



Quick Reference Instruction Guide

Model BLUNA



FOR THE LOVE OF SEWING

To register your machine warranty and receive Baby Lock product updates and offers, go to babylock.com/login. If you have questions with registration, visit your Authorized Baby Lock Retailer.

Baby Lock Consumer Helpline: 800-313-4110

www.BabyLock.com

INTRODUCTION

Thank you for purchasing this 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, cleaning, 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, electrical shock, or injury to persons.

- 2** Always unplug the machine from the electrical outlet, or when making any adjustments mentioned in the instruction 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 there is a power failure.

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 Fire Hazards:

- Do not use flammable substances, any type of spray, or an organic solvent/liquid containing alcohol or ammonia to clean the inside or outside of the product. Doing so could cause a fire.

5 Never operate this machine if it has a damaged cord or plug, if it is not working properly, has been dropped or damaged, or water is spilled on the unit or its accessories. Return the machine to the nearest authorized Baby Lock retailer for examination, repair, electrical or mechanical adjustment.

- 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 carry it by its handle. 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, which may cause a personal injury.

6 Always keep your work area clear:

- Do not install or use in areas where explosive or electrically conductive dusts are generated.
- Never operate the machine with any air openings blocked. Keep ventilation openings of the machine and the foot controller free from the build up of lint, dust, and loose cloth.
- Do not store objects on the foot controller.
- Never drop or insert foreign object into any opening.
- 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 place this machine on an unstable surface, such as an unsteady or slanted table, otherwise the machine may fall, resulting in injuries.

7 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.
- Switch the machine to the symbol "O" position to turn it off when making any adjustments in the needle area.

- Do not use a damaged or incorrect needle plate, as it could cause the needle to break.
- Do not push or pull the fabric when sewing, and follow careful instruction when free motion stitching so that you do not deflect the needle and cause it to break.

8 This machine is not a toy:

- Your close attention is necessary when the machine is used by or near children.
- This product contains small parts. Keep the product out of the reach of children to prevent accidental ingestion of small parts.
- 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 the seam ripper in any other way than how it is intended.
- Do not use outdoors.

9 For a longer service life:

- When using and 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.
- Do not use cleansers or organic solvents, such as thinner, petroleum ether or alcohol, to clean the machine. Otherwise, the finish may peel off or become scratched.
- Always consult the Quick Reference Instruction Guide when replacing or installing any assemblies, the presser feet, needle, or other parts to assure correct installation.

10 For repair or adjustment:

- If the light unit is damaged, it must be replaced by an authorized Baby Lock retailer.
- In the event a malfunction occurs or adjustment is required, first follow the troubleshooting table in the back of the Quick Reference Instruction Guide to inspect and adjust the machine yourself. If the problem persists, please consult your local authorized Baby Lock retailer.

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

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

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

Note that the screens and icons shown in the procedures may differ from the actual ones.

SAVE THESE INSTRUCTIONS

This machine is intended for household use.

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 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 Baby Lock retailer to obtain the correct lead.

Federal Communications Commission (FCC) Supplier's Declaration of Conformity (For U.S.A. Only)

Responsible Party: Tacony Corporation
1760 Gilsinn Lane, Fenton,
Missouri 63026, U.S.A.

declares that the product

Product Name: Baby Lock Sewing Machine
Model Number: BLUNA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the authorized Baby Lock retailer or an experienced radio/TV technician for help.
- This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

IMPORTANT

Changes or modifications not expressly approved by Tacony Corporation could void the user's authority to operate the equipment.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

For Users in Canada

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

For Users in Mexico

The operation of this equipment is subject to the following two conditions:

- (1) it is possible that this equipment or device may not cause harmful interference, and
- (2) this equipment or device must accept any interference, including interference that may cause undesired operation.

Para usuarios en México

La operación de este equipo está sujeta a las siguientes dos condiciones:

- (1) es posible que este equipo o dispositivo no cause interferencias perjudiciales y
- (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Laser Notices

The laser beam emitted by the laser unit installed in this machine is restricted to an output at a safe level. However, the machine contains 6-milliwatt, 630-640 nanometer wavelength, 6-12 degree at parallel divergence angle, 28-40 degree at perpendicular divergence angle, InGaAlP laser diodes. Therefore, eye damage may result from disassembling or altering this machine.

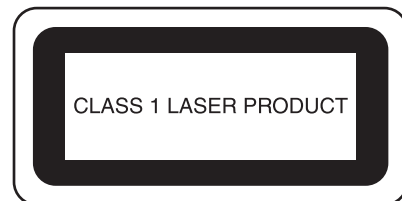
Safety precautions have been designed to prevent any possible laser beam exposure to the operator.

⚠ CAUTION

- The external guideline marker has a Laser module in the Laser Unit. The Laser Unit should not be opened under any circumstances.
- Use of controls, adjustments or the performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

■ For countries except U.S.A. IEC 60825-1 Specification

This product is a Class 1 laser product as defined in IEC 60825-1:2014 specifications.



■ For U.S.A. Laser Safety

This product certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the sewing machine does not produce hazardous laser radiation.

FDA Regulations

U.S. Food and Drug Administration (FDA) has implemented regulations for laser products manufactured on and after August 2, 1976. Compliance is mandatory for products marketed in the United States. The label shown on the back of the sewing machine indicates compliance with the FDA regulations and must be attached to laser products marketed in the United States.

TRADEMARKS

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PRECAUTION FOR WIRELESS CONNECTION

Make sure you use a router or firewall when connecting your machine to the Internet to protect it against unauthorized access from the Internet.

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THE LIST OF THE INSTRUCTION MANUALS

Name	Content	Reference
Quick Reference Instruction Guide (Printed)	Instructions for fundamental usage of this product. Read this document before using the machine.	Printed/Included with the machine
Instruction and Reference Guide (Web)	In addition to the printed Quick Reference Instruction Guide, useful tips, details on functions of the sewing and embroidery, and setting of the machine, are introduced.	Baby Lock support website https://babylock.com/machine-support-and-updates 
Embroidery Design Guide (Web)	A list of the embroidery patterns built in this product.	
Included Accessories	A list of included accessories with this product.	Printed/Included with the machine



In some situations, Web Instruction and Reference Guide may help you.

Our Web Instruction and Reference Guide has information that is useful in the following situations.
Please visit us. <https://babylock.com/machine-support-and-updates>

Memo

- When you see this icon next to a title, you can access more detailed information by viewing the Web Instruction and Reference Guide.



• To know about details of stitch pattern built into this machine

► **Stitch chart**

The stitch chart shows the list of the stitches, its usage, the stitch length and the stitch width.

• How to get tips for making your project better

► **Sewing tips and embroidering attractive finishes**

There are several tips according to your project such as:

- sewing stitches on a curve
- sewing with various fabric
- embroidering heavy fabric

• For Troubleshooting tips

► **Troubleshooting, Error messages**

If an error message appears on the screen or the machine cannot be operated correctly, refer to the list of error messages or troubleshooting tips which explain and solve the possible problems.

• To customize the software settings

► **Settings**

You can change the settings to suit your preference, such as the needle position, automatic thread cutting, and the beep sound.

Outstanding Features

Here are some of the features of this product. For details on their functions, refer to the Instruction and Reference Guide (Web).

■ Sewing

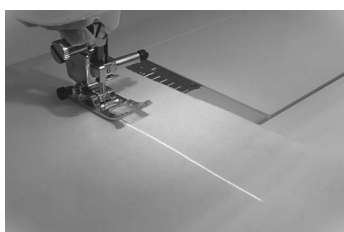
- **Curve sewing mode**

Easier to sew curved lines as the machine changes the pressure of the presser foot according to the needle movement.



- **External guideline marker**

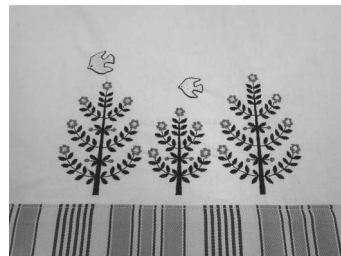
When attaching the external guideline marker, the red guideline indicates the alignment position on the fabric. This guideline is adjustable and allows for inches and metric settings.



■ Embroidery

- **2-point positioning**

This function allows for precise positioning of embroidery patterns.



- **Crochet couching**

By embroidering yarn onto a water-soluble stabilizer and then dissolving it, you can easily create crochet-style items.



- **Matrix copy**

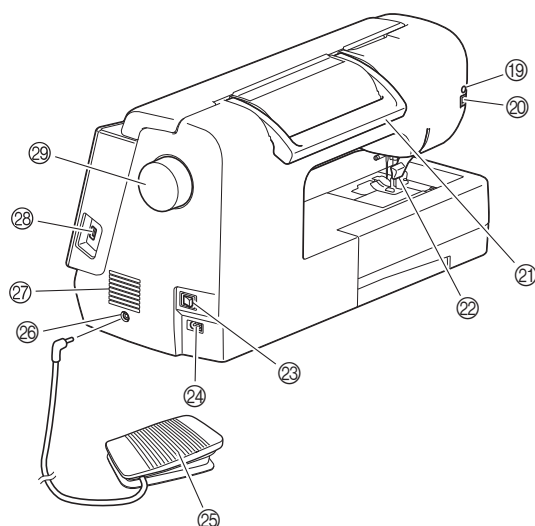
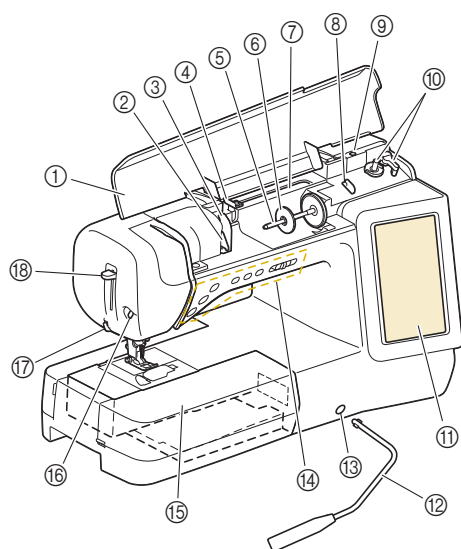
You can place the pattern repeatedly throughout the embroidery area.



Chapter 1 Getting Ready

Names of Machine Parts

■ Main Parts



- ① Top cover
- ② Thread guide plate
- ③ Thread guide cover
- ④ Bobbin winding thread guide and pretension disk
- ⑤ Spool pin
- ⑥ Spool cap
- ⑦ Touch pen (stylus) tray
- ⑧ Bobbin thread cutter
- ⑨ Slot for extra spool pin (page 16)
- ⑩ Bobbin winder
- ⑪ LCD (liquid crystal display) (page 12)
- ⑫ Knee lifter
- ⑬ Knee lifter slot
- ⑭ Operation buttons and sewing speed controller (page 10)
- ⑮ Flat bed attachment with accessory compartment (page 10)
- ⑯ Slot for extension accessory
- ⑰ Thread cutter
- ⑱ Needle threader lever
- ⑲ Jack for extension accessory (page 38)
- ⑳ Connector for extension accessory (page 38)

⑳ Handle

Carry the machine by its handle when transporting the machine.

㉑ Presser foot lever

You cannot use the presser foot lever after the presser foot has been raised using  (Presser foot lifter button).

㉒ Main power switch (page 11)

㉓ Power inlet

㉔ Foot controller (page 21)

㉕ Foot controller jack

㉖ Air vent

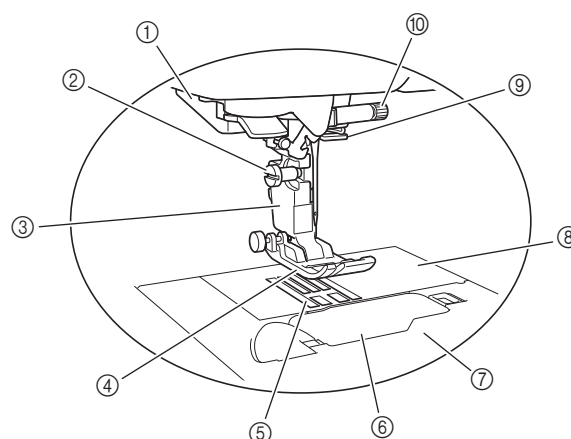
The air vent allows the air surrounding the motor to circulate. Do not cover the air vent while the machine is being used.

㉗ USB port

㉘ Handwheel

Turn the handwheel toward you (counterclockwise) to raise and lower the needle.

■ Needle and Presser Foot Section



① Buttonhole lever

② Presser foot holder screw

③ Presser foot holder

④ Presser foot

The presser foot consistently applies pressure to the fabric as sewing takes place. Attach the appropriate presser foot for the selected stitch.

⑤ Feed dogs

The feed dogs feed the fabric in the sewing direction.

⑥ Bobbin cover

⑦ Needle plate cover

⑧ Needle plate

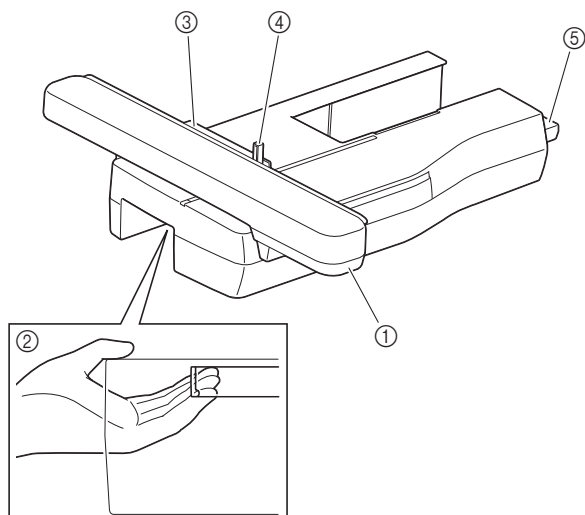
⑨ Needle bar thread guide

⑩ Needle clamp screw

■ Embroidery Unit

Attach this when embroidering. (page 28)

Before attaching or detaching the embroidery unit, turn off the machine.



① Carriage

The carriage moves the embroidery frame automatically when embroidering.

② Release lever (located under the embroidery unit)

Pull the release lever to remove the embroidery unit.

③ Embroidery frame holder

Insert the embroidery frame into the embroidery frame holder to hold the frame in place.

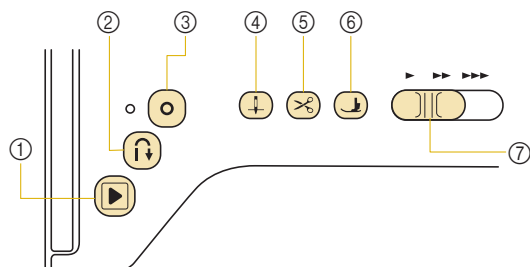
④ Frame-securing lever

Press the frame-securing lever down to secure the embroidery frame.

⑤ Embroidery unit connection

Insert the embroidery unit connection into the connection port when attaching the embroidery unit.

■ Operation Buttons



① "Start/Stop" button

Press the "Start/Stop" button to start or stop sewing. The button changes color according to the machine's operation mode.

Green: The machine is ready or is operating.
If the button flashes green slowly, the machine enters the Power saving mode. (page 11)

Red: The machine is not ready.

Orange: The machine is winding the bobbin thread, or the bobbin winder shaft is moved to the right side.

② Reverse stitch button

Press the reverse button to sew reverse or reinforcement stitches depending on the selected stitch pattern.

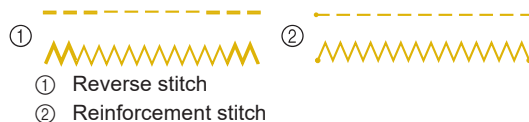
③ Reinforcement stitch button

Press the reinforcement button to sew a single stitch repeatedly and tie-off.

For character/decorative stitches, press this button to end with a full stitch instead of at a mid-point. The LED beside the button automatically lights up while the stitch is being sewn and goes off when sewing is finished.

Memo

- Reverse/Reinforcement stitches are generally necessary at the beginning and end of sewing.



① Reverse stitch

② Reinforcement stitch

④ Needle position button

Press the needle position button to raise or lower the needle position. Pressing the button twice sews a single stitch.

