350 mm (13-3/4 inches)

1

① Loosen the lock nut using the included wrench.

2

② Turn the adjustable foot nut with the included wrench.

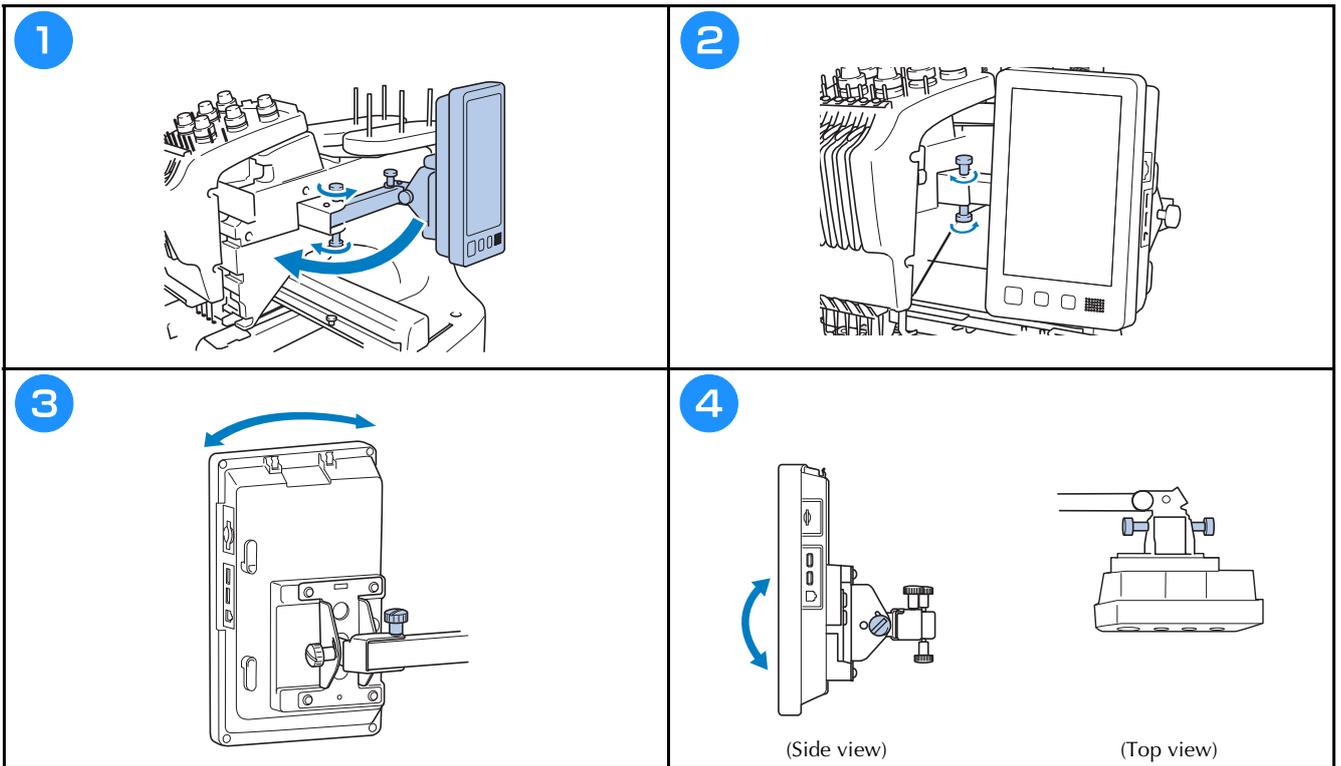
① Lengthens the leg.

② Shortens the leg.

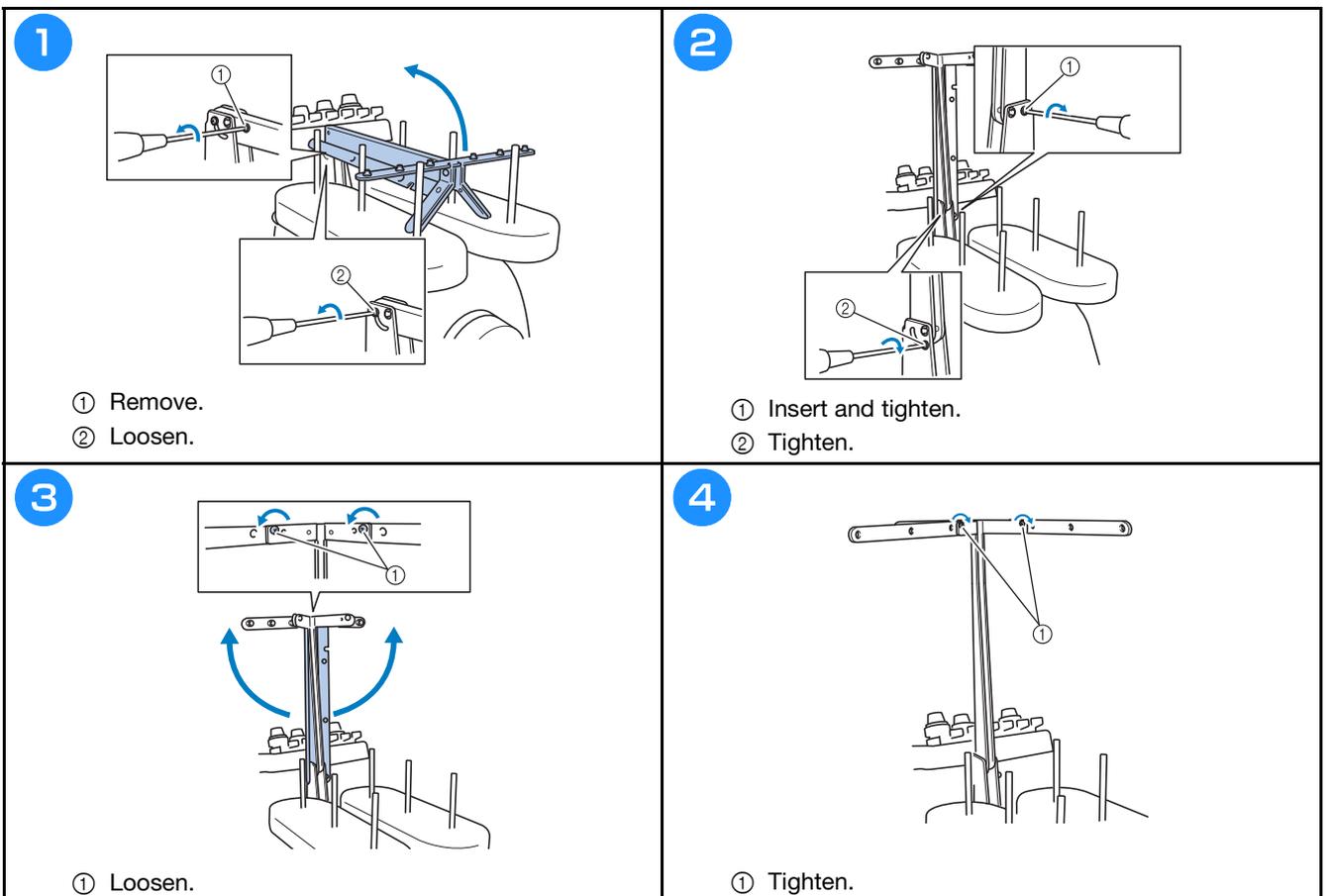
3

③ Tighten the lock nut after adjusting the legs.

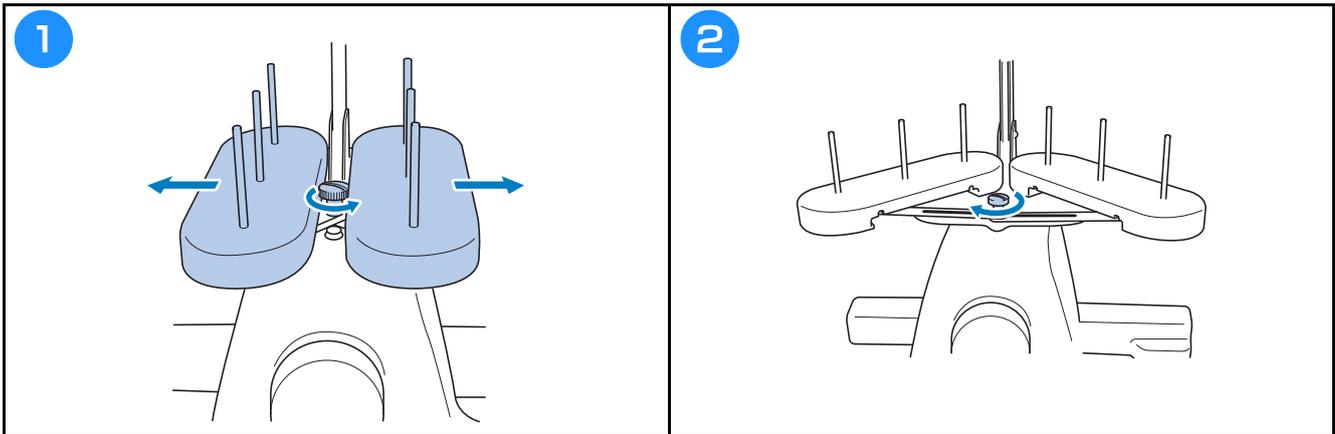
Adjusting the operation panel position



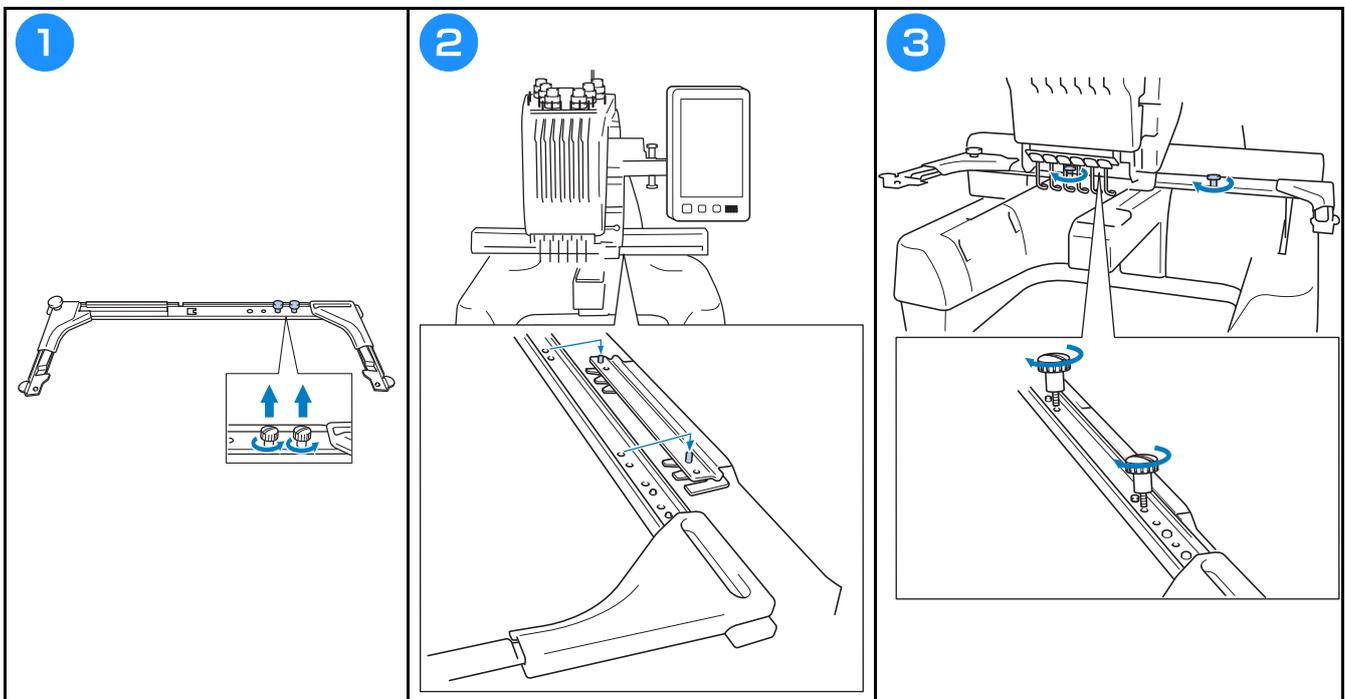
Preparing the thread guide assembly



Preparing the spool stand



Attaching the embroidery frame holder



Operating Precautions

The necessary points to ensure the correct operation of this machine are described below.

Power supply precautions

Be sure to observe the following precautions concerning the power supply.

WARNING

- Use only regular household electricity for the power source. Using other power sources may result in fire, electric shock, or damage to the machine.
- Make sure that the plugs on the power supply cord are firmly inserted into the electrical outlet and the power supply cord receptacle on the machine. Otherwise, a fire or electrical shock may result.
- Do not insert the plug on the power supply cord into an electrical outlet that is in poor condition.
- If any of the following occur, turn off the embroidery machine and unplug the power supply cord, otherwise a fire, an electric shock or damage to the machine may result.
 - When you are away from the machine.
 - After using the machine.
 - If a power outage occurs while the machine is being operated.
 - If the machine is not operating properly, for example, when there is a loose or cut connection.
 - During electrical storms.

