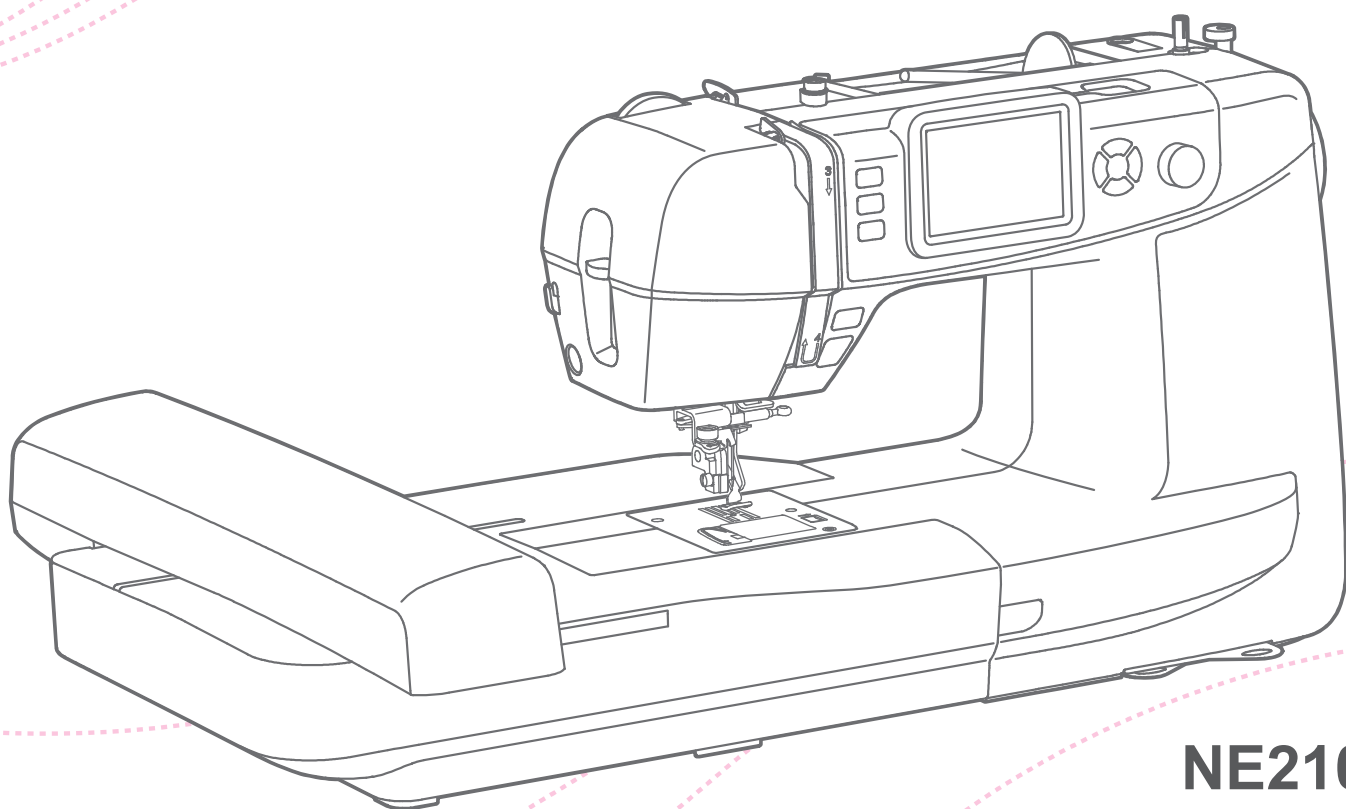


NECCHI

Instruction Manual

SEWING+EMBROIDERY **COMBO**



NE210

Enjoy your Necchi time!



NecchiAIO



Artist Tool

Artist Toolkit



YouTube

Important safety instructions

When using an electrical appliance, basic safety should always be followed, including the following:

Read all instructions before using this sewing machine.

DANGER - To reduce the risk of electric shock:

1. An appliance should never be left unattended when plugged in.
2. Always unplug this appliance from the electric outlet immediately after using and before cleaning.

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

1. Do not allow to be used as a toy. Close attention is necessary when this appliance is used by or near children.
2. Use this appliance only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
3. Never operate this appliance if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the appliance to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
4. Never drop or insert any object into any opening.
5. Do not use outdoors.
6. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
7. To disconnect, turn all controls to the off ("O") position, then remove plug from outlet.
8. Always use the proper needle plate. The wrong plate can cause the needle to break.
9. Do not use bent needles.
10. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
11. Switch the sewing machine off ("O") when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
12. Always unplug sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.

13. Read the instruction carefully before you use the machine.
14. Keep the instructions at a suitable place close to the machine and hand it over if you give the machine to a third party.
15. Use the machine only in dry locations.
16. Never leave the machine unattended with children or elderly people as they may not be able to estimate the risk.
17. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
18. Children shall not play with the appliance.
19. Cleaning and user maintenance shall not be made by children without supervision.
20. Always switch off the machine if you carry out preparation for work (change the needle, feed the yarn through the machine, change the footer, etc.).
21. Always unplug the machine if you leave it unattended, to avoid injury by expediently switch on the machine.
22. Always unplug the machine if you carry out maintenance (oiling, cleaning).
23. Don't use the machine if it's wet or in humid environment.
24. Never pull at the cord, always unplug the machine by gripping the plug.
25. If the LED lamp is damaged or broken, it must be replaced by the manufacturer or it's service agent or a similarly qualified person, in order to avoid a hazard.
26. Never place anything on the pedal.
27. Never use the machine if the air vents are blocked, keep the air vents of the machine and the foot pedal free from dust, fusel and leftovers.
28. The machine must only be used with designated foot controller, in order to avoid a hazard. If the foot controller is damaged or broken, it must be replaced by the manufacturer or its service agent or a similarly qualified person.
29. The sound pressure level at normal operation is smaller than 75dB(A).
30. Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
31. Contact your local government for information regarding the collection systems available.

32. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
33. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.
34. The appliance is not to be used 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. (For outside Europe)
35. Children being supervised not to play with the appliance. (For outside Europe)
36. Moving parts. To reduce risk of injury, switch off before servicing. Close door (or cover, needle plate) before operation machine.

SAVE THESE INSTRUCTIONS

This sewing machine is intended for household use only.

Be sure to use the sewing machine in the temperature range from 5°C to 40°C. If the temperature is excessively low, the machine can fail to operate normally.

To carry the sewing machine, hold the carrying handle with your hand, and support the sewing machine with the other hand.

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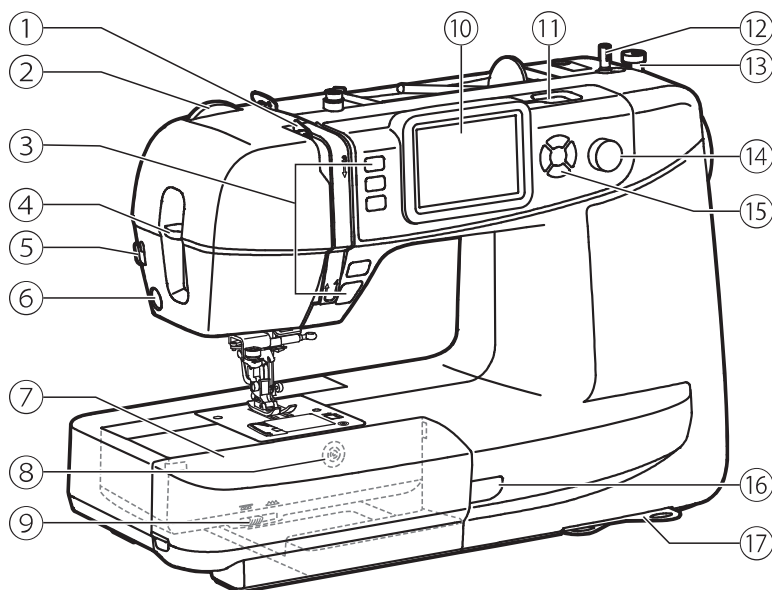
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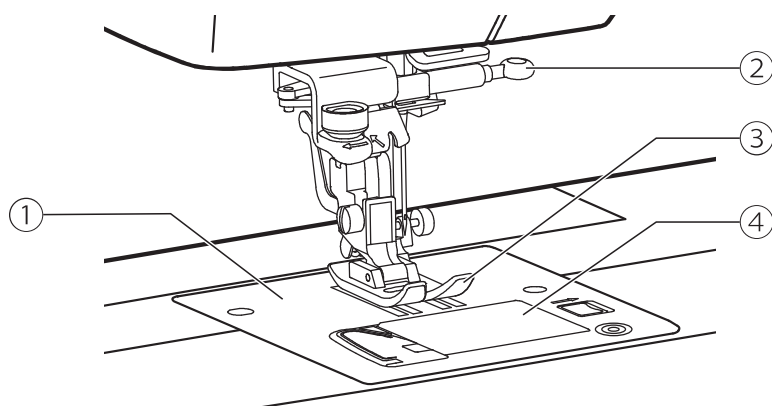
Machine Introduction

Principal parts of the machine



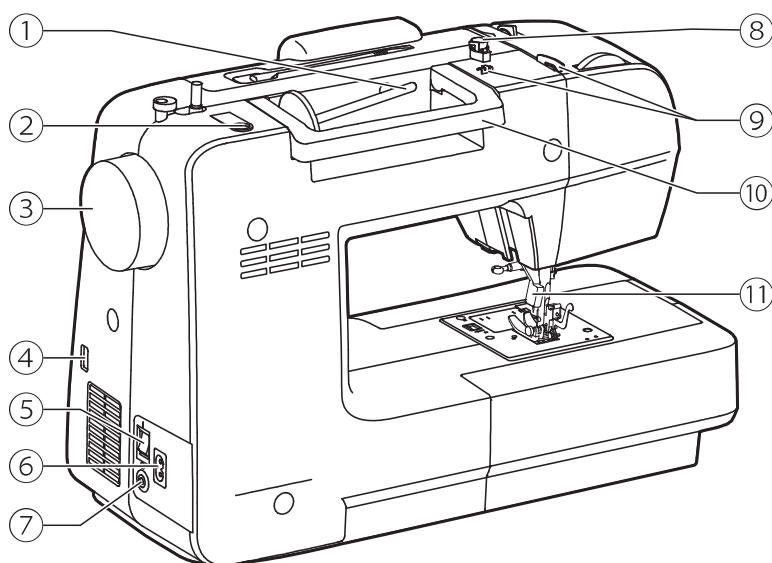
❖ Front overview

- ① Take-up lever
- ② Presser foot pressure dial
- ③ Operation buttons
- ④ Automatic needle threader lever
- ⑤ Thread cutter
- ⑥ Electronic buttonhole foot socket
- ⑦ Sewing table and accessory box
- ⑧ Needle plate button
- ⑨ Drop feed lever
- ⑩ LCD screen (touch panel)
- ⑪ Stylus
- ⑫ Bobbin winder spindle
- ⑬ Bobbin winder stopper
- ⑭ Speed adjustment dial
- ⑮ Arrow buttons
- ⑯ Status indicator
- ⑰ Quick reference plate



❖ Needle area overview

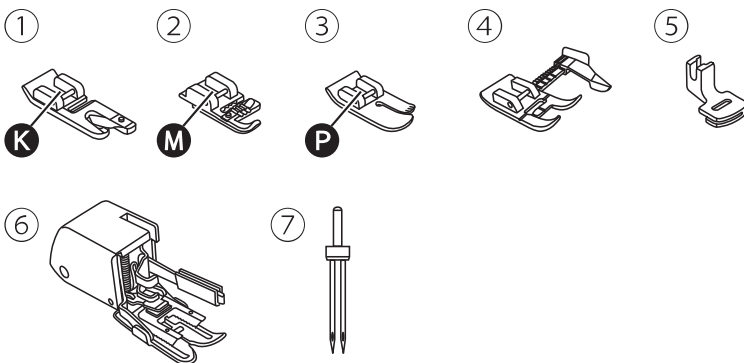
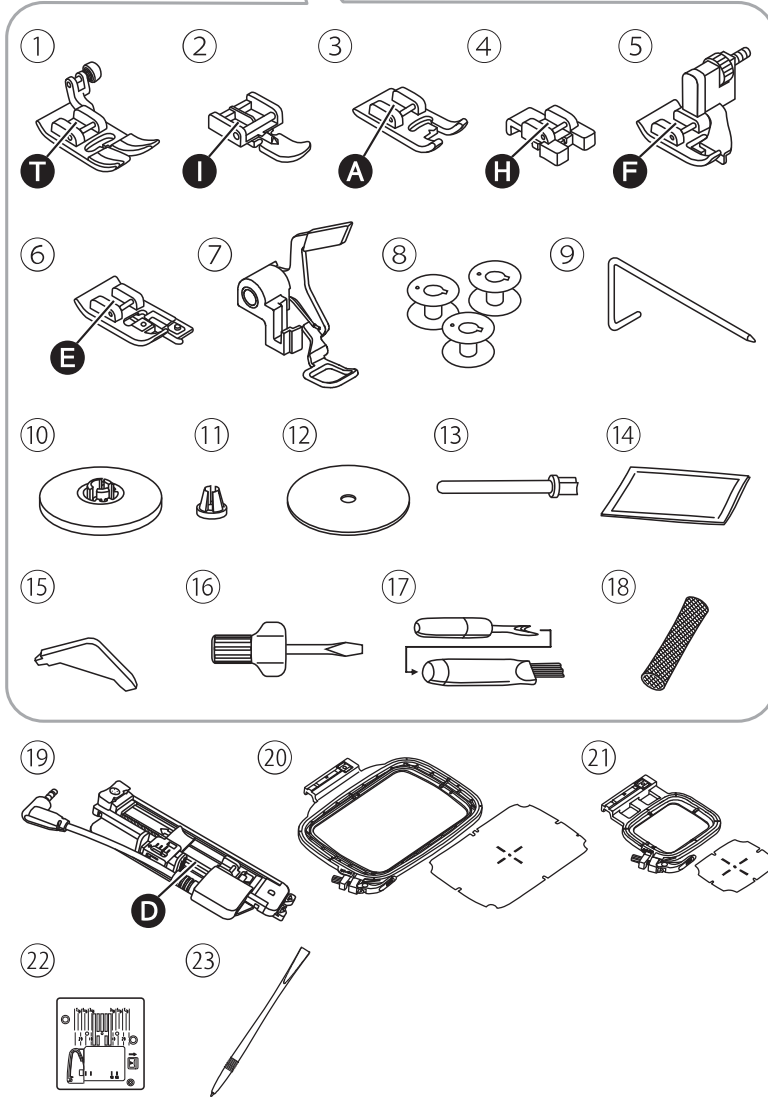
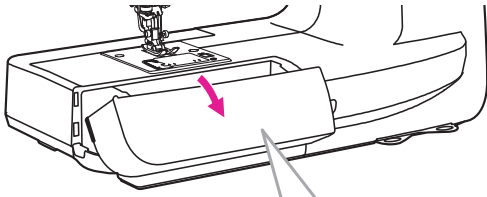
- ① Needle plate
- ② Needle clamp screw
- ③ Presser foot
- ④ Bobbin cover



❖ Back overview

- ① Horizontal spool pin
- ② Second spool pin hole
- ③ Handwheel
- ④ USB port
- ⑤ Main power switch
- ⑥ Power cord socket
- ⑦ Foot control connector
- ⑧ Bobbin thread guide
- ⑨ Thread guide
- ⑩ Handle
- ⑪ Presser foot lifter

Accessories



Accessories are stored inside the accessory box.

❖ Standard

- ① All purpose foot
- ② Zipper foot
- ③ Satin stitch foot
- ④ Button sewing foot
- ⑤ Blind hem foot
- ⑥ Overcasting foot
- ⑦ Darning/embroidery foot
- ⑧ Bobbin (3x)
- ⑨ Edge/quilting guide
- ⑩ Spool holder (Large)
- ⑪ Spool holder (Small)
- ⑫ Spool pin felt
- ⑬ Second spool pin
- ⑭ Pack of needles
- ⑮ L-screwdriver
- ⑯ Screwdriver
- ⑰ Seam ripper/brush
- ⑱ Thread net
- ⑲ Electronic buttonhole foot
- ⑳ Embroidery set (120*180mm)
- ㉑ Embroidery set (50*70mm)
- ㉒ Straight stitch plate
- ㉓ Stylus

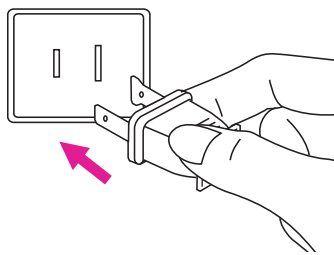
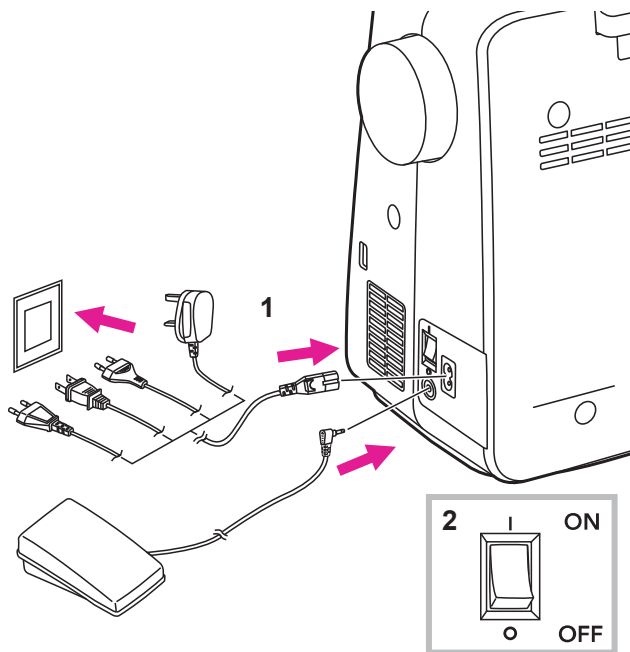
❖ Optional

- ① Hemmer foot
- ② Cording foot
- ③ Straight stitch foot
- ④ Adjustable guide foot
- ⑤ Gathering foot
- ⑥ Walking foot
- ⑦ Twin needle

Note

To purchase optional accessories, please consult your local dealer for further information.

Connecting machine to power source



⚠ Attention

Always make sure that the machine is unplugged from power source and the main switch is off ("O"), when the machine is not in use and before inserting or removing parts.

Before connecting the power supply, make sure that the voltage shown on the rating plate is conforming with your main power.

Put the machine on a stable table.

1. Connect the machine to a power source as illustrated.
2. Turn the power switch to on ("I").

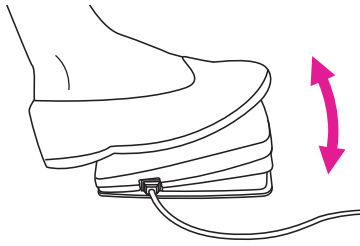
The sewing lamp will light up when the switch is turned on.

❖ Polarized plug information

This appliance has a polarized plug (one blade is wider than the other), to reduce the risk of electrical shock; this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way.

Note

Consult a qualified electrician if in doubt as to connect the machine to the power source.



❖ Foot control (In sewing mode)

When the machine is off, insert the foot control plug into its connector on the machine.

Turn on the machine, and then slowly press down the foot control to start sewing. Release the foot control to stop the machine.

❖ Foot controller with needle up and down feature

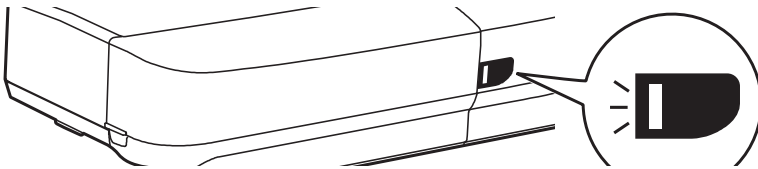
User can quickly press one step on the foot controller to change the needle position go up or down into the fabric.

⚠ Attention

Foot control will be disabled in embroidery mode.

Display instruction

❖ Status indicator

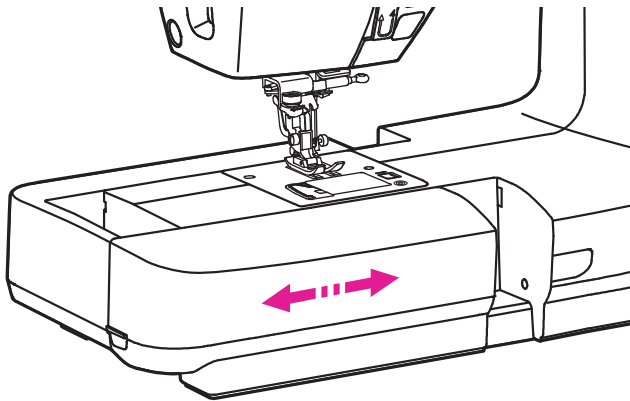


Display	In general	Sewing mode	Embroidery mode
Green	-	Constantly bright: Machine is ready to sew; long press the start/stop button to start sewing immediately.	Constantly bright: Machine is ready to embroider; long press the start/stop button to start embroidering immediately.
Orange	When the upper thread breaks; When remaining amount of bobbin thread is low, the motor will stop.	Machine is not able to sew.	Machine is not able to sew.
Red	Motor is overloaded or the shaft locked down. Once the problem solved, the lighting will resume to previous condition.	-	-



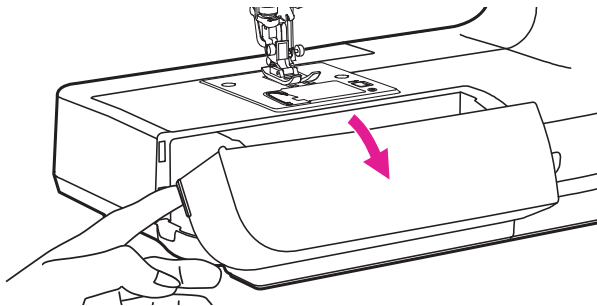
Machine Setup

Sewing table

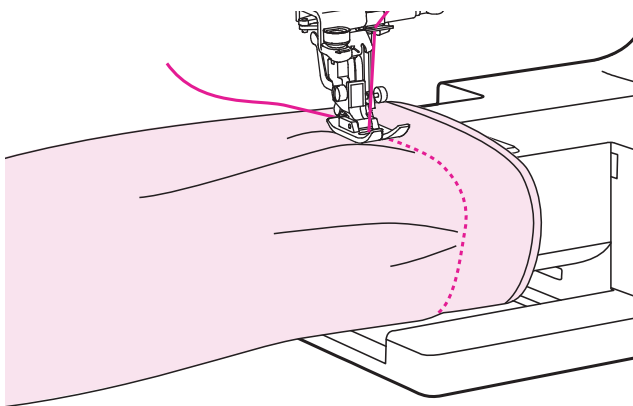


Hold the sewing table horizontally, then pull toward the left to remove it from the machine.

Attach the sewing table, and then push it to the right.



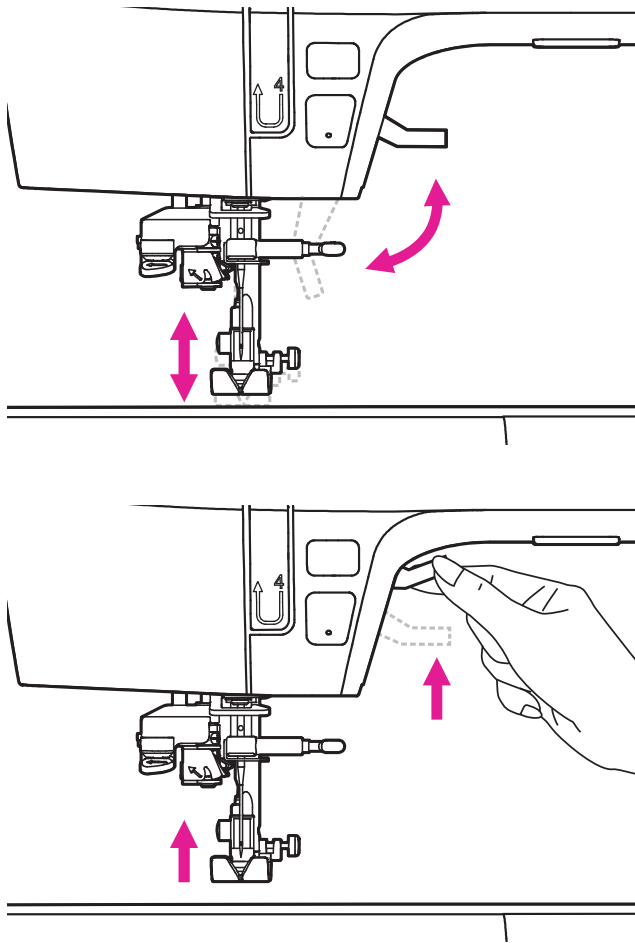
The inside space of the sewing table is used as an accessory box.



❖ Free arm

Free-arm sewing is convenient for sewing tubular areas such as pant hems and cuffs.