⑤ Thread cutter button

Press the thread cutter button after sewing to automatically trim the excess thread.

⑥ Presser foot lifter button

Press the presser foot lifter button to lower the presser foot and apply pressure to the fabric. Press this button again to raise the presser foot.

⑦ Sewing Speed controller

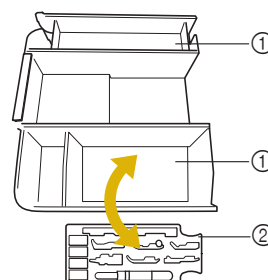
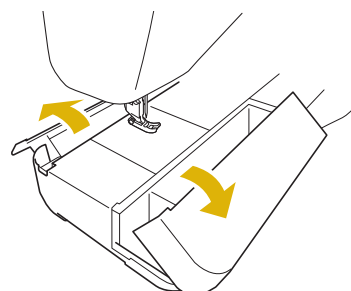
Use the sewing speed controller to adjust the sewing speed. Move the slide to the left to sew at slower speeds. Move the slide to the right to sew at higher speeds.

Included Accessories

For included or optional accessories of your machine, refer to the additional sheet "Included Accessories".

<https://babylock.com/machine-support-and-updates>

Pull the top of the flat bed attachment to open the accessory compartments.



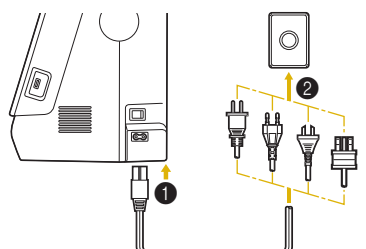
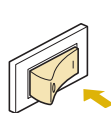
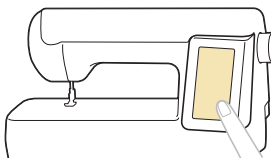
- ① Storage space of the flat bed attachment
- ② Presser foot accessory tray

⚠ 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 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

- Be sure to use the included power cord for 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 Baby Lock retailer for repairs before continuing use.
- (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 electrical 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.

1 Insert the plug of the power cord. 	2 Press the right side of the main power switch to turn the machine on (set it to "I"). 	3 When the opening movie is played, touch anywhere on the screen. 
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💡 Note

- When you first turn on the machine, select the language and proceed with the additional initial settings.
 - ▶ Enabling a Wireless Network Connection (page 13)
- To turn off the machine, press the left side of the main power switch (set it to "O").



■ Power Saving Mode

After a certain time period passes without any operation, the machine will be turned off by the Power saving mode and "Start/Stop" button will flash green slowly. In order to turn the machine on again, press the "Start/Stop" button or touch anywhere on the LCD screen.

📖 Memo

- When you restart to operate the machine from the Power saving mode, your project being edited will be deleted. Save your project if you may not operate the machine for 20 minutes or more.
- The time until when the machine changes into the Power saving mode can be specified with the machine's settings. In the shipping state, this mode is turned on.

LCD Screen

Touch the LCD screen or a key with your finger or the touch pen (stylus) included with the machine to select a machine function.

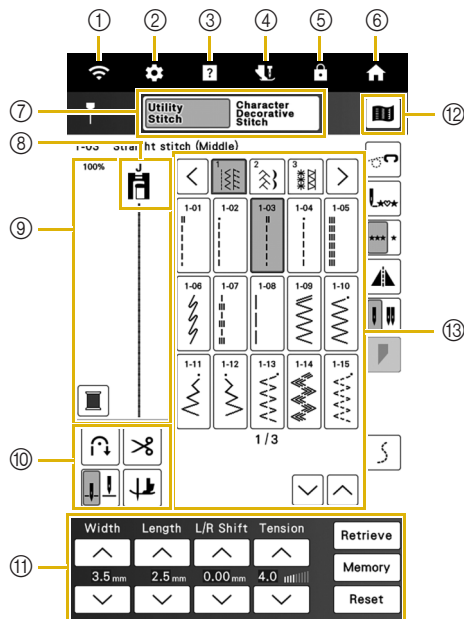
IMPORTANT

- Only touch the screen with your finger or the touch pen (stylus) included with the machine. Do not use a mechanical pencil, screwdriver or any other hard or sharp object. To avoid damage to the screen, do not touch the screen with extreme pressure.

Note

- All or part of the screen may sometimes become darker or lighter due to changes in the surrounding temperature or other changes in the environment. This is not a sign of a malfunction. If the screen is difficult to read, adjust its brightness.

Sewing



Embroidery



- ① **Wireless LAN key**
Shows the machine's signal status. (page 13)
- ② **Setting key**
Customize various machine settings.
- ③ **Help key**
See explanations on how to use the machine.
- ④ **Presser foot/Needle exchange key**
Touch this key before changing the needle, the presser foot, etc. This key locks all key and button functions to prevent operation of the machine.
- ⑤ **Screen lock key**
Lock the screen. When the screen is locked, you can still sew, but cannot change any of the screen functions.
- ⑥ **Home screen key**
Show the home page screen at any time.
- ⑦ **Stitch tab**
Select a stitch pattern from utility stitches or custom character/decorative stitches.
- ⑧ **Presser foot**
Shows the presser foot to be used for the selected stitch pattern.
- ⑨ **Stitch preview**
Shows the preview of the selected stitch pattern.
- ⑩ **Functional keys**
Touch the key to use the automatic reinforcement stitching (reverse stitching) setting, automatic reverse thread cutting function, needle stop position to be up or down, or pivot function.
- ⑪ **Stitch adjustment area**
Shows the stitch width, the stitch length, "L/R Shift" (the stitch position), and the thread tension of the selected stitch pattern. You can also adjust them by using the keys.
- ⑫ **Image key**
Display an enlarged image of the selected stitch pattern.

- ⑬ **Stitch selection area**
Select a stitch pattern.
- ⑭ **Embroidery pattern selection area**
Select an embroidery pattern.
- ⑮ **Patterns saved in the machine's memory, USB media, etc.**
- ⑯ **Embroidery unit initialization key**
Touch this key to position the embroidery unit for storage.



Wireless Network Connection

■ Requirements for a Wireless Network Connection

The wireless network connection complies with IEEE 802.11 b/g/n standards and requires the 2.4 GHz frequency.

Memo

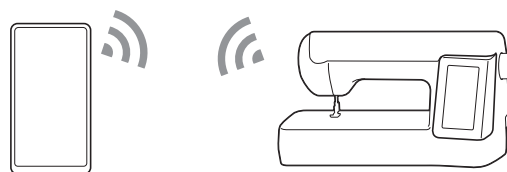
- A wireless network cannot be set up with WPA/WPA2/WPA3 Enterprise.

■ Operations Available with a Wireless Network Connection

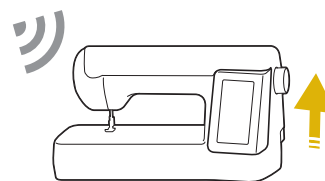
This machine supports a wireless network connection. The following useful operations will be available if the machine is connected to a wireless network.

Note

- Connect the machine and your computer or mobile device to the same network.
- Conveniently check the operating status of the machine from your mobile device by using the dedicated mobile application (IQ Intuition Monitoring).



- Directly download the update file to the machine.



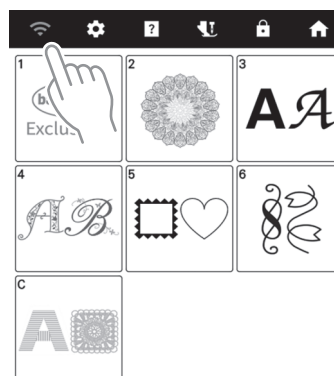
Enabling a Wireless Network Connection

1 Find your security information (SSID and network key) and note it.

* Connect the machine and your computer or mobile device to the same network.

SSID	Network Key (Password)

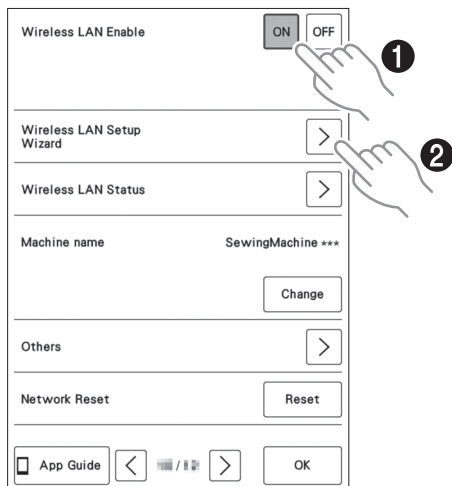
2 Touch the WLAN key as show below.



 Always press when removing embroidery unit.

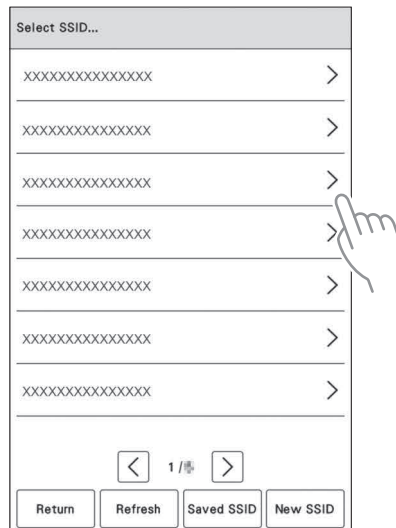


3



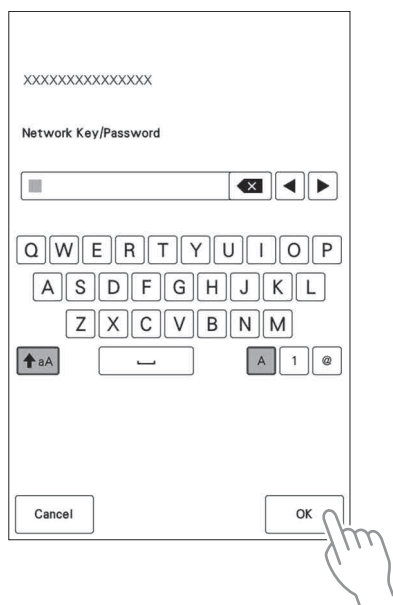
4

Touch > beside the SSID that was noted.

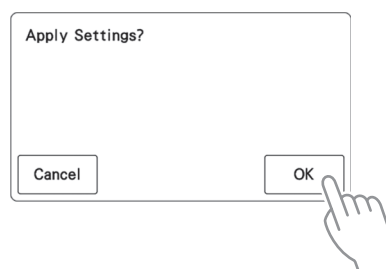


5

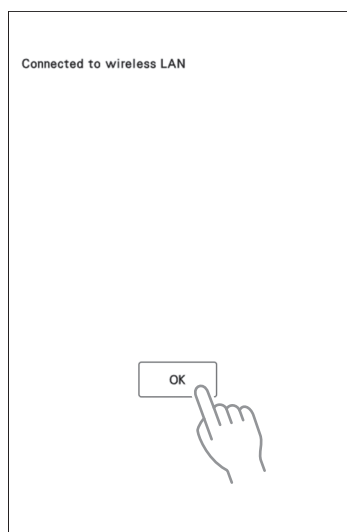
Enter the network key (password) that was noted, and then touch [OK].



6

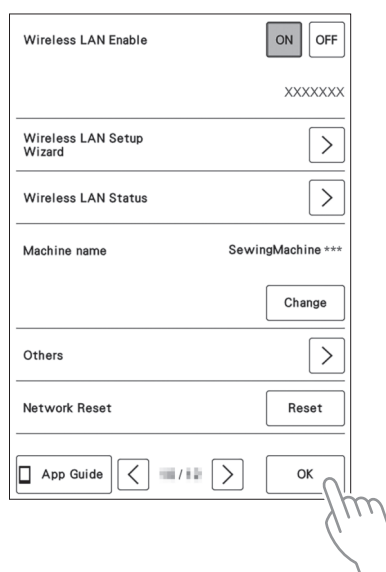


7



8

Touch [OK] to exit the setup.



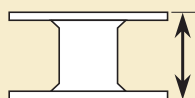
Winding/Installing the Bobbin

Winding the Bobbin

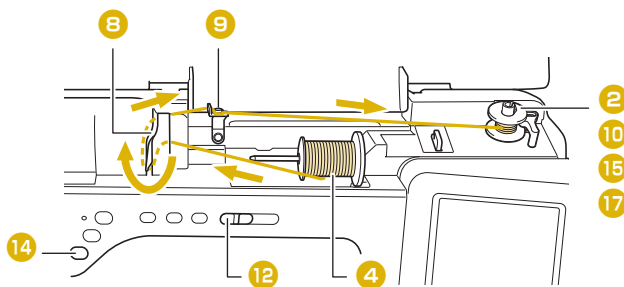
⚠ CAUTION

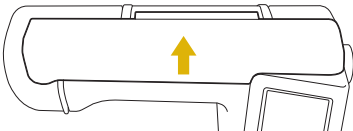
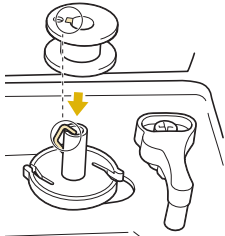
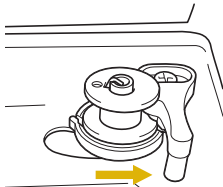
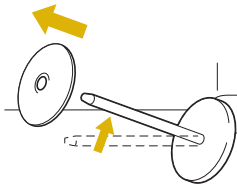
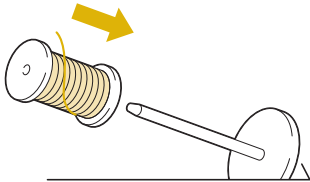
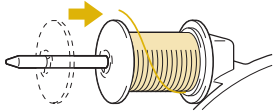
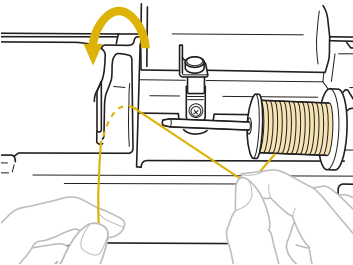
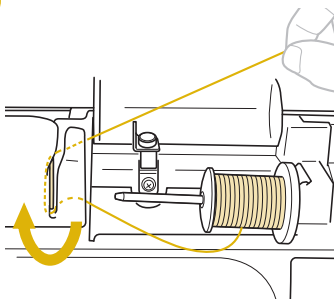
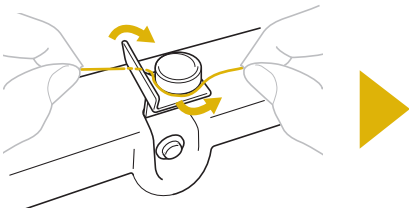
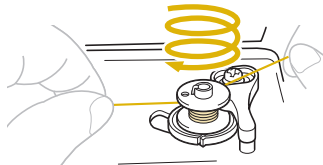
- Cut the thread as described. If the bobbin is wound without cutting the thread using the cutter built into the guide slit in the bobbin winder seat, the thread may become tangled in the bobbin or the needle may break and cause injury when the bobbin thread starts to run out.

Use the plastic bobbins that came with this machine or bobbins of the same type: 11.5 mm (approx. 7/16 inch) plastic Class 15 (A style) bobbins, which are available from your Baby Lock retailer.

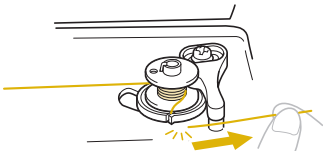
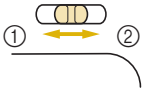
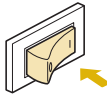
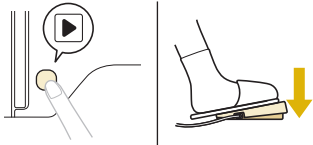
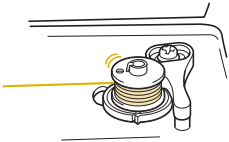
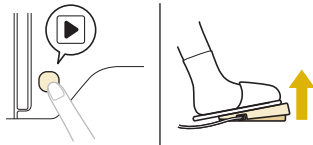
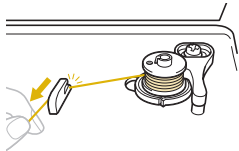
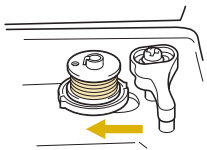
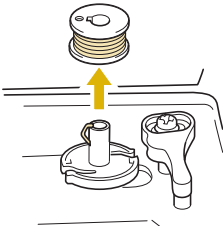


11.5 mm
(approx. 7/16 inch)



1 Open the top cover. 	2 	3 
4 	5 	6 Select an appropriate spool cap. (page 17) 
7 	8 	
9 	10 Wind the thread clockwise around the bobbin 5 or 6 times. 	