CAUTION

- Use only the power supply cord included with this machine.
- Do not plug this machine in with extension cords or multi-plug adapters with any other appliances plugged into them, otherwise a fire or an electric shock may result.
- Do not plug in or unplug the power supply cord with wet hands, otherwise an electric shock may result.
- When unplugging the power supply cord, be sure to first turn off the machine, and then grasp the plug when unplugging the cord. Pulling on the cord may damage it or result in a fire or an electric shock.
- Do not allow the power supply cord to be cut, damaged, modified, forcefully bent, pulled, twisted, or bundled. In addition, do not place heavy objects on the cord or expose it to heat, otherwise damage to the cord, fire or an electric shock may result. If the power supply cord or its plug is damaged, stop using the machine, and then take the machine to your authorized Brother dealer for repairs before continuing use.
- If the machine is not to be used for a long period of time, unplug the power supply cord, otherwise a fire may result.
- When leaving the machine unattended, either the main switch of the machine should be turned to OFF or the plug must be removed from the socket-outlet.
- When servicing the machine or when removing covers, the machine must be unplugged.
- For U.S.A only
This appliance has a polarized plug (one blade wider than the other). To reduce the risk of electrical shock, this plug is intended to fit in a polarized outlet only one way.
If the plug does not fit fully in the electrical outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper electrical outlet. Do not modify the plug in any way.

Needle precautions

Be sure to observe the following precautions concerning the correct choice of needle for your machine.

⚠ CAUTION

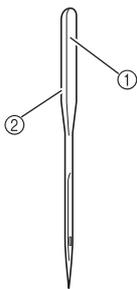
- Your machine is designed to use household embroidery needles. The factory recommended needle is “HAX 130 EBBR” (Organ). Schmetz needles 130/705 H-E may be used as a substitute. Use of any other needles may break the needle or thread or damage the needle-threading mechanism or result in injuries.
- Never use bent needles. Bent needles can easily break, possibly resulting in injuries.

Checking the needle

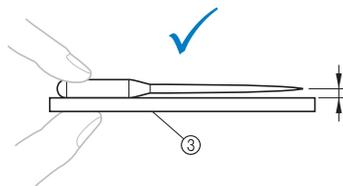
Sewing with a bent needle is extremely dangerous since the needle may break while the machine is operating.

Place the flat side of the needle on a flat surface and check that the distance between the needle and the flat surface is even. If the needle is bent or the tip of the needle is broken, replace the needle with a new one. (Refer to “Changing the needle” on page 40.)

■ Good needle



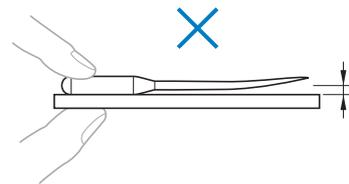
- ① Flat side
- ② Needle type marking



- ③ Flat surface

■ Bad needle

If the distance between the needle and the flat surface is not even, the needle is bent. Do not use a bent needle.

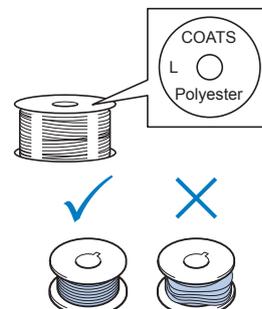


Bobbin precautions

Be sure to observe the following precautions concerning the bobbin.

CAUTION

- Only use prewound bobbin (COATS "L" type/TRU-SEW POLYESTER "Filaments") or bobbins designed specifically for this machine. Use of any other bobbin may result in injuries or damage to the machine.
- Use a bobbin thread that has been correctly wound, otherwise the needle may break or the thread tension will be incorrect.
- When winding a bobbin, only use optional bobbin winder and metal bobbins (Part code: 100376-053).
- When winding the bobbin, be sure to use cotton or spun polyester bobbin thread (between 74 dtex/2 and 100 dtex/2).



Upper thread recommendations

Be sure to observe the following recommendations concerning the upper thread.



Note

- It is recommended that rayon or polyester embroidery thread be used (120 den x 2 / 135 dtex x 2 / 40 weight (in Americas and Europe) / #50 (in Japan)).

Fabric recommendations

Be sure to observe the following recommendations concerning the fabric.



Note

- Your machine can embroider fabric that is up to 2 mm (5/64 inch) thick. If thicker fabric is sewn, the needle may bend or break.
- When embroidering overlapping stitches, it is difficult for the needle to penetrate the fabric, possibly resulting in the needle bending or breaking.
- Attach stabilizers to thin or stretch fabrics.
- When embroidering large pieces of fabric, make sure that the fabric is not caught in the carriage.

Display recommendations

Be sure to observe the following recommendations concerning the use of the operation panel display.

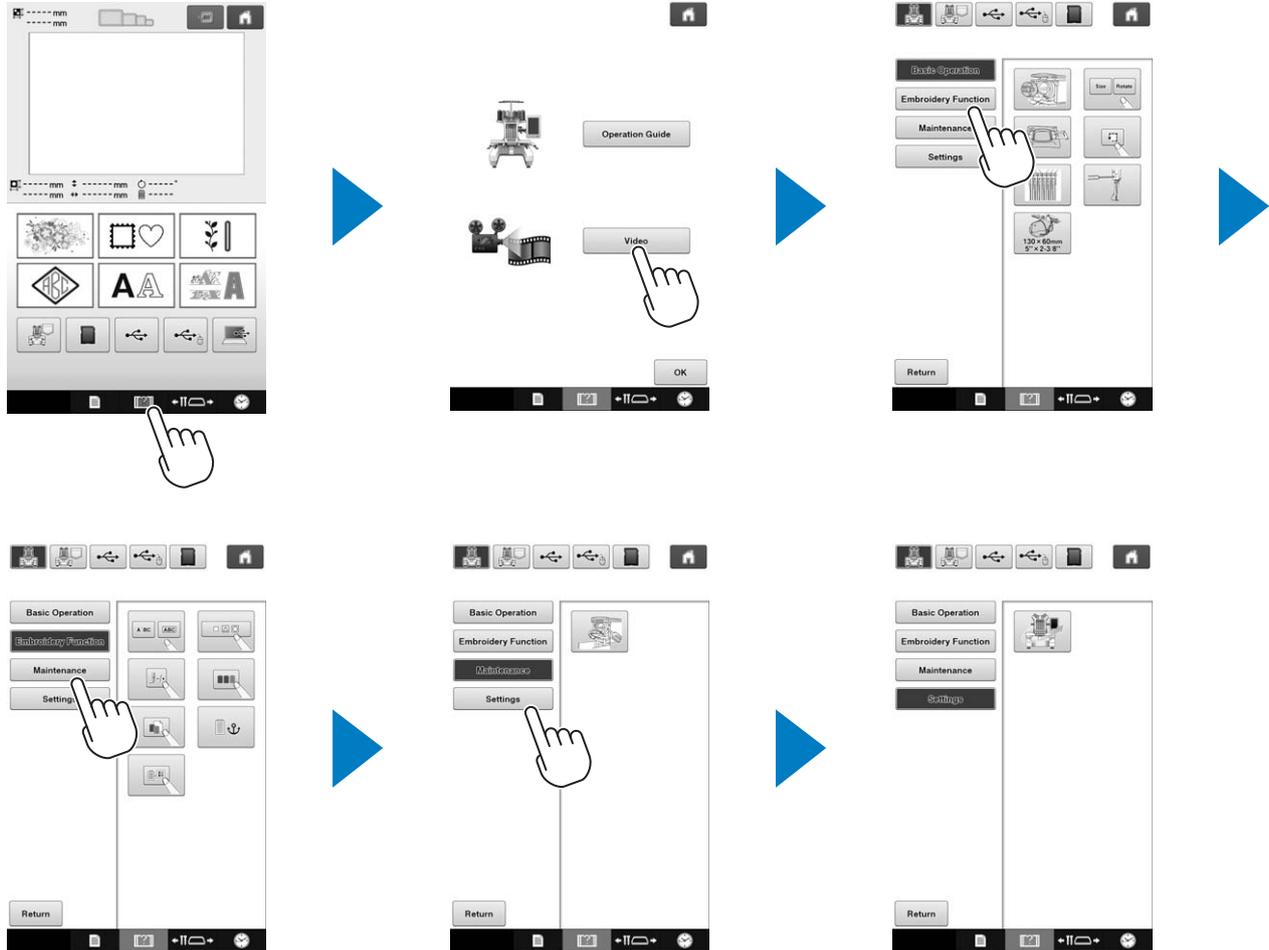


Note

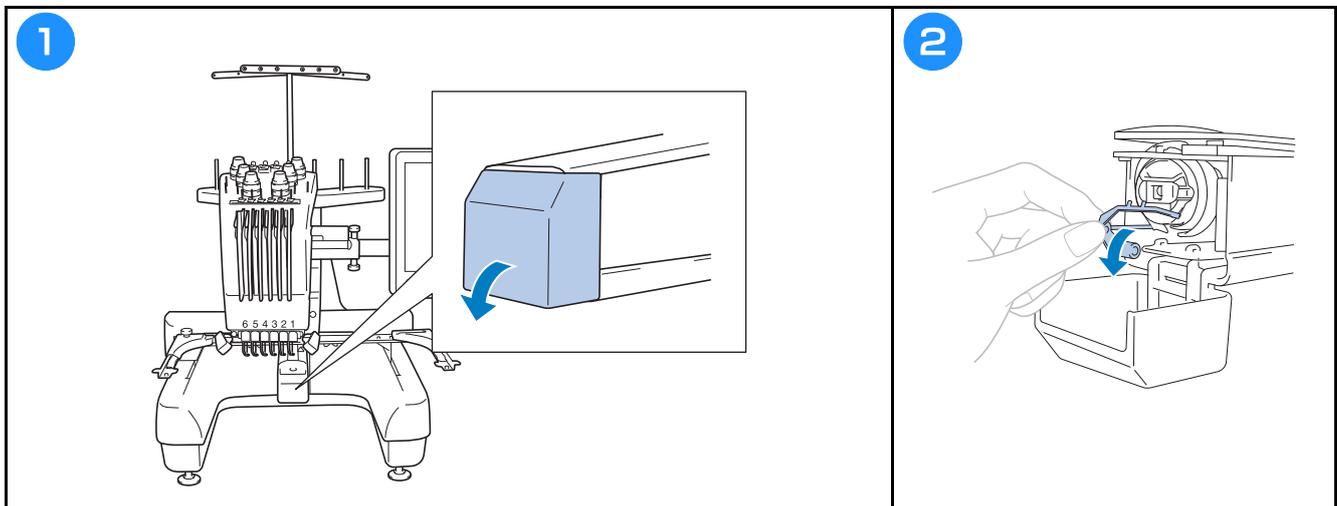
- Only touch the display with your finger or included touch pen. Do not use a mechanical pencil, screwdriver or any other hard or sharp object. In addition, do not apply extreme pressure to the display screen, otherwise damage to the display screen may result.

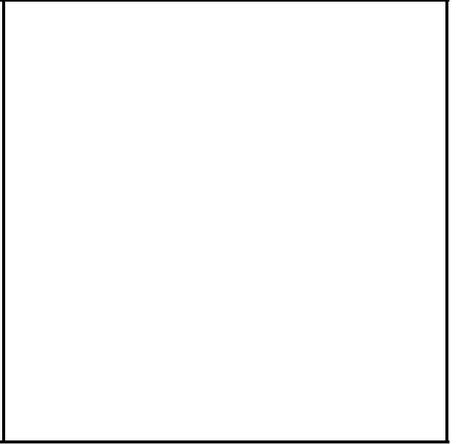
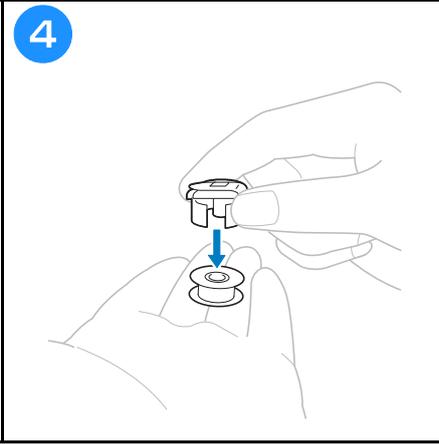
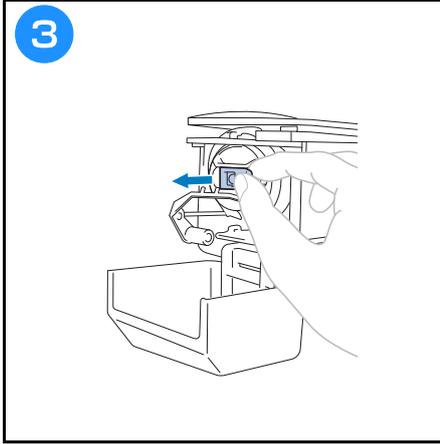
Preparing for Starting the Embroidery