Two-step presser foot lifter



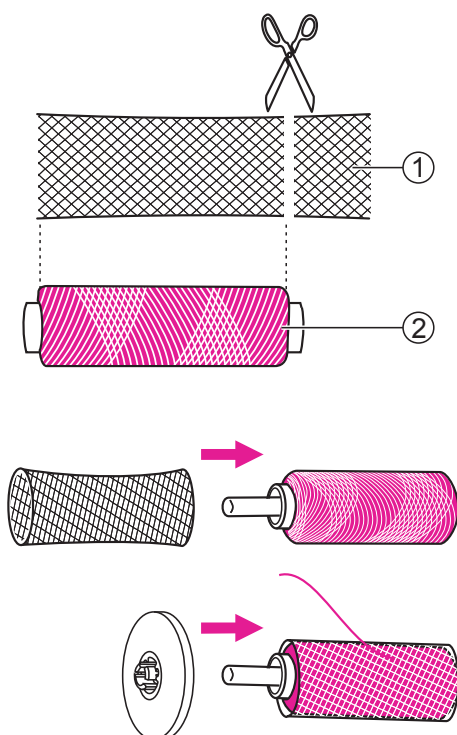
The presser foot lifter is to raise or lower your presser foot.

When sewing multi-layers or thick fabrics, the presser foot can be further raised up manually to allow enough space for your sewing work.

Note

The needle must always be at the highest position.

Using the thread net



Note

- In order to prevent tangling of the thread, please use a thread net. The net is especially usefull when using large or loose wound spools.
- Reduce the thread tension if necessary.

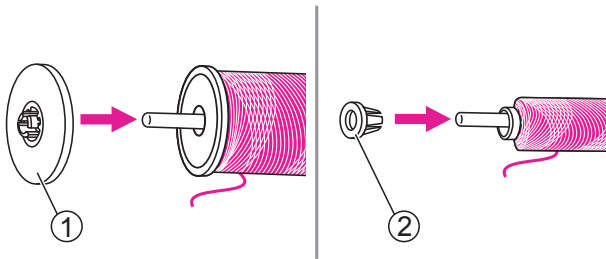
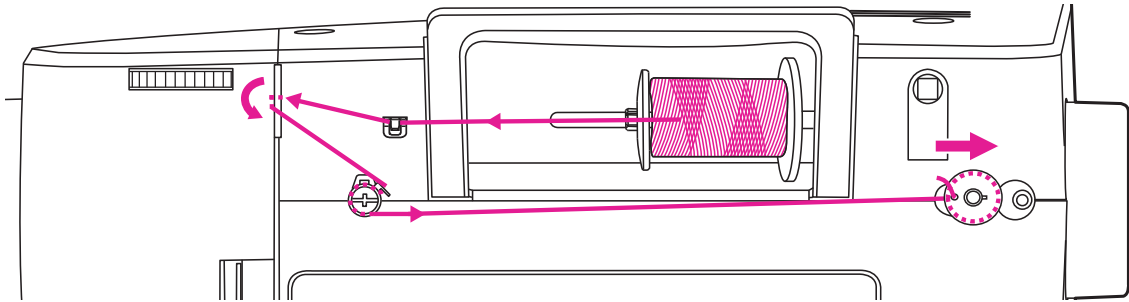
When using special threads which spin quickly off the thread spool, attach a net to the spool before using.

If the net is too long, cut the thread net to match the size of the spool.

- ① Thread net
- ② Thread

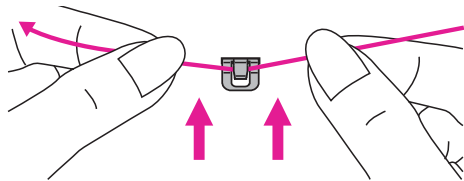
Winding the bobbin

It is important to carry out the threading correctly to get a quality sewing. Otherwise several problems will occur.

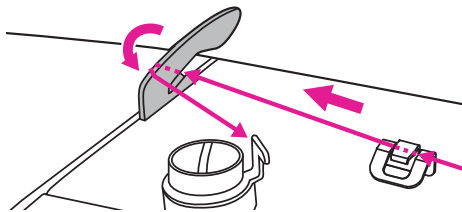


1. Place the thread and spool holder onto the spool pin. For better sewing quality, choose a proper size of the spool holder for the thread and attach it next to the spool.

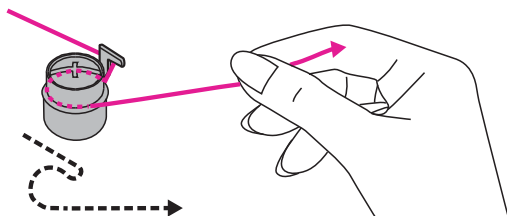
- ① Spool holder (Large)
- ② Spool holder (Small)



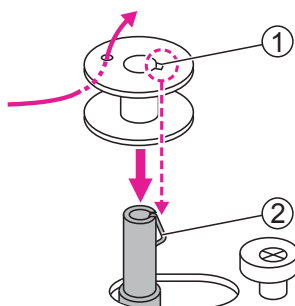
2. Draw the thread from the spool and place the thread in between the thread guide.



3. Guide the thread ahead and pull the thread through the pre-tension spring as illustrated.

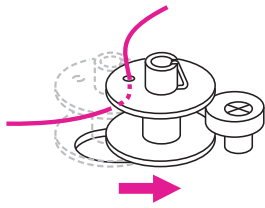


4. Wind the thread counter-clockwise around the tension discs.

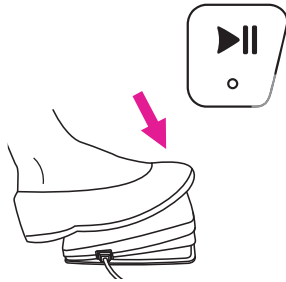
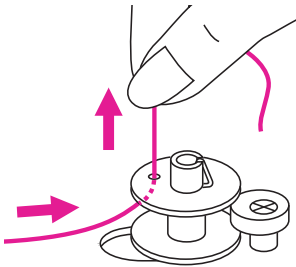


5. Place the thread end through one of the inner holes as illustrated and place the empty bobbin on the bobbin winder spindle. Then align the notch with bobbin winder spindle spring.

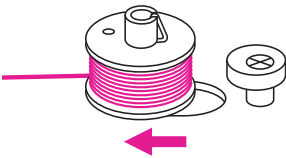
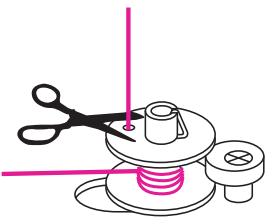
- ① Notch
- ② Bobbin winder spindle spring



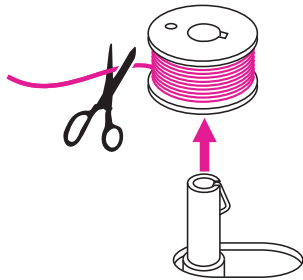
6. Push the bobbin to the right. When the bobbin winder spindle is pushed to the right, the screen will display the figure.



7. Hold the thread tail securely in one hand. Step on the foot control (only in the sewing mode) or long press the start/stop button to start winding the bobbin.



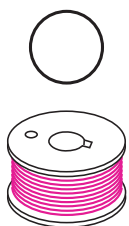
8. After the bobbin has wound a few rounds, stop the machine and cut the thread near the hole of the bobbin. Continue filling the bobbin until it is full. Once the bobbin is full, it rotates slowly. Release the foot control or press the start/stop button to stop the machine, then push the bobbin winder spindle to the left.



9. Cut the thread and then remove the bobbin.

Note

When the bobbin winder spindle is pushed to the right position, it's in "bobbin winding" mode and the machine is not allowed to sew and the handwheel will not be able to turn. To start sewing, push the bobbin winder spindle back to the left.



Note

Use a bobbin that has been correctly wound with thread, otherwise the needle may break or the thread tension will be incorrect.

Inserting the bobbin

⚠ Attention

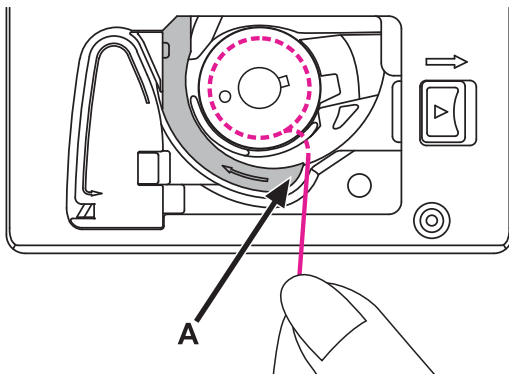
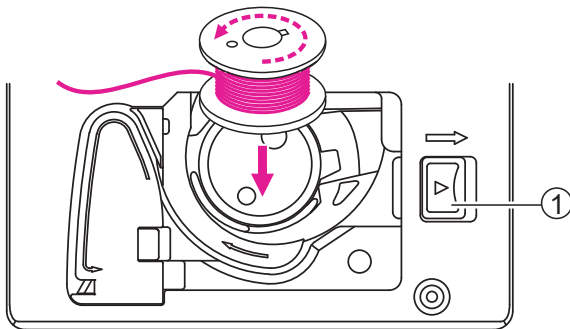
Turn the power switch to off ("O").

When inserting or removing the bobbin, the needle and the presser foot must be fully raised.

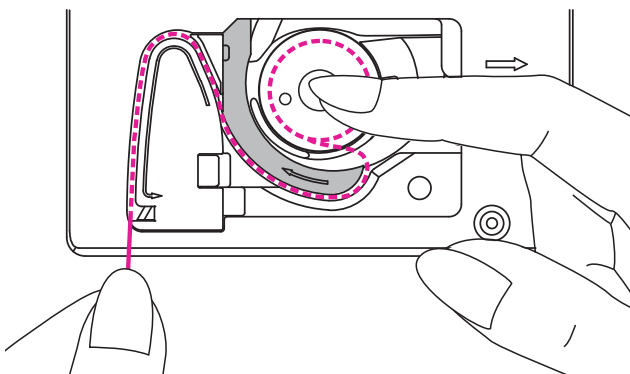
Open the bobbin cover by pushing the release button to the right.

① Release button

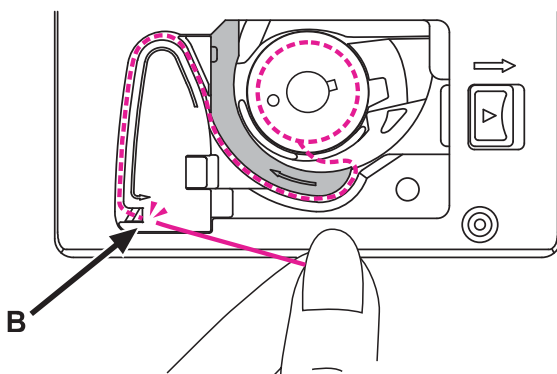
Insert the bobbin in the bobbin case with the thread running in a counter-clockwise direction (arrow).



Pull the thread through the slit (A).



With a finger hold gently on top of the bobbin, please follow the arrow markings and draw the thread into the bobbin thread guide.

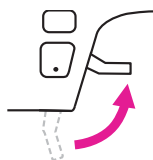
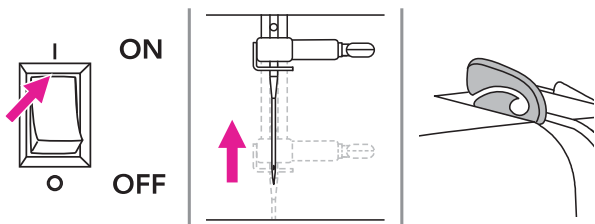
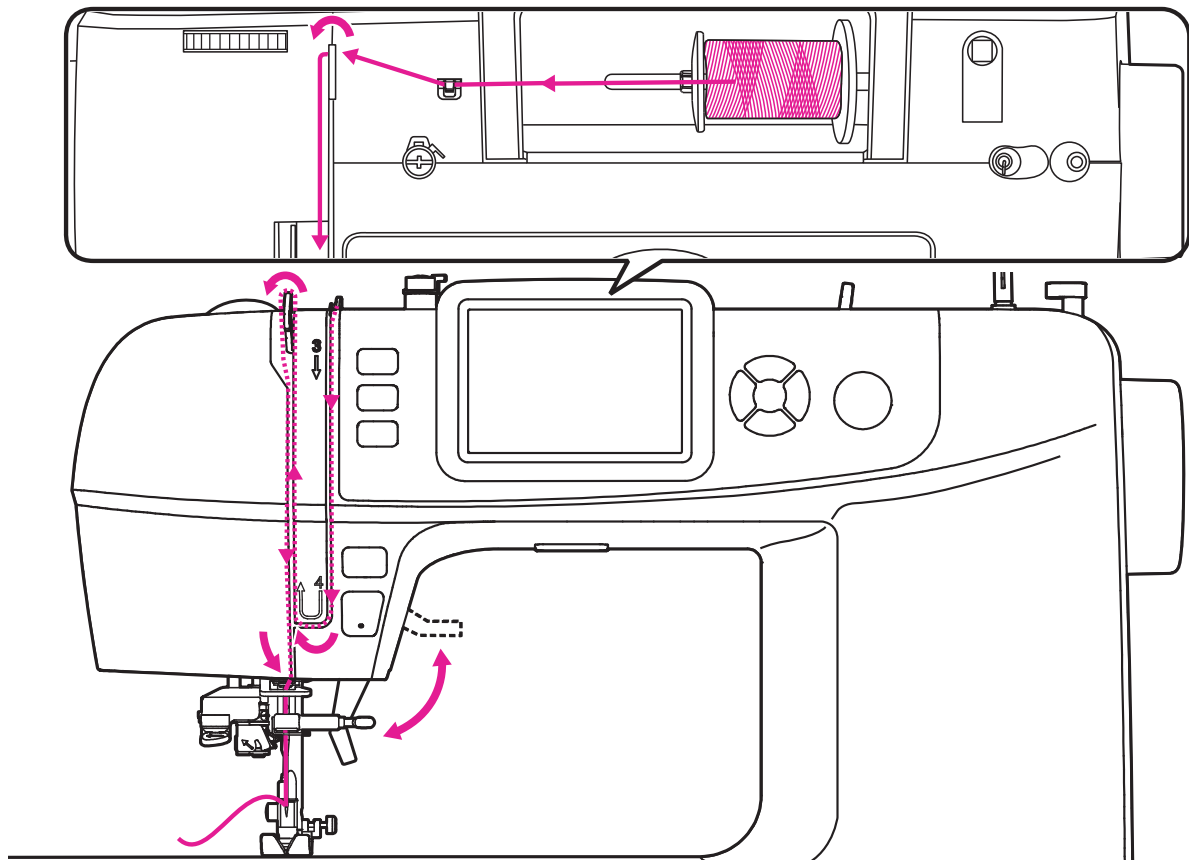


To cut off excessive thread, pull it to the cutter at point (B).

Close the bobbin cover.

Threading the upper thread

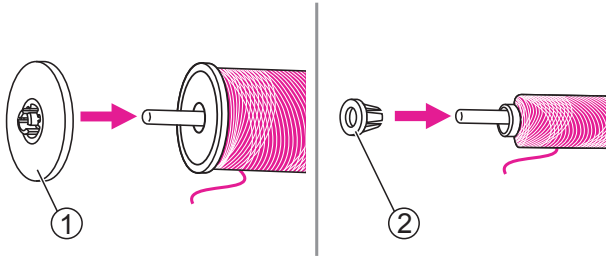
It is important to carry out the threading correctly to get a quality sewing. Otherwise several problems will occur.



⚠ Attention

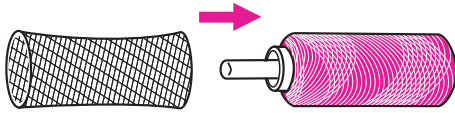
The needle threader can be with a 75/11 through 100/16 home sewing machine needle.

1. Turn the power switch to on ("I"), the needle and take-up lever will automatically raise to the highest position.
2. Raise the presser foot lifter.

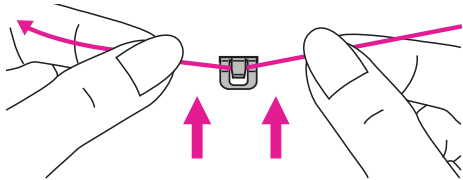


3. Place the thread and spool holder onto the spool pin. For better sewing quality, choose a proper size of the spool holder for the thread and attach it next to the thread.

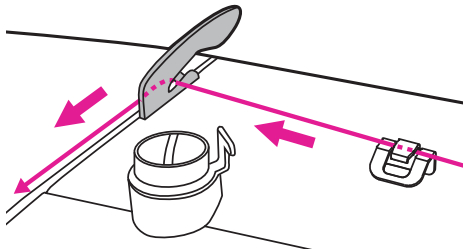
- ① Spool holder (Large)
- ② Spool holder (Small)



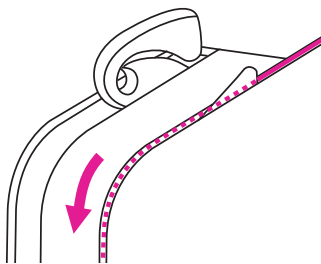
In order to prevent tangling of the thread, please use a spool net. The net is especially useful to work from large or loose wound spools.



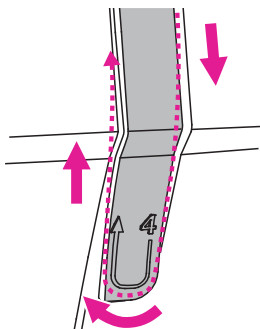
4. Draw the thread from the spool and place the thread in between the thread guide.



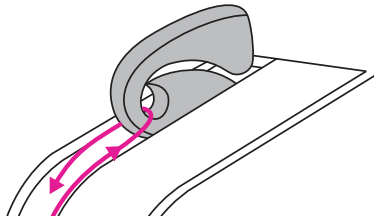
5. Guide the thread ahead and pull the thread through the pre-tension spring as illustrated.



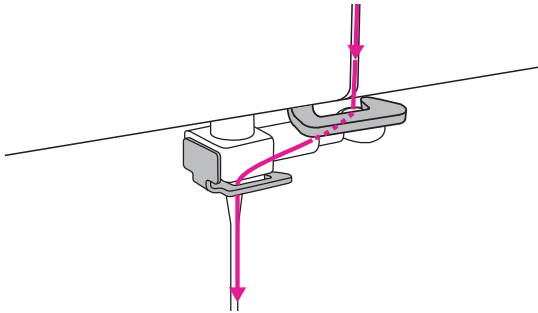
6. Continue to guide the thread into the silver discs to keep the thread in proper tension.



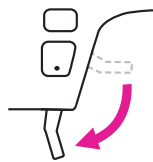
7. Pass the thread under the take-up spring then pull it upwards as arrow marks illustrated.



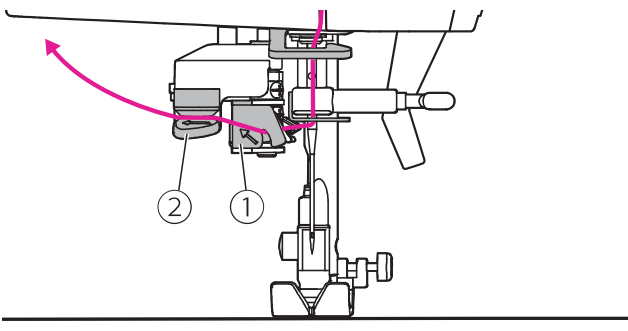
8. Pull the thread to the top then pass the thread through the slotted eye of the take-up lever. Guide the thread down afterwards.



9. Pass the thread behind the flat, horizontal thread guide. Threading to the right side of the thread guide.



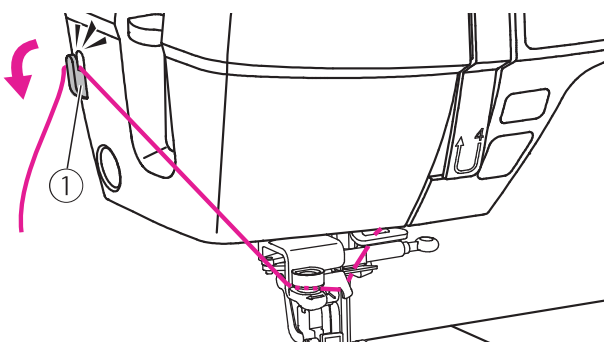
10. Lower the presser foot lifter.



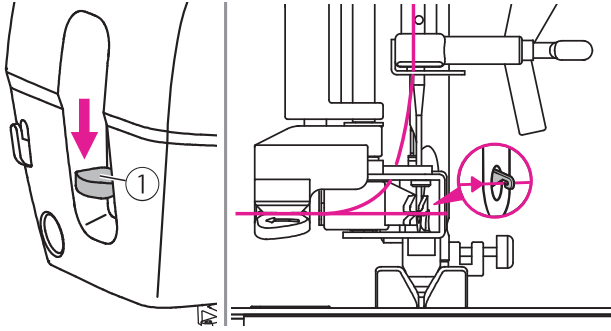
11. Pull the thread to the left, pass through the guide plate from back to the front and then through the thread guide disk.
 - ① Guide plate
 - ② Thread guide disk

Note

Please make sure the thread is actually pass through the guide plate and thread guide disk, or it might cause thread cannot threading the needle eye successfully.

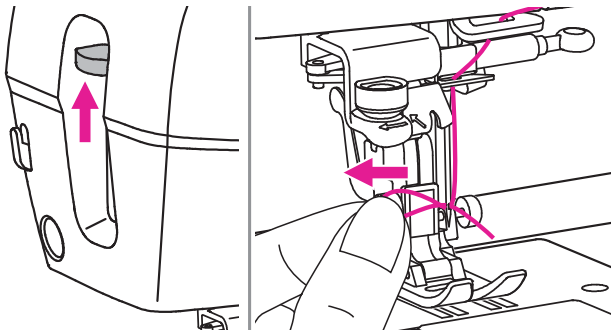


12. Guide the threads to the side of the face plate and into the thread cutter to cut them.
 - ① Thread cutter



13. Press down the automatic needle threader lever on the left side of face cover to the bottom, when you hear a "click" sound, it is the correct position and the hook pin passes through the needle eye.

① Lever

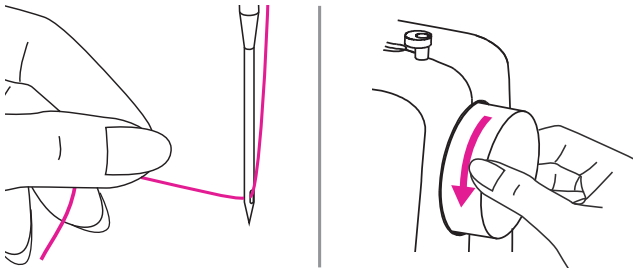


14. Raise the lever, the hook will rotate and pass the thread through the needle eye to form a loop.

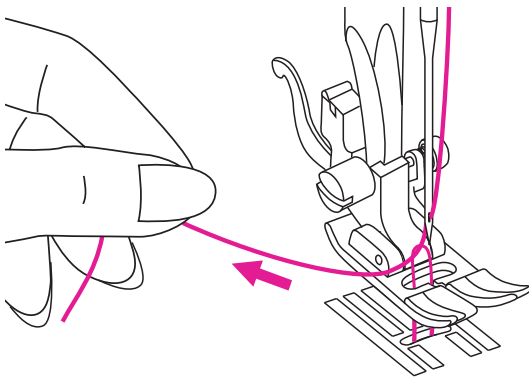
Pull the thread through the needle eye to finish threading.

Bringing up the bobbin thread

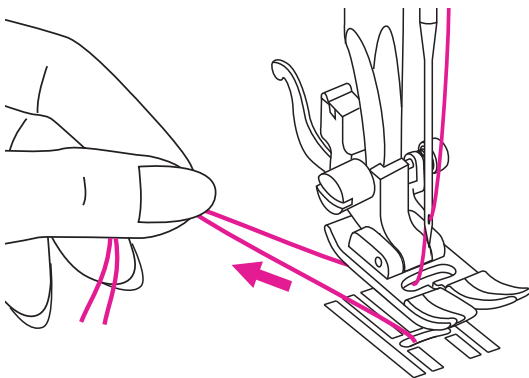
When sewing gathering or smocking stitch, bring up the bobbin thread first as below instruction.



Hold the upper thread with your left hand. Turn the handwheel towards you (counter-clockwise) to lower the needle down below the needle plate then raise it to bring the bobbin thread up.



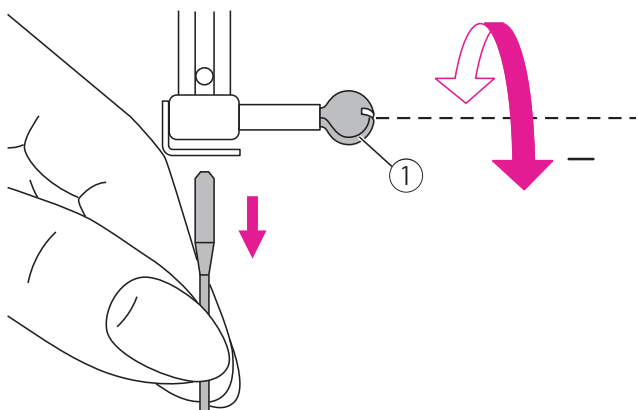
Gently pull on the upper thread to bring the bobbin thread up through the needle plate hole. The bobbin thread will come up in a loop.