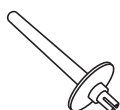


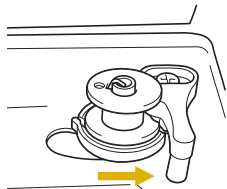
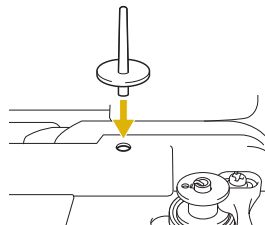
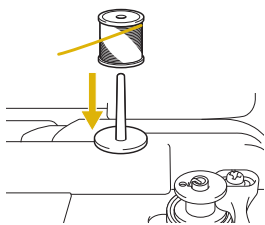
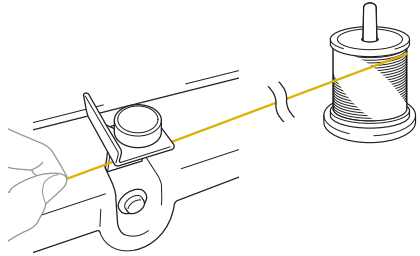
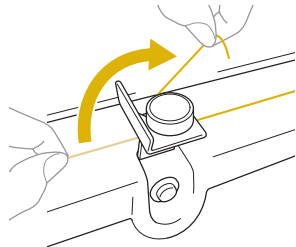
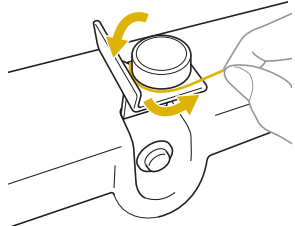
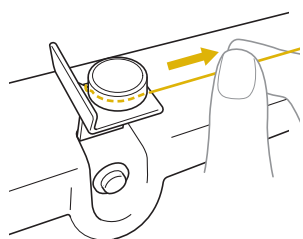
11 Cut the excess thread with the cutter. 	12 Adjust the sewing speed.  ① Slow ② Fast	13 
14 Start the machine. 	15 Wind the bobbin until the speed decreases. 	16 Stop the machine. 
17 Cut the thread with the cutter. 	18 	19 

■ Winding the Bobbin without Removing the Upper Thread

With the extra spool pin, you can wind the bobbin without removing the upper thread.

Prepare the extra spool pin.



Prepare the extra spool pin. 	1 Set the bobbin to be wound referring to steps 1-3 on the previous page. 	2 
3 	4 Pull the thread to pass it under the bobbin winding guide. 	5 Pass the thread clockwise around the bobbin winding guide. 
6 	7 	8 Wind the bobbin to referring to steps 9-19 on the previous page. 

■ How to Select a Spool Cap

Select a spool cap or thread spool insert (mini king thread spool) depending on the spool being used.

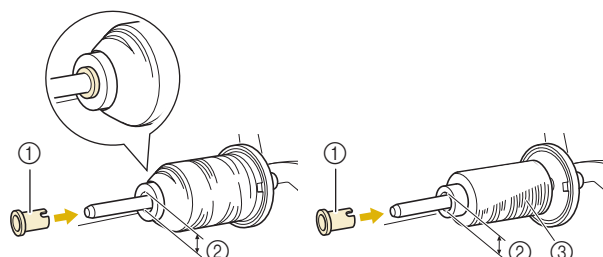
• Spool cap

Three spool cap sizes are available, allowing you to choose a spool cap that best fits the size of spool being used.



• Thread spool insert (mini king thread spool)

When using the spool as shown below, use the thread spool insert (mini king thread spool). Make sure that the thread spool insert is firmly inserted. After installing it, pull out some thread, and check that the thread unwinds without getting caught.



- ① Thread spool insert (mini king thread spool)
- ② Hole diameter 8.0 mm to 10.5 mm (approx. 5/16 inch to 13/32 inch)
- ③ Spool (cross-wound thread)

• Spool net

When using thread that winds off quickly, such as transparent nylon thread or metallic thread, place the spool net over the spool before placing the spool of thread onto the spool pin. If the spool net is too long, fold it to fit the size of the spool.



IMPORTANT

- If the spool or the spool cap is not installed correctly, the thread may become tangled around the spool pin, and the machine may be damaged.
- Select an appropriate spool cap. If the spool cap is too small for the spool being used, the thread may catch on the slit in the spool or the machine may be damaged.
- When winding transparent nylon thread on the bobbin, stop bobbin winding when the bobbin is 1/2 to 2/3 full. If the bobbin was fully wound with transparent nylon thread, it may not be wound neatly, or sewing performance may suffer. In addition, extreme pressure may be applied to the bobbin, it may not be possible to remove the bobbin from the bobbin winder shaft, or the bobbin may break.



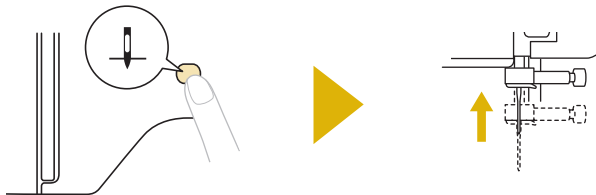
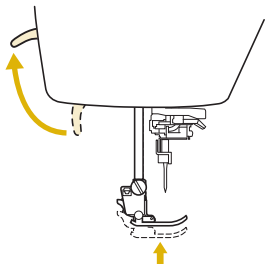
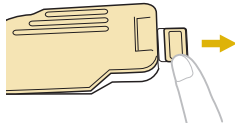
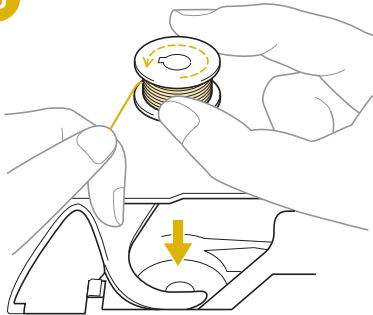
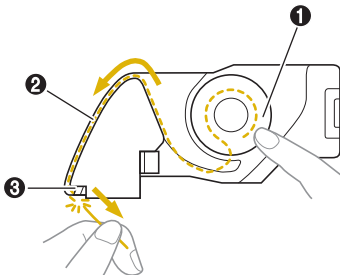
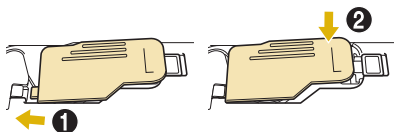
- When removing the bobbin, do not pull on the bobbin winder seat. Doing so could loosen or remove the bobbin winder seat, and could result in damage to the machine.

⚠ CAUTION

- Use a bobbin that has been correctly wound with thread (page 15). Do not use the bobbin wound loosely. Otherwise, the needle may break or the thread tension will be incorrect.

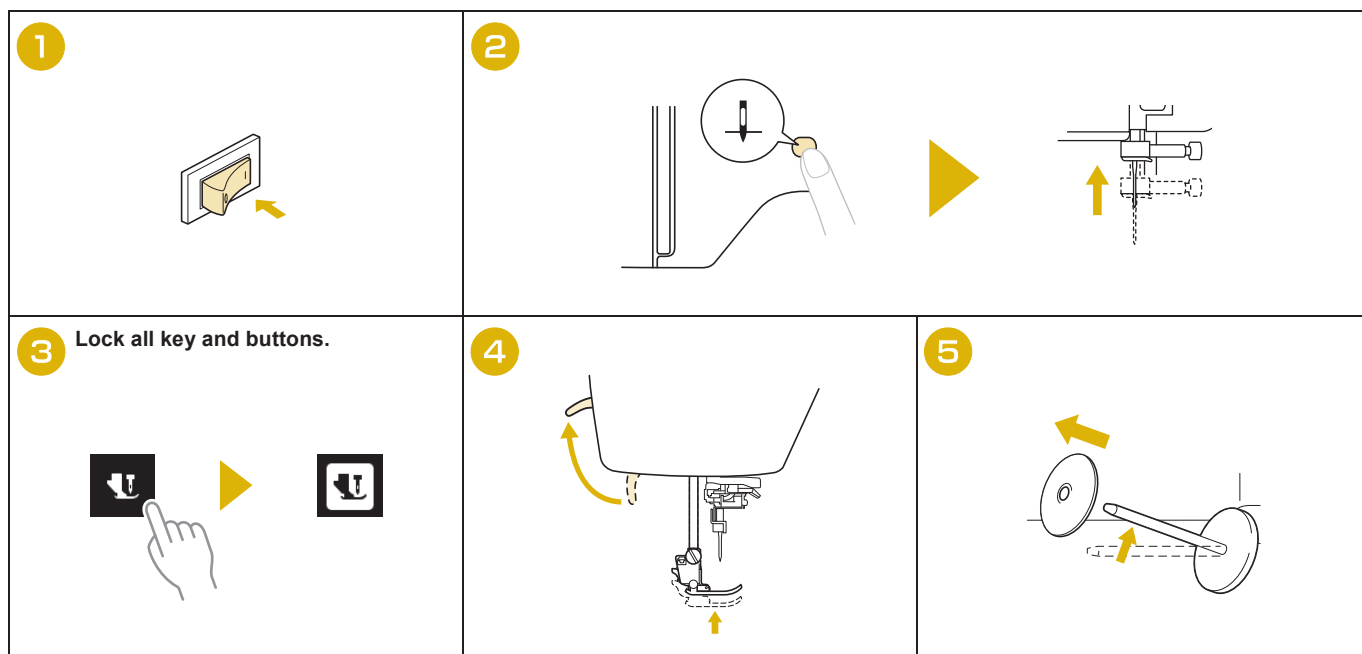
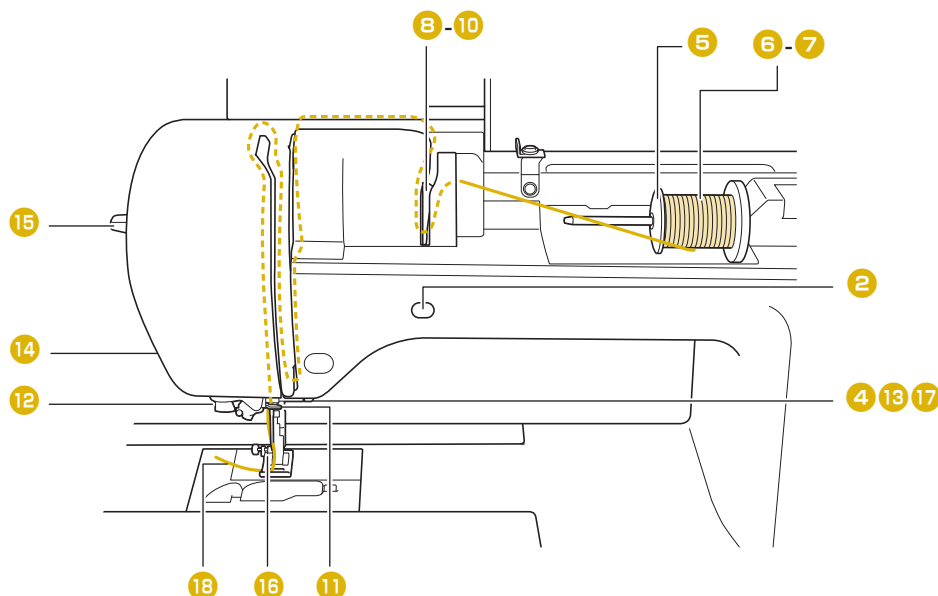


- Before inserting or changing the bobbin, be sure that you have touched  on the operation panel to lock all keys and buttons, otherwise injuries may occur if the “Start/Stop” button or any other button is pressed and the machine starts.
- Be sure to hold down the bobbin with your finger and unwind the bobbin thread correctly, otherwise the thread may break or the thread tension will be incorrect.

1 	2 Lock all key and buttons. 	
3 Raise the presser foot lever. 	4 	5 
6 	7 	8 Unlock the keys and buttons. 

⚠ CAUTION

- When threading the upper thread, carefully follow the instructions. If the upper threading is not correct, the thread may become tangled or the needle may bend or break.
- Never use a thread weight of 20 or lower.
- Use the needle and the thread in the correct combination. For details on the correct combination of needles and threads, refer to “Fabric/Thread/Needle Combinations” on page 35.
- When threading the needle, be sure that you have touched  on the operation panel to lock all keys and buttons, otherwise injuries may occur if the “Start/Stop” button or any other button is pressed and the machine starts.





6	7	8
9	10	Note When threading the machine, make sure to raise the presser foot and check that the thread is correctly passed into the take-up lever.
11		
12		13
14	15	16
17	18	19 Unlock the key and buttons.

① About 10 cm (approx. 4 inches)

Chapter 2 Sewing

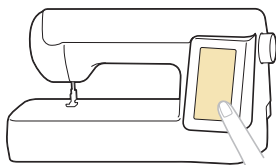
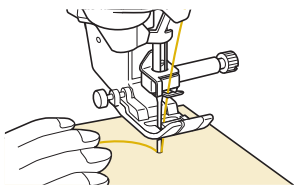
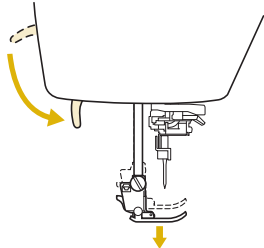
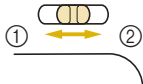
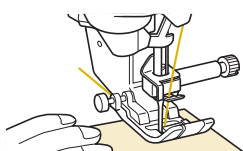
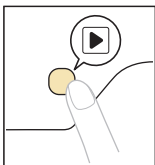
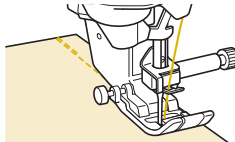
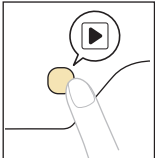
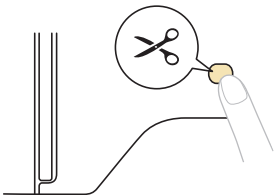
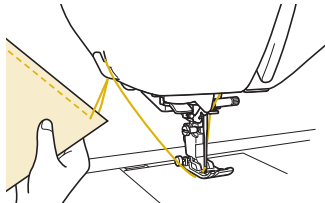
Basic Sewing

⚠ CAUTION

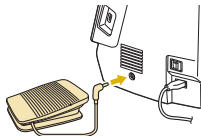
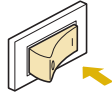
- To avoid injury, pay special attention to the needle while the machine is in operation. Keep your hands away from moving parts while the machine is in operation.
- Do not stretch or pull the fabric during sewing. Doing so may lead to injury.
- Do not use bent or broken needles. Doing so may lead to injury.
- Do not attempt to sew over basting pins or other objects during sewing. Otherwise, the needle may break and cause injury.
- Do not sew fabric more than 6 mm (approx. 15/64 inch) thick or forcefully push fabric. Otherwise, the needle may break, possibly resulting in injury.

IMPORTANT

- If stitches become bunched, lengthen the stitch length setting before continuing sewing (page 24). Otherwise, the needle may break and cause injury.

1 Touch to select a stitch.  Use the correct presser foot. (page 25)	2 Set the fabric under the presser foot and lower the needle. 	3 Lower the presser foot. 
4 Adjust the sewing speed.  ① Slow ② Fast	5 Start sewing. Gently guide the fabric by hand.  	6 Stop sewing.  
7 Trim the upper and lower threads.  Note • When cutting thread thicker than #30, nylon monofilament thread, or other decorative threads, use the thread cutter on the side of the machine. 		