Playing a Tutorial Video

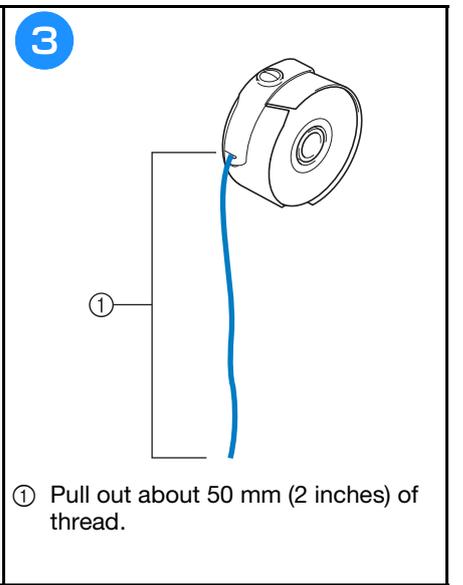
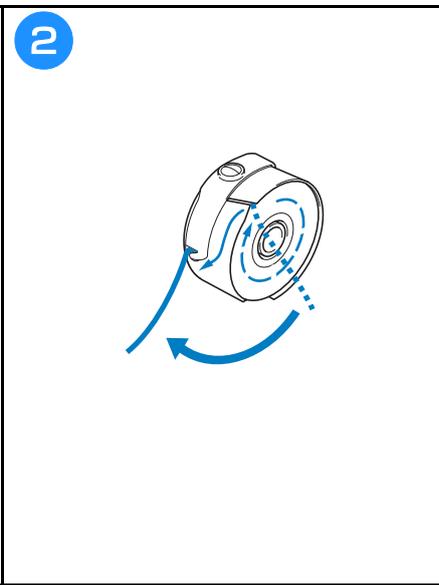
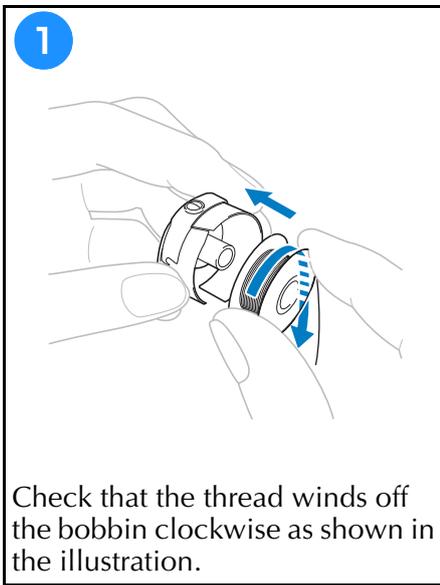


Removing the bobbin case

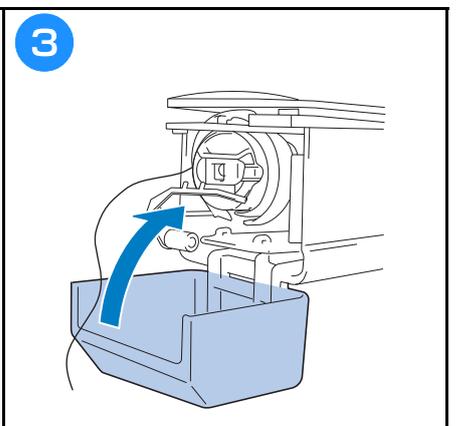
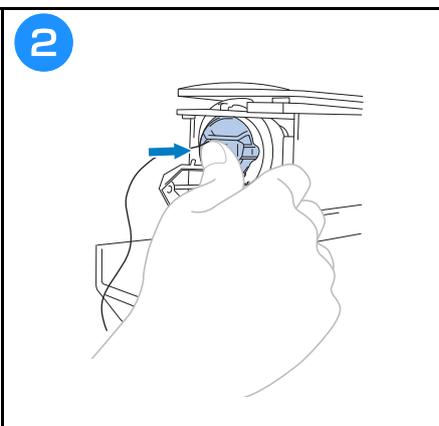
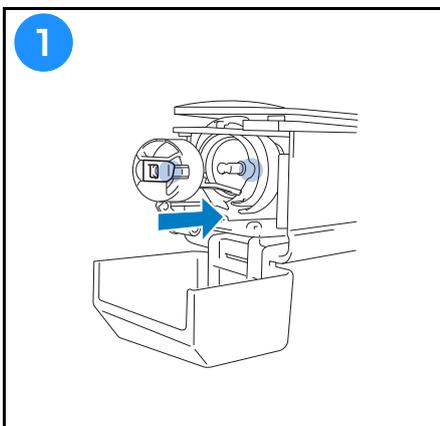




Installing the bobbin



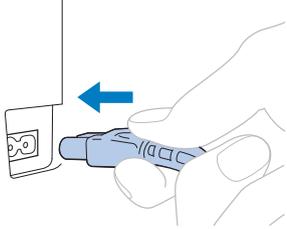
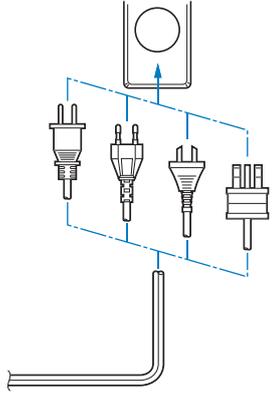
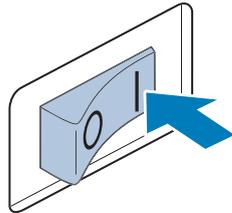
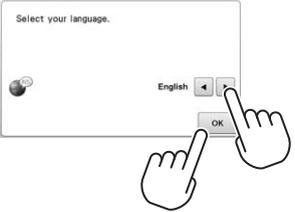
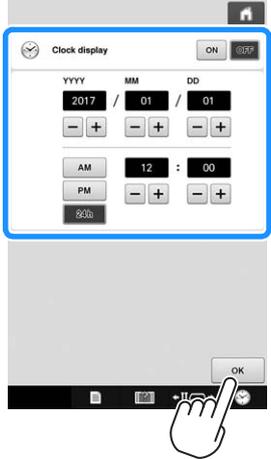
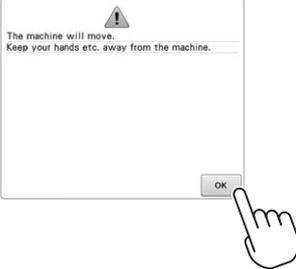
Installing the bobbin case



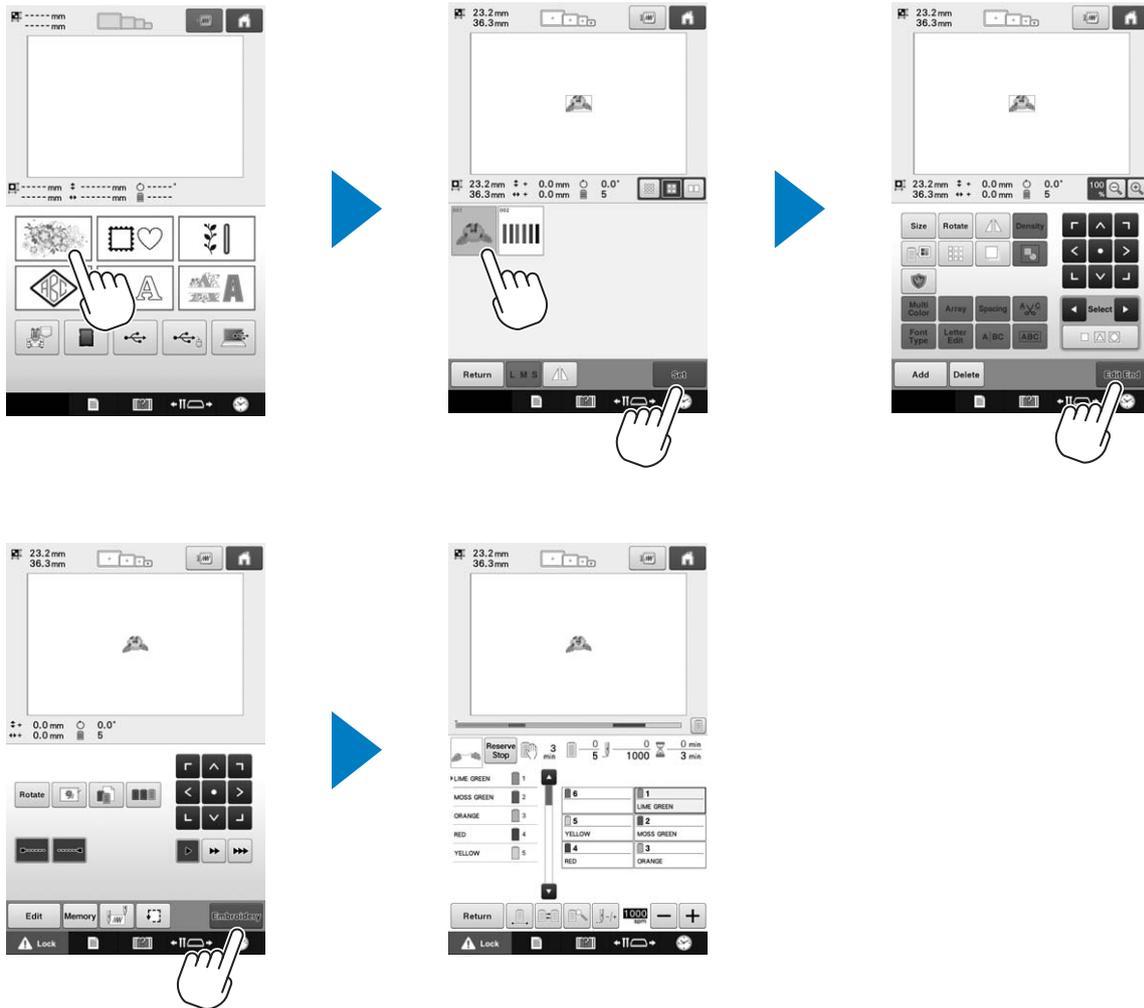
Turning on the machine

⚠ CAUTION

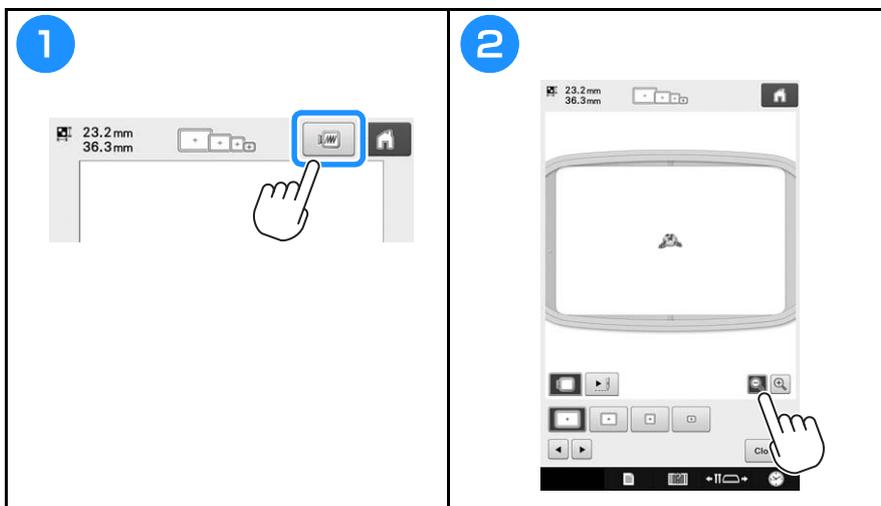
- Make sure to keep your hands and other items away from the carriage, in order to prevent any injuries.

<p>1</p> 	<p>2</p> 	<p>3</p> 	<p>4</p> 
<p>5 Set the clock.</p> 	<p>6</p> 	<p>Steps 4 and 5 are only needed when you turn on the machine for the first time.</p>	

Selecting the embroidery pattern

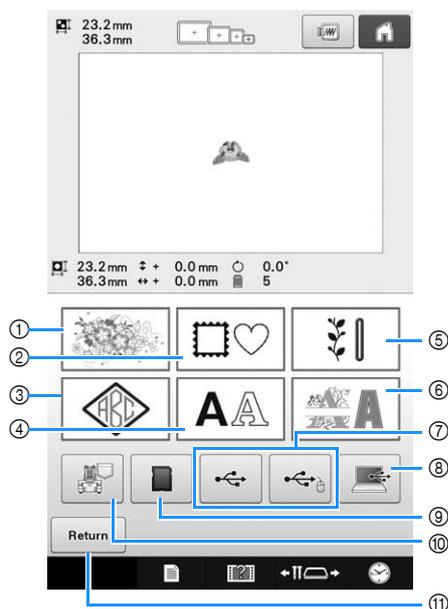


Checking a preview image



Understanding the pattern type selection screen

In this screen, select a pattern category (type).

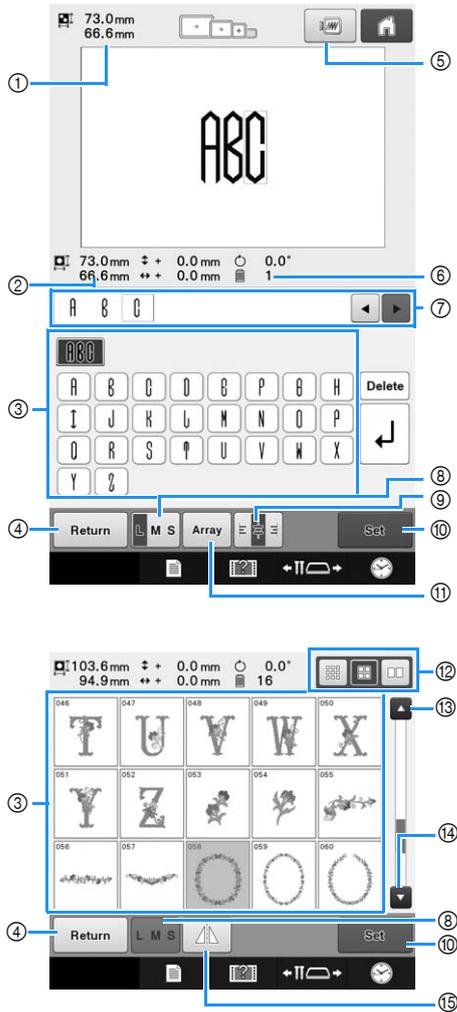


No.	Display	Function
	Key Name	
⑧		By using the included USB cable to connect a computer to the embroidery machine, patterns can be recalled from the computer.
	Computer (USB) key	
⑨		Recalls patterns from SD cards.
	SD card key	
⑩		Recalls patterns stored in the machine's memory.
	Embroidery patterns stored in the machine memory key	
⑪		This key is not displayed unless a pattern is selected. Touch this key to quit trying to add another pattern from the pattern type selection screen. Return to the pattern editing screen.
	Return key	

No.	Display	Function
	Key Name	
①		The embroidery pattern for a design can be selected.
	Embroidery pattern key	
②		14 stitch types can be combined with 10 frame shapes, such as a circle and a square.
	Frame pattern key	
③		Monogram designs can be created by combining two or three letters.
	Monogram and frame key	
④		Uppercase and lowercase letters, numbers, symbols and accented characters from 37 fonts can be selected in small, medium and large sizes. Japanese fonts can be selected in large and small sizes.
	Alphabet key	
⑤		Various utility embroidery patterns and large buttonhole patterns can be selected. Large buttonhole patterns can be selected from small, medium and large sizes.
	Utility embroidery pattern/Large buttonhole pattern key	
⑥		Various character patterns, such as floral characters, appliqué characters and so on, can be selected.
	Decorative alphabet key	
⑦		Recalls patterns from USB media.
	USB media keys	

Understanding the pattern list screen

In this screen, select the pattern.