Pull both threads to the back under the presser foot.

Replacing the needle

Change the needle regularly, especially when it shows signs of wear or if it causes problems.

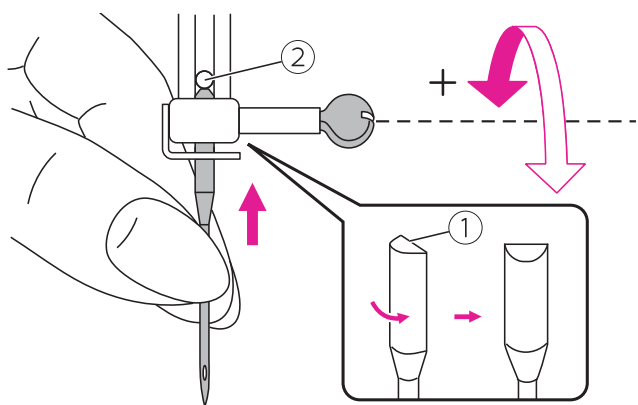


⚠ Attention

Turn the power switch to off ("O") when carrying out below operations!

Turn the handwheel toward you to raise the needle then loosen the needle clamp screw to remove the needle.

① Needle clamp screw

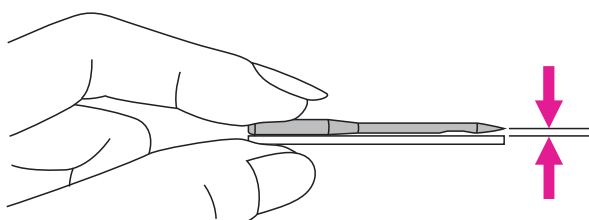


When inserting a new needle, keep the flat side of the shaft to the back.

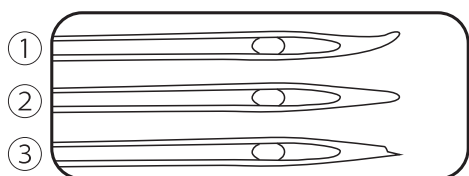
Push the needle into the clamp until it touches the pin and stops. Then secure it by tightening the needle clamp screw.

① Flat side of the shaft

② Pin



Needles must be in perfect condition.







Problems can occur with:

① Bent needles

② Blunt needles

③ Damaged points

Matching needle/fabric/thread

FABRICS	THREAD	NEEDLE SIZE
Lightweight fabrics- thin cottons, voile, serge, silk, muslin, Qiana, interlocks, cotton knits, tricot, jerseys, crepes, woven polyester, shirt & blouse fabrics.	Light-duty thread in cotton, nylon, polyester or cotton wrapped polyester.	75/11 
Medium weight fabrics- cotton, satin, kettleclote, sailcloth, double knits, lightweight woolens.	Most threads sold are medium size and suitable for these fabrics and needle sizes.	80/12 
Medium weight fabrics- cotton duck, woolen, heavier knits, terrycloth, denims.	Use polyester threads on synthetic materials and cotton on natural woven fabrics for best results.	90/14 
Heavyweight fabrics- canvas, woolens, outdoor tent and quilted fabrics, denims, upholstery material (light to medium).	Always use the same thread on top and bottom.	100/16 

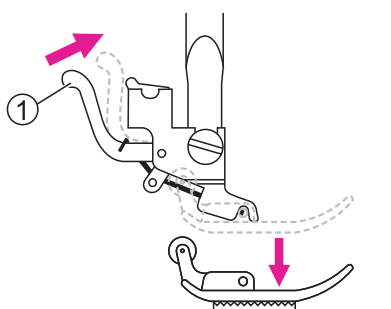
Note

- In general, fine threads and needles are used for sewing fine fabrics, thicker threads and needles are used for sewing heavy fabrics.
- Always test thread and needle size on a small piece of fabric which will be used for actual sewing.
- Use the same thread for needle and bobbin.
- Use a stabilizer or place a backing for fine or stretchy fabrics, and select the correct presser foot.
- It is recommended that a 90/14 needle should be used when embroidering on heavyweight fabrics or stabilizing products (for example, denim, puffy foam, etc.). A 75/11 needle may bend or break, which could result in injury.
- For transparent nylon thread, always use needle 90/14 - 100/16. The same thread is usually used for the bobbin thread and upper threading.

Changing the presser foot

⚠ Attention

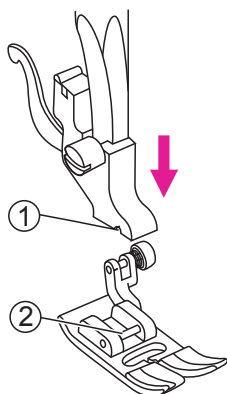
- Turn the power switch to off ("O").
- Always use the proper foot for the selected stitch. The wrong foot can cause the needle to break.



❖ Remove the presser foot

Raise the presser foot lifter. Press the back lever to release the presser foot.

- ① Lever

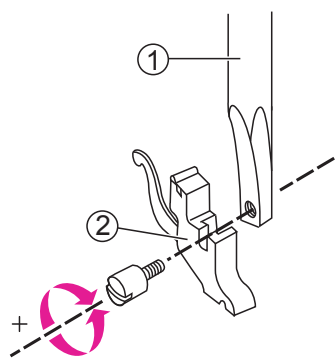


❖ Attach the presser foot

Lower the presser foot lifter until the cut-out meets the pin.

The presser foot will attach to the presser foot holder automatically.

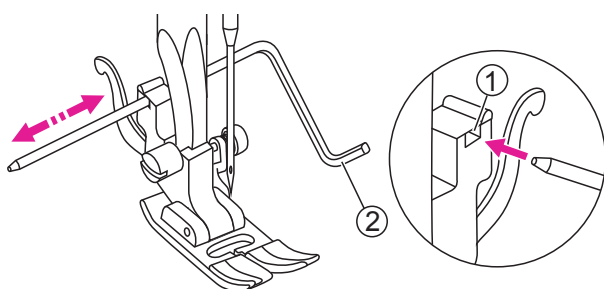
- ① Cut-out
- ② Pin



❖ Remove and insert the presser foot holder

Raise the presser foot lifter. Align the presser foot holder with the lower left side of the presser bar. Hold the presser foot holder, then tighten the screw using the enclosed screwdriver.

- ① Presser foot bar
- ② Presser foot holder

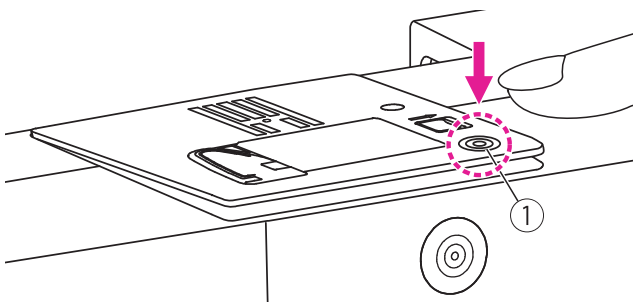
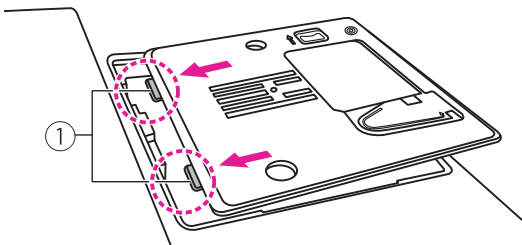
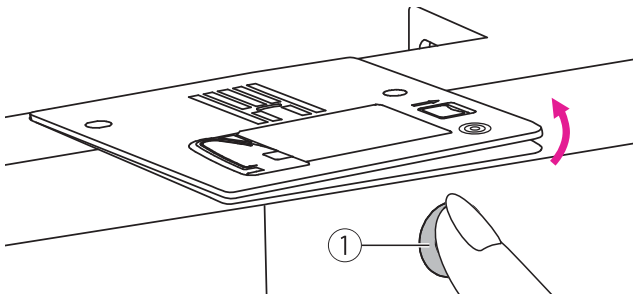
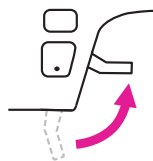
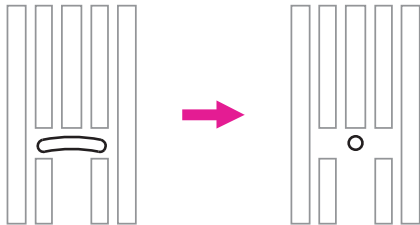
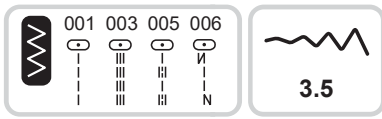


❖ Insert the edge/quilting guide

Insert the edge/quilting guide in the slot as illustrated. Adjust the needed width according to your sewing applications.

- ① Slot
- ② Edge/quilting guide

Replacing the needle plate



⚠ Attention

- Turn the power switch to off ("O").
- Only specific straight stitches are applicable while using straight stitch plate. (A group patterns 001, 003, 005, 006)

The straight stitch plate is recommended for embroidery mode for better embroidery quality. It can be also used for straight stitches in middle needle position in normal sewing mode.

The particular design of smaller central hole can give a better support of the fabric during straight stitch sewing.

Thus, the fabric can be prevented from being pulled down into bobbin/hook area, especially in the beginning or end of a seam.

Raise the presser foot lifter.

Press the needle plate button to remove the needle plate.

① Needle plate button

To change the straight stitch plate, set the front edge of the needle plate to the notches.

① Hook

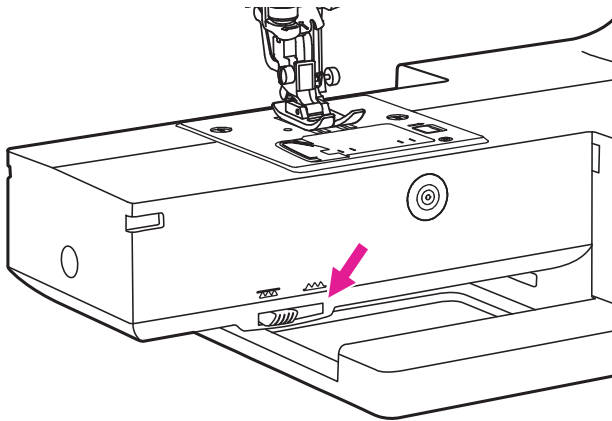
At the marking on the right side of the stitch plate, push the stitch plate downwards until it close.

① Needle plate marking

⚠ Attention

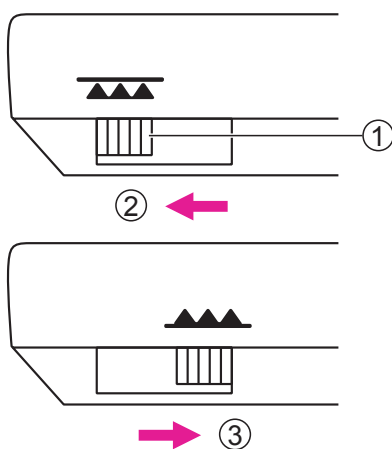
Close needle plate before operating machine.

To raise or drop the feed dogs



The drop feed lever can be seen on the base at the front side of the sewing machine, when the sewing table is opened.

Sliding the drop feed lever to lower or raise the feed dogs. When lever is in raised position, the feed dog will arise automatically when you are sewing.

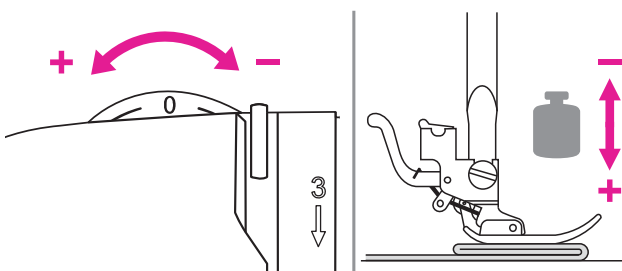


- ① Drop feed lever
- ② Lowered position
- ③ Raised position

Note

When you finish the work, (e.g. button sewing, free motion darning, embroidery and monogramming), please move the drop feed lever to raised position for general sewing purpose.

Adjusting the presser foot pressure



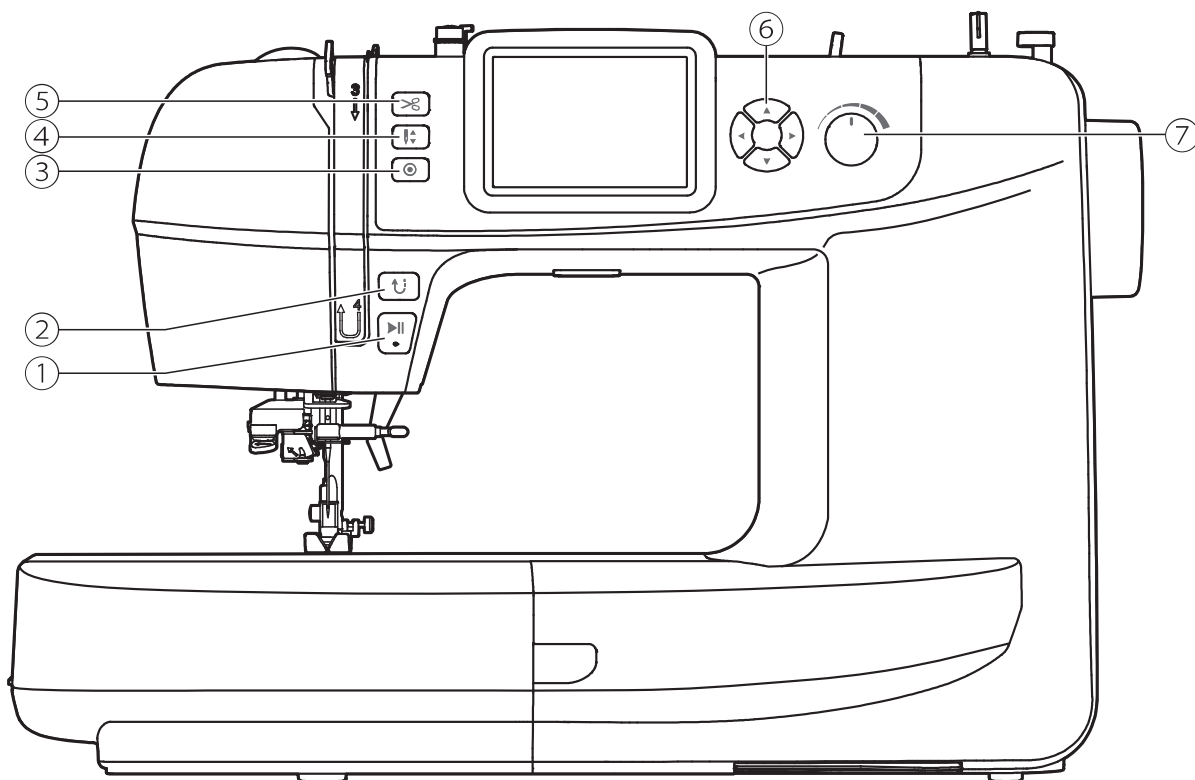
The presser foot pressure dial is on the top left of the face plate.

The presser foot pressure of the machine has been pre-set and requires no particular adjustment for general sewing.

Basic presser foot pressure setting: "0".

For sewing with very thin fabric, reduce the pressure by turning the knob clockwise (-1, -2, -3) and for heavy fabric, increase the pressure by turning it counter-clockwise (+1, +2).

Operation buttons



1. Start/stop button

Long press the start/stop button to start machine running. Press the start/stop button again to stop machine. The machine rotates slowly at the beginning of the sewing.

The sewing speed can be controlled by the speed adjustment dial.

This way you may operate the machine without foot control.



2. Reverse button (In sewing mode)

When the A group patterns 001-007 are selected, the machine will sew reverse at a low speed if the reverse button is pressed. The machine will sew forward after the button is released.

When the A group patterns 008-016, B group patterns 029-101 are selected, the machine will immediately sew 3 locking stitches when the reverse button is pressed, then automatically stop.



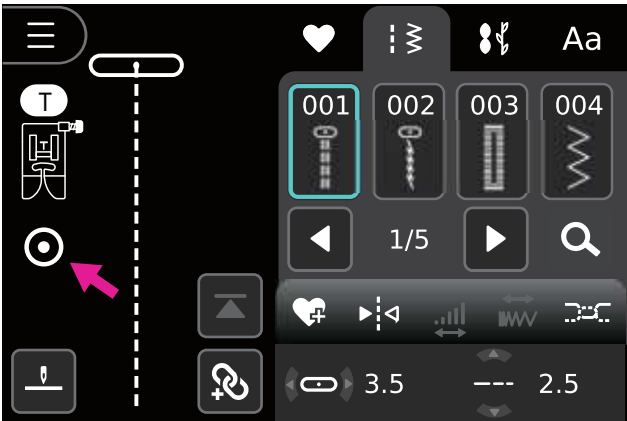
3. Auto-lock button (In sewing mode)

When machine is not sewing: Press the auto lock button, machine will sew 3 stitches in the same position then stop.

During machine is sewing: When A group patterns 001-007 are selected and the auto-lock button is pressed, the machine will sew 3 locking stitches. Then it will stop automatically.

During machine is sewing: When A group patterns 008-016, B group patterns 029-101 are selected and the auto-lock button is pressed, the machine will sew 3 locking stitches at the end of the current pattern. Then it will stop automatically. The function will be cancelled if you press the button once again or select another pattern.

The LCD screen will display the icon until the machine is stopped.

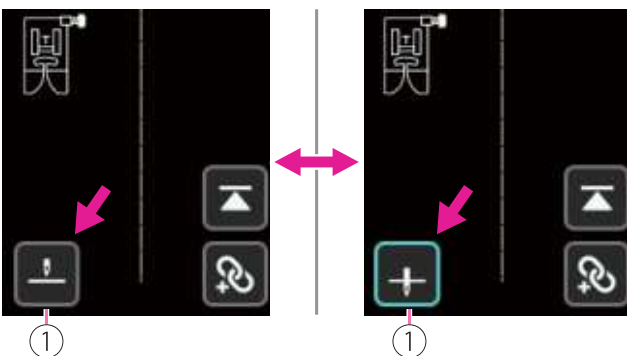


4-1. Needle up/down position button

Press needle up/down button, the needle will go up and pressing again will go down.

Note

During sewing, can not use the needle up/down button.



4-2. Change the Needle up/down position

Click the Needle up/down setting icon on the LCD screen, when the icon shows needle on the top, the machine stops with the needle in the highest position. When the icon shows needle underneath, the machine stops with the needle in the lowest position.

- ① Needle up/down setting



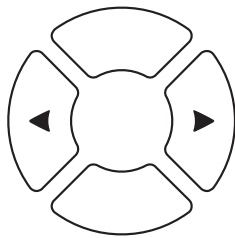
5. Thread cutter button

Press this button after finishing sewing and the machine will trim the thread.

After executing cutting the thread, press start/stop button then will continue to sew.

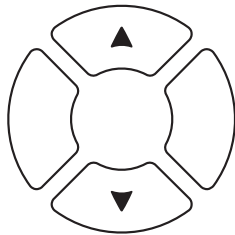
Note

During sewing, can not use the thread cutter button.



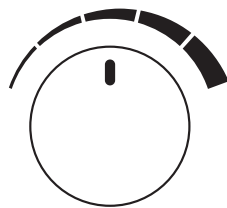
6-1. Value setting buttons (Right/Left)

The Right/Left arrow button can modify the values.



6-2. Value setting buttons (Up/Down)

The Up/Down arrow button can modify the values.



7. Speed adjustment dial

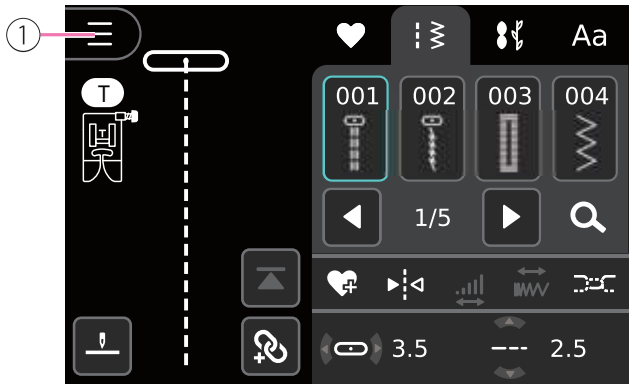
In the sewing mode or embroidery mode, the speed adjustment dial can control the sewing speed. Turn the dial clockwise to make sewing speed faster. Turn the dial counter-clockwise to make sewing speed slower.

The sewing speed can be adjusted without foot controller.



Instruction

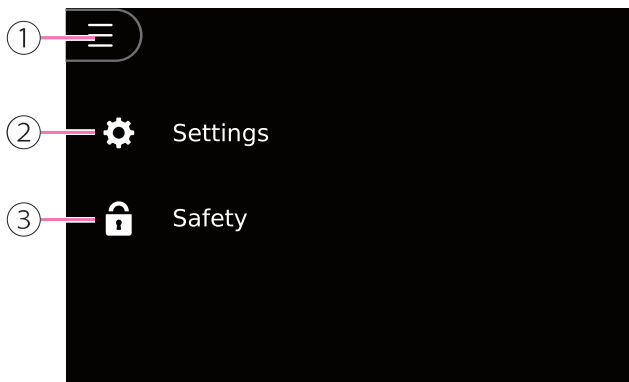
LCD screen



- ① Open menu selection page

Note

- Use only your finger or the included stylus to tap the screen. Please do not use a sharp pencil, screwdriver, or other stiff, sharp objects. Do not click the screen forcefully. If click hard or use a sharp objects may damage the screen.
- Using stylus on the screen for a precise operation.



- ① Close menu selection page
- ② Settings
- ③ Safety



①



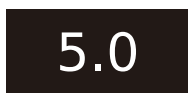
②



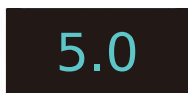
③



④



⑤












⑥

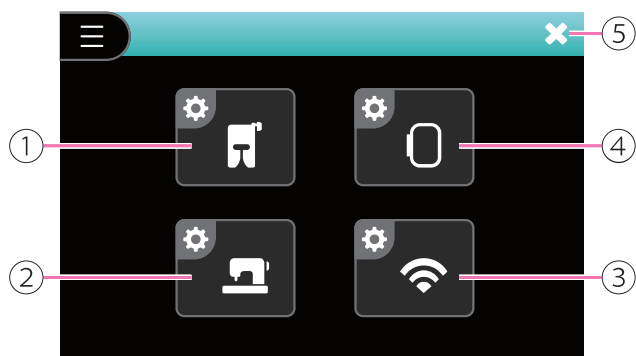
Note

- ① Function not available
- ② Function available
- ③ Function is already enabled or active
- ④ Value is not adjustable
- ⑤ Default value
- ⑥ Value is already adjusted, click on the value to go back its default value.

❖ Function buttons and icon

Icon	Name	Application
	Switch pages	Switch pages up/down
		
		
	Turn on/off switch	① Turn on function ② Turn off function
	Reduce/increase	Reduce or Increase setting values
	Select combine patterns, layer switching	Switch up and down to view patterns or layers
	Next step	To the next screen
	Back	
	Close	Sewing: Close window Embroidery: Back to embroidery edit screen/close window

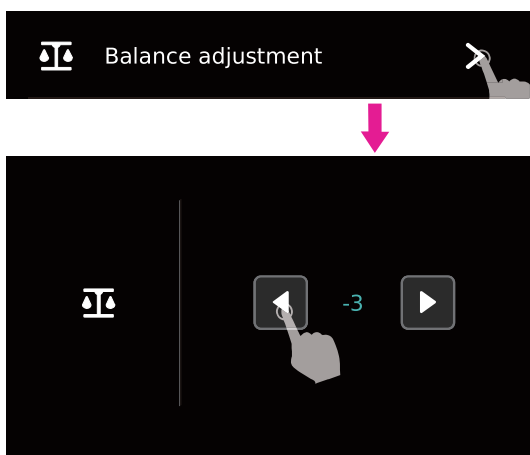
Settings



- ① Sewing setting
- ② Machine setting
- ③ Wi-Fi setting
- ④ Embroidery setting
- ⑤ Close setting page

Note

Click Close setting page, the settings will be saved and returned to the previous operation page.