■ Using the Foot Controller

1 	2 	3 	4 
---	---	--	---

📌 Memo

- (For U.S.A. only) Foot controller: Model T
This foot controller can be used on the machine model: BLUNA. The product code is mentioned on the machine rating plate.

Checking the Thread Tension

You may need to change the thread tension, depending on the fabric and thread being used. Follow the steps below to make any necessary changes.



Touch , to tighten the upper thread.

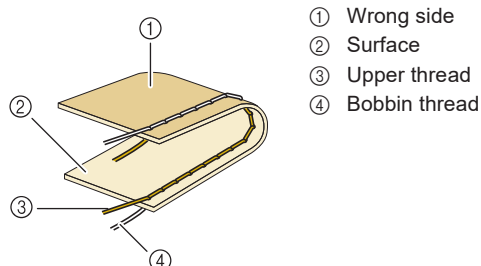
Touch , to loosen the upper thread.

Memo

- Touch  to return the thread tension to the original setting.

■ Proper Thread Tension

The upper thread and the bobbin thread should cross near the center of the fabric. Only the upper thread should be visible from the right side of the fabric, and only the bobbin thread should be visible from the wrong side of the fabric.



- ① Wrong side
- ② Surface
- ③ Upper thread
- ④ Bobbin thread

Memo

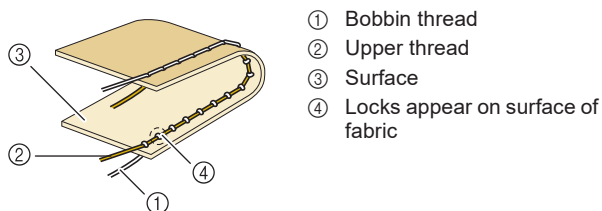
- Many decorative stitches and satin stitches are designed so that the upper thread wraps to the back slightly for a more attractive finish.

■ Upper Thread Is Too Tight

If the bobbin thread is visible from the right side of the fabric, the upper thread is too tight.

Note

- If the bobbin thread was incorrectly threaded, the upper thread may be too tight. (page 18)



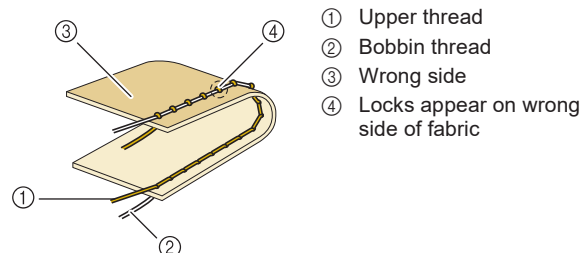
- ① Bobbin thread
- ② Upper thread
- ③ Surface
- ④ Locks appear on surface of fabric

■ Upper Thread Is Too Loose

If the upper thread is visible from the wrong side of the fabric, the upper thread is too loose.

Note

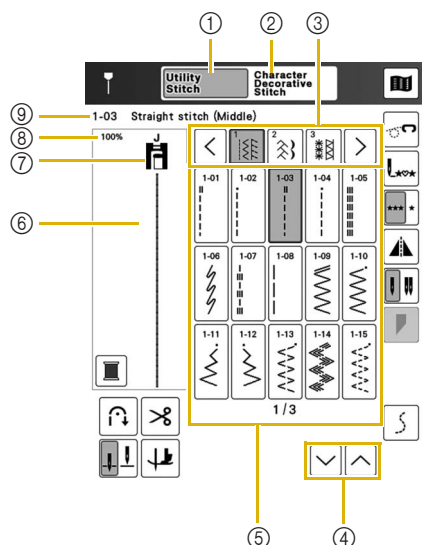
- If the upper thread was incorrectly threaded, the upper thread may be too loose. (page 19)



- ① Upper thread
- ② Bobbin thread
- ③ Wrong side
- ④ Locks appear on wrong side of fabric

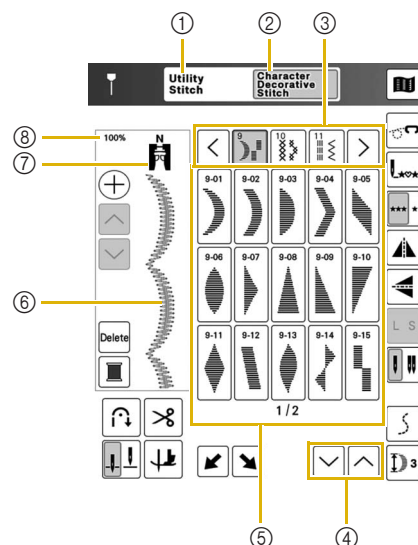
Stitch Selection

Utility Stitch Screen



- ① **Utility stitch key**
Select a straight stitch, zigzag stitch, buttonhole, blind hem stitch, or other stitch (utility stitch) commonly used in garment making.
- ② **Character/Decorative stitch key**
Select character or decorative stitch patterns.
- ③ **Category keys**
Select the category of the stitch.
Touch < > to view other categories.
- ④ **Page key**
Move the pages of the stitch selection area.
- ⑤ **Stitch selection area**
Select a stitch pattern.
- ⑥ **Stitch preview**
Shows the preview of the selected stitch pattern.
- ⑦ **Presser foot**
Shows the presser foot to be used for the selected stitch pattern.
- ⑧ **Stitch pattern display size**
Shows the approximate size of the selected stitch pattern.
- ⑨ **Stitch name**
Shows the selected stitch name.

Character/Decorative Stitch Screen



Stitch pattern category

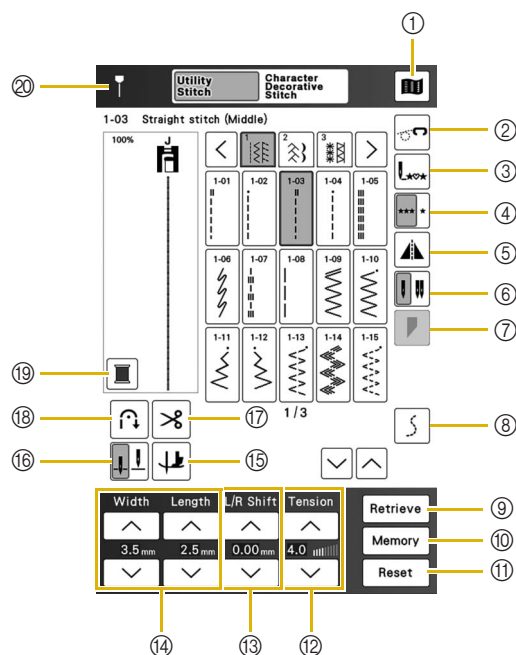
Utility stitches

- 1 : Straight/Overcasting stitches
- 2 : Decorative stitches
- 3 : Heirloom stitches
- 4 : Buttonholes/Bar tacks
- 5 : Multi-directional
- 6 : Sewing quilting stitches
- 7 : Stitch tapering

Character/Decorative stitches

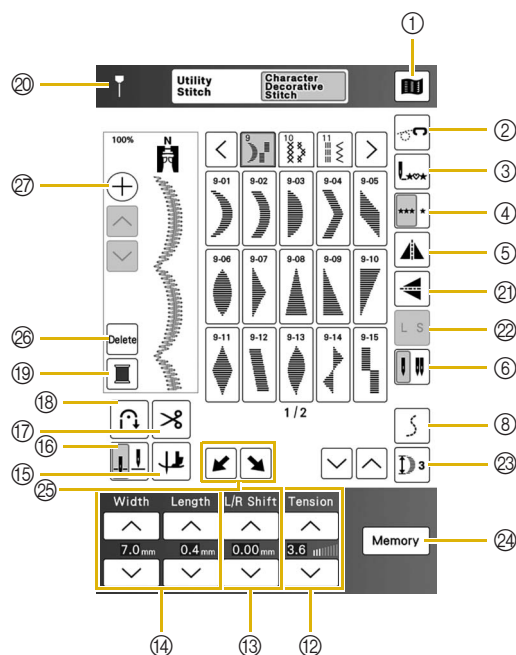
- 8 : Decorative stitch patterns
- 9 : 7mm decorative stitch patterns
- 10 : Satin stitch patterns
- 11 : 7mm satin stitch patterns
- 12 : Cross stitch
- 13 : Utility decorative stitch patterns
- 14 : Alphabet characters (gothic font)
- 15 : Alphabet characters (handwriting font)
- 16 : Alphabet characters (outline)
- 17 : Cyrillic font
- 18 : Japanese font
- 19 : Stitch patterns that you saved in the machine's memory, USB media, etc.

Utility Stitch Screen



- ① **Image key**
Display an enlarged image of the selected stitch pattern.
- ② **Free motion mode key**
Enter free motion sewing mode.
- ③ **Back to beginning key**
When sewing is stopped, return to the beginning of the stitch pattern.
- ④ **Single/Repeat sewing key**
Select single stitches or continuous stitches.
- ⑤ **Horizontal mirror image key**
Create a horizontal mirror image.
- ⑥ **Needle mode selection key**
Select a needle mode (single/twin).
- ⑦ **Stitch tapering key**
Change the start and end angles of the stitch pattern.
- ⑧ **Curve sewing mode key**
Set the function to assist with curve sewing.
- ⑨ **Retrieve key**
Retrieve a saved stitch pattern.
- ⑩ **Manual memory key**
Save the stitch settings changed manually.
- ⑪ **Reset key**
Return the stitch settings to the default.
- ⑫ **Thread tension**
- ⑬ **"L/R Shift"**
- ⑭ **Stitch width and stitch length**
- ⑮ **Pivot key / Auto up key**
Touch this key to automatically raise the presser foot when the machine is stopped.
While the pivot function is turned on, the presser foot is automatically lowered when sewing is restarted.
- ⑯ **Needle stop position setting key**
Touch this key to select the needle stop position to be up or down. You can also check the needle mode setting (single or twin).
- ⑰ **Automatic thread cutting key**
Trim the threads at the end of stitching.
- ⑱ **Automatic reverse/reinforcement stitch key**
The machine will automatically sew reinforcement stitches at the beginning and end of sewing (depending on the stitch pattern, the machine may sew reverse stitches).
- ⑲ **Thread color change key**
Change the thread color in the image.

Character/Decorative Stitch Screen



- ⑳ **Guideline marker key**
Shows the status of the external guideline marker. (page 26)
When attaching the external guideline marker, touch the key to turn on/off the guideline.
- ㉑ **Vertical mirror image key**
Create a vertical mirror image of the stitch pattern.
- ㉒ **Size selection key**
Select the size of the decorative stitch pattern or character stitch pattern (large, small).
- ㉓ **Keys appearing depending on the selected stitch**
Elongation key
When 7 mm satin stitch patterns are selected, you can choose from 5 automatic length settings.
Thread density key
Change the thread density when selecting a satin stitch pattern.
Character spacing key
Change the spacing of character stitch patterns.
- ㉔ **Memory key**
Save stitch pattern combinations.
- ㉕ **Step stitch keys**
Make step stitch patterns.
- ㉖ **Delete key**
Delete the selected stitch pattern.
- ㉗ **Add stitch pattern key**
Touch this key when you want to combine decorative stitch patterns and/or character stitch patterns.

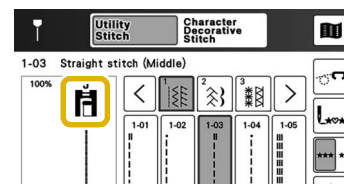
This section shows the fundamental presser feet included with this product and stitches which you have to select from with the specific presser foot.

⚠ CAUTION

- Before replacing the presser foot, touch to lock all keys and buttons, otherwise injuries may occur if the machine accidentally starts.
- Use the appropriate presser foot for the type of stitch that you wish to sew. Otherwise, the needle may break, possibly resulting in injury.

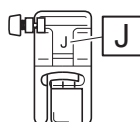
💡 Note

- When a stitch is selected, the icon for the presser foot that should be used appears in the screen. Check that the correct presser foot is attached before starting to sew. If the wrong presser foot is installed, attach the appropriate presser foot. (page 37)



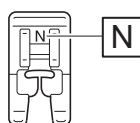
Zigzag foot “J”

Sews straight stitches, zigzag stitches, and some utility stitches.



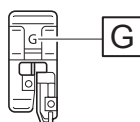
Monogramming foot “N”

Sews character stitches and decorative stitches.



Overcasting foot “G”

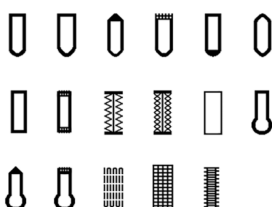
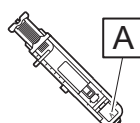
Sews overcasting stitches along the edges of cut fabric to prevent them from fraying.



Buttonhole foot “A”

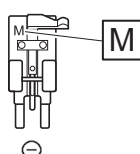
This presser foot is used for making buttonholes or darning.

The maximum buttonhole length is about 28 mm (approx. 1 - 1/8 inches) (diameter + thickness of the button).



Button fitting foot “M”

Buttons can be sewn on with the machine. Buttons with two or with four holes can be attached.



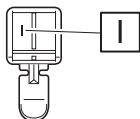
IMPORTANT

- Pull the fabric backward after finished sewing. Otherwise, the presser foot pin may be damaged.

⚠ CAUTION

- When opening the buttonhole with the seam ripper, do not place your hands in the cutting direction, otherwise injuries may result if the seam ripper slips.

Zipper foot “I”

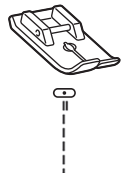


Zipper can be inserted. Use the center straight stitch with this presser foot.

Note

- When using zipper foot “I”, make sure the straight stitch, middle needle position is selected. Rotate the handwheel toward you (counterclockwise) to make sure the needle does not strike the presser foot.

Straight stitch foot



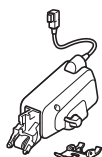
The straight stitch foot reduces puckering on lightweight fabrics. The small opening on the foot provides support for the fabric as the needle travels through the fabric. Use the center straight stitch with this presser foot.

Always use the straight stitch foot in combination with the straight stitch needle plate.

Note

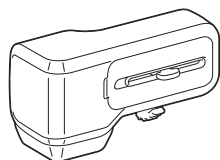
- When using the straight stitch foot, make sure the straight stitch, middle needle position is selected. Rotate the handwheel toward you (counterclockwise) to make sure the needle does not strike the presser foot.

Compact digital dual feed foot



The compact digital dual feed foot enables you to have best fabric control when sewing difficult fabrics that slip easily, such as quilted fabrics or fabrics that tend to stick to the bottom of a presser foot, such as vinyl, leather or synthetic leather.

External Guideline Marker



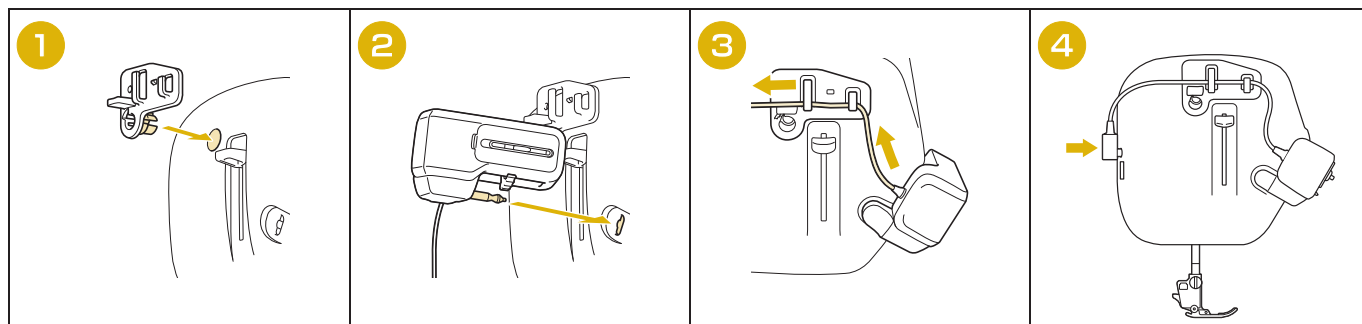
The red guideline indicates the sewing position on the fabric. You can adjust the sewing position by moving the lever of the external guideline marker while checking the guideline on the fabric.