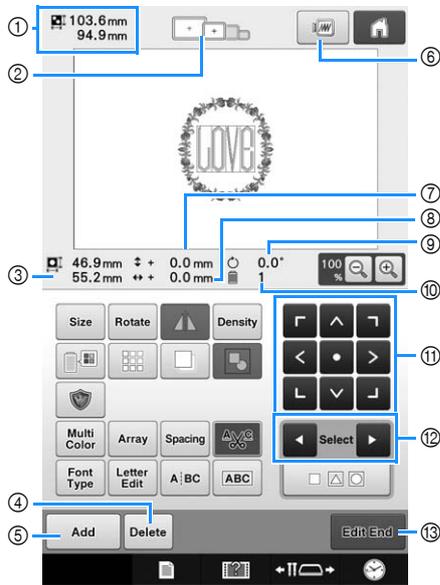
No.	Display Key Name	Function
①		Shows the size of the embroidery pattern currently displayed in the pattern display area. The top value shows the height and the bottom value shows the width. If the embroidery pattern consists of multiple patterns that have been combined, the size of the entire pattern, including all patterns, is shown.
	Size	
②		Shows the size of the pattern selected when its pattern key is touched. The top value shows the height and the bottom value shows the width.
	Size	
③		An image of the pattern appears on the key. Touch the image to select the pattern. Drag your finger up and down in this area to scroll through the pages.
	Pattern keys	
④		Touch to leave the currently selected pattern category and choose a different category. Returns to the pattern type selection screen.
	Return key	

No.	Display Key Name	Function
⑤		Displays an image of the pattern that is to be embroidered so it can be previewed.
	Preview key	
⑥		Shows the number of thread colors for the currently selected embroidery pattern.
	Number of thread colors	
⑦		The character information of an entered character pattern can be checked here. Since characters will be entered after the red cursor, use and to change the input position.
	Text preview area	
⑧		Allows the size of the currently selected embroidery pattern to be changed.
	Size key	
⑨		Touch to select a left, center or right alignment for a paragraph of a multi-line character pattern.
	Text alignment key	
⑩		Touch after selecting the pattern. The selection of the pattern is confirmed and the pattern editing screen appears.
	Set key	
⑪		Touch this key to change the configuration of a character pattern.
	Array key	
⑫		The size of the pattern thumbnails can be set to large, medium or small.
	Thumbnail size selection key	
⑬		Touch this key to display the previous page.
	Previous page key	
⑭		Touch this key to display the next page.
	Next page key	
⑮		Flips the pattern being selected horizontally.
	Horizontal mirror image key	

* Some patterns cannot be edited with ⑧, ⑨, ⑪ or ⑮.

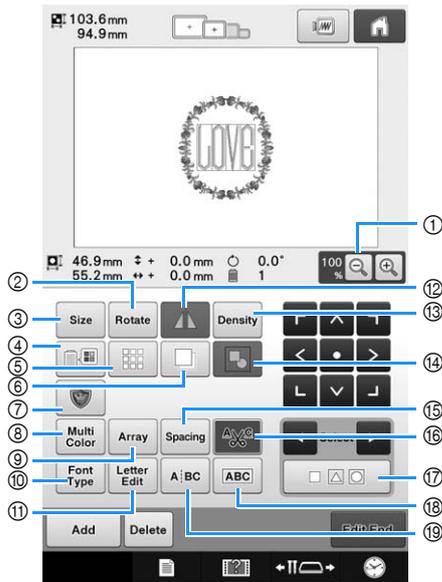
Understanding the pattern editing screen

In the pattern editing screen, patterns can be individually edited. (The entire pattern cannot be edited from this screen.) The pattern selected in the pattern display area can be repositioned, resized, rotated and rearranged, and its color scheme can be changed. In addition, multiple patterns can be selected and combined. Entered character patterns can also be edited in various ways.



No.	Display Key Name	Function
①	103.6 mm 94.9 mm	Shows the size of the embroidery pattern currently displayed in the pattern display area. The top value shows the height and the bottom value shows the width. If the embroidery pattern consists of multiple patterns that have been combined, the size of the entire pattern, including all patterns, is shown.
	Pattern size	
②		Shows the sizes of embroidery frames that can be used to sew the embroidery pattern currently displayed in the pattern display area.
	Embroidery frame indicators	
③	46.9 mm 55.2 mm	Shows the size of the pattern being edited. The top value shows the height and the bottom value shows the width.
	Size	
④	Delete	Deletes the pattern. If touched, the pattern being edited is deleted.
	Delete key	
⑤	Add	Adds a pattern. If touched, the pattern group selection screen appears.
	Add key	
⑥		Displays an image of the pattern so that it can be previewed.
	Preview key	
⑦	↕ + 0.0 mm	Shows the vertical distance that the pattern being edited is moved.
	Distance from center (vertical)	

No.	Display Key Name	Function
⑧	↔ + 0.0 mm	Shows the horizontal distance that the pattern being edited is moved.
	Distance from center (horizontal)	
⑨	⌚ 0.0°	Shows the rotation angle that the pattern being edited is rotated.
	Rotation angle	
⑩		Shows the total number of thread colors for the pattern that is being edited.
	Number of thread colors	
⑪		Moves the sewing position of the pattern that is being edited in the direction of the arrow. (If is touched, the sewing position is moved to the center of the embroidering area.)
	Positioning keys	
⑫		Selects the pattern that is being edited when the embroidery pattern consists of multiple patterns that have been combined.
	Pattern selection keys	
⑬	Edit End	Finish editing and continue to the embroidering settings screen.
	Edit End key	

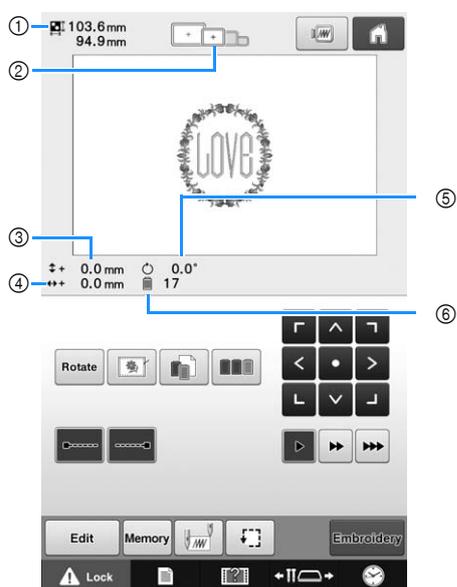


No.	Display		Function
	Key Name		
①		100 %	Select from 100%, 125%, 150% or 200% to adjust how the pattern being edited is displayed.
	Enlarge key		
②		Rotate	Rotates the pattern that is being edited.
	Rotate key		
③		Size	Changes the size of the pattern that is being edited.
	Size key		
④		Change thread color key	Changes the color of the pattern.
⑤		Border key	Makes and edits a repeating pattern.
⑥		Duplicate key	Duplicates the pattern.
⑦		Embroidery Appliqué key	Touch to change the pattern being edited into an appliqué pattern.
⑧		Multi Color key	Enables the thread color of each character in an alphabet pattern to be changed; can only be used when an alphabet is selected.
⑨		Array key	Changes the orientation of the characters in the alphabet pattern that is being edited.
⑩		Font Type key	Touch to change the font of the character pattern being edited.
⑪		Letter Edit key	Touch to change the size and font of individual characters in the character pattern being edited.

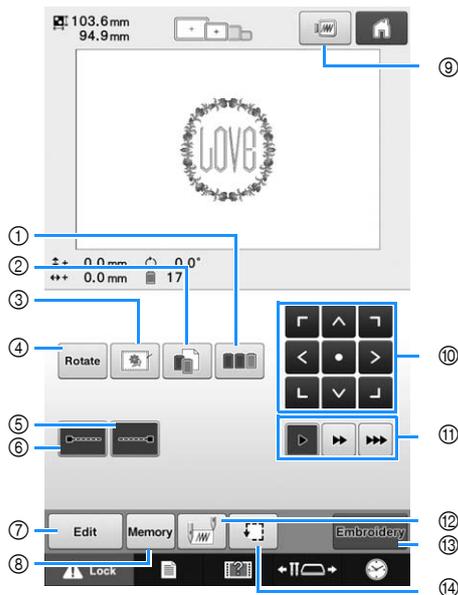
No.	Display		Function
	Key Name		
⑫		Horizontal mirror image key	Flips the pattern being edited horizontally.
⑬		Density key	Changes the density of the pattern that is being edited; can only be used if an alphabet or frame pattern is selected.
⑭		Grouping key	Touch to group the multiple selected patterns.
⑮		Spacing key	Changes the spacing between the characters in the character pattern that is being edited.
⑯		Thread trim setting key	Automatically trim any excess thread jumps within the letters of alphabet pattern.
⑰		Multiple selection key	Touch to select multiple patterns.
⑱		Text combining key	Touch to group the selected character patterns.
⑲		Text dividing key	Touch to ungroup the selected character pattern.

Understanding the embroidering settings screen

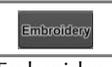
From this screen, the entire pattern can be edited and embroidering settings can be specified. In addition, the embroidering position can be checked and a pattern can be saved for later use. Keys available in this screen differ when you set "Manual Color Sequence" to "ON" in settings screen.



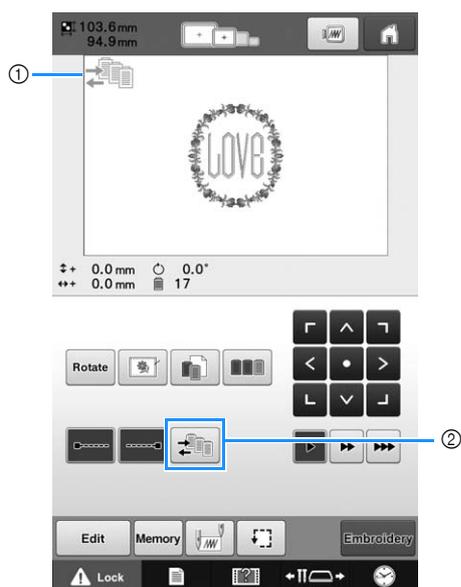
No.	Display Key Name	Function
①	 103.6mm 94.9mm Pattern size	Shows the size of the embroidery pattern currently displayed in the pattern display area. The top value shows the height and the bottom value shows the width. If the embroidery pattern consists of multiple patterns that have been combined, the size of the entire pattern, including all patterns, is shown.
②	 Embroidery frame indicators	Shows the sizes of embroidery frames that can be used to sew the embroidery pattern currently displayed in the pattern display area.
③	 0.0 mm Distance from center (vertical)	Shows the vertical distance that the pattern being combined/edited is moved.
④	 0.0 mm Distance from center (horizontal)	Shows the horizontal distance that the pattern being combined/edited is moved.
⑤	 0.0° Rotation angle	Shows the rotation angle that the pattern being edited is rotated.
⑥	 17 Number of thread colors changes	Shows the total number of thread colors for the pattern that is being edited.



No.	Display Key Name	Function
①	 Color sorting key	Specifies that the sewing sequence for multiple patterns that have been combined be rearranged by thread color.
②	 Individual region setting key	Touch to change the setting the thread color individually, for example, pause function or deselect region function.
③	 Embroidery basting key	When stabilizer material is not affixed to the fabric, sew basting stitches along the outline of the pattern to minimize shrinkage of the stitching and misaligned patterns.
④	 Rotate key	Rotates the entire embroidery pattern when it consists of multiple patterns that have been combined.
⑤	 Lock stitching (end) key	Specifies that automatic lock stitch is sewn when the thread is trimmed.
⑥	 Lock stitching (beginning) key	Specifies that automatic lock stitch is sewn at the beginning of the pattern and at the beginning of sewing after thread trimming.
⑦	 Edit key	Touch to return to the pattern editing screen.
⑧	 Memory key	Save a pattern in the machine's memory, USB media or a computer.
⑨	 Preview key	Displays an image of the pattern that is to be embroidered so it can be previewed.
⑩	 Positioning keys	Moves the sewing position of the whole pattern in the direction of the arrow. (If  is touched, the sewing position is moved to the center of the embroidering area.)

No.	Display Key Name	Function
⑪	 Frame movement speed keys	Selects the speed to move the frame.  Touch to move the frame by 0.1 mm.  Touch to move the frame by 0.5 mm.  Keep touching to move the frame at maximum speed.
⑫	 Starting/ending position key	Specifies the needle position at the beginning of sewing and at the end.
⑬	 Embroidery key	Finish all operations in the embroidering settings screen and continues to the embroidering screen.
⑭	 Trial sewing key	Moves the embroidery frame so that the embroidering position can be checked.