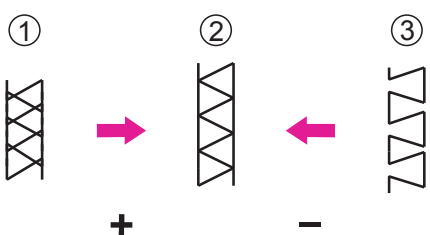


❖ Sewing setting

Balance adjustment

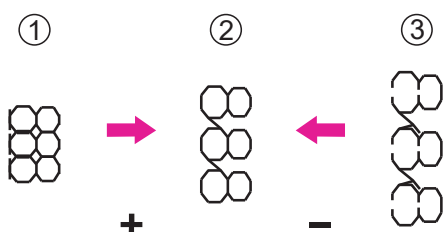
Different fabrics, threads and stabilizers will affect the sewing result. It may result in the inability to sew the correct pattern. Balance adjustment can correct such differences and the pattern can be made according to the most suitable adjustment for selected fabric.

Select a pattern to sew, comparing the sewing result with the desired patterns, click the Left or Right icon to adjust the balance, the machine will automatically adjust the stitch balance accordingly.



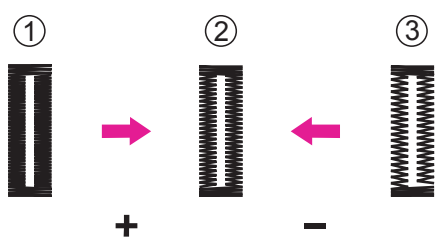
Adjusting distorted stretch stitches

- ① Stitches are too compressed, click the Right icon
- ② Stitches in normal situation
- ③ Stitches are too drawn out, click the Left icon



Adjusting distorted letters or numbers

- ① Letters or numbers are overlap, click the Right icon
- ② Letters or numbers in normal situation
- ③ Letters or numbers are too far, click the Left icon

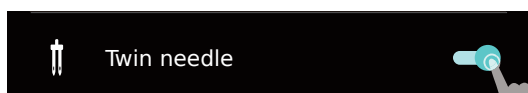


Adjusting the stitch density for iconhole

- ① Buttonhole is too dense, click the Right icon
- ② Buttonhole in normal situation
- ③ Buttonhole is less dense, click the Left icon

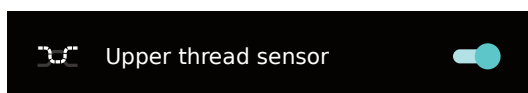
Note

It takes practice on a scrap piece of the same type of fabric. Please use the same fabric of the project and do a sewing test in advance.



Twin needle setting

To turn on/off the twin needle function. Default setting is off.



❖ Machine setting

Upper thread sensor

Turn on/off upper thread sensor, when the upper thread is broken, not threaded correctly or thread is about to run out, a warning message will pop out on the screen, and the status indicator will display in orange light.



Bobbin thread sensor

Turn on/off bobbin thread sensor, when the bobbin thread is broken or thread is about to run out, a warning message will pop out on the screen, and the status indicator will display in orange light.



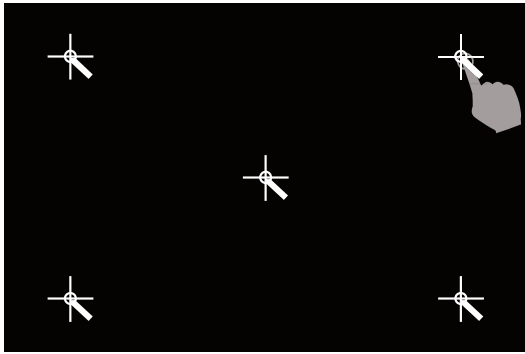
Hint sound

To turn on/off the sound. Default setting is on.



Screen calibration

Follow and click the mark shown on the screen, clicked all 5 points to finish screen calibration.

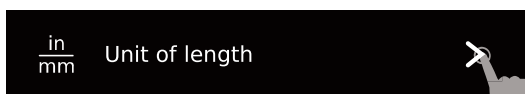
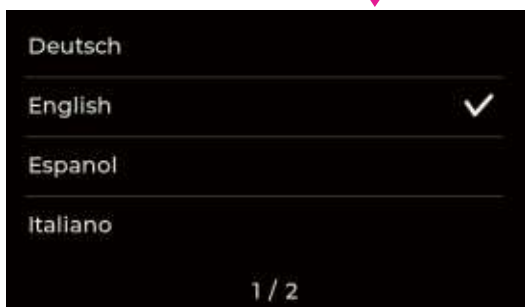


When turn on the machine, press and hold the Value setting buttons (Up/Down) at the same time to enter the screen calibration function.



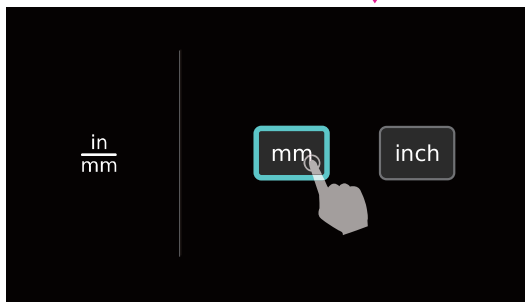
Language

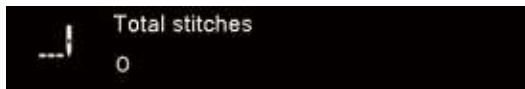
To select different languages.



Unit of length

To select different unit of length. Default setting is mm.



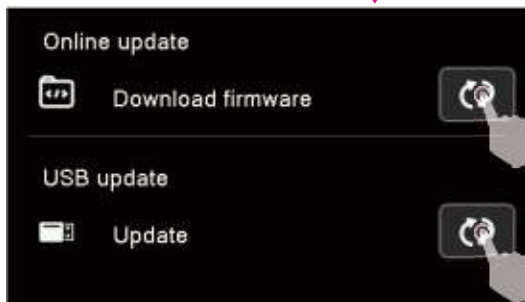
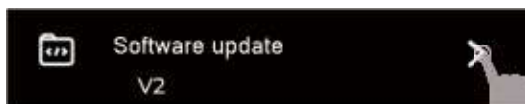


Machine information

Total stitches: Will display the total number of stitches have used after the machine left the factory, including sewing and embroidery.



Total stitches after last maintenance: Counter for total stitch finished (including embroidery), it's a reminder of normal maintenance.

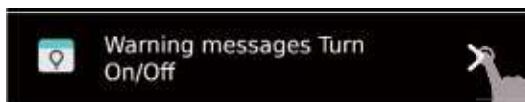


Software update

Once machine is online, it will automatically search the latest software version. Whenever update version is available, you can click the icon to download and update the software.

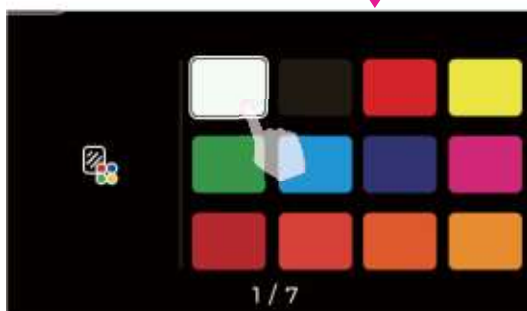
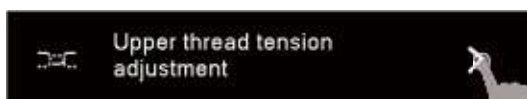
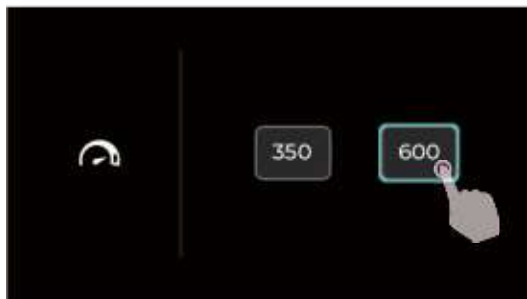
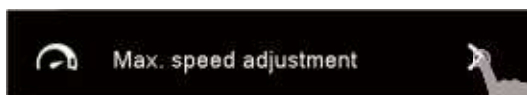
Note

When using USB flash drive to update the software, please wait until the update is completed then remove the USB. If the USB is removed during software update, the machine will be unable to use. Restart the machine after the software is update successfully.



Warning messages Turn On/Off

The partial warning messages can be turned on and off. The messages turned off will not display during the operation.



❖ Embroidery setting

Max. speed adjustment

This function can adjust the embroidery speed.

Upper thread tension adjustment

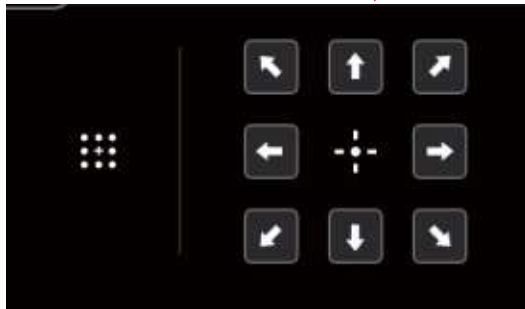
Adjusting the upper thread tension in the Setting page will affect to all embroidery patterns.

Fabric color

Select the fabric color.

Thread brand

Display the current thread brand.



Embroidery hoop calibration

The embroidery hoop calibration is to enable the needle to be positioned in the center position.

The machine will automatically detect the size of the connected embroidery hoop, and then move to the center of the hoop.

Click the direction arrow icon on the screen to move the embroidery hoop, the center of the hoop will align to the needle position to complete the calibration.

Note

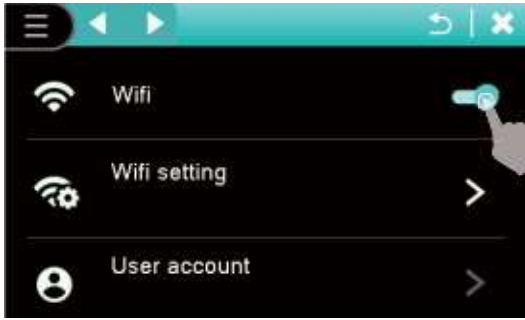
Please make sure the embroidery unit, embroidery hoop and embroidery sheet are installed before using this feature.



Trim thread

The default setting of thread trim is on.

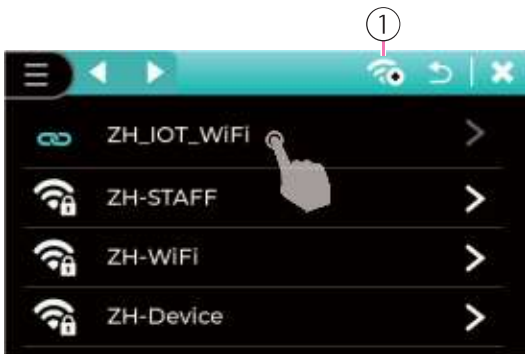
The machine will trim the thread automatically when the stitch distance exceeds 6mm in the same color lump.



❖ Wi-Fi setting

Connect to Wi-Fi

Turn on the Wi-Fi connection.



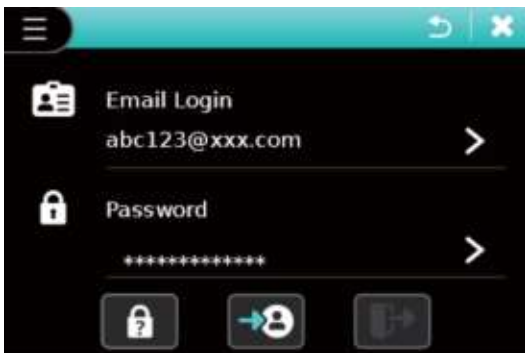
Searching for internet

Search Wi-Fi router and select Wi-Fi router.

Note

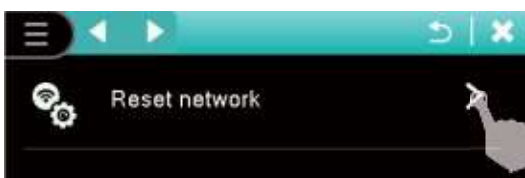
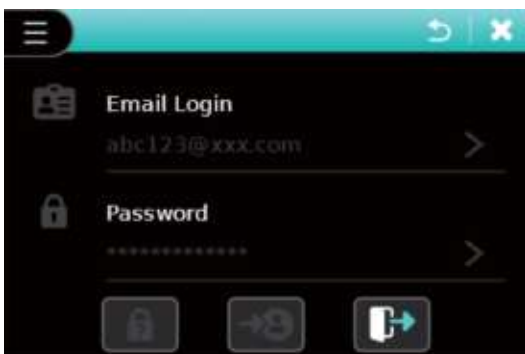
Adding a new network, please input the name and password then connect.

① Adding a new network



User account

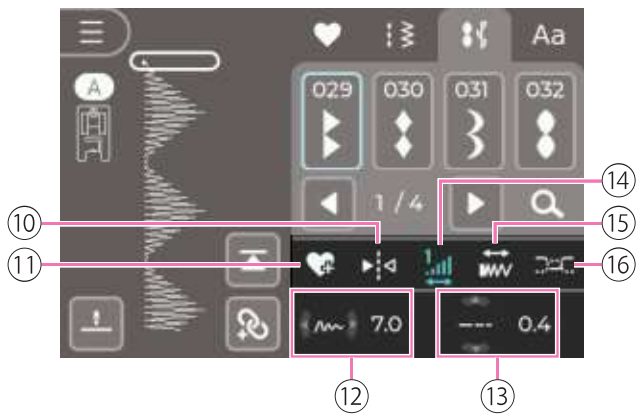
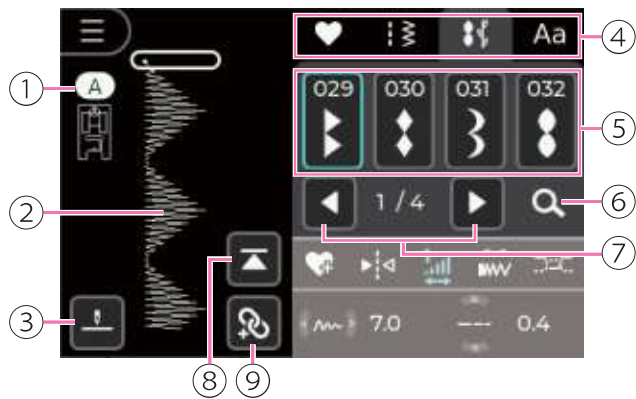
When Wi-Fi have successfully been connected, please input user account.



Reset network

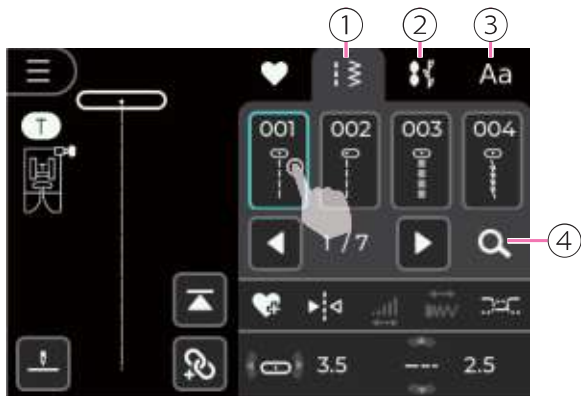
Restore factory settings. To remove all personal settings.

Selecting stitch



❖ Introduction of sewing mode screen

- ① Suggested presser foot icon and reference number
- ② Needle position display
- ③ Needle up/down setting
- ④ Stitch pattern/letters category
- ⑤ Stitch pattern list
- ⑥ Stitch pattern search
- ⑦ Switch pages
- ⑧ Back to initial stitch
- ⑨ Combination mode
- ⑩ Horizontal mirror function
- ⑪ Add current stitch pattern to my favorite
- ⑫ Needle position/Stitch width
- ⑬ Stitch length
- ⑭ Elongation
- ⑮ Density
- ⑯ Thread tension



❖ Selecting stitch

Turn on the machine and enter the sewing mode.

Select the desired stitch pattern by click the icon or search by using reference number.

- ① Utility stitches group
- ② Decorative stitches group
- ③ Alphabet stitches group
- ④ Search for stitch pattern



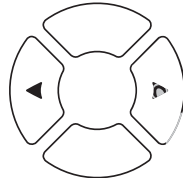
Click the Search icon and go to searching page, it can refer to the chart and key in the stitch pattern number. Click Confirm icon after key in the pattern number, close the page and it will appear the selectd stitch pattern.

Click the Delete icon to delete last digit number, long press the Delete icon to delete all numbers.

- ① Confirm
- ② Delete
- ③ Close

After select the stitch pattern, the value is adjustable.

Altering stitch



❖ Altering the stitch width

When you select a stitch, the machine will automatically set the recommended stitch width values which will be shown on the LCD screen.

Press the Value setting buttons (Right/Left) to adjust the stitch width. For a narrower stitch, press the Left arrow button. For a wider stitch, press the Right arrow button.



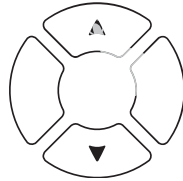
Click the Width icon will pop out adjustment window which can adjust the values.



Click the Left/Right arrow icon to adjust the stitch width.

Click the Width value can be returned to the default value.

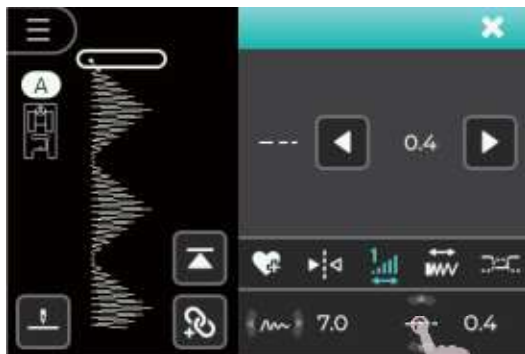
Different stitches will have different width limitation.



❖ Altering the stitch length

When you select a stitch, the machine will automatically set the recommended stitch length values which will be shown on the LCD screen.

Press the Value setting buttons (Up/Down) to adjust the stitch length. For a shorter stitch length, press the Down arrow button. For a longer stitch length, press the Up arrow button.



Click the Length icon will pop out adjustment window which can adjust the values.



Click the Left/Right arrow icon to adjust the stitch length.

Click the Length value can be returned to the default value.

Different stitches will have different length limitation.



❖ Altering the thread tension

Proper tension setting is important for sewing. There is no single tension setting appropriate for all the stitch functions and fabrics.

After the stitch pattern is selected, the machine will automatically apply its default thread tension value.

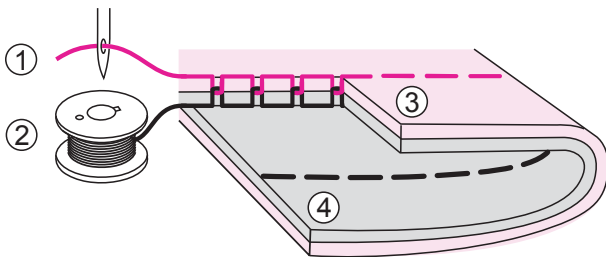


Click the Thread tension icon will pop out adjustment window which can adjust the values.



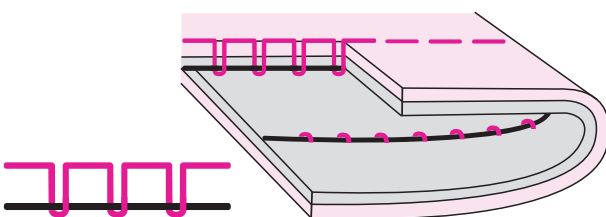
Click the Left/Right arrow icon to adjust the Thread tension.

Click the Thread tension value can be returned to the default value.

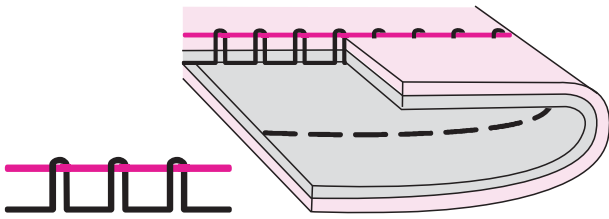


Normal thread tension for straight stitch sewing.

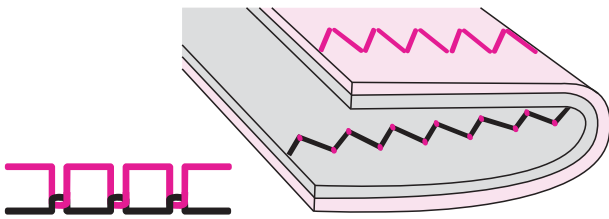
- ① Upper thread
- ② Bobbin thread
- ③ Surface
- ④ Wrong side



Thread tension is too loose for straight stitch sewing. To increase the tension, click the Right arrow icon.



Thread tension is too tight for straight stitch sewing. To reduce the tension, click the Left arrow icon.



Normal thread tension for zig zag and decorative sewing.

For all decorative sewing you will always obtain a nicer stitch and less fabric puckering.

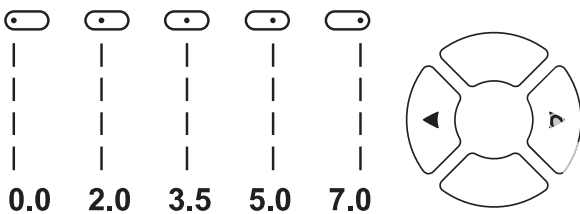
When a small number of the upper thread appears on the bottom side of fabric is the correct thread tension.



❖ Changing needle position

When the A group patterns 001-006 are selected, the needle position can be changed by adjusting the stitch width.

The default position setting to "3.5", center position.



Press the Value setting buttons (Right/Left) to adjust the needle position. Press the Right arrow button to move the needle position to the right. Press the Left arrow button to move the needle position to the left.



Click the Needle position icon will pop out adjustment window which can adjust the values.



Click the Left/Right arrow icon to adjust the Needle position.

Click the Needle position value can be returned to the default value.

Setting stitch

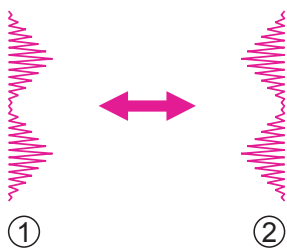


After selecting a stitch pattern, you can adjust its function setting.

- ① Horizontal mirror function
- ② Elongation
- ③ Density

Note

If the pattern does not have this function, the icon will turn gray and can not be selected.



❖ Mirror

The mirror function is to create the mirror image of selected stitch.

Click Horizontal mirror icon, the pattern can be flipped horizontally.

The mirror stitch will display on the LCD screen.

- ① Normal pattern
- ② Horizontal mirror function

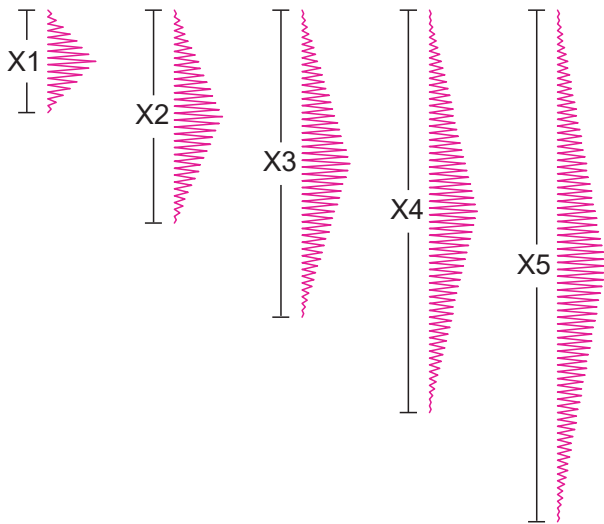


❖ Elongation

Click the Elongation icon to adjust the stitch which can be elongated up to 5 times the original length.

Continuously click the Elongation icon to adjust Elongation size, from 1 → 5.

The elongation stitch will display on the LCD screen.



The machine will continue to sew the elongation stitch until you reset the elongation ratio.

When the width or length or stitch is changed, a greater variety of patterns are available.



❖ Density

Click the Density icon to adjust the density.

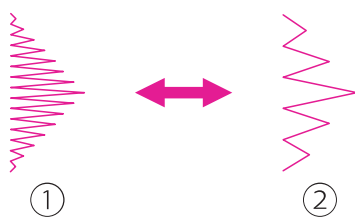


Click the Length value icon and adjustment window will pop out for value adjustment. Reduce density, click the Right arrow icon. Increase density, click the Left arrow icon.

The density stitch will display on the LCD screen.

Note

It also can use the physical Value setting buttons (Up/Down) to adjust the density function.



- ① Normal pattern
- ② Reduce density

My favorite program

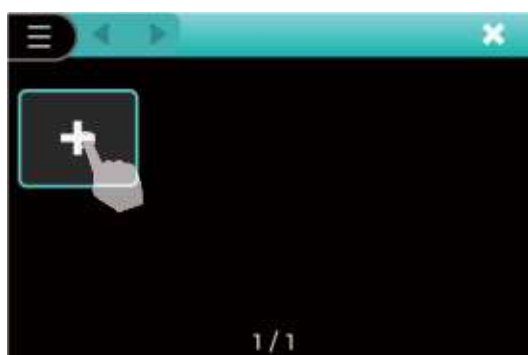
You can set your favorite stitches and alphabets that you use most. Since stored patterns are not lost after the sewing machine is turned off, they can be recalled at any time.