To use this accessory, adjust the guideline's orientation with the corrector at the bottom then the position with the slider in front.

WARNING

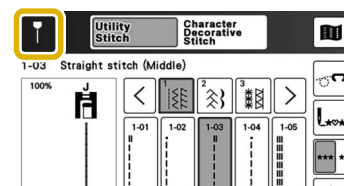
- The guideline marker is a laser; therefore, do not stare at the laser light directly. Otherwise it may cause blindness.

Attaching the External Guideline Marker



Indicator for the Guideline Marker

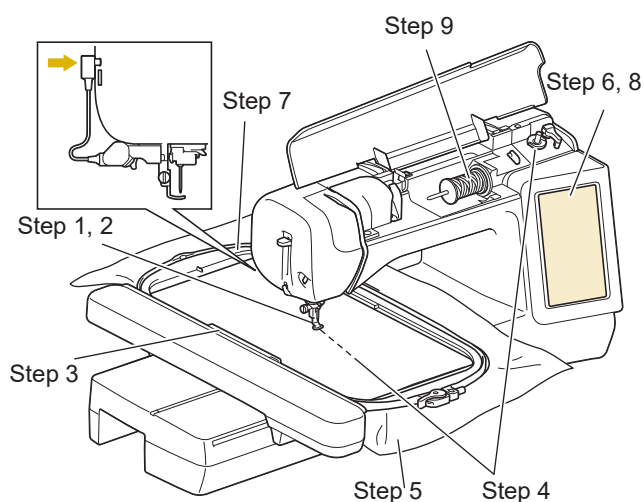
- : The guideline is turned off. Touch the key to turn on the guideline.
- : The guideline is turned on. Touch the key to turn off the guideline.
- : The external guideline marker is not connected to the machine.



Chapter 3 Embroidery

Embroidery Step by Step

Follow the steps below to prepare the machine for embroidery.



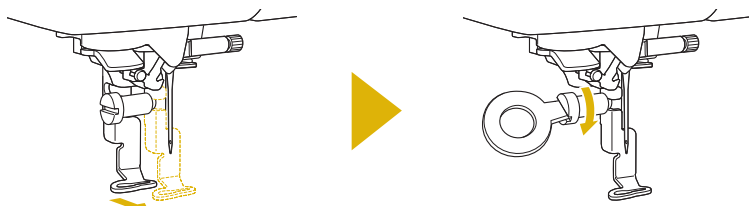
Step #	Aim	Action	Page
1	Embroidery foot attachment	Attach embroidery foot "UH +" with LED pointer.	27
2	Checking the needle	Use needle 75/11 for embroidery.	36
3	Embroidery unit attachment	Attach the embroidery unit.	28
4	Bobbin thread setup	Wind the embroidery bobbin thread and set the bobbin in place. Use the included 60 weight embroidery bobbin thread or recommended 60 weight embroidery bobbin thread.	15
5	Fabric preparation	Attach a stabilizer material to the fabric, and hoop it in the embroidery frame.	29
6	Pattern selection	Turn the main power to ON, and select an embroidery pattern.	31
7	Embroidery frame attachment	Attach the embroidery frame to the embroidery unit.	30
8	Checking the layout	Check and adjust the size and position of the embroidery.	32
9	Upper embroidery thread setup	Set up embroidery upper thread according to the pattern. Use embroidery thread intended for use with this machine.	33

Attaching the Embroidery Foot

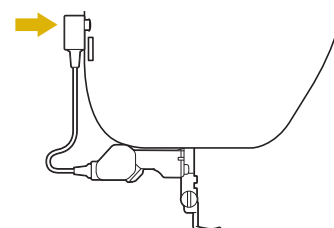
⚠ CAUTION

- When attaching an embroidery foot, always touch  on the screen. You may accidentally press the "Start/Stop" button and possibly cause injury.
- Be sure to use the embroidery foot "UH" or embroidery foot "UH+" with LED pointer when doing embroidery. Otherwise, the needle may strike the embroidery foot, breaking the needle and causing injuries.

- 1 Remove the presser foot and presser foot holder (page 38), then attach the embroidery foot.



- 2 Insert the plug of the embroidery foot "UH+" with LED pointer.



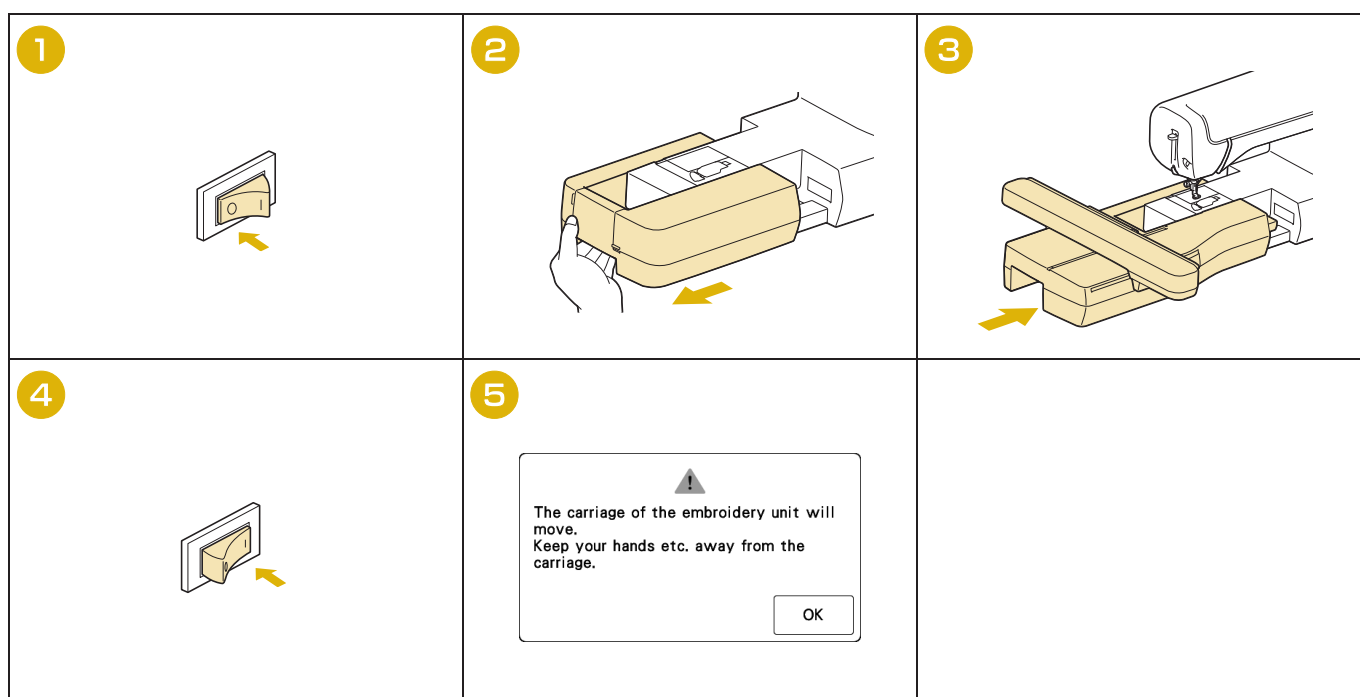
Attaching the Embroidery Unit

⚠ CAUTION

- Do not move the machine with the embroidery unit attached. The embroidery unit could fall off and cause injury.

IMPORTANT

- Keep your hands and foreign objects away from the embroidery carriage and frame when the machine is embroidering. Damage or malfunction may result.
- Be sure to turn off the power before attaching or removing the embroidery unit. Otherwise, the machine may be damaged.
- Do not touch the inner connector of the embroidery unit. The pins on the embroidery unit connection may be damaged.
- Do not apply strong force to the embroidery unit carriage or pick up the unit by the carriage. Otherwise, the embroidery unit may be damaged.
- Do not push on the carriage when attaching the embroidery unit onto the machine. Moving the carriage may damage the embroidery unit.
- Make sure that there is enough space for the carriage of the embroidery unit to move. If the embroidery frame comes into contact with an object, the pattern may not be embroidered correctly, or damage may result.
- Do not touch the embroidery carriage until the initialization finishes.

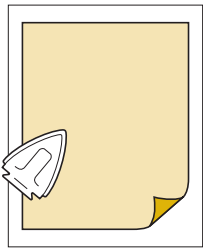
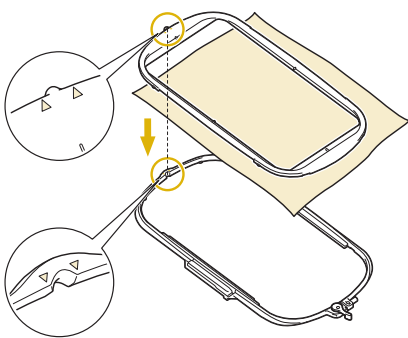
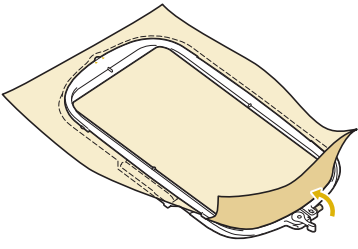
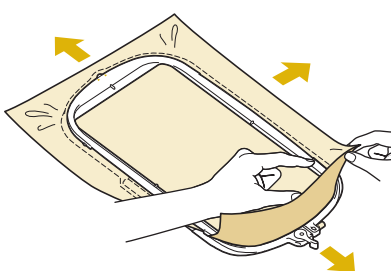
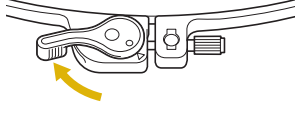


Hooping the Embroidery Frame

In this procedure, the embroidery frame 360 mm x 200 mm (approx. 14 inches x 8 inches) is used as an example.

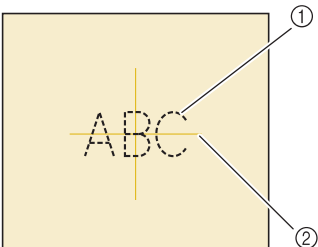
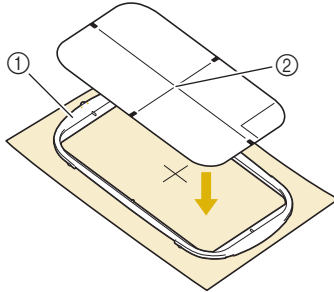
⚠ CAUTION

- Use fabrics with a thickness of less than 2 mm (approx. 1/16 inch). Using fabrics thicker than 2 mm (approx. 1/16 inch) may cause the needle to break, possibly resulting in injury.
- Always use a stabilizer material for embroidery when embroidering stretch fabrics, lightweight fabrics, fabrics with a coarse weave, or fabrics which cause pattern shrinkage. Otherwise, the needle may break and cause injury.

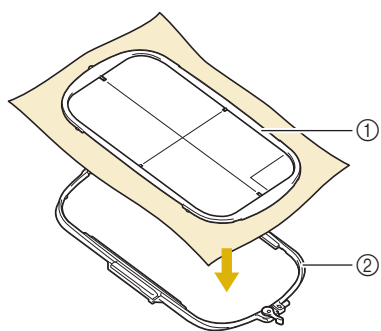
1 Attach stabilizers to the wrong side of the fabric. 	2 Loosen the lever and the screw on the frame. 	3 
4 Tighten the screw slightly. 	5 Gently smooth out the fabric. 	6 Tighten the lever. 

Positioning the Embroidery Pattern (Using the Embroidery Sheet)

When you want to embroider the pattern in a particular place, use the embroidery sheet with the frame.

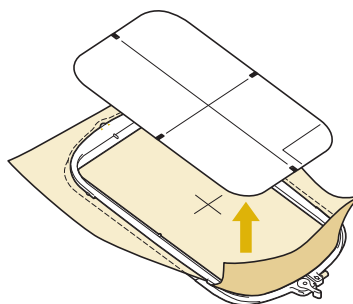
1 With a chalk pencil, mark the area of the fabric you want to embroider.  ① Embroidery pattern ② Mark	2 Place the embroidery sheet on the inner frame. Align the guide lines on the embroidery sheet with the mark you made on the fabric.  ① Inner frame ② Guide line
--	---

3 Gently stretch the fabric so there are no folds or wrinkles, and press the inner frame into the outer frame.



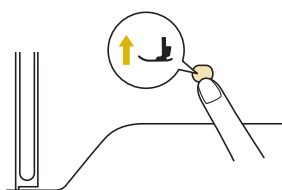
- ① Inner frame
- ② Outer frame

4 Remove the embroidery sheet.

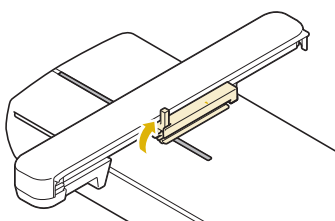


Installing the Embroidery Frame

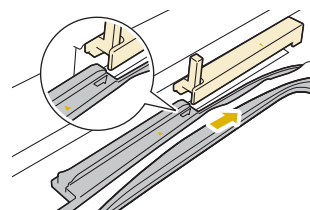
1



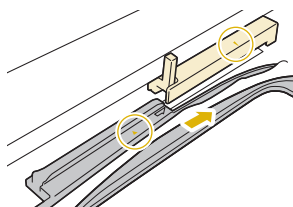
2



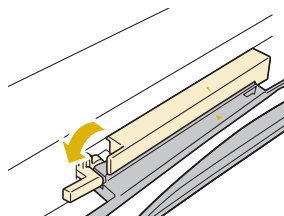
3



4



5

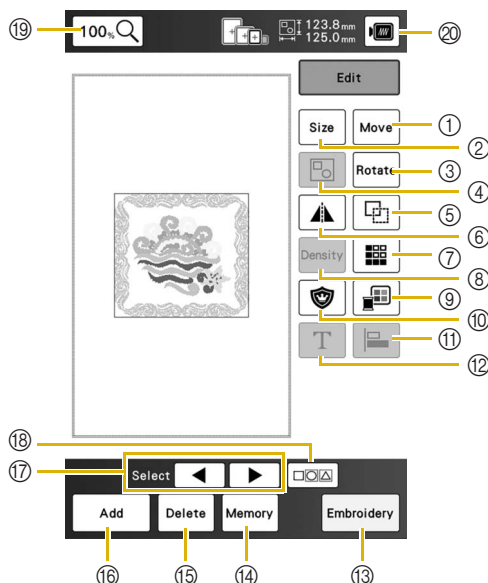


Embroidery

After selecting an embroidery pattern, you can edit the embroidery pattern.

Embroidery Edit Screen

After selecting an embroidery pattern, touch [Edit] to edit the embroidery pattern or add another embroidery pattern.

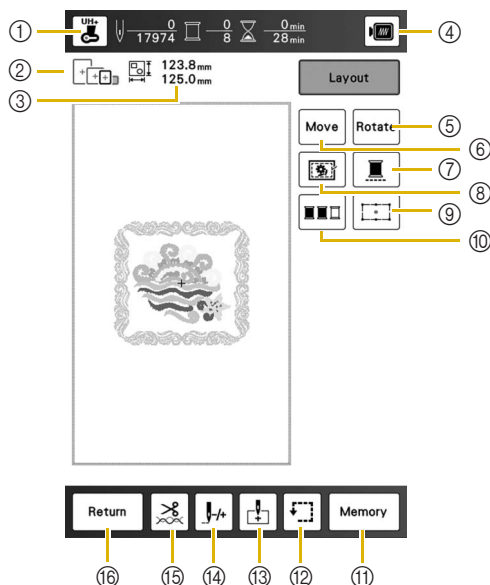


- ① **Move key**
Move the pattern.
- ② **Size key**
Enlarge or decrease the pattern.
- ③ **Rotate key**
Rotate the pattern.
- ④ **Group key**
Group selected multiple patterns.
- ⑤ **Duplicate key**
Duplicate the pattern.
- ⑥ **Horizontal mirror image key**
Change the pattern to a horizontal mirror image.
- ⑦ **Border key**
Make the repeated pattern.
- ⑧ **Density key**
Change the density of the pattern.
- ⑨ **Thread palette key**
Change the thread color.
- ⑩ **Appliqué key**
Create an appliqué outline of the pattern.
- ⑪ **Alignment key**
Align the selected multiple patterns.
- ⑫ **Letter edit key**
Edit character patterns.
- ⑬ **Embroidery key**
Proceed to the embroidery screen.
- ⑭ **Memory key**
Save a pattern in the machine's memory, USB media, etc.
- ⑮ **Delete key**
Delete the selected pattern (the pattern outlined by the red box).
- ⑯ **Add key**
Add another pattern to the editing pattern.
- ⑰ **Pattern select key**
Select the pattern to edit when there are multiple patterns.
- ⑱ **Multiple selection key**
Make multiple patterns to be selected at the same time.
- ⑲ **Magnify keys**
Magnify or demagnify the image.
- ⑳ **Image key**
Preview the embroidered image.