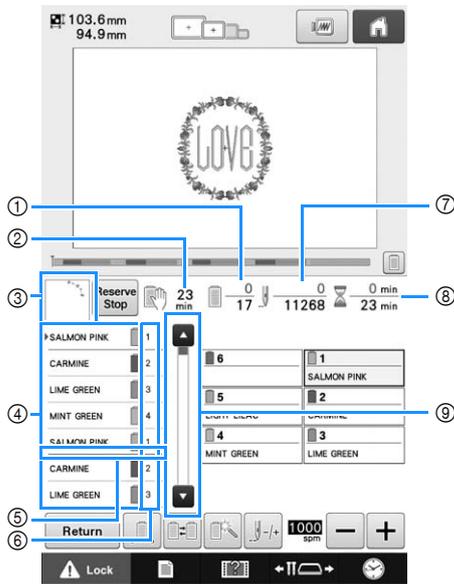
■ In the “Manual Color Sequence” mode



No.	Display Key Name	Function
①	 Manual color sequence mode icon	This illustration appears when the sewing machine is in the “Manual Color Sequence” mode.
②	 Manual color sequence key	Touch to change the needle bar color setting. This key appears when you set “Manual Color Sequence” to “ON” in settings screen.

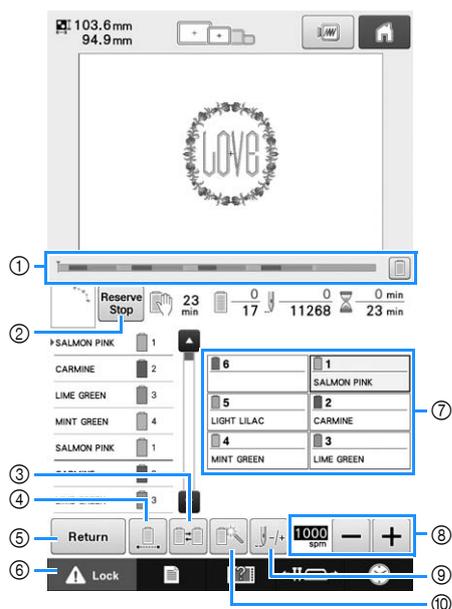
Understanding the embroidering screen

From this screen, the total number of thread colors and the sewing time can be checked, the needle bar settings can be specified, and the needle placement forward or backward can be done. Keys available in this screen differ when you set "Manual Color Sequence" to "ON" in settings screen.



No.	Display	Function
	Key Name	
⑧	0 min 23 min	The bottom value shows the total amount of time required to sew the pattern and the top value shows how much time has already passed sewing.
	Sewing time	
⑨		The thread color sequence display shows the first seven thread colors. To check the sequence for the eighth and later thread colors, touch or , or touch the scroll bar.
	Scroll bar	

No.	Display Key Name	Function
①	0 17	The bottom value shows the total number of thread colors in the pattern and the top value shows the thread colors that is currently being sewn.
	Sewing order	
②	23 min	Shows the amount of time until the machine will stop. When the last thread spool is being sewn, the number appears in red. If the thread color needs to be changed, this shows the time until the thread spool will need to be changed.
	Time until the machine stops	
③		Shows the part of the pattern that will be sewn with the thread color shown first in the thread color sequence display.
	Region display	
④		Shows the order for the thread color changes. During embroidering, this display scrolls automatically so that the color of the thread currently being sewn appears at the top.
	Thread color sequence display	
⑤		This red line indicator shows when the thread spools will need to be changed. The thread spools will need to be changed at the point between the two thread colors where the indicator is displayed.
	Spool change indicator	
⑥	1 2 3	Indicates the needle bar number where the thread color at the left is assigned.
	Needle bar number	
⑦	0 11268	The bottom value shows the total number of stitches in the pattern and the top value shows how many stitches have already been sewn.
	Stitch count	



No.	Display	Function
	Key Name	
①		The embroidering progress is shown by the red mark in the indicator.
	Progress bar	Touch to display (in the indicator) only the thread color being embroidered.
②		While sewing embroidery, touch this key for the machine to stop prior to the next color beginning.
	Reserve Stop key	
③		Change the needle bar settings from the screen without changing the thread spools on the machine.
	Switch spool key (Not available in the "Manual Color Sequence" mode)	
④		Touch to sew the pattern in the same color, regardless of specified color changes. The entire thread color sequence display will appear in the same color. The progress bar ① and thread color setup display ⑦ will show the original colors.
	Uninterrupted embroidery key/ Monochrome	
⑤		Touch this key to quit sewing and return to the embroidering settings screen.
	Return key	
⑥		Unlocks the machine so it can start sewing within 10 seconds. When this key is touched, the start/stop button flashes in green.
	Unlock key	
⑦		Touch a key to move the needle bar position to the selected needle bar number. Use when threading the needle with the automatic needle-threading mechanism.
	Needle bar key	
		Shows the color and the thread color name (number) for the thread on the needle bar indicated on the key. Thread the machine as indicated here.

No.	Display	Function
	Key Name	
⑧		Specifies the maximum sewing speed.
	Maximum sewing speed key	
⑨		Moves the needle forward or backward through the stitching. Use this key in the following situations: <ul style="list-style-type: none"> • If the thread breaks or runs out while embroidering • To restart sewing from the beginning • To continue sewing after the machine was turned off
	Forward/Backward stitch key	
⑩		Enables the needle bar settings to manually be specified.
	Temporary needle bar settings key	



Memo

- The thread color numbers in the thread color sequence display and the thread color set up display can be changed, for example, to the color name or the thread color number for other brands.

Starting the Embroidery

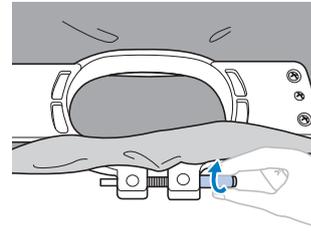
Hooping the fabric in the embroidery frame

1



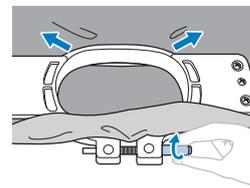
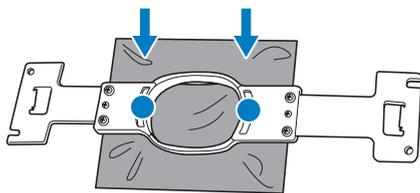
Loosen the screw.

2



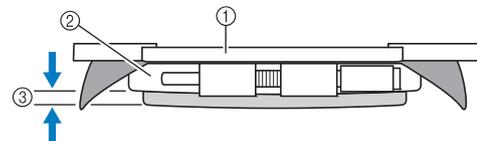
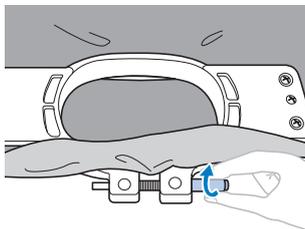
Place the fabric with the right side up on top of the outer frame.

3



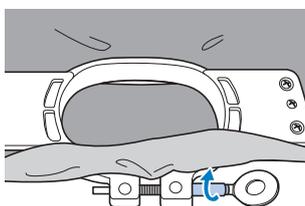
Lightly tighten the screw, and then pull the edges of the fabric.

4



- ① Inner frame
- ② Outer frame
- ③ Bottom of inner frame

5

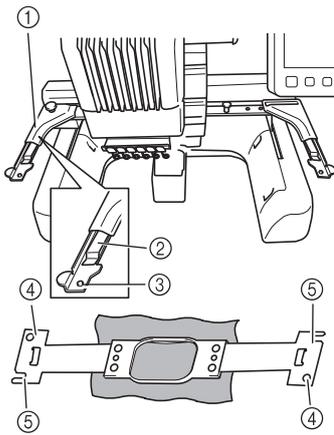


Tighten the screw.

Attaching the embroidery frame to the machine

⚠ CAUTION

- If the embroidery frame is not correctly attached it may hit the presser foot and damage the machine, or cause injury to the user.
- When attaching the embroidery frame, make sure that the start/stop button is lit in red. If the start/stop button is flashing in green, the embroidery machine may start sewing. If the embroidery machine accidentally starts operating, injuries may result.
- When attaching the embroidery frame, make sure that the embroidery frame does not hit any other part of the embroidery machine.



① Left arm of embroidery frame holder

Move the arm of the embroidery frame holder to the left or right to adjust it to the size of the embroidery frame.

② Clip on embroidery frame holder

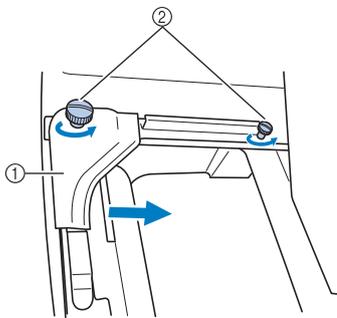
Insert the embroidery frame into the clips on the embroidery frame holder.

③ Positioning pin

④ Holes

⑤ Positioning slots

1

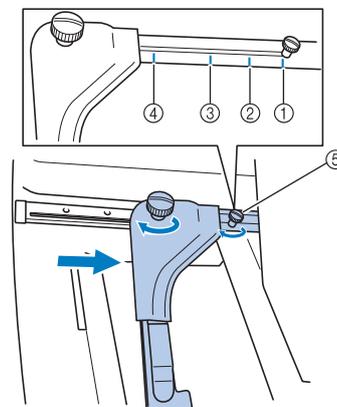


① Left arm

② Thumb screws

Loosen the two thumb screws on the embroidery frame holder.

2



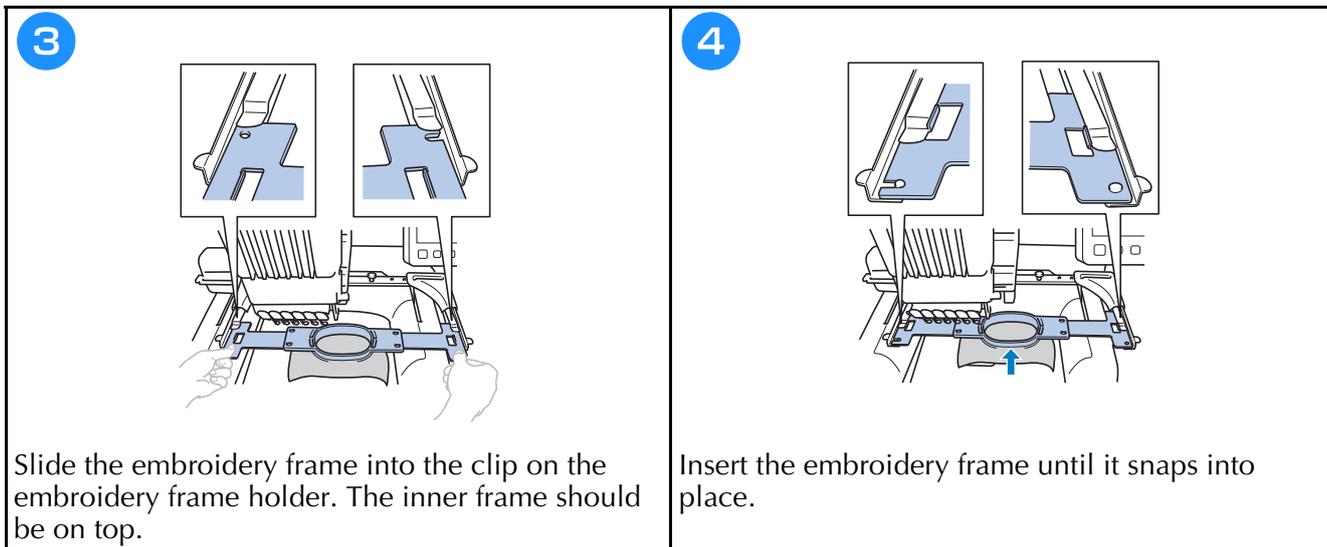
① Mark for extra-large embroidery frame

② Mark for large embroidery frame

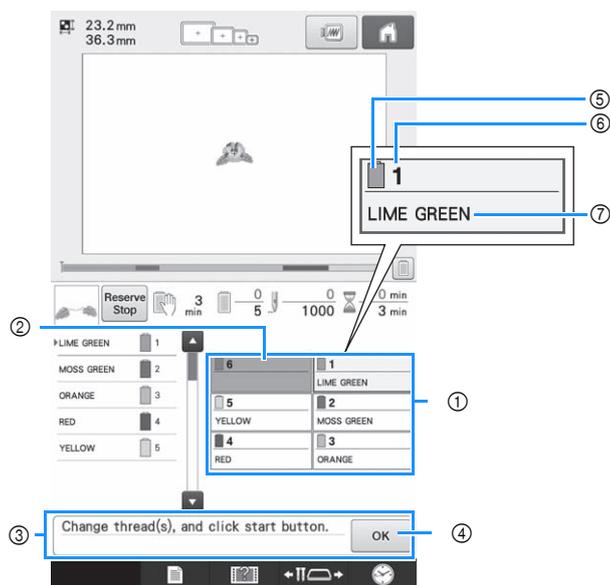
③ Mark for medium embroidery frame

④ Mark for small embroidery frame

⑤ Align the screw with the mark.