❖ Save pattern

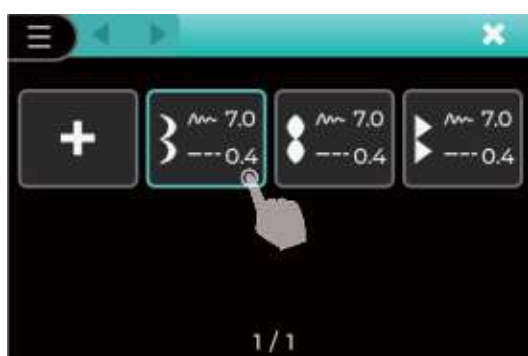
After editing the pattern, click My favorite icon to save the pattern.

- ① Add current stitch pattern to my favorite



Click the "+" icon to save the pattern.

There are 20 patterns that can be saved in my favorite program, which creates a quick and easy access at all times.



❖ Overwrite pattern

Click My favorite icon and select the pattern that want to be overwritten.

The warning message will pop out then click Confirm icon to overwrite the pattern.



❖ Recall pattern

Click My favorite icon to recall the saved patterns.

Press the start/stop button to start sewing.



❖ Delete pattern

To delete the saved patterns, click the Delete icon.

① Delete



Select the pattern you want to delete.

The warning message will pop out, click Confirm icon to delete the pattern.

Click again the Delete icon, will exit delete mode.

Combination mode

To use the combine function, you can select each pattern to create combined patterns and continued sewing the combined patterns. This is convenient for patterns, such as names, that will be used often.



❖ Combine patterns

Click Combination icon to combination mode. Select the desired patterns.

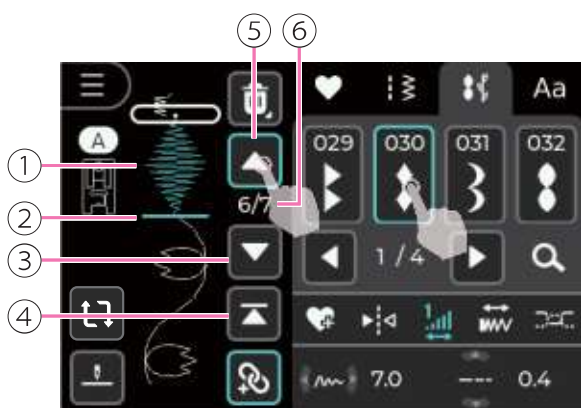
Please note a maximum of 20 units stitches can be combined in each module. When the pattern is over 20 units, the warning message will pop out.

Click Combination icon again to return to the single stitch mode.

① Combination mode

Note

Stitch patterns that can not be combined, the icon will turn gray and can not be selected.



❖ Add patterns

Click Move icon to move the cursor to the position which you want to add new pattern after it.

Select the pattern you want to insert and add it.

- ① Current pattern
- ② Cursor
- ③ Move to next pattern
- ④ Move to first pattern
- ⑤ Move to previous pattern
- ⑥ Number of current pattern/total number of patterns



❖ Delete patterns

Click Move icon to move the cursor to the pattern you want to delete. Click Delete icon to delete it and next pattern will move forward to fill the vacant position.

If you want to delete all patterns, long press Delete icon and the warning message will pop out, click Confirm icon to delete all patterns.

- ① Delete



❖ Combination setting

Click Move icon to move the cursor to the pattern you want to change the setting.

To adjust the setting of stitch width, stitch length, needle position, tension, mirror, elongation, density, etc.

- ① Current pattern

Note

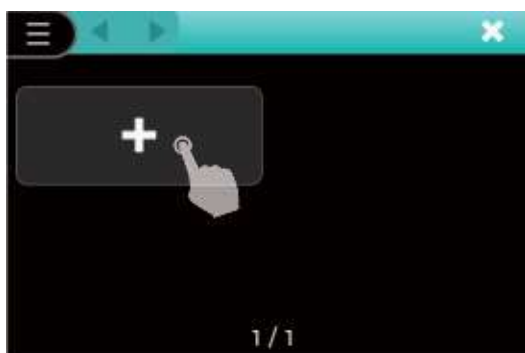
If the pattern does not have this function, the icon will turn gray and can not be selected.



❖ Save combination patterns

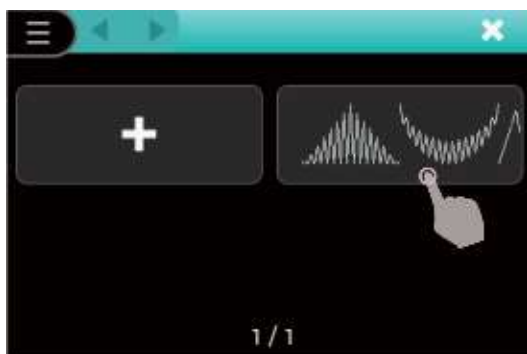
When you finish combination patterns, click My favorite icon to save the pattern.

- ① Add pattern to My favorite



Click the "+" icon to save the pattern.

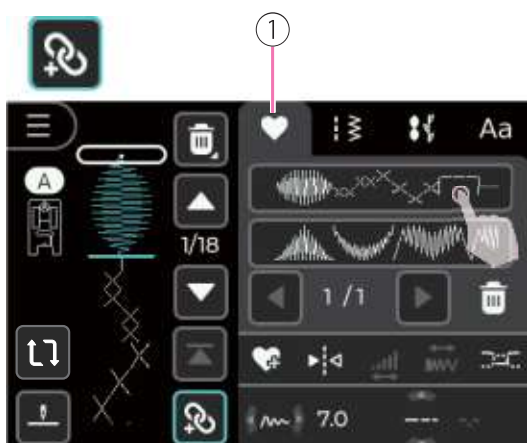
There are 10 groups of combination patterns can be saved in My favorite program, which creates a quick and easy access at all times.



❖ Overwrite combination patterns

Click My favorite icon and go to next page, select the pattern that need to overwrite.

The warning message will pop out, click Confirm icon to overwrite and save the new pattern.



❖ Recall combination patterns

In combination mode, click My Favorite icon to enter settings. Select the desired patterns.

① My Favorite

Press the start/stop button to start sewing.



❖ Stitch cycling setting

Click the Stitch Cycling icon to sew a pattern combination continuously.

To cancel the cycling function, click the Stitch Cycling icon again, and the machine will complete current pattern combination. When the machine reaches the last pattern, the screen will display the Auto-lock icon, and it will auto-lock the stitches and stop automatically.

① Stitch cycling setting

② Auto-lock icon

Note

If the cursor moves to a specific position, the machine will sew from this position.



❖ Delete combination patterns

To delete the saved patterns, click the Delete icon.

① Delete



Select the pattern you want to delete.

The warning message will pop out then click Confirm icon to delete the pattern.

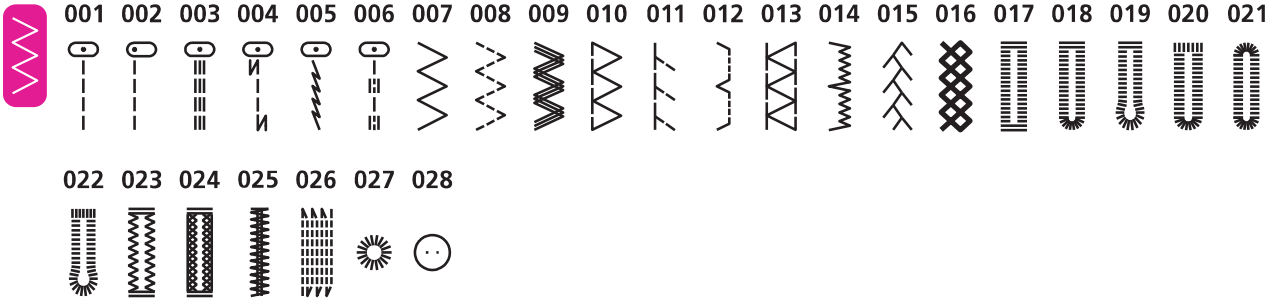
Click again the Delete icon, will exit delete mode.



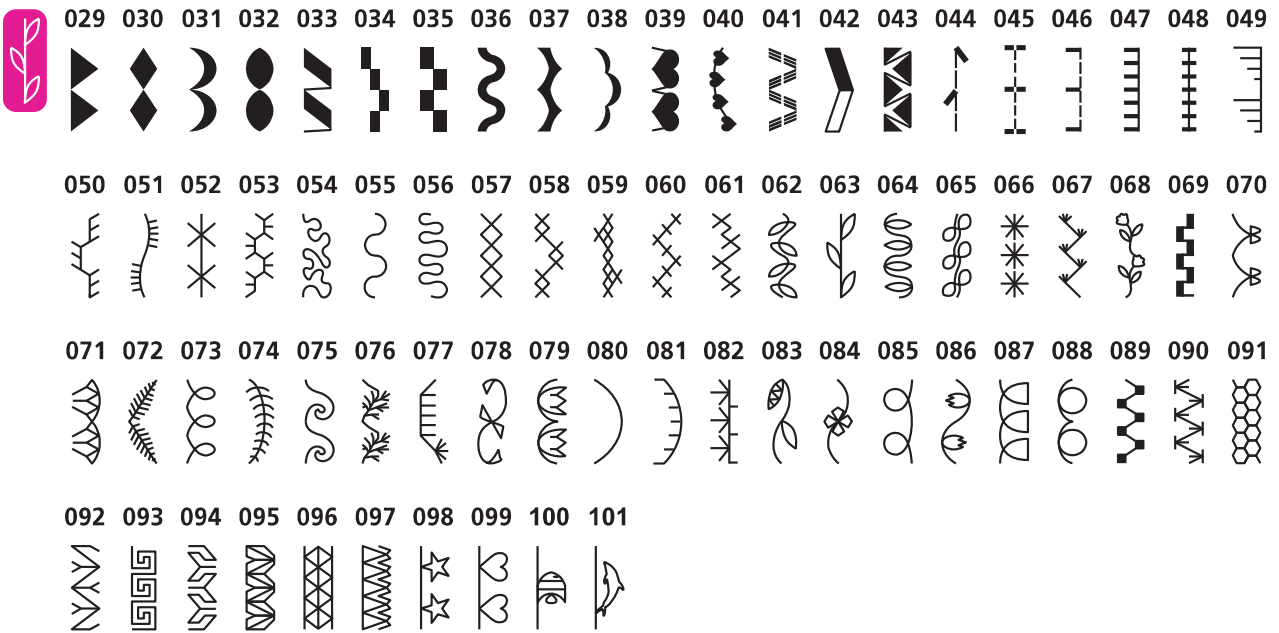
Stitch Chart

Stitch chart

❖ A group patterns



❖ B group patterns



❖ Alphabet-block style



A 01 02 03 04 05 06 07 08 09 10
 1 2 3 4 5 6 7 8 9 0
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62
 a b c d e f g h i j k l m n o p q r s t u v w x y z
 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
 Ä Å Æ Ñ Ö Ø Ç Ü ä å æ ë è é ê ñ ö õ ø ì ç ü ù ß &
 89 90 91 92 93 94 95 96 97
 ? ! _ ' , . - ()

❖ Alphabet-script style

A 01 02 03 04 05 06 07 08 09 10
 1 2 3 4 5 6 7 8 9 0
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62
 a b c d e f g h i j k l m n o p q r s t u v w x y z
 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
 Ä Å Æ Ñ Ö Ø Ç Ü ä å æ ë è é ê ñ ö õ ø ì ç ü ù ß &
 89 90 91 92 93 94 95 96 97
 ? ! _ ' , . - ()

❖ Alphabet-outline style

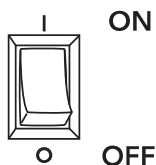
A 01 02 03 04 05 06 07 08 09 10
 1 2 3 4 5 6 7 8 9 0
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62
 a b c d e f g h i j k l m n o p q r s t u v w x y z
 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
 Ä Å Æ Ñ Ö Ø Ç Ü ä å æ ë è é ê ñ ö õ ø ì ç ü ù ß &
 89 90 91 92 93 94 95 96 97
 ? ! _ ' , . - ()



| Sewing Basics

Starting to sew

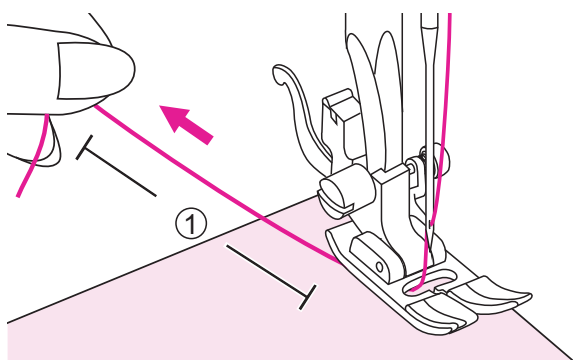
Make sure you follow the needle/fabric/thread combinations and use the suggested presser foot before sewing.



1. Turn the power switch to on ("I").

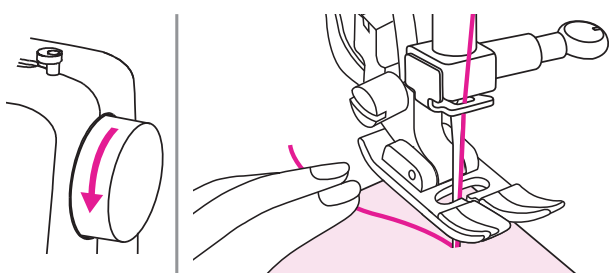


2. Raise the presser foot lifter. Select a stitch.

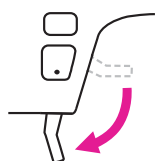


3. Place the fabric under the presser foot, pass the thread under the presser foot, and then pull out about 10cm of thread toward the rear of the machine.

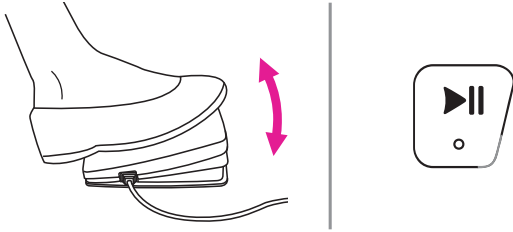
① 10cm



4. Turn the handwheel toward you (counter-clockwise) to lower the needle into the fabric at the beginning of the stitching.



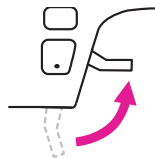
5. Lower the presser foot lifter.



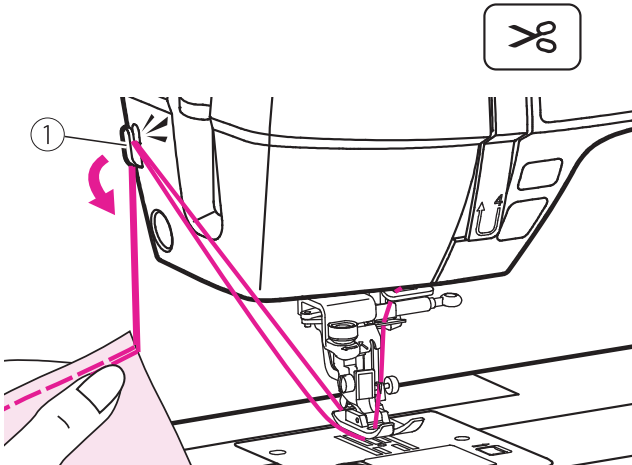
6. Slowly press down the foot control or long press the start/stop button to start sewing. Release the foot control or press the start/stop button again to stop the machine.

Note

You can use reverse sewing for back tacking and reinforcing seams by pressing the reverse button. Please refer to "Useful skills" chapter for more information.



7. Raise the presser foot lifter and remove the fabric.



8. Press the thread cutter button to trim the threads.
Or guide both threads to the side of the face plate and into the thread cutter to cut them.

① Thread cutter

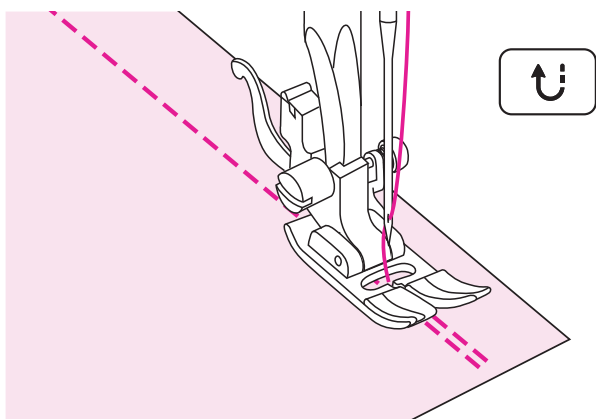
Useful skills

Various ways to achieve better results for your sewing projects are described below. Refer to these tips when sewing your project.

The results depend on types of fabrics and stitches. Please use the same fabric of the project and do a sewing test in advance.

For the trial sewing, use a piece of fabric and thread that are same as those used for your project and check the thread tension and stitch length and width.

Since the results differ depending on types of stitching and layers of fabric sewn, perform the trial sewing under the same conditions that will be used with your project.

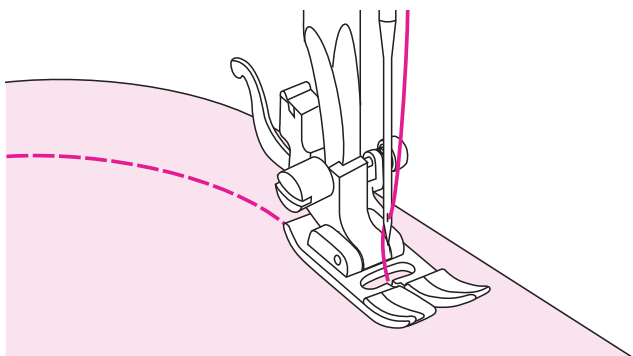


❖ Reverse sewing

Reverse stitching is used to secure the threads at the beginning and at the end of a seam.

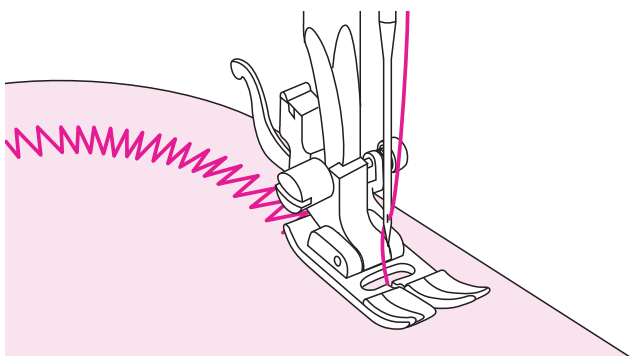
Press the reverse button and sew 4-5 stitches.

The machine will sew forward when the button is released.

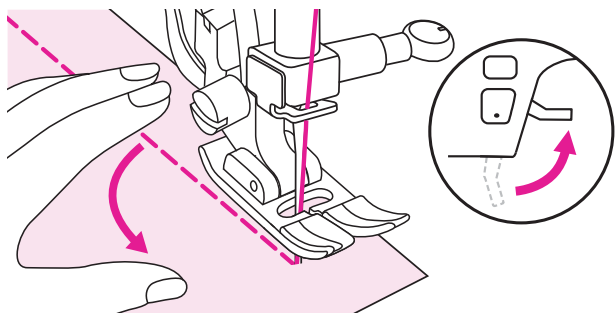


❖ Sewing curves

Slightly change the sewing direction to sew around the curve.



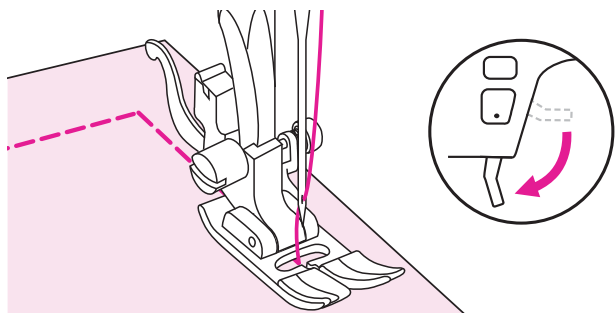
When sewing along a curve while using a zigzag stitch, select a shorter stitch length in order to obtain a finer stitch.



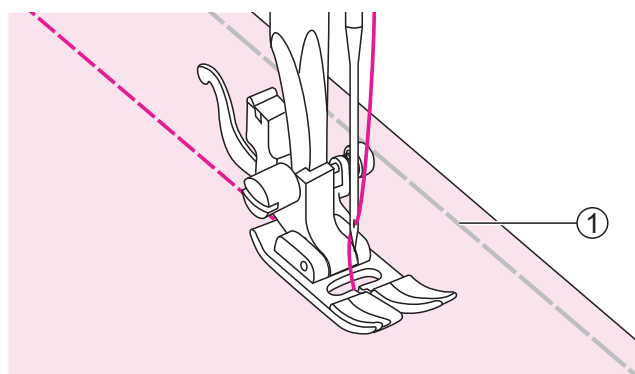
❖ Sewing corners

Stop the sewing machine when you reach a corner.

Lower the needle into the fabric. Raise the presser foot lifter. Use the needle as a pivot and turn the fabric 90°.



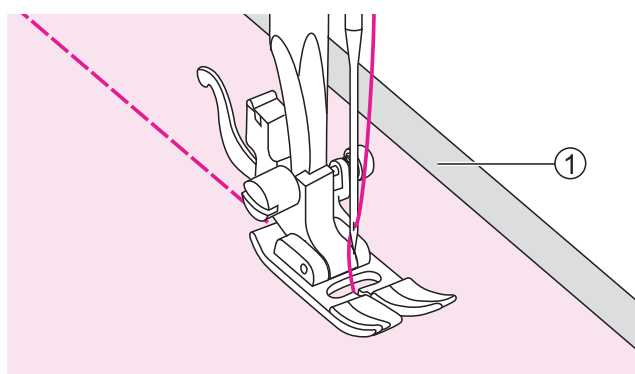
Lower the presser foot lifter and resume sewing.



❖ Sewing stretch fabrics

Baste the pieces of fabric together, and then sew without stretching the fabric.

- ① Basting

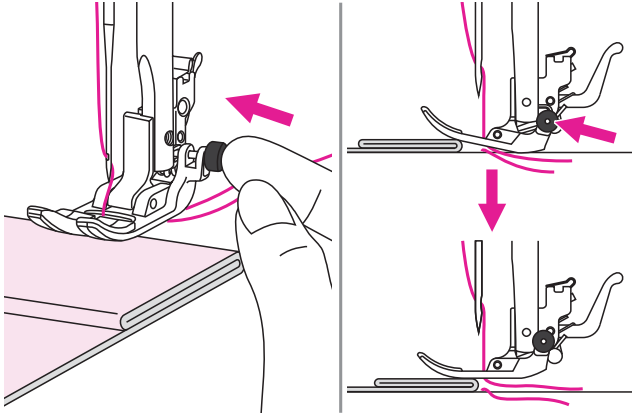


❖ Sewing thin fabrics

When sewing thin fabrics, the stitches may become misaligned or the fabric may not feed correctly. If this occurs, place thin paper or stabilizer material under the fabric and sew it together with the fabric.

When you have finished sewing, tear off any excess paper.

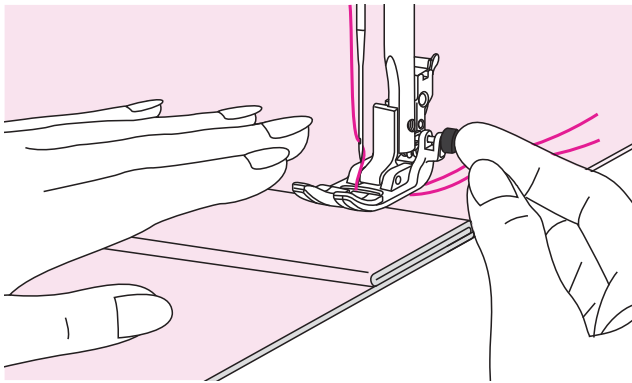
- ① Stabilizer material or paper



❖ Sewing heavy fabric

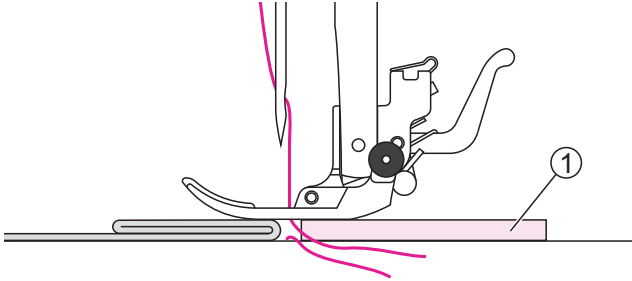
The black button on the right side of the presser foot will lock the presser foot in a horizontal position if you push it in before lowering the presser foot.

This ensures even feeding at the beginning of a seam and helps when sewing multiple layers of fabrics such as sewing over seams when hemming jeans.



When you reach the point of an increased thickness, lower the needle and raise the presser foot lifter. Press the toe of the foot to the horizontal line and push in the black button, then lower the foot and continue sewing.

The black button releases automatically after sewing few stitches.



You also can place another piece of fabric with the same thickness at the back of the seam. Or support the presser foot while feeding by hand and sewing toward the folded side.