Embroidery Layout Screen

After editing the embroidery pattern, touch [Embroidery] to start embroidering.

If you adjust the layout of the whole embroidery pattern, touch [Layout] to display the following screen.

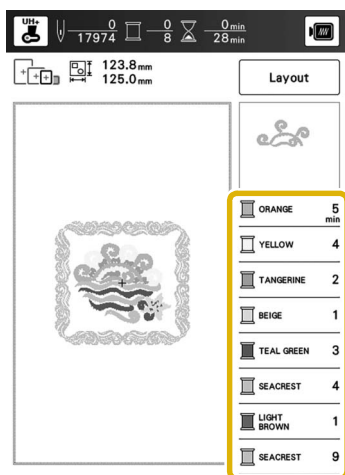


- ① **Presser foot (Needle point check key)**
Shows presser foot to be used.
If the embroidery foot "UH +" with LED pointer is used, the needle drop point can be checked with the light of the LED by touching the key.
- ② **Available frames**
Shows the embroidery frames that can be used for the pattern.
- ③ **Pattern size**
Shows the size of the pattern.
- ④ **Image key**
Preview the embroidery image.
- ⑤ **Rotate key**
Rotate the pattern.
- ⑥ **Move key**
Move the pattern.
- ⑦ **Uninterrupted embroidery key**
Change the setting to embroider the pattern with a single color.
- ⑧ **Basting key**
Add the basting stitch around the pattern.
- ⑨ **2-point embroidery positioning function on/off key**
Use the 2-point embroidery positioning function.
- ⑩ **Thread color sorting key**
Rearrange the stitching sequence for combined patterns.
- ⑪ **Memory key**
Save the pattern to the machine's memory, USB media, etc.
- ⑫ **Trace key**
Check the position of the pattern.
- ⑬ **Starting point key**
Specify the needle start position.
- ⑭ **Forward/Back key**
Move the needle forward or back in the pattern; useful if the thread breaks while embroidering or if you want to start again from the beginning.
- ⑮ **Cut/Tension key**
Set automatic thread cutting, thread trimming or the thread tension. For embroidery, these functions are set automatically.
- ⑯ **Return key**
Return to the edit screen.

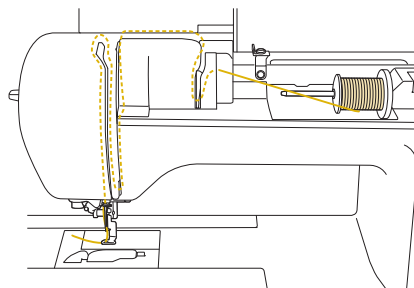
→ When the layout is determined, start embroidering.



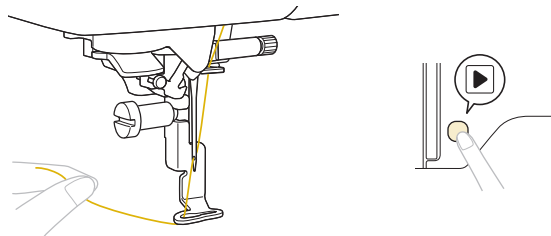
1 Prepare embroidery thread colors shown on the machine.



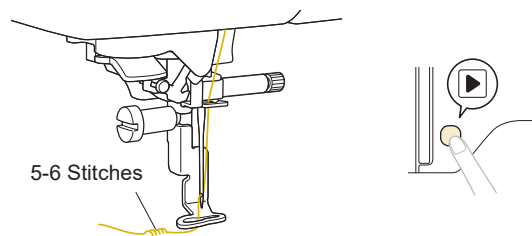
2 Thread the first color. (page 19)



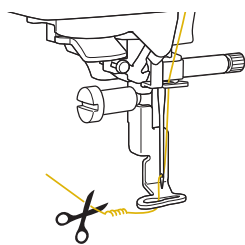
3 Gently holding the thread, lower the presser foot and start embroidering.



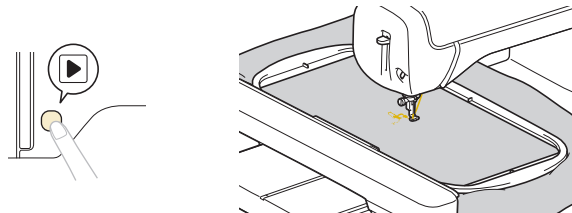
4 After 5 to 6 stitches are embroidered, stop embroidering.



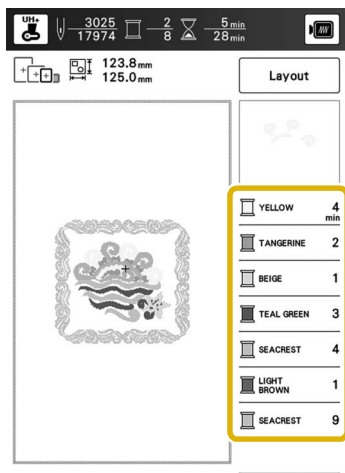
5 Cut the excess thread.



6 Start embroidering again to embroider the remaining stitches.



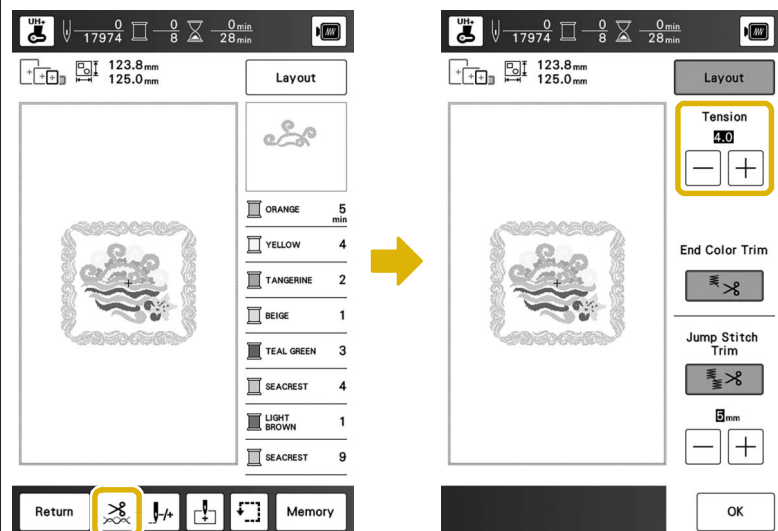
7 Repeat the same steps for embroidering the remaining colors.



Checking the Thread Tension

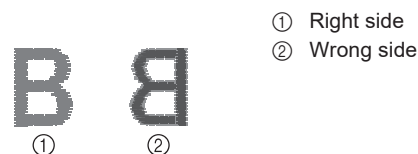
When embroidering, the thread tension should be set so that the upper thread can slightly be seen on the wrong side of the fabric.

Change the thread tension from the embroidering screen.



Correct Thread Tension

The pattern can be seen from the wrong side of the fabric. If the thread tension is not set correctly, the pattern will not finish well. The fabric may pucker or the thread may break.



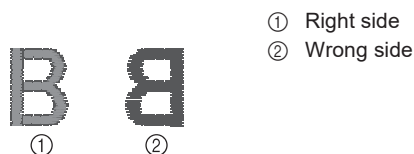
Follow the operations described below to adjust thread tension according to the situation.

Upper Thread Is Too Tight

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

Note

- If the bobbin thread was incorrectly threaded, the upper thread may be too tight. In this case, refer to "Installing the Bobbin" on page 18 and rethread the bobbin thread.



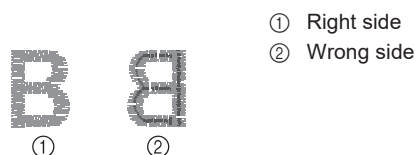
Touch in **Tension** to weaken the upper thread tension.
(The tension number will decrease.)

Upper Thread Is Too Loose

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.

Note

- If the upper thread was incorrectly threaded, the upper thread may be too loose. In this case, refer to "Upper Threading" on page 19 and rethread the upper thread.



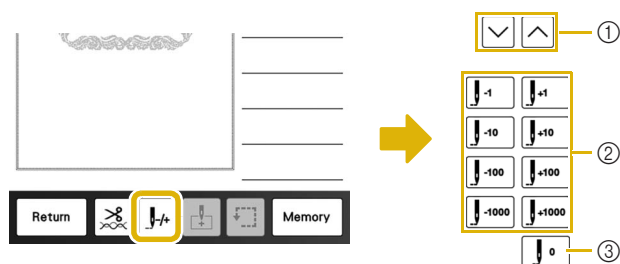
Touch in **Tension** to tighten the upper thread tension.
(The tension number will increase.)

If the Thread Breaks or the Bobbin Runs Out of Thread

1 Redo the upper threading or replace the bobbin. (page 19, page 15)

* If replacing the bobbin, touch before detaching the embroidery frame.

2 Touch and move the needle back the correct number of stitches before the area where the thread broke.



- Move the thread back or forward.
- Move the needle back or forward.
- Restart from the beginning.

3 Continue embroidering.

Chapter 4 Appendix

Fabric/Thread/Needle Combinations

The machine needle and thread that should be used depends on the type and thickness of the fabric. Refer to the following table when choosing the thread and needle appropriate for the fabric.

- The combinations shown in the table provide a general guideline. Sew trial stitches on the actual number of layers and type of fabric to be used in your project.
- The machine needles are consumables. For safety and best results, replace the needle regularly. (page 36)

Fabric type/Application		Thread		Size of needle	Stitch length mm (inch)
		Type	Weight		
Lightweight fabrics	Lawn, georgette, challis, organdy, crepe, chiffon, voile, gauze, tulle, lining, etc.	Polyester thread	60 - 90	65/9 - 75/11	Fine stitches 1.8 - 2.5 (approx. 1/16 - 3/32)
		Cotton thread, Silk thread	50 - 80		
Medium weight fabrics	Broadcloth, taffeta, gabardine, flannel, seersucker, double gauze, linen, terry cloth, waffle weave, sheeting, poplin, cotton twill, satin, quilting cotton, etc.	Polyester thread	60 - 90	75/11 - 90/14	Regular stitches 2.0 - 3.0 (approx. 1/16 - 1/8)
		Cotton thread, Silk thread	50 - 60		
Heavyweight fabrics	Denim (12 ounces or more), canvas, etc.	Polyester thread, Cotton thread	30	100/16	Coarse stitches 2.5 - 4.0 (approx. 3/32 - 3/16)
	Denim (12 ounces or more), canvas, tweed, corduroy, velour, melton wool, vinyl-coated fabric, etc.	Polyester thread	60	90/14 - 100/16	
		Cotton thread, Silk thread	30 - 50		
Stretch fabrics (knit fabrics, etc.)	Jersey, tricot, T-shirt fabric, fleece, interlock, etc.	Polyester thread, Cotton thread, Silk thread	50	Ball point needle 75/11 - 90/14	Setting appropriate for the fabric thickness
For top-stitching		Polyester thread, Cotton thread	30	90/14 - 100/16	Setting appropriate for the fabric thickness
			50 - 60	75/11 - 90/14	

Memo

- Needles that can be used with this machine: Home sewing machine needles (size 65/9 - 100/16)
 - The larger the number, the larger the needle. As the numbers decrease, the needles get finer.
- Thread that can be used with this machine: 30 - 90 weight
 - Never use thread of 20 weight or lower. It may cause machine to malfunction.
 - The smaller the number, the heavier the thread. As the numbers increase, the thread gets finer.
- In principle, use a fine needle and thread with lightweight fabrics, and a larger needle and heavier thread with heavyweight fabrics.
- Select a stitch appropriate for the fabric, and then adjust the stitch length. When sewing lightweight fabrics, make the stitch length finer (shorter). When sewing heavyweight fabrics, make the stitch length coarser (longer).

■ Transparent Nylon Thread

Use a home sewing machine topstitching needle, regardless of the fabric or thread.

■ When Sewing Character/Decorative Stitch Patterns

When sewing lightweight, medium weight or stretch fabrics, use a ball point needle (gold colored) 90/14. When sewing heavyweight fabrics, use a home sewing machine needle 90/14.

In addition, #50 to #60 thread should be used.

■ When Embroidering

It is recommended to use a 75/11 home sewing machine needle. However, if the machine is not stitching well when embroidering on heavy weight fabric, please try a 90/14 needle.

When embroidering with short stitches, such as small letters, we recommend using a ball point needle for embroidery.

CAUTION

- The appropriate fabric, thread and needle combinations are shown in the table. If the combination is not correct, particularly when sewing heavy fabrics (such as denim) with thin needles (such as 65/9 to 75/11), the needle may break and cause injury.
- In addition, the stitching may be uneven or puckered or there may be skipped stitches.

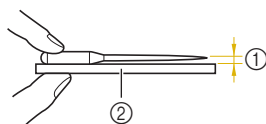
Replacing the Needle

⚠ CAUTION

- Always touch  on the screen to lock all keys and buttons before changing the needle. If  is not touched and the "Start/Stop" button or any other operation button is pressed accidentally, the machine will start and injury may result.
- Use only home sewing machine needles. Other needles may break and may cause injury.
- Never use a bent needle. This may cause injury.

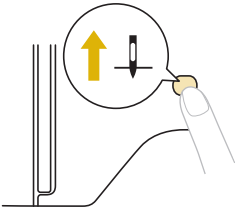
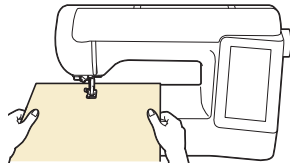
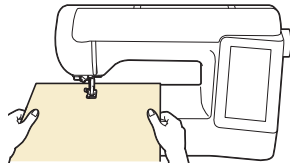
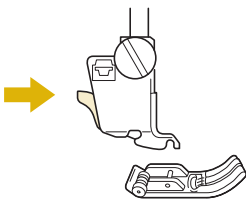
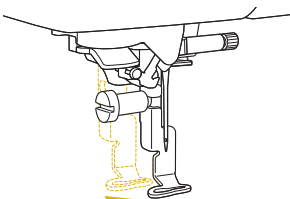
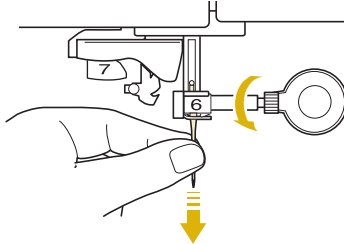
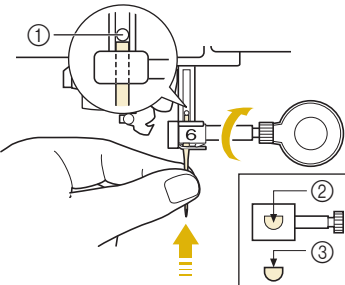
Memo

- To check the needle correctly, place the flat side of the needle on a flat surface. Check the needle from the top and the sides. Throw away any bent needles.



- ① Parallel space
- ② Flat surface (bobbin cover, glass, etc.)

- The machine needles are consumables. Replace the needle in cases such as those described below.
 - If an unusual sound is produced when the needle enters the fabric. (The tip of the needle may be broken or dull.)
 - If stitches are skipped. (The needle may be bent.)
 - Generally, after completing one project, such as a piece of clothing.