Checking the needle bars and thread colors

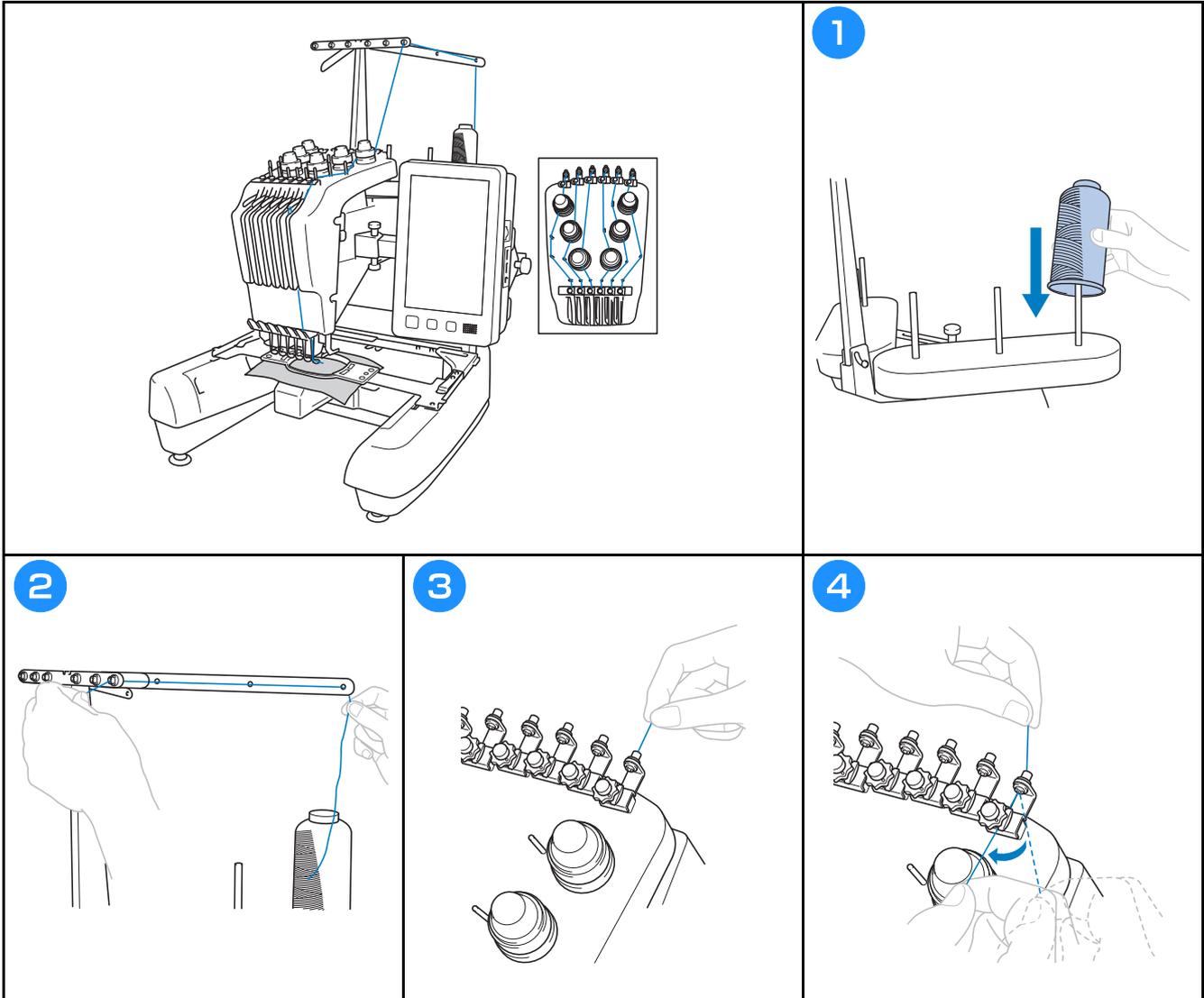


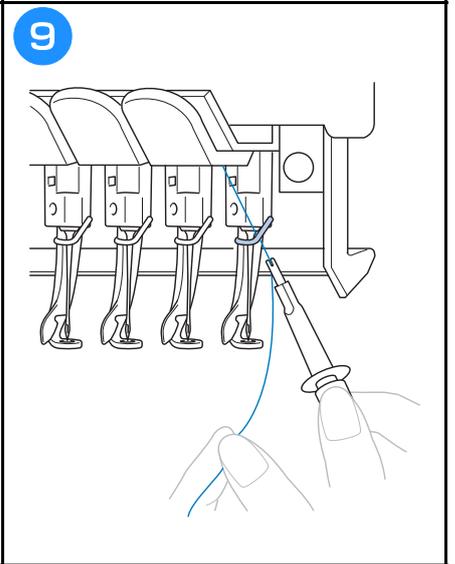
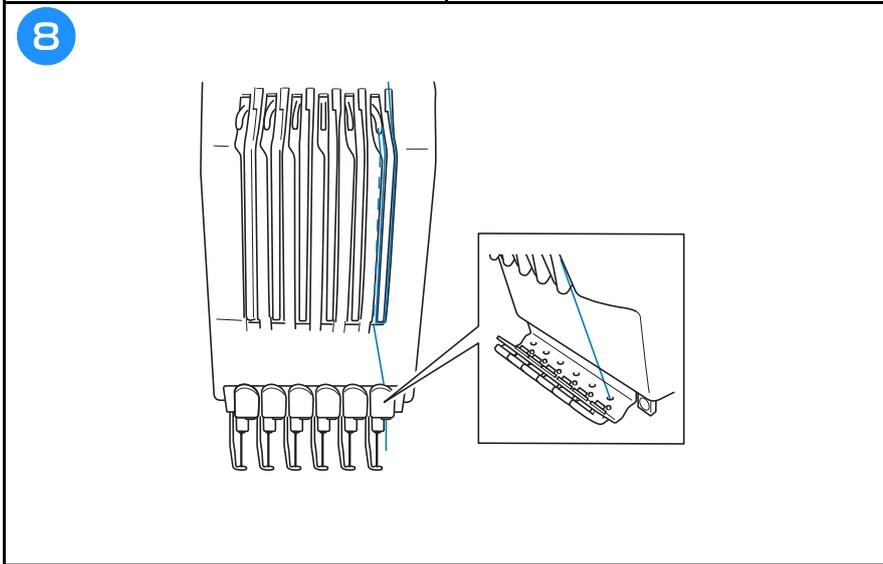
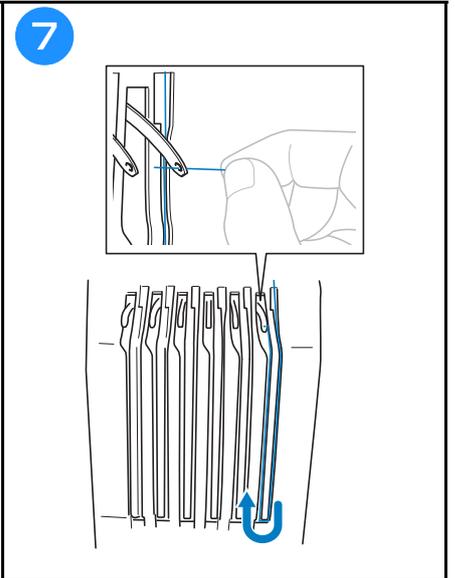
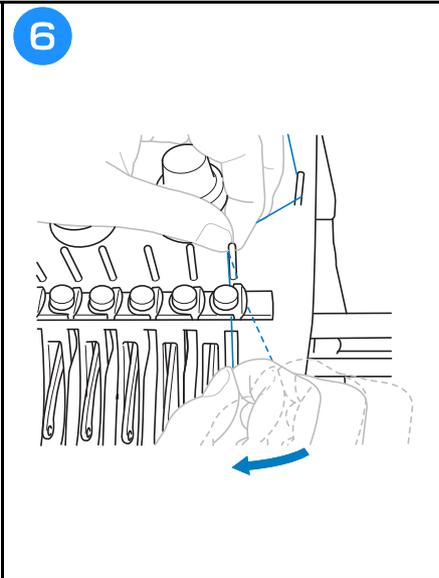
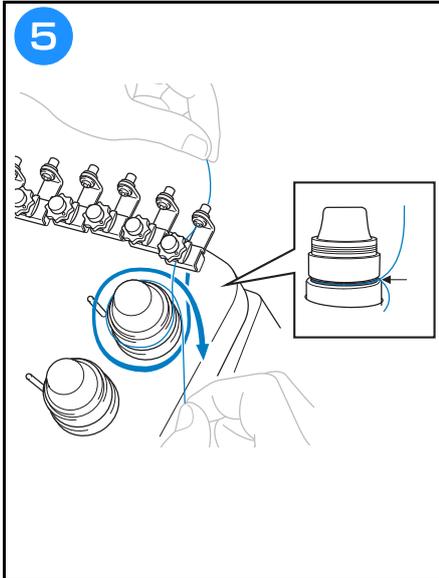
- ① Thread information for the first to sixth needle bars
- ② If no thread color name is displayed, that needle bar has not been used.
If a thread color had been assigned to the needle bar on a previously sewn design, the needle bar will show the previously assigned color.
- ③ Change thread spools message.
This message appears when it is necessary for the thread spools to be changed. If ④ is not touched to close the message, embroidering cannot continue.
- ⑤ Thread color
- ⑥ Needle bar number
- ⑦ Thread color name or number
If the thread color number (#123) is selected in the settings screen, the thread brand will also be displayed.

Upper threading

⚠ CAUTION

- When threading the upper thread, carefully follow the instructions. If the upper threading is not performing correctly, the thread may break or become tangled, causing the needle to bend or break.

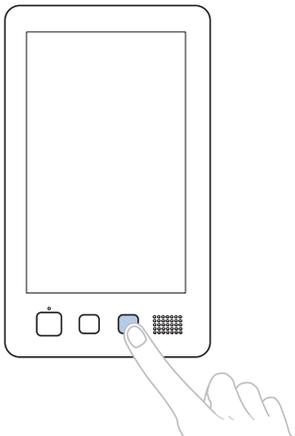
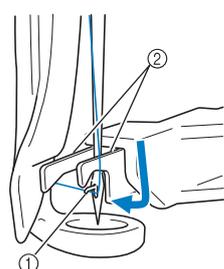
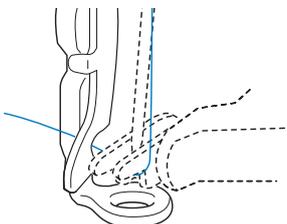
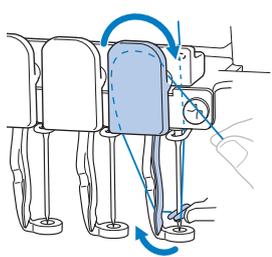
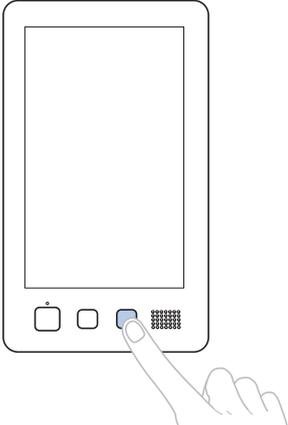
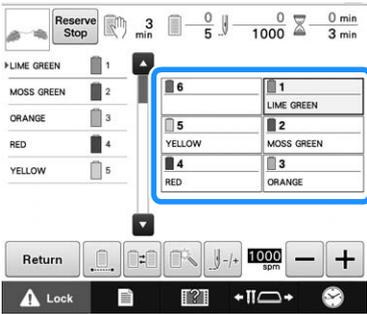