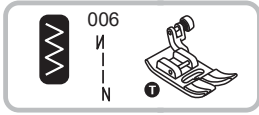
① Cardboard or thick fabric



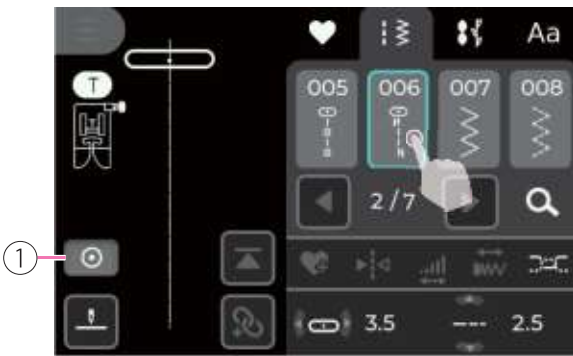
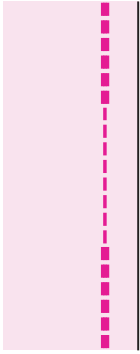
Utility Stitches

Automatic lock stitch

Automatic lock stitch, it will automatically lock stitches at the beginning and end of sewing to secure the thread.



First move forward and then backward to make up the lock stitches, it is suitable for general joint seams.



Press the start/stop button to start sewing. The machine will first lock stitches at the beginning.

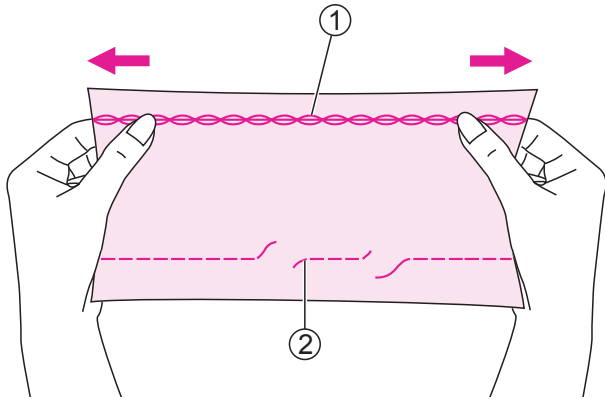
The screen will display a reminder with a lock stitch icon which means after sewing to the desired length, need to press the auto-lock button from the machine, then will perform lock stitch at the end of the sewing and stop.

① Lock stitch button reminder



Stretch stitch

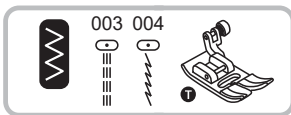
Use this stitch with knitted tricot or other stretchy fabrics. The stitch enables your seam to stretch without breaking the thread.



Good for easy to ravel and knit fabrics. It's good for joining durable fabric such as denims.

These stitches can also be used as a decorative top stitches.

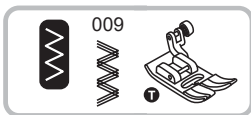
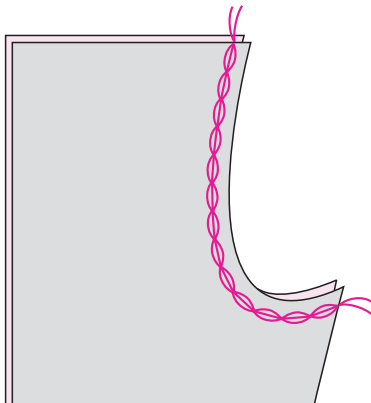
- ① Stretch stitch
- ② Straight stitch



Using the all purpose foot.

❖ Straight stretch stitch

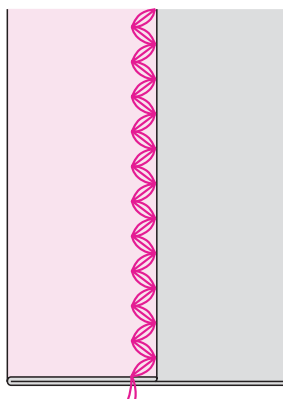
Straight stretch stitch is used to add triple reinforcement to stretch and hardwearing seams.



Using the all purpose foot.

❖ Zigzag stretch stitch

Triple zigzag stretch stitch is suitable for firm fabrics like denim, poplin, etc.



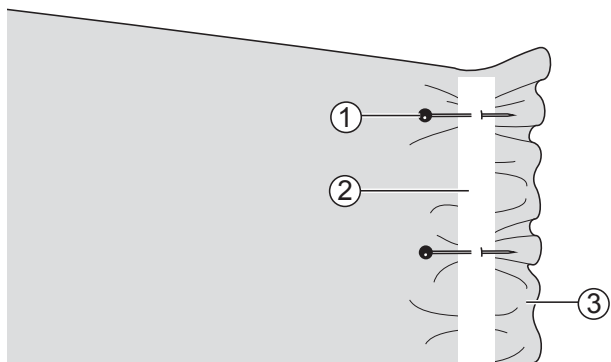
Sewing stretch fabrics and elastic tape

When elastic tape is attached to the cuff or waist of a piece of clothing, the finished dimensions will be that of the stretched elastic tape. Therefore, it is necessary that a suitable length of the elastic tape be used.

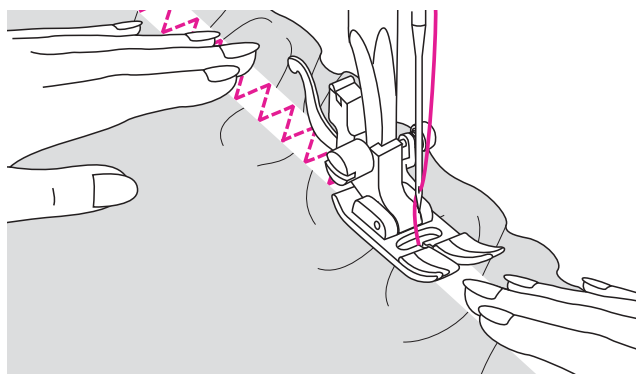


Using the all purpose foot.

Pin the elastic tape to the wrong side of fabric at a few points to make sure that the tape is uniformly positioned on the fabric.

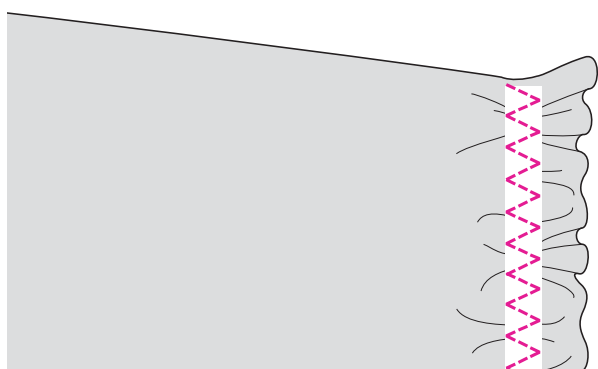


- ① Pin
- ② Elastic tape
- ③ Wrong side



Sew the elastic tape to the fabric while stretching the tape so that it is the same length as the fabric.

While pulling the fabric behind the presser foot with your left hand, pull the fabric at the pin nearest the front of the presser foot with your right hand.

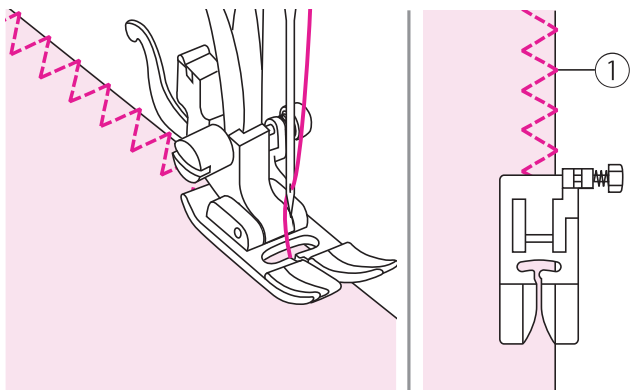
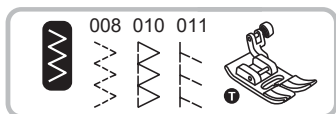


Note

When sewing, be sure that the needle does not touch any pins, otherwise the needle may bend or break.

Overcasting stitch

Sewing overcasting stitches along the edge of fabric to prevent it from fraying.

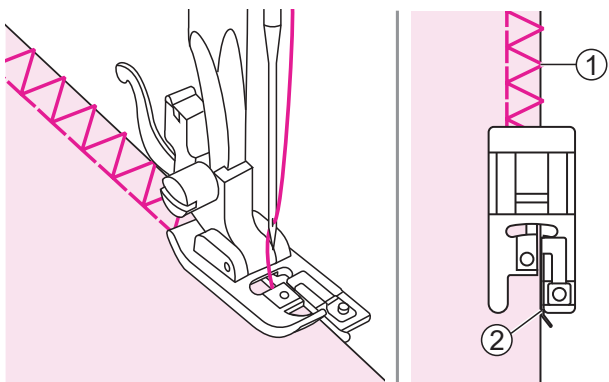
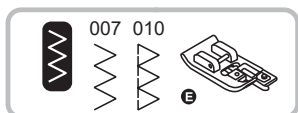


❖ Using the all purpose foot

Attach the all purpose foot.

Sewing the overcasting along the edge of the fabric so that the needle drops over the edge of the fabric on the right side.

- ① Needle drop point



❖ Using the overcasting foot

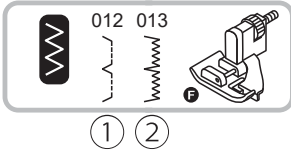
Attach the overcasting foot.

Sew the fabric with the fabric edge against the guide of the overcasting foot.

- ① Needle drop point
- ② Guide

Blind Hem

Secure the bottom of skirts and pants with a blind hem, this stitch will sew with invisible stitch on the right side of the fabric.

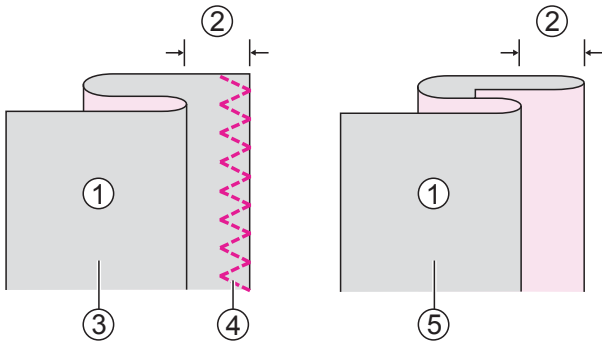


Using the blind hem foot.

- ① Blind hem/lingerie for firm fabrics.
- ② Blind hem for stretch fabrics.

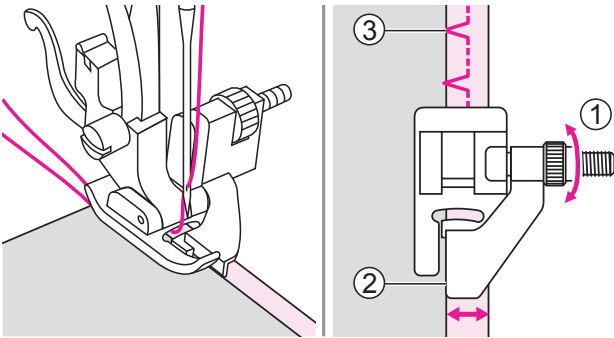
Note

Please use the same fabric of the project and do a sewing test in advance.



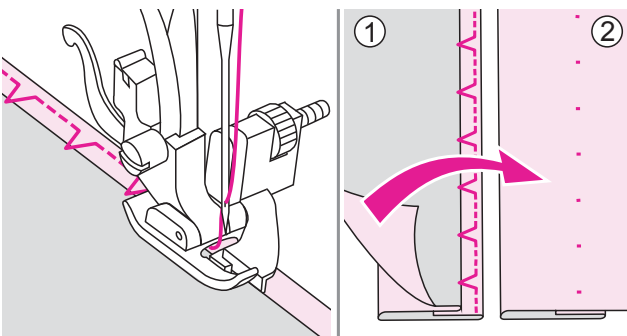
Fold the fabric as illustrated with the wrong side up.

- ① Wrong side
- ② 5mm
- ③ For heavy weight fabric
- ④ Overcasting stitch
- ⑤ For light/medium weight fabric



Place the fabric under the foot. Turn the handwheel forwards until the needle swings fully to the left. It should just pierce the fold of the fabric. If it does not, adjust the stitch width accordingly. Adjust the guide by turning the knob so that the guide just rests against the fold.

- ① Knob
- ② Guide
- ③ Needle drop point



Sew slowly, guiding the fabric carefully along the edge of the guide.

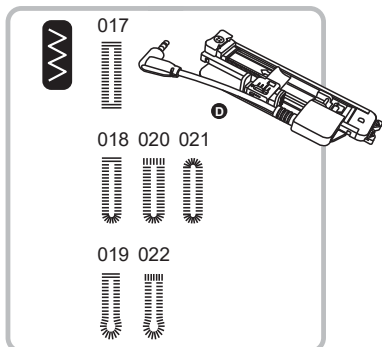
Turn over the fabric.

- ① Wrong side
- ② Right side

Buttonhole stitch

Buttonholes can be adapted to the size of the button.

For stretch fabric or thin fabric, it is recommended to use a stabilizer for a better buttonhole sewing. Slightly reduce upper thread tension to produce better results.



Using the electronic buttonhole foot.

017/018/021: For thin or medium fabric

019/022: For suits or overcoats

020: Heavy-duty buttonholes with vertical bar tacks.

Note

Please use the same fabric of the project and do a sewing test in advance.



❖ Buttonhole adjustment

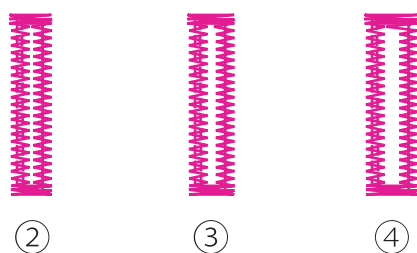
When the buttonhole stitch is selected, A group patterns 017-024, the LCD screen will display the buttonhole width size.

Click the Buttonhole adjustment icon to adjust buttonhole size, from M→L→S.

① Buttonhole adjustment

Note

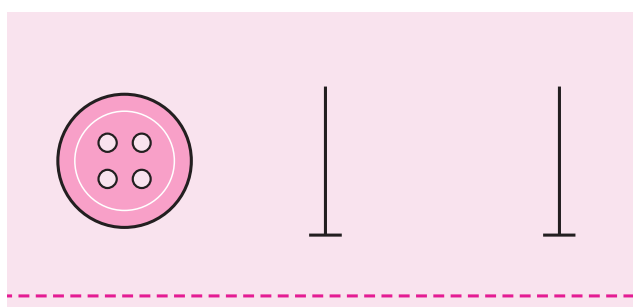
- Use the seam ripper to cut the center of the buttonhole being careful not to cut any stitches on either side.
- Restart the buttonhole width will automatically default to M size setting.



② S: Small

③ M: Medium

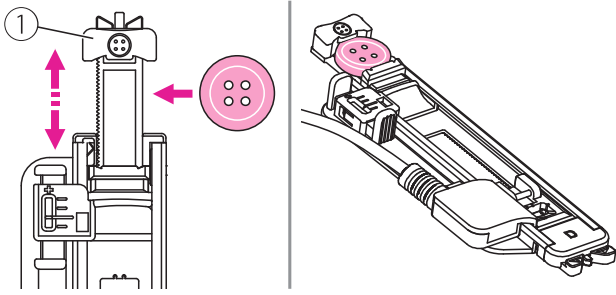
④ L: Large



Mark the positions of the buttonhole on the fabric.

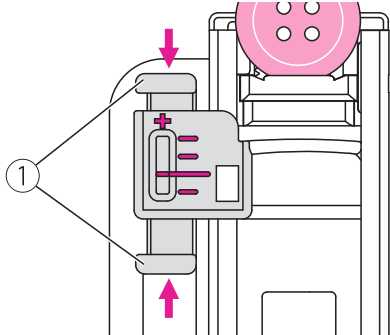
The maximum buttonhole length is 3cm. (Total of diameter + thickness of button.)

The size of the buttonhole is determined by the button inserted in the button plate.



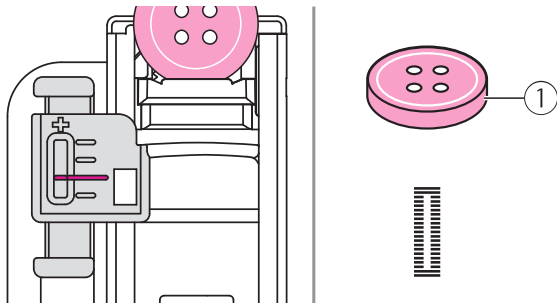
Pull the button holder plate to the back, and place the button in it. Push back the button holder plate against the button to hold it tight.

① Button holder plate



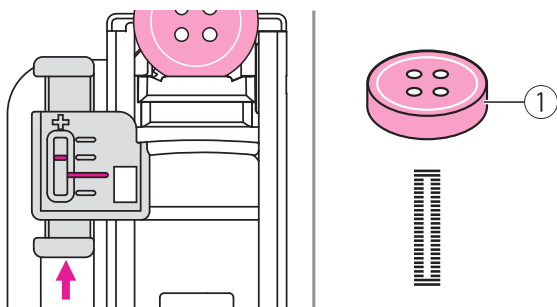
Consider the shape and height of each button, buttonhole fine tuning adjuster provides fine adjustment of the buttonhole length.

① Buttonhole fine tuning adjuster



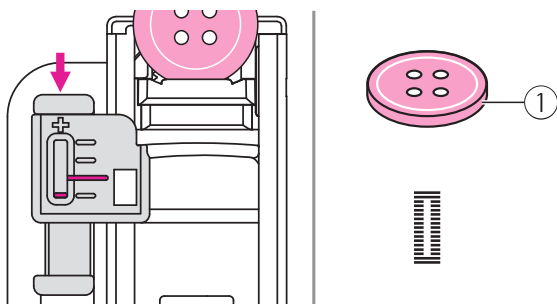
The red mark is the standard setting for regular button, adjust the pointer align with the red mark.

① Regular button



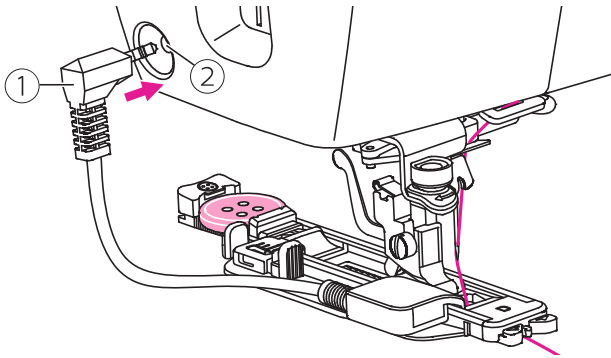
The buttonhole length may need to be increased for thick button, adjust the pointer toward to "+" for fine tuning.

① Thick button



The buttonhole length may need to be decreased for thin button, adjust the pointer toward to "-" for fine tuning.

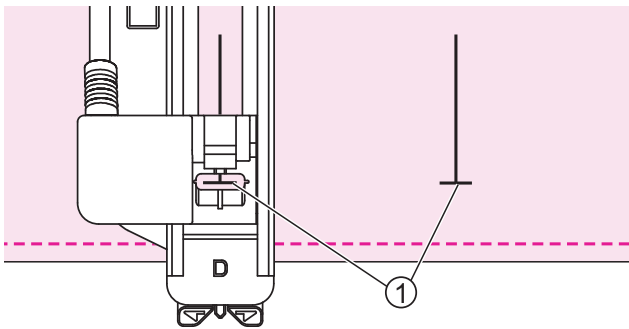
① Thin button



Attach the electronic buttonhole foot and plug the cord into the socket behind the face cover.

The upper thread should be passed through the hole of electronic buttonhole foot and bring the upper thread to the front of electronic buttonhole foot.

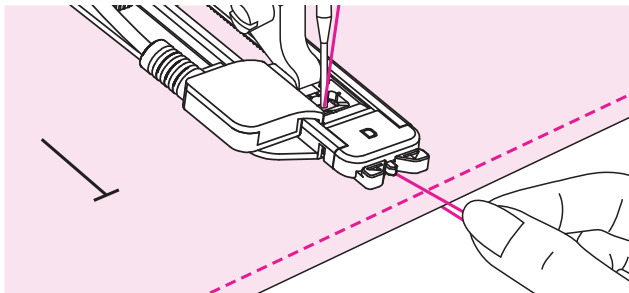
- ① Cord
- ② Socket



Position the fabric under the presser foot so that the centerline's mark is aligning with the center of the buttonhole foot.

- ① Starting point

Select the buttonhole stitch. Adjust the stitch width and the stitch length to the desired width and density.

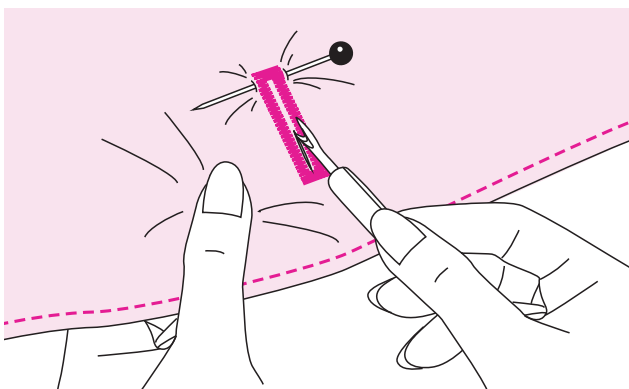


Slightly hold the end of the upper thread and start sewing. Pull two lines together.

Note

- Gently feed the fabric by hand.
- Before stopping, the machine will automatically sew a reinforcement stitch after the buttonhole is sewn.

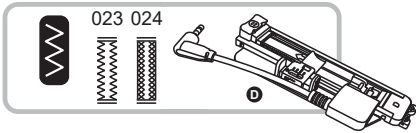
When you finish sewing, raise the presser foot lifter and cut the thread. To sew over the same buttonhole, raise the presser foot lifter.



Use the seam ripper to cut the center of the buttonhole being careful not to cut any stitches on either side. Use a pin as a stopper at the bar tack so you do not cut too much.

Note

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



❖ Making a buttonhole on stretch fabrics

023: For stretch or woven fabric

024: For stretch fabric

When sewing buttonholes on stretch fabric, hook heavy thread or cord under the buttonhole foot.

Attach the electronic buttonhole foot and plug the cord into the socket above the presser foot bar. Bring the gimp thread ends to the front of the foot and insert them into the grooves, then tie them there temporarily. Lower the presser foot lifter and start sewing.

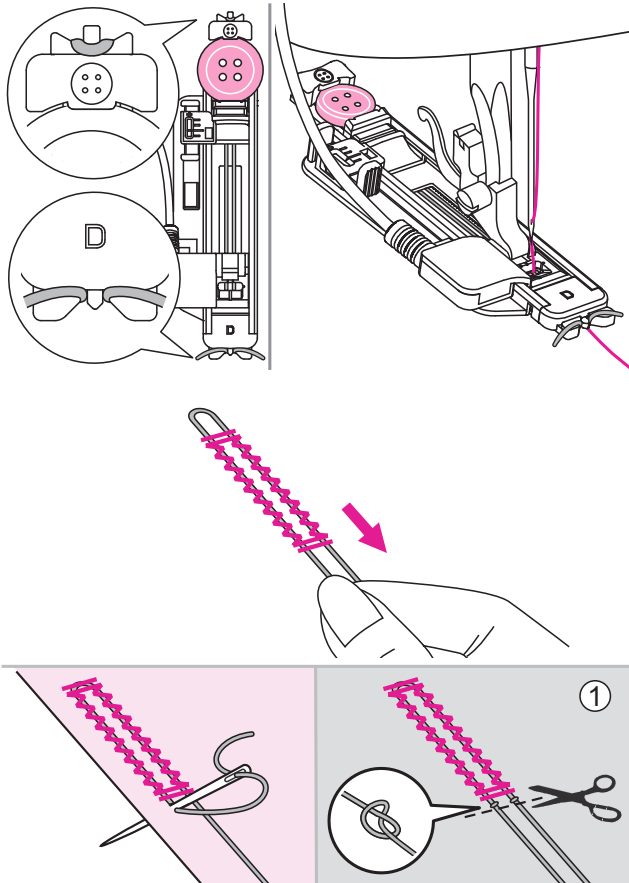
Set the stitch width to match the diameter of the gimp thread.

Once sewing is completed, pull the gimp thread gently to remove any slack. Cross the gimp in front of the needle and thread gimp ends into a large needle, pull to the wrong side and knot ends before cutting excess.