1 	2 Lock all keys and buttons.  <td> 3 Cover the hole in the needle plate with fabric or paper.  </td>	3 Cover the hole in the needle plate with fabric or paper. 
4 Remove the presser foot.   → page 37 → page 38	5 Remove the needle. 	
6 Insert the new needle until the top of the needle touches the needle stopper. Tighten the screw.  ① Needle stopper ② Hole for inserting the needle ③ Flat side of the needle	7 Return the presser foot and unlock the keys and buttons. 	



Changing the Presser Foot

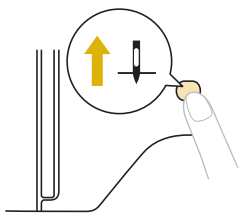
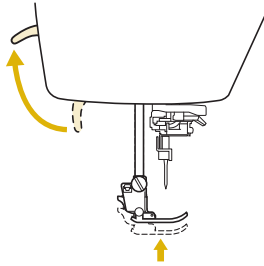
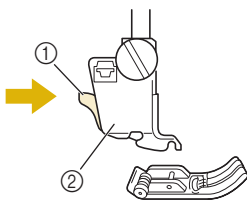
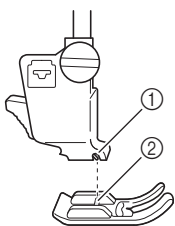
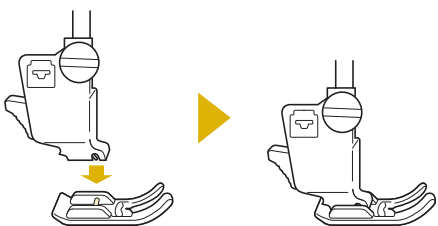
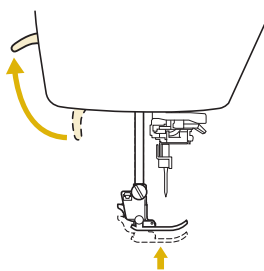
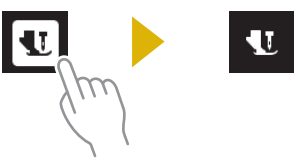
⚠ CAUTION

- Always touch  on the screen to lock all keys and buttons before changing the presser foot. If  is not touched and the “Start/Stop” button or any other operation button is pressed, the machine will start and may cause injury.
- Always use the correct presser foot for the selected stitch pattern. If the wrong presser foot is used, the needle may strike the presser foot and break, and may cause injury.
- Make sure that the presser foot is installed in the correct direction, otherwise the needle may strike the presser foot, breaking the needle and causing injuries.

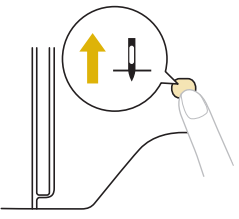
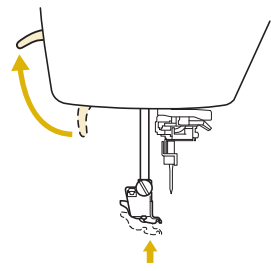
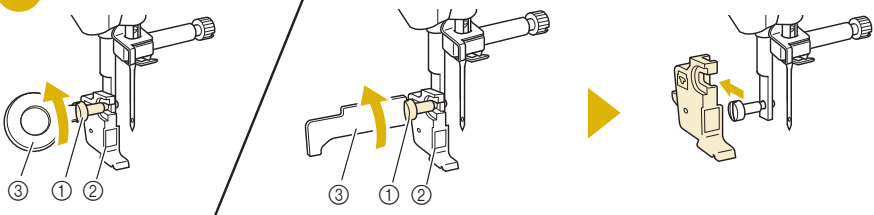
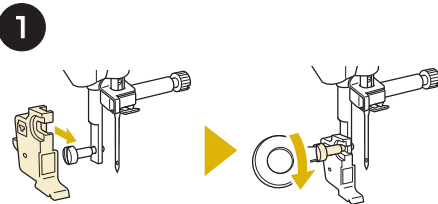
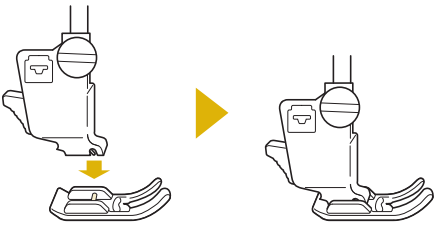
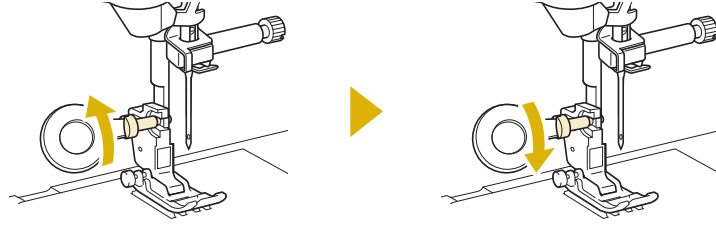
IMPORTANT

- Use presser feet made for this machine.

Replacing the Presser Foot

1 	2 Lock all keys and buttons. 
3 	4 Press the black button on the presser foot holder to remove the presser foot.  ① Black button ② Presser foot holder
5 Place the new presser foot aligning the presser foot pin with the notch in the presser foot holder.  ① Notch ② Pin	6 Lower the presser foot so that the pin snaps into the notch. 
7 Raise the presser foot to check the presser foot is securely attached. 	8 Unlock the key and buttons. 

Removing/Attaching the Presser Foot Holder

<Removing> 1 	2 Lock all keys and buttons. 	3 
4 Loosen the screw to remove the presser foot holder.  ① Presser foot holder screw ② Presser foot holder ③ Screwdriver Use the screwdriver included with the machine.		<Attaching> 1 
2 Attach the presser foot to be used and lower the presser foot referring to 5-6 on the previous page. 	3 While the presser foot is lowered, slightly loosen the presser foot holder screw and securely tighten it in order to fix the presser foot holder at the appropriate position. 	

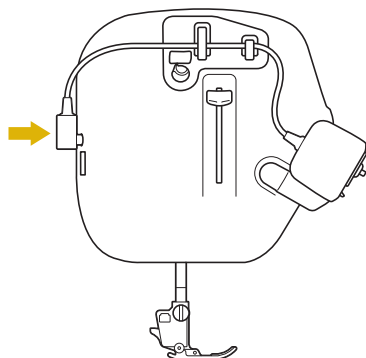
■ Inserting the Plug of the Accessory

When using an accessory with a plug such as the external guideline marker or compact digital dual feed, insert the plug into the connector or jack on the back of the machine after attaching the body part to the machine. Insert into a connector or jack according the form of the plug.

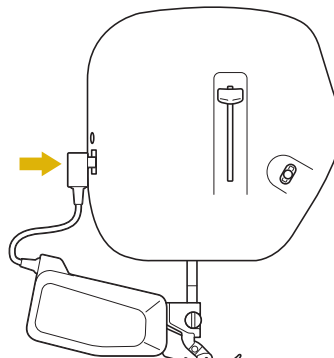
IMPORTANT

- When plugging or unplugging the cord, touch  to prevent the machine from electrical damage.

<Example: Insertion into the jack for the external guideline marker accessory>



<Example 2: Insertion into the connector for the compact dual feed accessory>



⚠ CAUTION

- Be sure to unplug the machine before cleaning it. Otherwise, injury may result.

Cleaning the LCD

If the surface of the LCD is dirty, lightly wipe it with a soft dry cloth.

Cleaning the Machine Surface

When wiping dirt off the machine, firmly wring a soft cloth soaked in (lukewarm) water.

After cleaning the machine, dry it with a soft, dry cloth.

Restrictions on Oiling

In order to prevent damaging this machine, it must not be oiled by the user. This machine was manufactured with the necessary amount of oil applied to ensure correct operation, making periodic oiling unnecessary.

If problems occur, such as difficulty turning the handwheel or an unusual noise, immediately stop using the machine, and contact your authorized Baby Lock retailer.

Precautions on Storing the Machine

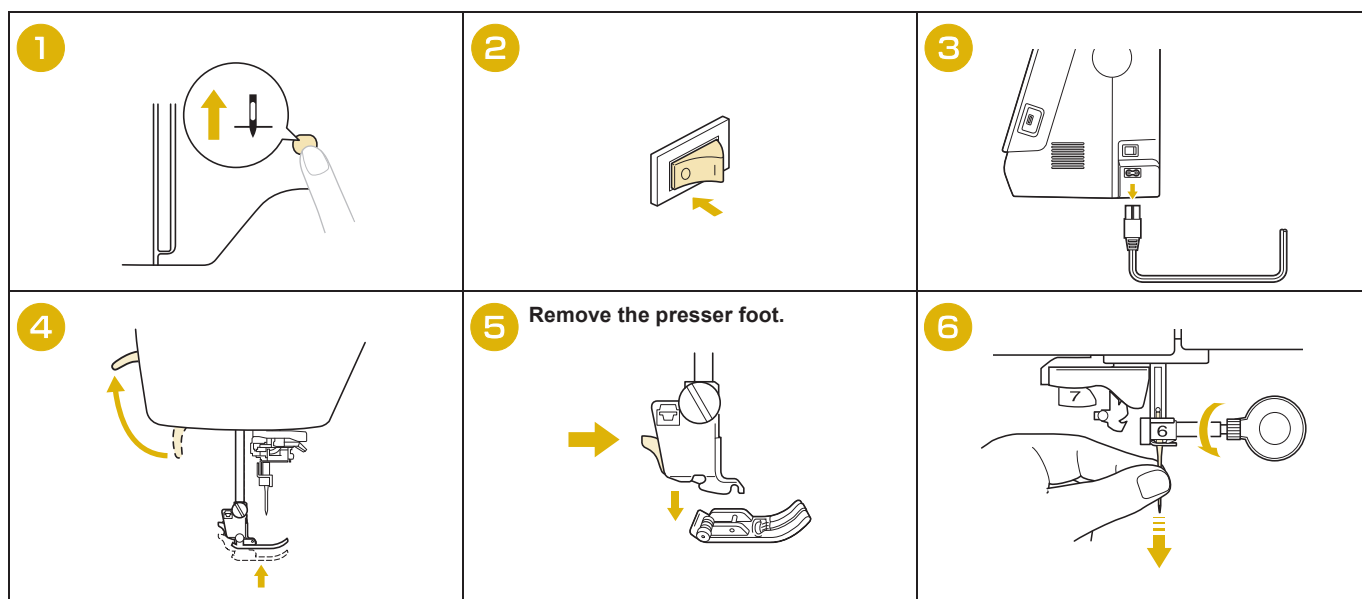
Do not store the machine in any of the locations described below, otherwise damage to the machine may result, for example, rust caused by condensation.

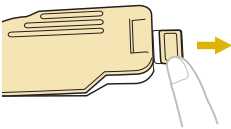
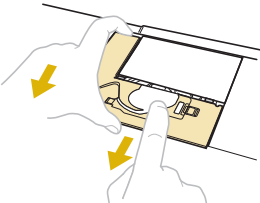
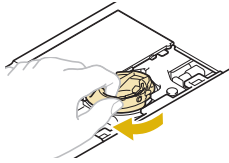
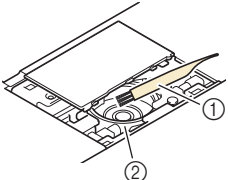
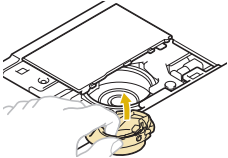
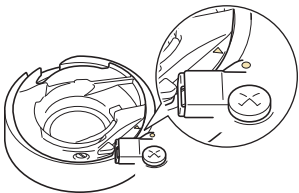
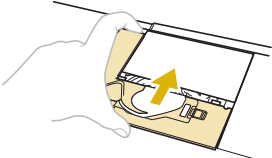
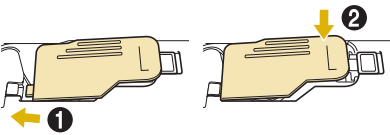
- Exposed to extremely high temperatures
- Exposed to extremely low temperatures
- Exposed to extreme temperature changes
- Exposed to high humidity or steam
- Near a flame, heater or air conditioner
- Outdoors or exposed to direct sunlight
- Exposed to extremely dusty or oily environments

💡 Note

- In order to extend the life of this machine, periodically turn it on and use it. Storing this machine for an extended period of time without using it may reduce its efficiency.

Cleaning the Race

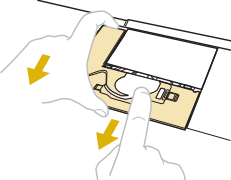
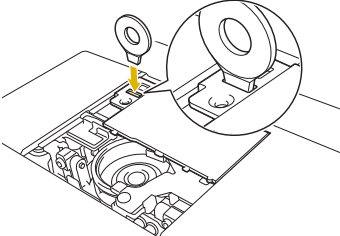
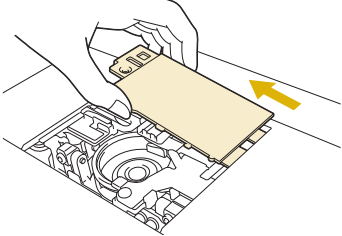
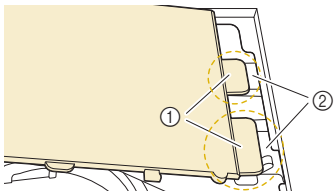
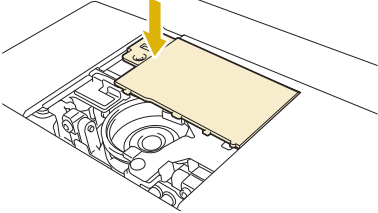
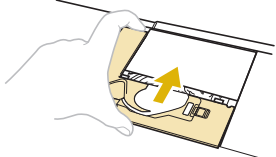


7 Remove the bobbin cover. 	8 Remove the needle plate cover. 	9 Grasp the bobbin case, and then pull it out.  If the bobbin is installed, remove it before pulling the bobbin case out.
10 Remove any lint and dust from the race and the surrounding area. Use the cleaning brush or a vacuum cleaner.  ① Cleaning brush ② Race	11 Insert the bobbin case.  Align the ▲ and ● marks. 	12 
13 		

⚠ CAUTION

- Never use a bobbin case that is scratched or has a burr on it. Otherwise, the upper thread may become tangled, the needle may break or sewing performance may suffer. For a new bobbin case, contact your nearest authorized Baby Lock retailer.
- Be sure that the bobbin case is correctly installed, otherwise the needle may break.

Removing/Attaching the Needle Plate

<Removing> 1 Turn off the machine and remove the needle plate cover referring to steps ①-⑧ on the previous page. 	2 Push the hole of the needle plate with the screwdriver to detach the needle plate. 	3 Slide out the needle plate. 
<Attaching> 1 To attach the needle plate, insert the tabs into the notches. 	2 Press down on the left side of the needle plate to secure it. 	3 Attach the needle plate cover. 



Troubleshooting

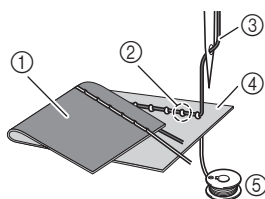
If the machine stops operating correctly, check the following possible problems before requesting service. If the problem persists, contact your authorized Baby Lock retailer.

Frequent Troubleshooting Tips

■ Upper Thread Is Too Tight

• Symptom

- The upper thread appears as a single continuous line.
- The bobbin thread is visible from the right side of the fabric.
- The upper thread comes out when pulled.
- Wrinkles appear in the fabric.
- The results do not change even after the thread tension is adjusted.



- ① Wrong side of fabric
- ② Bobbin thread visible from right side of fabric
- ③ Upper thread
- ④ Right side of fabric
- ⑤ Bobbin thread

• Remedy

Correctly install the bobbin thread. (page 18)

■ Incorrect Thread Tension

• Symptoms

Stitches are not forming as expected.