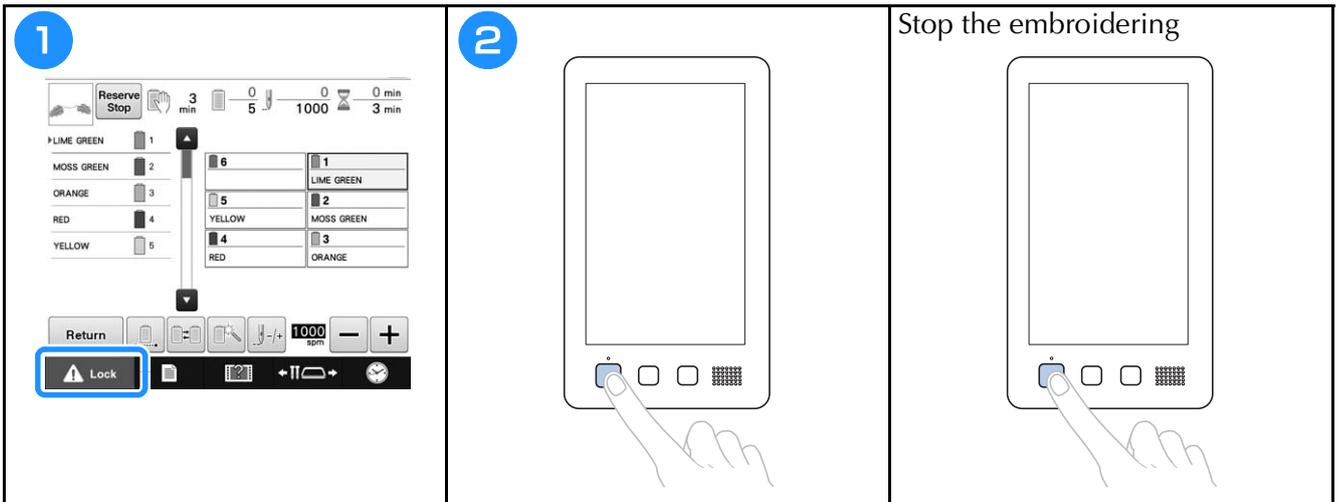
Threading the needle

⚠ CAUTION

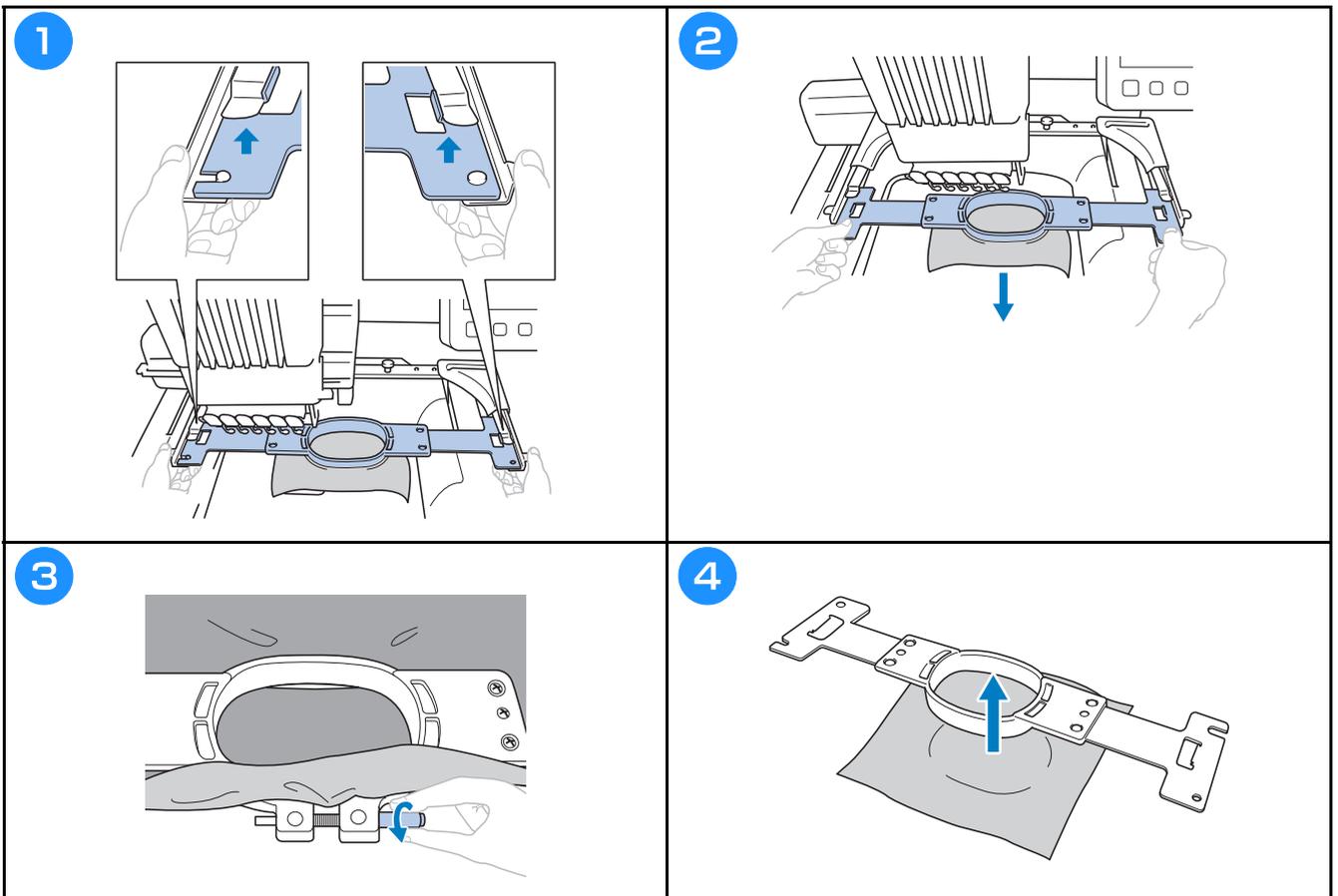
- If the needle is not fully inserted, the hook of the automatic needle-threading mechanism will not pass through the eye of the needle during automatic needle threading, and the hook may bend or the needle cannot be threaded.
- If the hook of the automatic needle-threading mechanism is bent or damaged, contact your authorized Brother dealer.
- While the hook of the automatic needle-threading mechanism is passed through the eye of the needle, do not rotate the handwheel, otherwise the automatic needle-threading mechanism may be damaged.

<p>1</p>  <p>The hook on the automatic threading mechanism passes through the eye of the needle.</p>	<p>2</p>  <p>① Hook ② Fork</p>	<p>3</p> 
<p>4</p> 	<p>5</p> 	<p>6 Touch the key for the needle bar that you wish to thread.</p> 

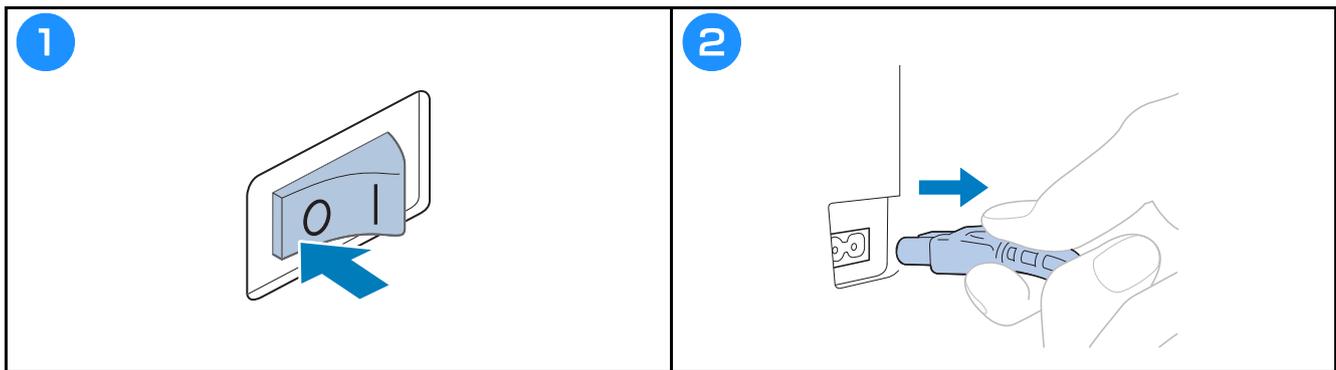
Starting embroidering



Removing the embroidery frame and fabric



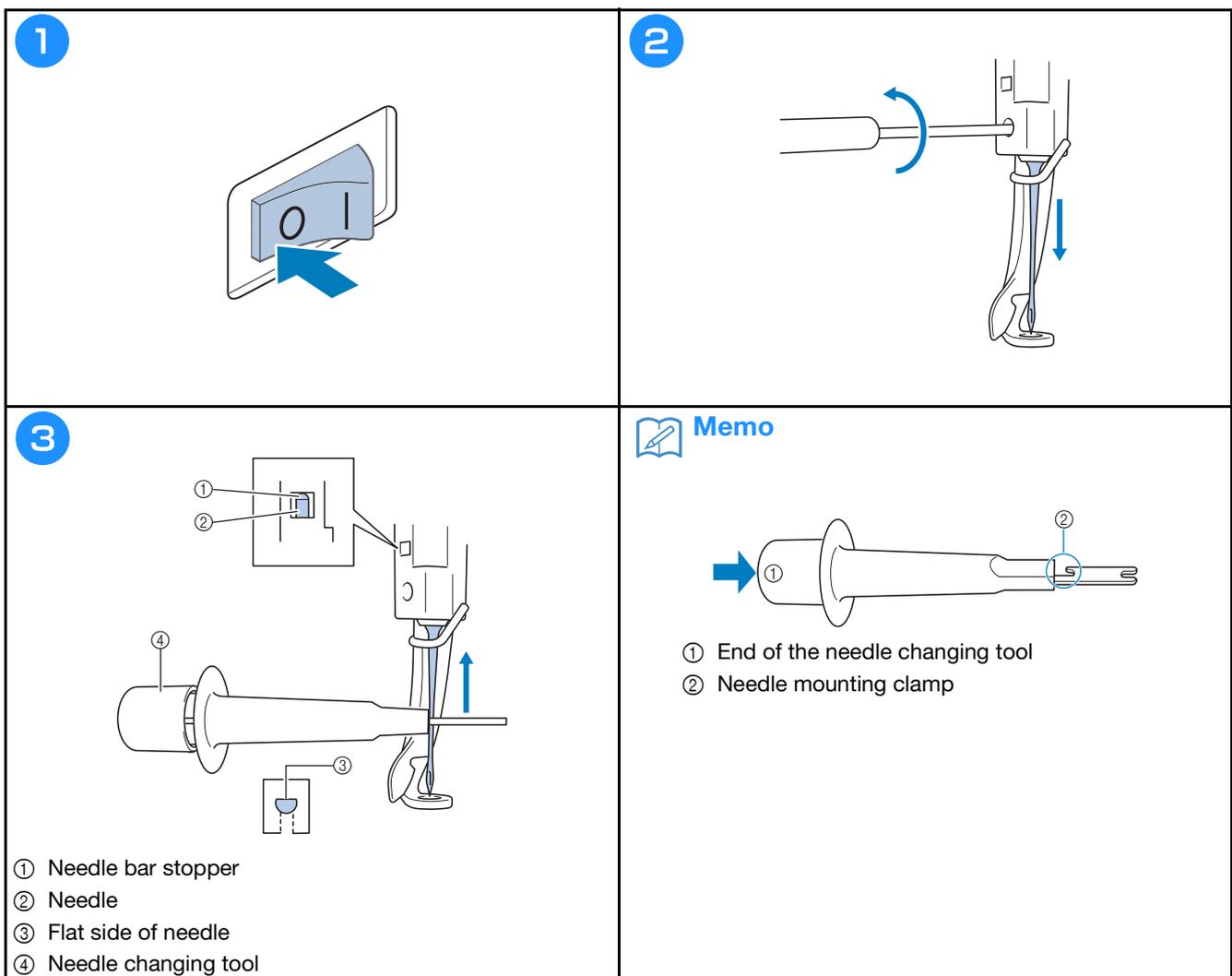
Turning off the machine



Changing the needle

⚠ CAUTION

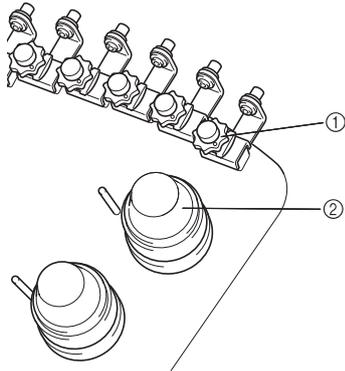
- Be sure to turn off the embroidery machine before replacing the needle, otherwise injuries may result if the machine starts embroidering.



Appendix

Checking the thread tension

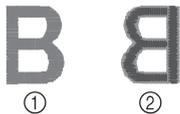
The upper thread tension can be adjusted using the thread tension knob or the upper thread guide pretension knob.



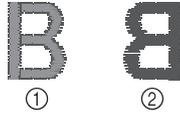
- ① Upper thread guide pretension knob
- ② Thread tension knob

■ Correct thread tension

From the wrong side of the fabric, the bobbin thread should be about one third of the stitch width.



- ① Right side
- ② Wrong side

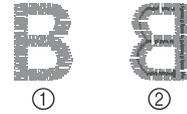


- ① Right side
- ② Wrong side

The tension of the upper thread is too tight, resulting in the lower thread being visible from the right side of the fabric.

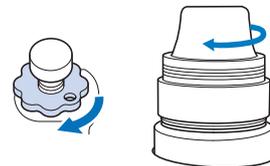


Loosen by turning counterclockwise.



- ① Right side
- ② Wrong side

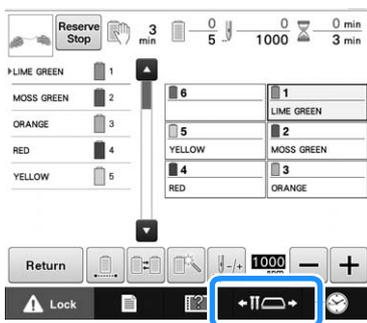
The tension of the upper thread is too loose, resulting in a loose upper thread, loose thread locks or loops appearing on the right side of the fabric.



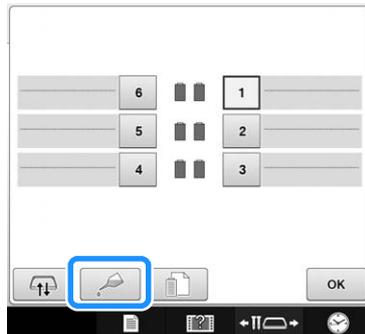
Tighten by turning clockwise.