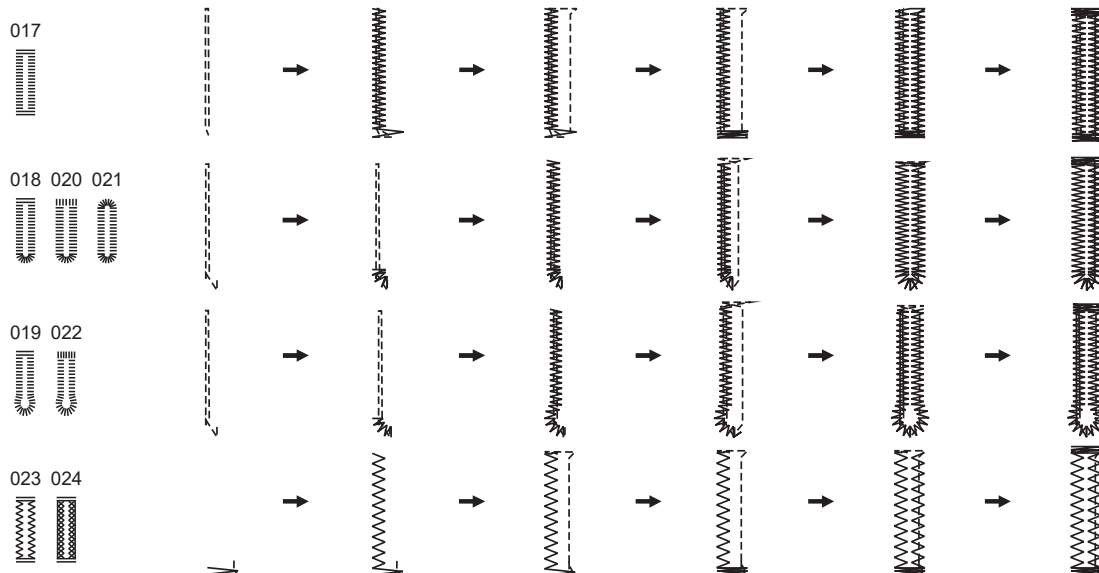
① Wrong side

Note

It is suggested that you sew with a stabiliser material under the fabric.

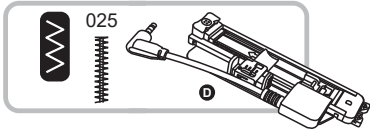


* Buttonholes are sewn from the front of the presser foot to the back, as shown.

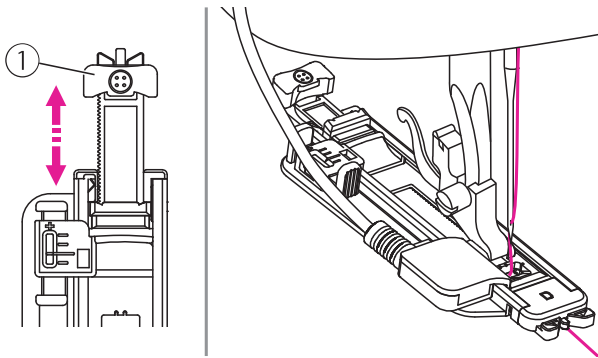


Bar tack stitch

Bar tack stitch is used to reinforce points subject to strain, such as pocket corners and openings.



Using the electronic buttonhole foot.

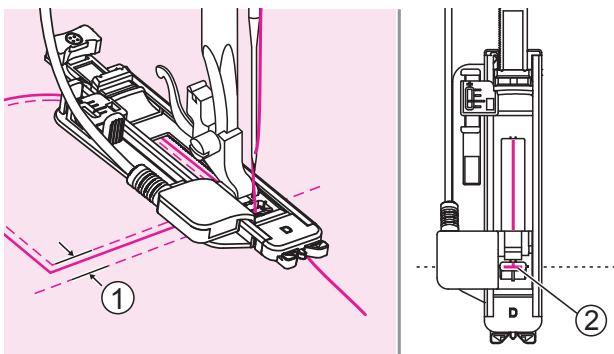


Extend the button holder plate and set to the desired length. Adjust the stitch width and the stitch length to the desired width and density.

① Button holder plate

Attach the electronic buttonhole foot and plug the cord into the socket above the presser foot bar.

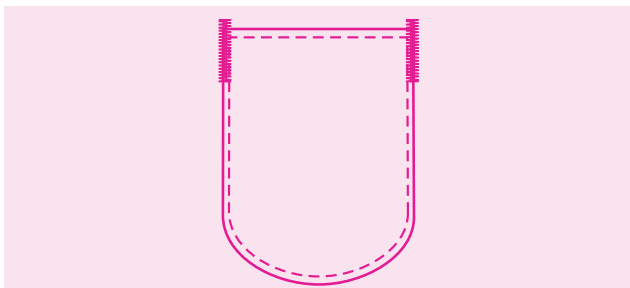
The upper thread should be passed through the hole of electronic buttonhole foot and bring the upper thread to the front of electronic buttonhole foot.



Position the fabric so that the needle is 2mm in front of where you want the sewing to start, and then lower the presser foot lifter.

- ① 2mm
- ② Starting point

Slightly hold the end of the upper thread and start sewing.



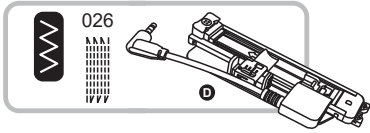
Bar tack stitches are sewn.

Note

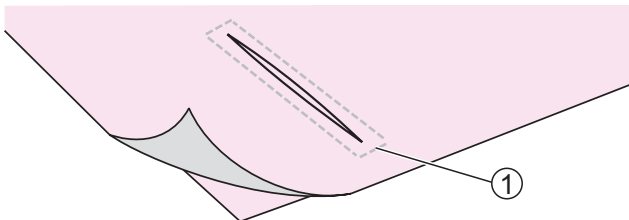
It is suggested that you sew with a stabilizer material under the fabric.

Darning stitch

Darning a small hole or a tear before it becomes larger can save a garment. Choose a fine thread in a color as close to your garment as possible.

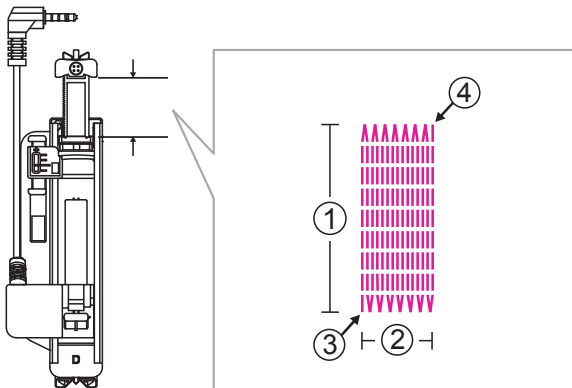


Using the electronic buttonhole foot.



Baste the upper fabric and the under fabric together.

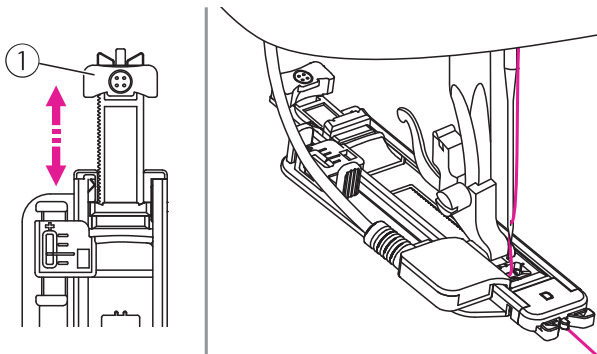
① Basting



The size of one darn cycle is variable.

However, the maximum stitch length is 2.6cm and the maximum stitch width is 7mm.

- ① The length of sewing
- ② The width of sewing
- ③ Start
- ④ Stop

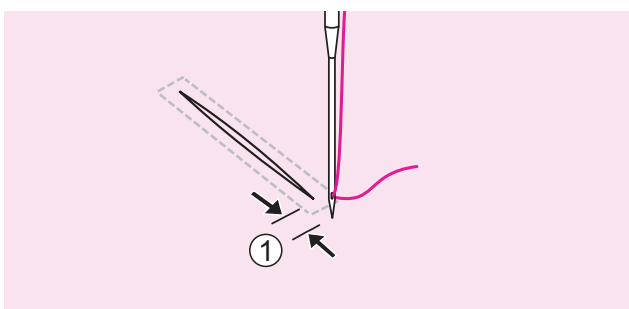


Extend the button holder plate and set to the desired length. Adjust the stitch width and the stitch length to the desired width and density.

① Button holder plate

Attach the electronic buttonhole foot and plug the cord into the socket above the presser foot bar.

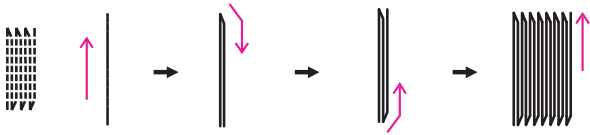
The upper thread should be passed through the hole of electronic buttonhole foot and bring the upper thread to the front of electronic buttonhole foot.



Position the fabric so that the needle is 2mm in front of the area to be darned, and then lower the presser foot lifter.

① 2mm

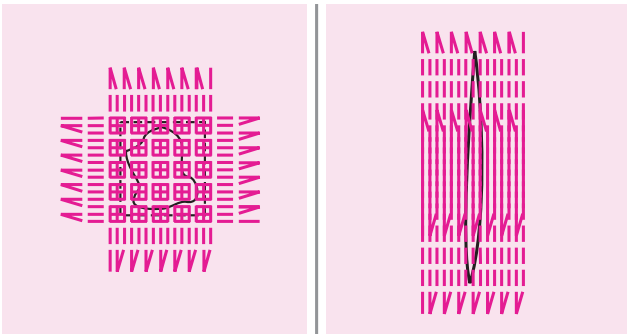
Slightly hold the end of the upper thread and start sewing.



Darning stitches are sewn from the front of the presser foot to the back, as shown.

Note

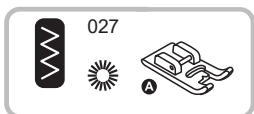
If the fabric does not feed, for example, because it is too thick, increase the stitch length.



If the sewing range is too big to sew, then we suggest you can sew several times (or cross sew) to get better sewing result.

Eyelet stitch

Eyelet stitches are used for making belt holes and other similar applications.



Using the satin stitch foot.

Click the stitch width icon will pop out adjustment window which can adjust the values.

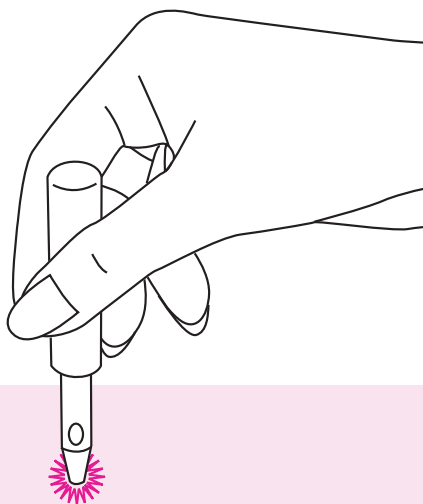
Click the Left/Right arrow icon to alter the size of the eyelet.

Lower the needle into the fabric at the beginning of the stitching, and then lower the presser foot lifter.

Once sewing is completed, the machine automatically sews reinforcement stitches, then stops.

Make a hole at the center using an eyelet punch.

* Eyelet punch is not included with the machine.

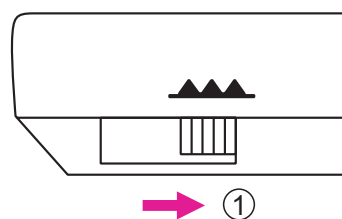
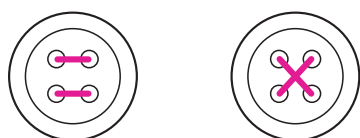
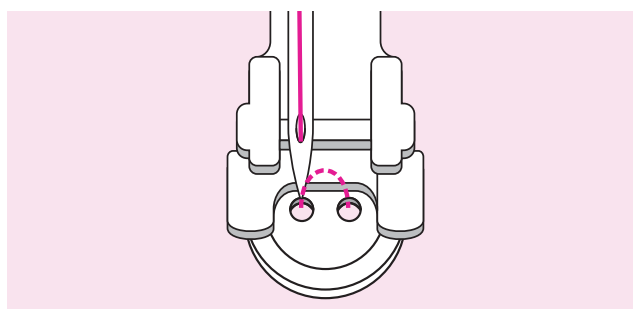
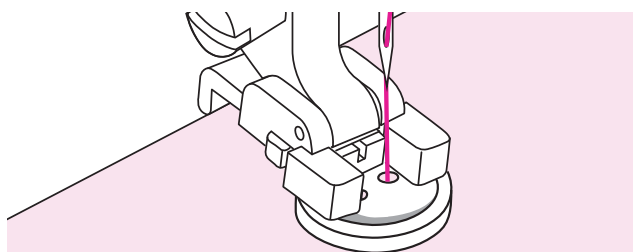
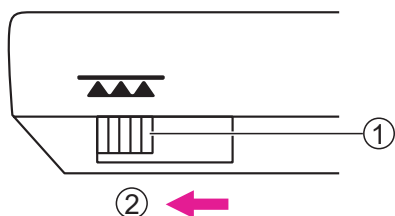
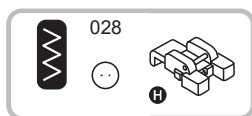


Note

- When using the eyelet punch, place thick paper or some other protective sheet under the fabric before punching the hole in the fabric.
- If thin thread is used, the stitching may be coarse. If this occurs, sew the eyelet twice one on top of the other.

Button sewing

Buttons can be sewn on with the sewing machine. Buttons with 2 or 4 holes can be attached.



Using the button sewing foot.

Move the drop feed lever to lower the feed dogs.

- ① Drop feed lever
- ② Lowered position

Put the work under the foot and place the button in desired position, then lower the foot.

Select the buttonhole sewing stitch and adjust the stitch width according to the distance between the two holes of the button.

Turn the handwheel to check that the needle goes cleanly into the left and right holes of the button.

For buttons with 4 holes, sew through the front two holes first, push work forward and then sew through the back two holes.

When you finish the work, move the drop feed lever to raise the feed dogs.

- ① Raised position

Zipper insertion

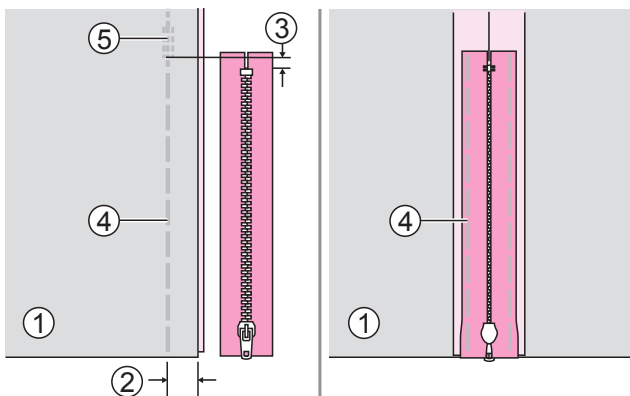
This foot can be set to sew on each side of the zipper, the edge of the foot guides the zipper to ensure straight placement.



Using the zipper foot.

⚠ Attention

- Zipper foot should be used for sewing straight stitches only. It is possible that the needle could hit the presser foot and break when sewing other stitches.
- When sewing, be sure that the needle does not touch the zipper, otherwise the needle may bend or break.

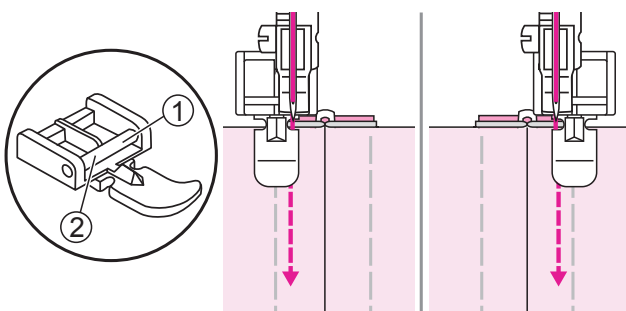


❖ Inserting a centered zipper

Place the right sides of the fabric together. Sew a bottom seam 2cm from the right edge of the zipper bottom stop position. Sew few reverse stitches for fixed. Increase the stitch length to maximum, set the tension below 2 and baste the remaining length of the fabric.

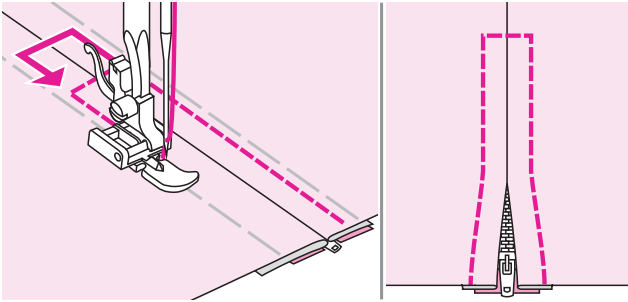
Press open the seam allowance. Place the zipper face down on the seam allowance with the teeth against the seam line. Baste the zipper tape in place.

- ① Wrong side
- ② 2cm
- ③ 5mm
- ④ Basting
- ⑤ Reverse stitches

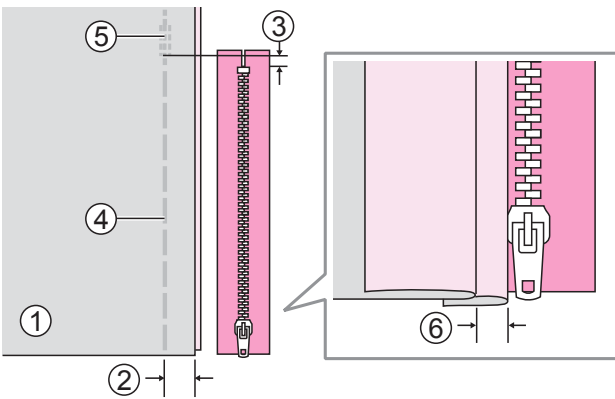


Attach the zipper foot.

- ① Attach the right pin for sewing the left side of the zipper.
- ② Attach the left pin for sewing the right side of the zipper.



Stitching around the zipper. Remove the basting and press.

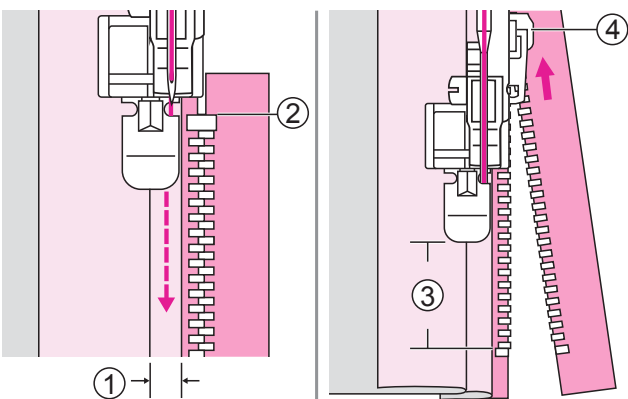


❖ Inserting a side zipper

Place the right sides of the fabric together. Sew a bottom seam 2cm from the right edge of the zipper bottom stop position. Sew few reverse stitches for fixed. Increase the stitch length to maximum, set the tension below 2 and baste the remaining length of the fabric.

Fold back to the left the seam allowance. Turn under the right the seam allowance to form a 3mm fold.

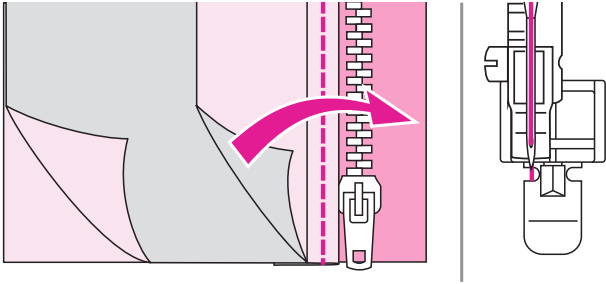
- ① Wrong side
- ② 2cm
- ③ 5mm
- ④ Basting
- ⑤ Reverse stitches
- ⑥ 3mm



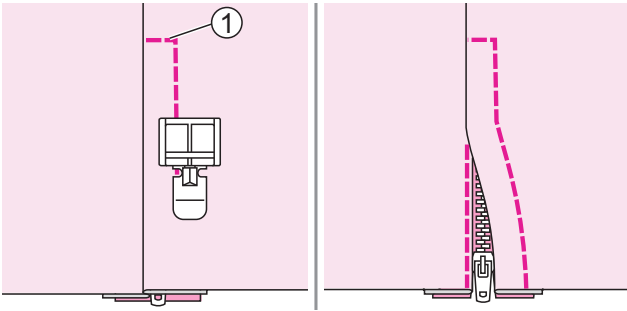
Attach the zipper foot. Attach the right pin for sewing the left side of the zipper. Sew the zipper to the piece of fabric with the extra 3mm, starting from the end of the zipper.

Stop the machine about 5cm from the top of the zipper. Lowered the needle into the fabric, raise the presser foot lifter, and then open the zipper and continue sewing.

- ① 3mm
- ② The end of zipper
- ③ 5cm
- ④ Zipper



Turn the fabric right side out. Attach the left pin for sewing the rightside of the zipper.



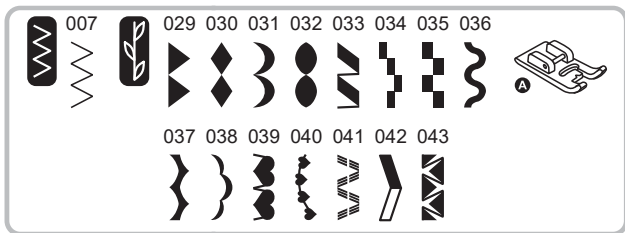
Stitch across the lower end and the right side of the zipper.

① Lower end

Stop the machine about 5cm from the top of the zipper. Remove the basting and open the zipper. Stitch the remaining of the seam.

Satin stitch sewing

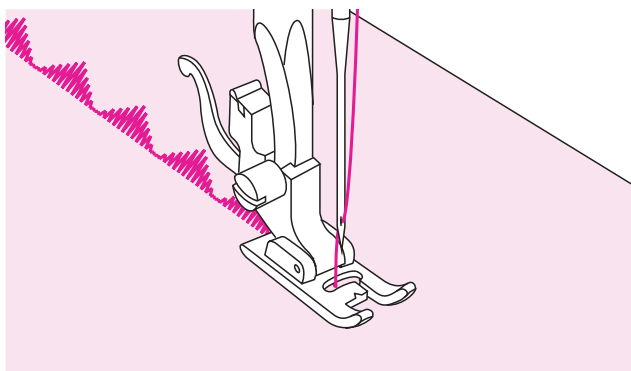
Use the satin stitch foot for satin stitching and sewing decorative stitches.



Using the satin stitch foot.

Note

When sewing very lightweight fabrics, it is recommended that you use interfacing or stabilizer on the wrong side of the fabric.

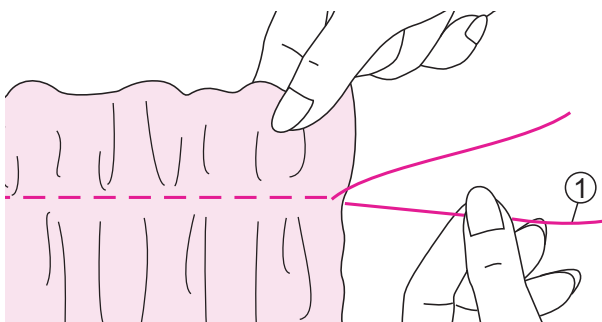


This foot has a groove on the underside which allows dense stitching to pass freely underneath.

To sew the satin or decorative stitch, you may adjust the length and width of the stitch. Experiment with fabric scraps until you get the desired length and width.

Gathering

Ideal for clothing as well as home decor. It works best on thin to medium weight fabrics.



Using the all purpose foot.

Before sewing, please check the upper and bobbin threads are already pulled out about 5cm to leave enough room for sewing. Please refer to "Bringing up the bobbin thread" chapter for more information.

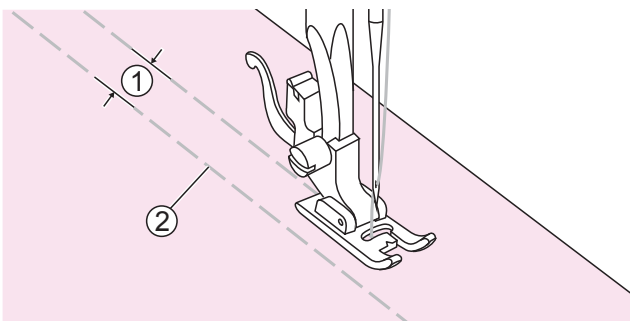
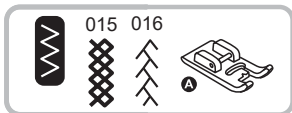
Set the tension below 2. Sew a single row (or many rows) of straight stitches.

Pull the bobbin threads and distribute the gathers evenly. Secure the threads at the other end.