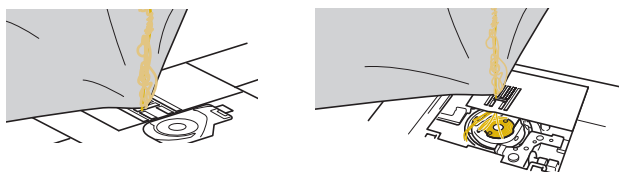
• Remedy

1. Confirm an appropriate needle and thread for the fabric. (page 35)
2. Rethread the upper and bobbin threads. (page 19, page 18)
3. Adjust the upper thread tension. (page 22)

■ Tangled Thread on Wrong Side of Fabric

• Symptom

- The thread becomes tangled on the wrong side of the fabric.
- A rattling noise is heard while sewing, and then you cannot continue sewing.
- Looking under the fabric, there is tangled thread in the bobbin case.



• Remedy

Remove the tangled thread, and then correct the upper threading.

If the operation cannot be completed according to the procedure, instead of attempting to complete it forcefully, contact your nearest authorized Baby Lock retailer.

• Removing the fabric from the machine

1 Immediately stop the machine.

2 Turn off the machine.

3 Remove the needle. (page 36)

If the needle is lowered into the fabric, turn the handwheel away from you (clockwise) to raise the needle out of the fabric.

4 Remove the presser foot and presser foot holder. (page 38)

If the thread is entangled on the presser foot, remove the entangled thread, and then raise the presser foot lever to remove the presser foot. Otherwise, the presser foot may be damaged.

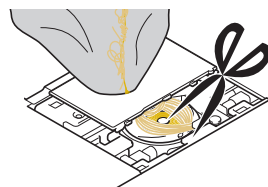
5 Lift up the fabric and cut the threads below it.

If the fabric can be removed, remove it. Continue with step 13.

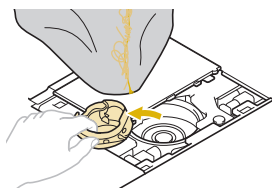
If the fabric could not be removed, continue with the following steps.

6 Remove the needle plate cover. (page 39)

7 Cut out the tangled threads, and then remove the bobbin.



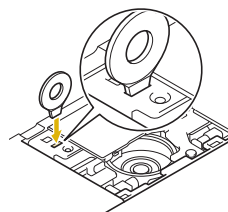
8 Remove the bobbin case.



If the fabric could be removed, continue with step 11.

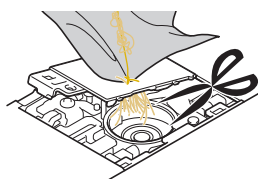
If the fabric could not be removed, continue with the following steps.

9 Push the hole of the needle plate with the screwdriver to detach the needle plate.



- 10** Slightly lift up the needle plate from the left side, cut any tangled threads, and then remove the needle plate.

Remove the threads from the needle plate and around the feed dogs.



If the fabric cannot be removed, even after completing these steps, contact your nearest Baby Lock retailer.

- 11** Remove any threads and clean the race and the surrounding area. (page 39)
- 12** Attach the needle plate, the bobbin case, then the needle plate cover.
- 13** Check the condition of the needle, and then install it.
- If the needle is in a poor condition, for example, if it is bent, be sure to install a new needle. (page 36)

• **Checking machine operations**

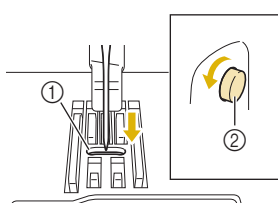
If the needle plate has been removed, check machine operations to confirm that installation has been completed correctly.

- 1** Turn on the machine.
- 2** Select Straight stitch (Middle).

 Note

- Do not yet install the presser foot and thread.

- 3** Slowly turn the handwheel toward you (counterclockwise), and look from all sides to check that the needle falls at the center of the opening in the needle plate.



- ① Opening in the needle plate
- ② Handwheel

If the needle or feed dogs contact the needle plate, the machine may be malfunctioning; therefore, contact your authorized Baby Lock retailer.

- 4** Turn off the machine, and then install the bobbin and presser foot. (page 18, page 37)
- Never use a scratched or damaged presser foot. Otherwise, the needle may break, or sewing performance may suffer.
- 5** Correctly thread the machine. (page 19)
- 6** Perform trial sewing with normal fabric.

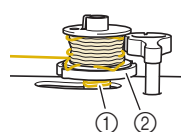
 Note

- Incorrect sewing may be the result of incorrect upper threading or sewing thin fabrics. If there are poor results from the trial sewing, check the upper threading or the type of fabric being used.

■ **If the Thread Becomes Tangled under the Bobbin Winder Seat**

If the bobbin winding starts when the thread is not passed through the pretension disk correctly, the thread may become tangled beneath the bobbin winder seat.

Wind off the thread according to the following procedure.

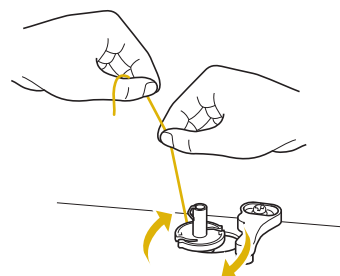


- ① Thread
- ② Bobbin winder seat

 CAUTION

- Do not remove the bobbin winder seat even if the thread becomes tangled under the bobbin winder seat. The cutter in the bobbin winder seat may cause injury.

- 1** Stop the bobbin winding.
- 2** Cut the thread with scissors beside the bobbin winding thread guide.
- 3** Slide the bobbin winder shaft to the left, and then remove the bobbin from the shaft and cut the thread leading to the bobbin in order to be able to completely remove the bobbin from shaft.
- 4** Hold the thread end with your left hand, and wind off the thread clockwise from under the bobbin winder seat with your right hand as shown below.



Check the following possible problems before requesting service. If the reference page is “*”, contact your authorized Baby Lock retailer.

Symptom, Cause/Solution	Reference
The machine does not work.	
The machine is not plugged in.	11
The main power switch is turned off.	11
The machine enters the Power saving mode. • Press the "Start/Stop" button flashing green slowly or touch anywhere on the LCD screen.	11
The bobbin winder shaft is pushed to the right.	15
Edited project has been deleted.	
The machine once entered the Power saving mode. ► Save your project if you may not operate the machine for a certain period of time.	11
The needle, upper thread, or bobbin thread breaks.	
The installation is incorrect. ► Retry installing the needle, upper thread, or bobbin thread.	18, 19, 36
The needle is turned, bent or the point is dull.	36
The needle is not appropriate for the thread or fabric you are using.	35
The presser foot is not appropriate for the selected stitch.	25
The upper thread tension is too tight.	22, 34
The area around the opening in the needle plate is scratched. • This is not a scratch 	*
The area around the opening in the presser foot is scratched.	*
The bobbin or bobbin case is scratched.	*
A bobbin designed for this machine is not used.	15
There are knots or tangles in the thread, for example, in the bobbin case. ► Remove any knots or tangles.	-
The thread tension is incorrect.	
► Adjust the thread tension.	34, 41
The fabric is wrinkled or stitches are skipped.	
Upper threading or the bobbin installation is incorrect.	18, 19
The spool is not fitted properly.	17
The needle or thread is improper for the fabric.	35
The needle is turned, bent or the point is dull.	36
If you are sewing thin fabric, the stitch is too thick. ► Sew with stabilizer material under the fabric.	-
The thread tension is incorrect.	22, 34
Dust has accumulated under the needle plate or in the bobbin case.	39
The thread is tangled on the wrong side of the fabric.	
► Remove the tangled thread and redo the upper threading.	41
There is a high-pitched noise while sewing.	
Dust has built up in the feed dogs or in the bobbin case.	39
Upper threading is incorrect.	19
The bobbin case is scratched.	*
A bobbin designed for this machine is not used.	15

Symptom, Cause/Solution	Reference
The needle threader cannot be used.	
 (Needle position button) was not used to raise the needle.	10
The installation of the needle or upper thread was incorrect. The needle threader lever is not lowered until it clicked.	19, 36
The needle is turned, bent or the point is dull.	36
The needle threader hook is bent and does not pass through the eye of the needle.	*
The needle threader lever cannot be moved or returned to its original position.	*
A size 65/9 needle is being used. ► The needle is incompatible with the needle threader. Manually pass the thread through the eye of the needle.	35
The stitch is not sewn correctly.	
The presser foot is not appropriate for the selected stitch.	25
The thread tension is incorrect.	22
The thread is tangled, for example, in the bobbin case.	41
The fabric does not feed.	
The feed dogs are lowered. ► Touch  , and turn the handwheel to raise the feed dogs.	24
The stitch is too fine.	35
The needle or thread is improper for the fabric.	35
The thread is tangled, for example, in the bobbin case.	41
While winding the bobbin, the bobbin thread was wound below the bobbin winder seat.	
► Remove any entangled thread, and wind the bobbin.	42
The bobbin thread cannot be pulled up.	
The needle is turned, bent or the point is dull.	36
The bobbin is installed incorrectly.	18
The sewing light bulb does not come on.	
The sewing light is damaged.	*
The fabric feeds in the opposite direction.	
The feed mechanism is damaged.	*
The needle contacts the needle plate.	
The needle clamp screw is loose.	36
The needle is turned, bent or the point is dull.	36
Fabric being sewn with the machine cannot be removed.	
Thread is tangled below the needle plate.	41
A broken needle has fallen into the machine.	
► Turn off the machine and remove the needle plate. If the needle that fell into the machine can be seen, use tweezers to remove it. After removing the needle, return the needle plate and insert a new needle. Slowly turn the handwheel toward you to check that it turns smoothly and that the new needle enters through the center of the needle plate opening. If the handwheel does not turn smoothly or the needle that fell into the machine cannot be removed, consult your authorized Baby Lock retailer.	-
The handwheel does not turn smoothly.	
Thread is tangled in the bobbin case.	41

Error Messages

Below is an explanation of error messages. Refer to these when necessary (if you touch  or do the operation correctly while the error message is displayed, the message disappears).

	Error messages	Cause/Solution
1	Includes a special pattern that cannot be saved to external memory. Save the pattern in the machine's memory.	This message is displayed when you try to save a copyright protected pattern to USB media or computer. According to copyright laws, patterns that are illegal to reproduce or edit cannot be saved to USB media or computer. If this message displays, save the pattern in the machine's memory.
2	Lower the presser foot lever.	This message is displayed when  (Presser foot lifter button) is pressed while the presser foot lever is raised and the needle is lowered.
3	OK to recall and resume previous memory?	This message appears if the machine is turned off while embroidering, then turned on again. Touch [OK] to return the machine to the condition (pattern position and number of stitches) when it was turned off. Follow the procedure described in "If the Thread Breaks or the Bobbin Runs Out of Thread" on page 34 to align the needle position and embroider the remainder of the pattern.
4	Preventive maintenance is recommended.	This message is displayed when the machine needs to be maintained. Once this message appears, it is recommended to take your machine to an authorized Baby Lock retailer for a regular maintenance check. Although this message will disappear and the machine will continue to function once you touch [OK], the message will display several more times until the appropriate maintenance is performed.
5	The bobbin thread is almost empty.	This message is displayed when the bobbin thread is running out. When embroidering, touch  , touch [OK], remove the embroidery frame, and then replace the bobbin with one wound with plenty of embroidery bobbin thread.
6	The safety device was activated since the main shaft motor was heated. Is the thread tangled?	This message is displayed when the temperature of the motor increases, activating the safety device. Wait until the temperature decreases. If the error persists, contact your nearest authorized Baby Lock retailer.
7	The safety device was activated since the needle position sensor malfunctioned.	This message is displayed when an error in the needle position sensor is detected, activating the safety device. Turn the machine off, then on again. If the message continues to appear, the machine may be damaged. Contact your nearest authorized Baby Lock retailer.
8	This file cannot be used.	This message appears if the file format is incompatible with this machine. For information on the format, refer to the "Specifications" of the Instruction and Reference Guide (Web).
9	This USB media cannot be used.	This message is displayed when you try to use incompatible media. For information on the compatible USB, refer to the "Specifications" of the Instruction and Reference Guide (Web).
10	Turn off the machine before attaching or removing the needle plate.	This message is displayed when you try to sew with a stitch other than a straight stitch (middle needle position) while the straight stitch needle plate is installed.
11	F**	If error message [F**] appears in the LCD while the machine is being used, the machine may be malfunctioning. Contact your authorized Baby Lock retailer.



Updating Your Machine's Software

You can update your machine's software using the following two procedures.

- Updating via Wireless LAN
- Using the USB and computer

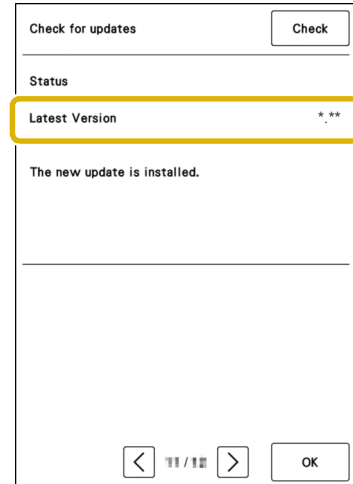
This guide shows procedure to update via Wireless LAN.

For update information, refer to the Baby Lock website <https://babylock.com/machine-support-and-updates>.

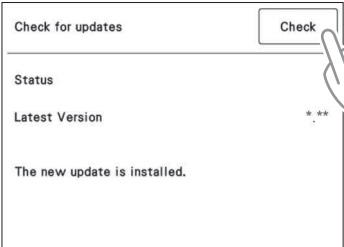
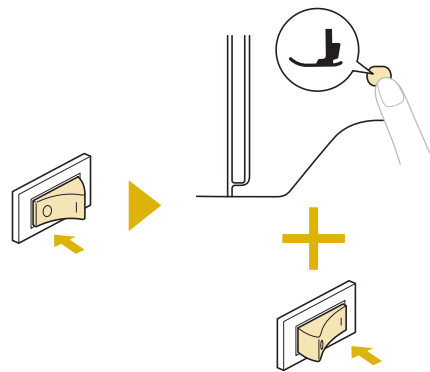
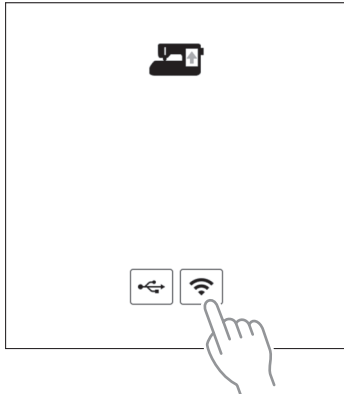
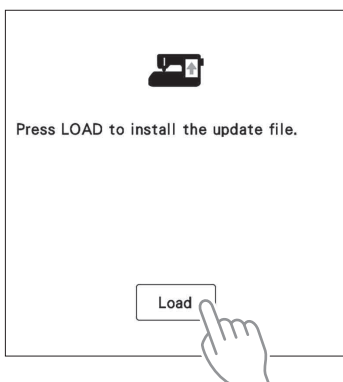
Memo

The software version of the machine can be checked from the settings screen.

Touch  and move to the screen for updating the software.



Using Wireless LAN to Update

1 Touch  and move to the screen of updating the software. Touch [Check].  If the [Check] key changes to [Start], proceed to the next step to update the machine.	2 Touch [Start] and wait until the update program is downloaded.  When the [Start] is grayed out, the download is completed.	3 Turn the machine off, then turn on the machine while pressing and holding the presser foot lifter button. 
4 	5 Touch [Load] and wait until the update is completed. 	6 Turn the machine off and on again. 

About Optional Accessories

Various optional accessories are available to be purchased separately.

Visit our website <https://babylock.com/accessories>.

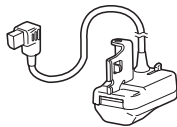
Before you use an optional accessory, read the accessory's instruction manual in addition to this Quick Reference Instruction Guide.

■ Stitch Regulator

This machine can be used with stitch regulator which is sold separately.

The stitch regulator emits a laser beam from the laser unit.

Before you use the stitch regulator, read the stitch regulator's instruction manual.



Before Lending or Disposing of the Product

Please be sure to reset the settings of your machine to delete the following data.

- all saved data
- customized settings
- network information

- 1 Touch  to display the settings screen.
- 2 Touch  and move to the page for [Reset to Default], and then touch [Reset].
- 3 Touch [Reset].

Note

- Do not turn the main power to OFF while the [Deleting...] screen is displayed.



English
888-P51



D03J4R-001