Oiling the race

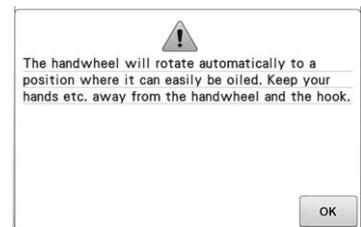
1

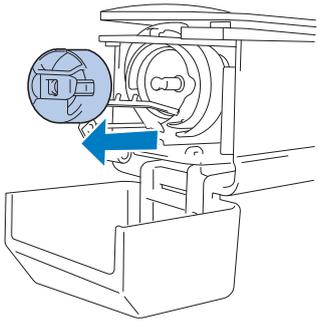
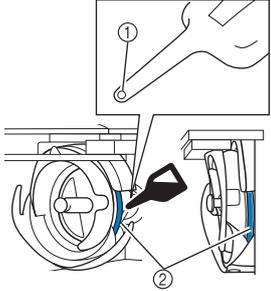
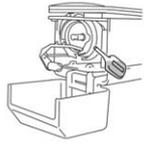
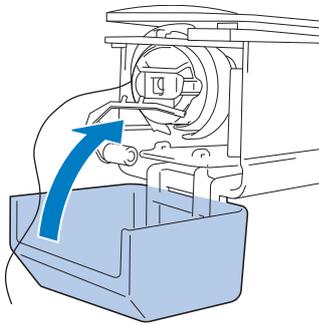


2

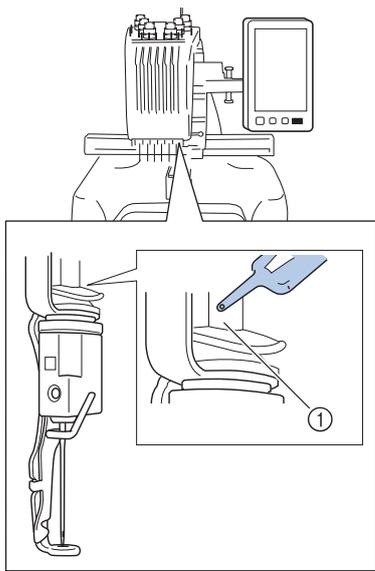


3



<p>4</p> 	<p>5</p> <div style="border: 1px solid gray; padding: 5px; text-align: center;">  <p>The handwheel will rotate automatically to a position where it can easily be oiled. Keep your hands etc. away from the handwheel and the hook.</p> </div> <p style="text-align: right;">OK</p>	<p>6</p>  <p>(Front angle view) (Side view)</p> <p>① Punch a small hole in oil bottle. ② Apply oil here.</p> <ul style="list-style-type: none"> • Use a pointed object to punch a small hole in the tip of the included oiler before using it.
<p>7</p> <div style="border: 1px solid gray; padding: 5px;"> <p>Put a drop of oil onto the hook. Keep your hands etc. away from the handwheel and the hook after oiling, and then press "OK". The handwheel and hook will return to original position.</p> </div>  <p style="text-align: right;">OK</p>	<p>8</p> 	

Oiling the needle bars

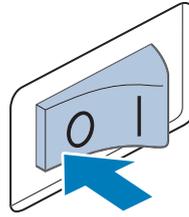
 <p>① Apply oil here.</p> <ul style="list-style-type: none"> • Too much oil may drip onto the project. 	<p> Note</p> <ul style="list-style-type: none"> • Put a drop of oil onto the hook once a day before use. • Apply one drop of oil on the lower needle bar above the felt washer every 40 – 50 hours of embroider time. • Apply only sewing machine oil. Use of any other type of oil may result in damage to the embroidery machine. • Do not apply too much oil. Fabric or thread may get contaminated. If too much oil is applied, wipe off any excess with a rag. • If the thread breaks while embroidering or the operating noise of the hook becomes loud, apply oil onto the race hook.
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Cleaning the hook

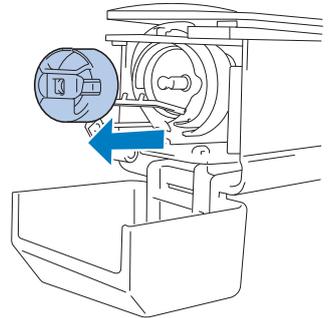
⚠ CAUTION

- Unplug the power supply cord before cleaning the machine, otherwise injuries or an electric shock may occur.
- If the hook is scratched or damaged, consult your authorized Brother dealer.

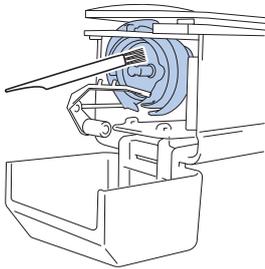
1



2

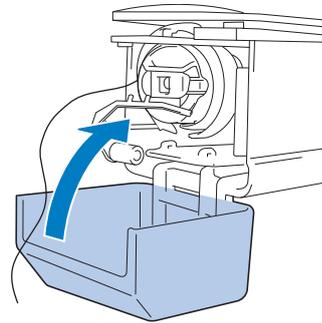


3



Remove any lint and dust from the hook and its surrounding area.

4

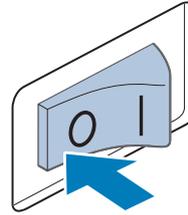


Cleaning around the needle plate

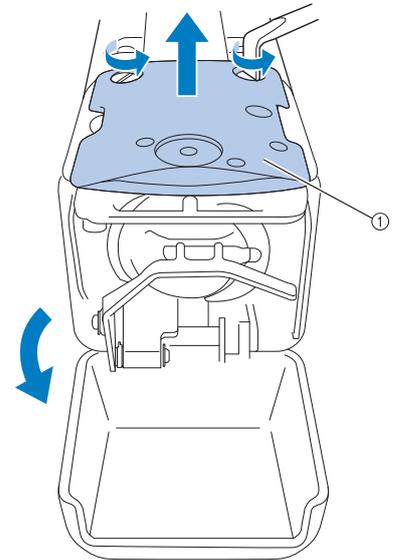
⚠ CAUTION

- Unplug the power supply cord before cleaning the machine, otherwise injuries or an electric shock may occur.

1

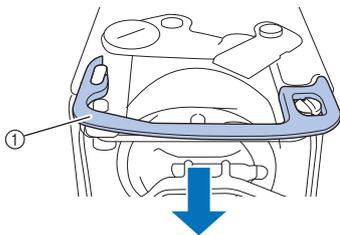


2



① Remove the needle plate.

3



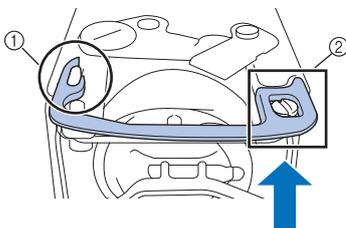
① Spacer

4



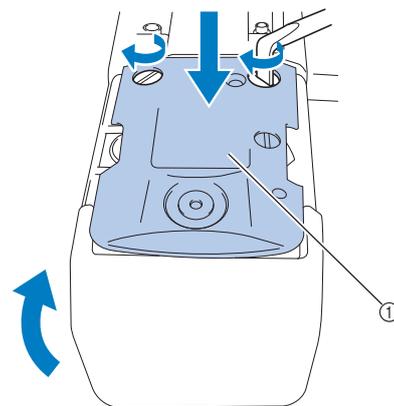
① Remove all lint in this area.

5



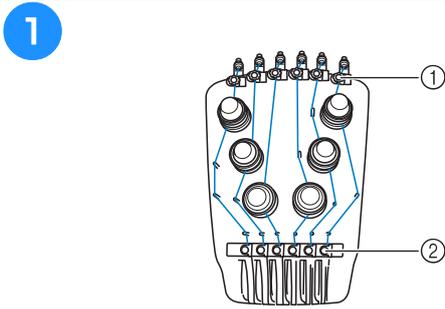
① Elliptical notch
② Screw head

6

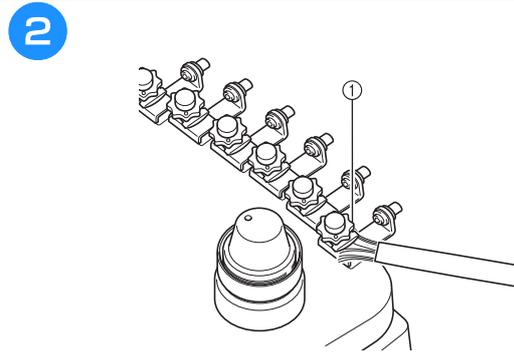


① Needle plate

Cleaning the thread guides

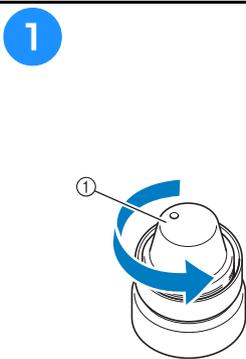


Clean the thread guide plates for both the upper thread guide ① and the middle thread guide ②.



① Clean the thread guide plate.

Clean the tension dial



① Turn the dial counterclockwise.



Remove any lint and dust from the two pieces of felt washers (top, bottom) inside the tension dial.

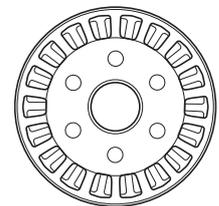
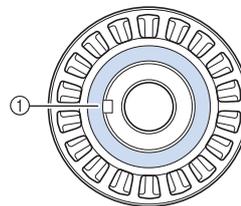


Note

- When reassembling the tension unit, be sure not to install the tension disc upside down. There is a magnet on the bottom.

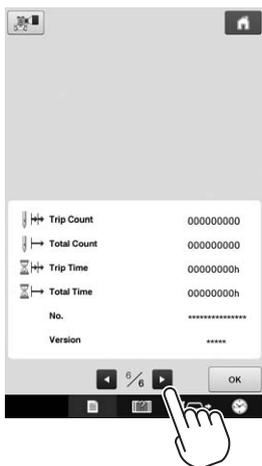
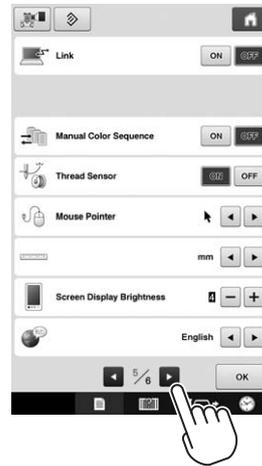
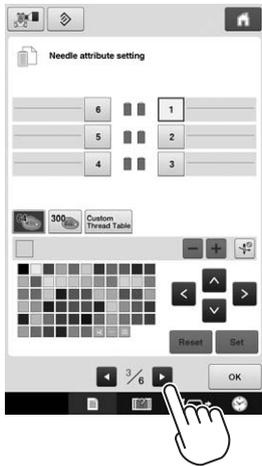
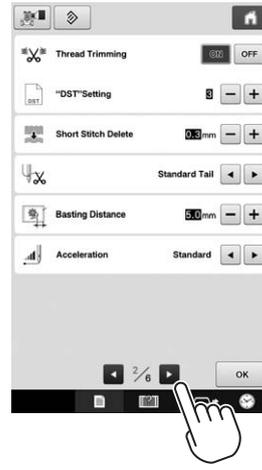
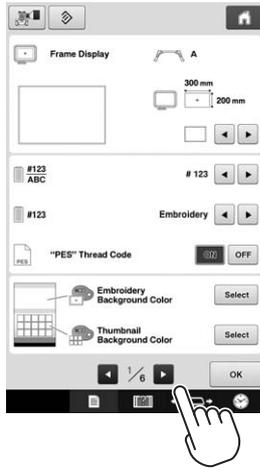
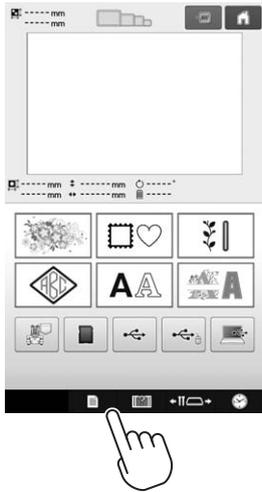
Bottom

Top



① Magnet

Basic Setting



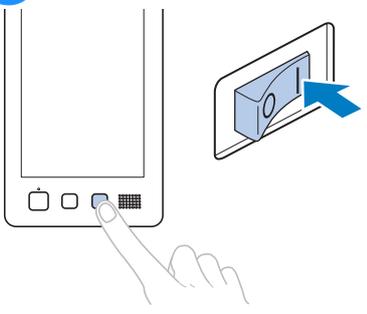
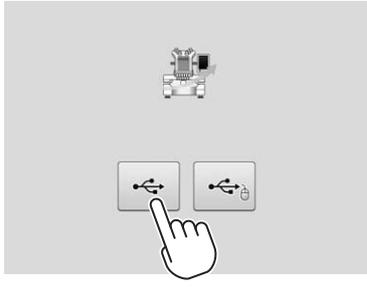
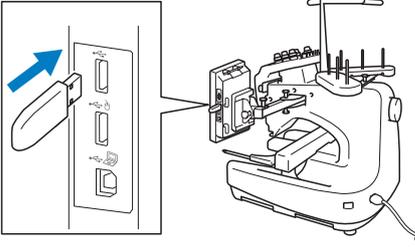
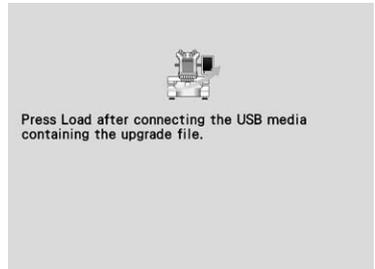
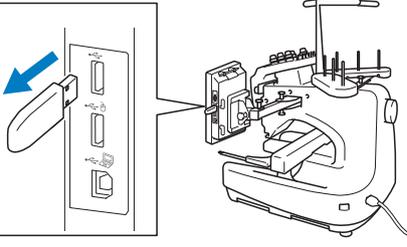
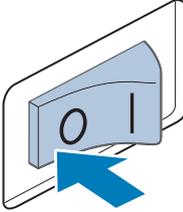
Upgrading Your Machine's Software



Note

- When an upgrade program is available on “ <http://s.brother/cpbac> ”, please download the files following the instructions on the website and steps below.
- Check that no data other than the upgrade file is saved on the USB media being used for this upgrade.
- Compatible operating systems:
Microsoft Windows7, Windows 8.1, Windows 10
- USB media is widely used, however some USB media may not be usable with this machine. Please visit our website for more details.

Upgrade procedure

<p>1</p> 	<p>2</p> 	<p>3</p> 
<p>4</p>  <p>Press Load after connecting the USB media containing the upgrade file.</p> <p>Touch <input type="button" value="Load"/> .</p>	<p>5</p> 	<p>6</p> 



Please visit us at <http://s.brother/cpbac> where you can get product support and answers to frequently asked questions (FAQs).