① Bobbin thread

Smocking

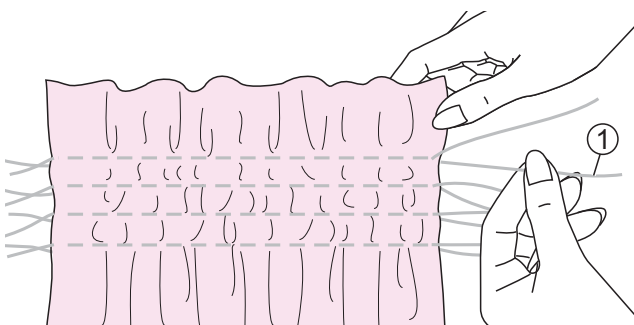
The decorative stitch created by stitching or embroidering over gathers is called "smocking". It is used to decorate the front of blouses or cuffs. The smocking stitch adds texture and elasticity to the fabric.



Using the satin stitch foot.

Increase the stitch length to maximum, set the tension below 2 and basting lines 1cm across the area to be smocked.

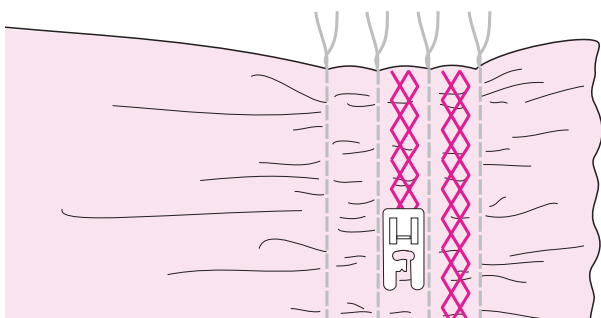
- ① 1cm
- ② Basting



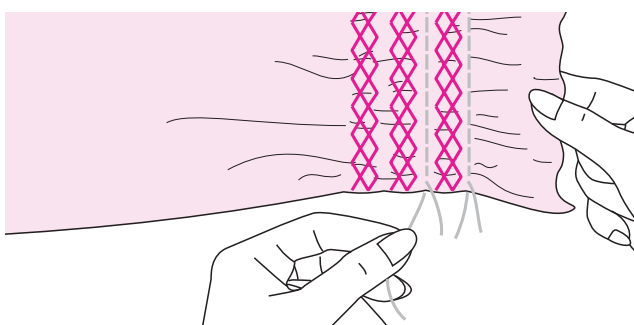
Knot the threads along one edge.

Pull the bobbin threads and distribute the gathers evenly. Secure the threads at the other end.

- ① Bobbin thread

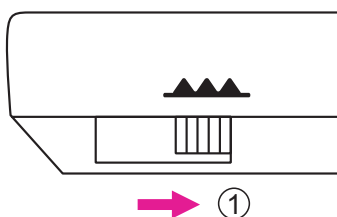
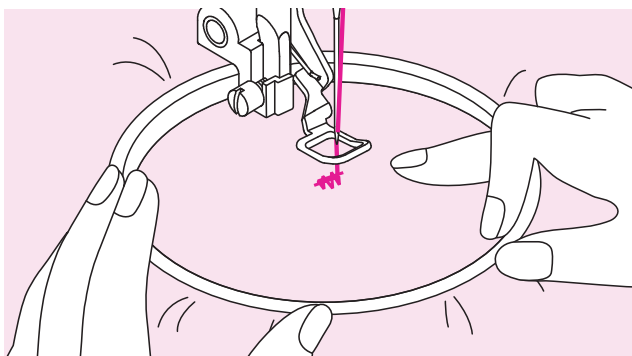
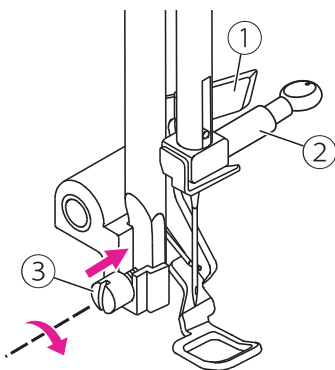
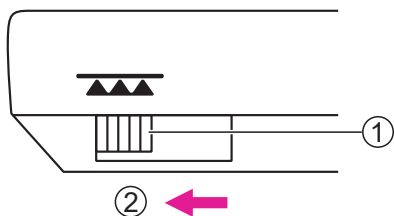
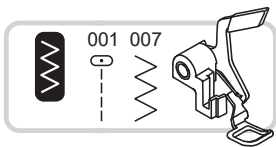


Reduce the tension if necessary and sew decorative stitches between the straight seams.



Pull out the basting.

Free motion darning, embroidery and monogramming



❖ Preparation for embroidering and monogramming

* Embroidery hoop is not included with the machine.

Using the darning/embroidery foot.

Move the drop feed lever to lower the feed dogs.

- ① Drop feed lever
- ② Lowered position

Remove the presser foot holder and attach the darning/embroidery foot. The lever should be behind the needle clamp screw. Press the darning/embroidery foot on firmly from behind with your index finger and tighten the screw.

- ① Lever
- ② Needle clamp screw
- ③ Screw

Draw the desired lettering or design on the surface of the fabric.

Stretch the fabric between the embroidery hoop as firmly as possible.

Place the fabric under the needle. Make sure the presser foot bar is down to its lowest position.

Turn the handwheel towards you to bring up the bobbin thread through the fabric. Sew a few securing stitches at the starting point.

Hold the hoop with thumb and forefinger of both hands while pressing the material with the middle and third finger and supporting the outside of the hoop with your small finger.

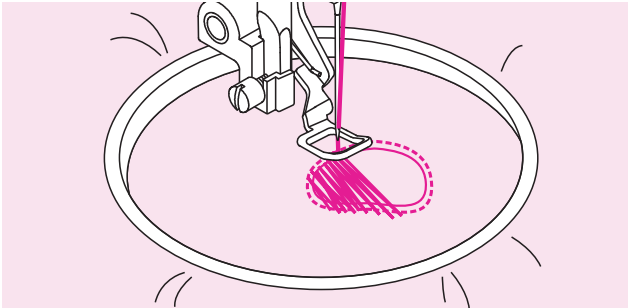
⚠ Attention

Keep fingers away from moving parts, especially needles.

Note

When you finish the work, move the drop feed lever to raise the feed dogs.

- ① Raised position



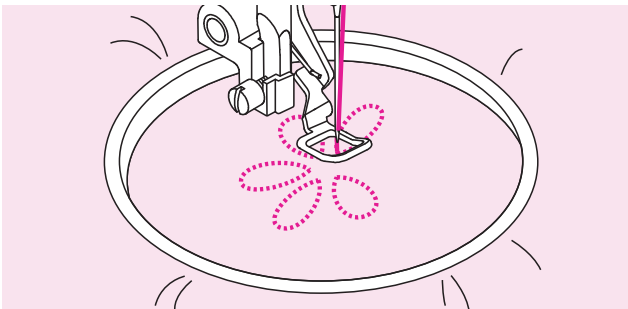
❖ Darning

First sew around the edges of the hole to secure the threads. Working from left to right, sew over the hole in a constant and continuous movement.

Turn the work by 1/4 and sew over the first stitching moving the work slower over the hole to separate the threads and not form big gaps between the threads.

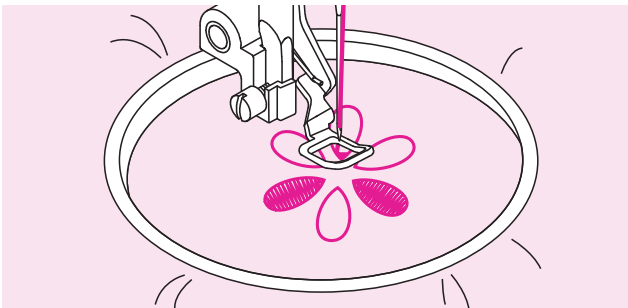
Note

Free motion darning is accomplished without the sewing machine internal feed system. Movement of the fabric is controlled by the operator. It is necessary to coordinate sewing speed and movement of fabric.



❖ Embroidery

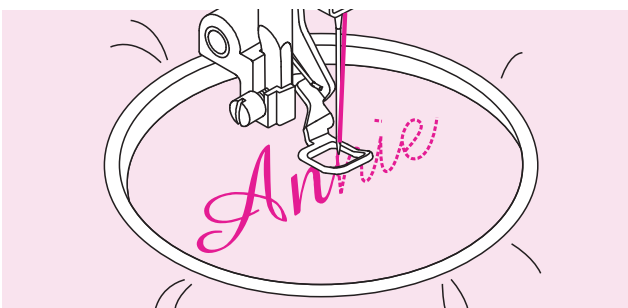
Stitch along the outline of the design by moving the embroidery hoop. When sewing, make sure to maintain a constant speed.



Fill in the design working from the outline towards the inside. Keep the stitches close together.

You will get longer stitches by moving the hoop faster and shorter stitches by moving the hoop slower.

Secure with reinforcement stitches at the end of the design.



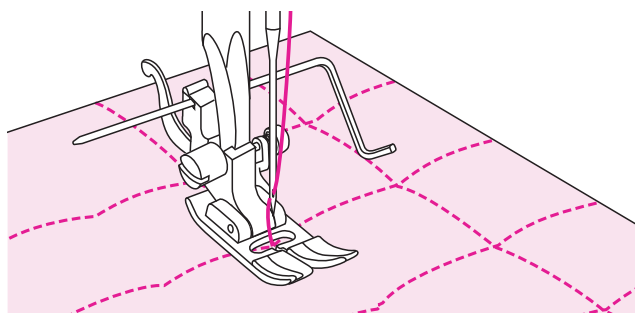
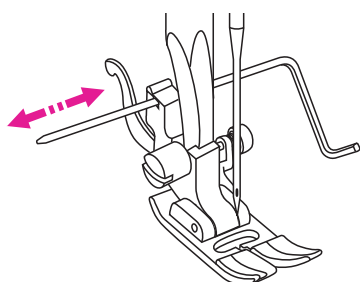
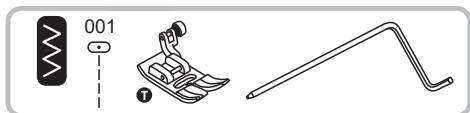
❖ Monogramming

Sew at constant speed, moving the embroidery hoop slowly along the lettering.

When the letter is finished, secure with reinforcement stitches at the end of the design.

Quilting

Sandwich batting between the top and bottom layers of fabric is call "Quilting". The top layer is usually formed by multiple geometrically shaped pieces of materials joined together.

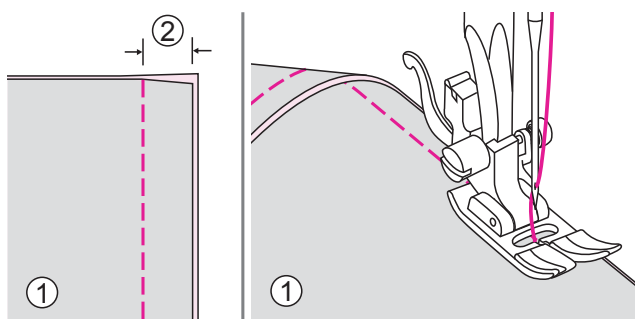


Using the all purpose foot with edge/quilting guide.

❖ Using the edge/quilting guide

Attach the edge/quilting guide in the presser foot holder as illustrated and set the space as you desire.

Sew the first row and move over the fabric to sew successive rows with the guide riding along the previous row of stitching.



Using the all purpose foot.

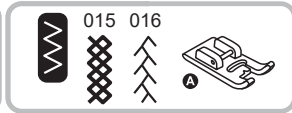
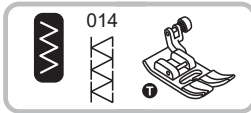
❖ Joining the pieces of the fabric

Place the two pieces of fabric with the right side together and sew with the straight stitch.

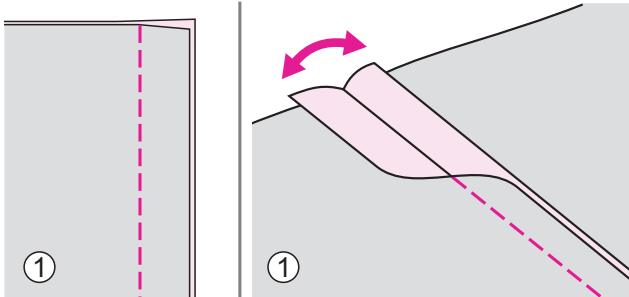
Join the pieces of fabric with a seam allowance of 5mm.

Sew with the side of the presser foot aligned with the edge of the fabric.

- ① Wrong side
- ② 5mm



Using the all purpose foot or satin stitch foot.

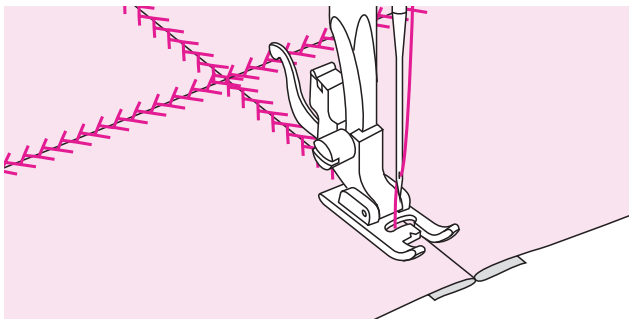


❖ Patchwork stitching

Place the two fabrics, right sides together and sew using a straight stitch.

Open the seam allowance and press it flat.

① Wrong side



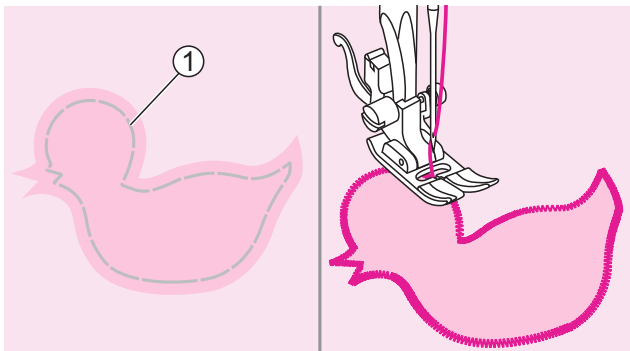
Working on the right side of the fabric, place the center of the presser foot on the seam line of the joined fabrics and stitch over the seam.

Applique

You can create and applique by cutting a different piece of fabric into a shape and using it as a decoration.



Using the all purpose foot.



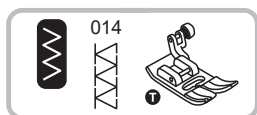
Cut out the applique design and baste it on the fabric. Sew slowly around the edge of the design.

① Basting

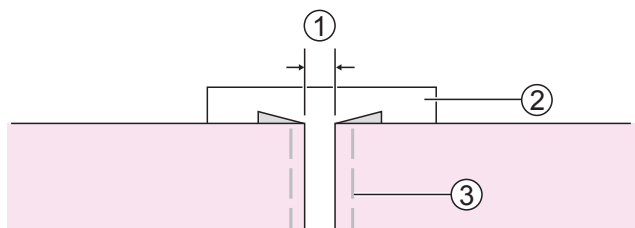
Trim the excess material outside the stitching. Make sure not to cut any stitches. Remove the basting.

Fagoting

Stitching across an open seam is called "fagoting". It is used on blouses and children's clothing. This stitch is more decorative when thicker thread is used.

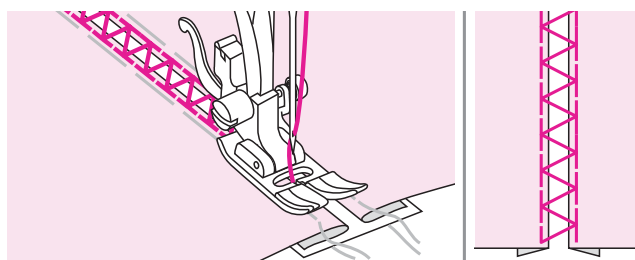


Using the all purpose foot.



Separate the folded edges of the fabric pieces with a gap of 4mm and baste them onto a piece of thin paper or water-soluble stabilizer sheet.

- ① 4mm
- ② Thin paper or water-soluble stabilizer
- ③ Basting



Align the center of the presser foot with the center of the two pieces of fabric and begin sewing.

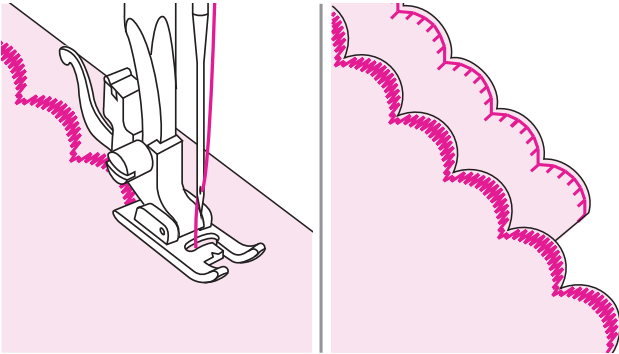
After sewing, remove the stabilizer and basting.

Scallop stitch

The wave-shaped repeating stitch, that looks like shells, is called "scalloping". It is used to decorate the collar of blouses and the edges of knitting projects.



Using the satin stitch foot or all purpose foot.

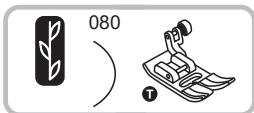


❖ Scallop edging

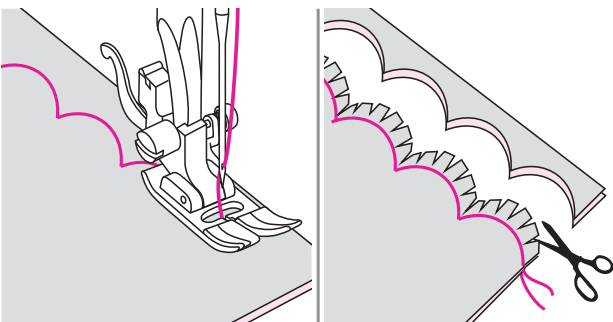
Stitch along the edge of the fabric, making sure not to sew directly on the edge of the fabric.

For better results, apply spray starch onto the fabric and press with a hot iron before it is sewn.

Trim the fabric close to the stitching taking care not to cut the stitches.



Using the all purpose foot.

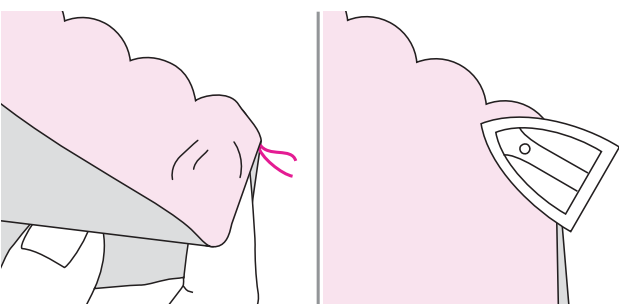


❖ Scallop hem

Fold the fabric right side together. Sew along the folded edge as illustrated.

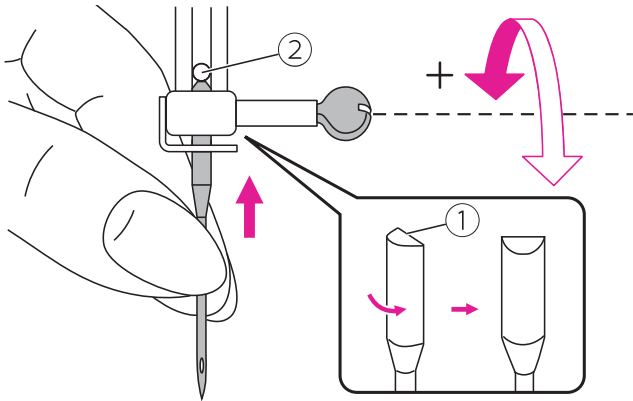
Cut the fabric along the seam leaving an allowance of 3mm for seaming.

Notch the allowance.



Turn the fabric over and push out the curved seam to the surface and iron it.

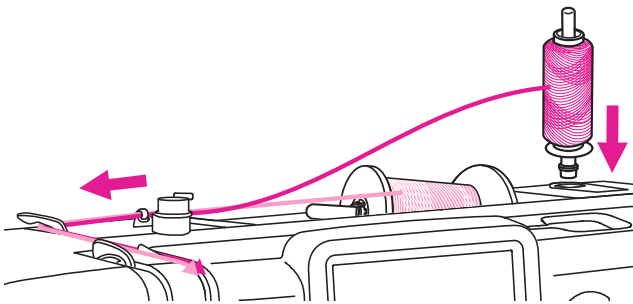
Twin needle



* The twin needle is optional. It is not included with the machine.

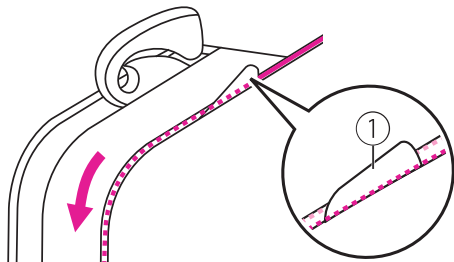
When using twin needles, be sure to attach the suggested presser foot which screen appears.

Insert the twin needle. Please refer to "Replacing the needle" chapter for more information.



Set the second spool pin into the hole on the top of the machine and put spool pin felt and thread onto second spool holder.

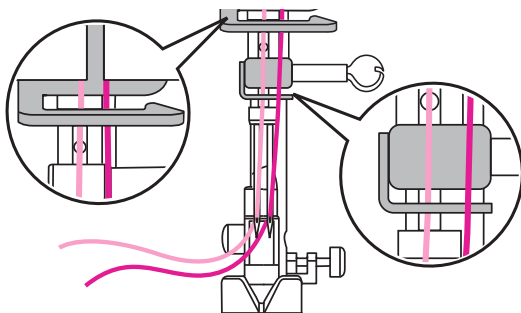
Threading twin needle is the same instruction as single needle. Please refer to "Threading the upper thread" chapter for more information.



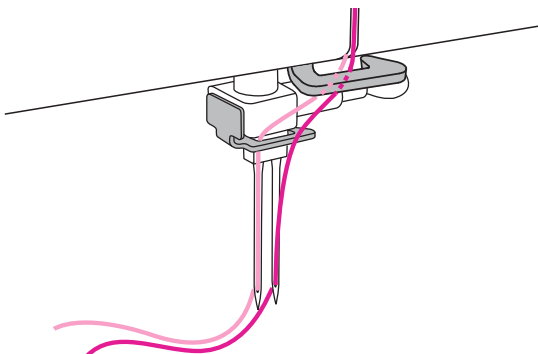
⚠ Attention

The thread from horizontal spool holder must through from left side of the guide plate and the second spool holder thread pass through from right side of the guide plate.

① Twin needle thread guide plate



As shown in the picture, pull the thread from the horizontal spool holder pass through left needle hole manually and thread from the second spool holder pass through right needle hole.



For better sewing results, pass the second thread in front of the needle clamp, as shown in the picture.

Note

- Twin needle can not use automatic needle threader.
- Make sure that the two threads used to thread the twin needle are of the same weight. You can use one or two colors.



Twin needle

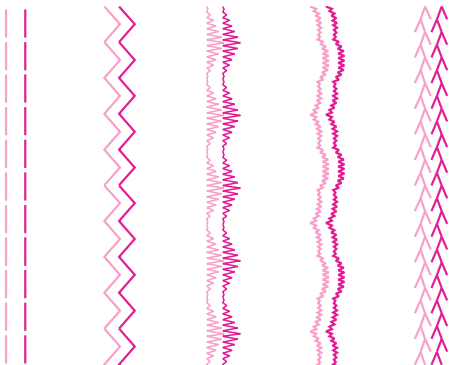


Twin needle setting

Enter the twin needle setting page, turn on the twin needle function. The machine automatically reduces the maximum width for the twin needle sewing.

⚠ Attention

- Be sure to set the twin needle mode when using the twin needle. Using the twin needle in the single needle mode may cause the needle to break, resulting in damage.
- If you use the straight needle plate after setting the twin needle, a warning message will pop up in the screen, and the machine will automatically set to the single needle mode, and please replace the single needle, otherwise it will cause the needle to break and cause danger.
- Cannot use or set the twin needle in Combination mode.



Two lines of stitching are sewn parallel to each other.

Note

- When sewing with twin needle, always proceed slowly, and make sure to maintain a low speed to insure quality stitching.
- When twin needle sewing has been selected, it will remain active even the stitch is changed.

⚠ Attention

After finishing sewing, please remember to change from twin needle to single needle and go to setting page to select the single needle mode.



Embroidery Preparation

Important embroidery information

❖ Embroidery threads

A good quality thread is essential for embroidery to avoid poor stitch formation, needle break, etc.

Good embroidery performance will be effective by using 40wt glossy rayon or polyester embroidery threads as upper threads. They are available in a wide range of colors for beautiful embroidery.

Polyester threads

Polyester is a glossy thread with high tensile strength, hard wearing and colorfast features, which is suitable for all type of embroidery.

Rayon threads

Rayon is a soft viscose fiber with a brilliant sheen and suitable for fine, delicate embroidery, or items that will not receive excessive wear and tear.

Metallic threads

Metallic thread is a light to medium weight thread suitable for special effects in embroidery.

Reduce the thread tension when embroidering with metallic threads.

Embroidery needle

- Select correct thread size and needle size for embroidery.
- Replace the needle regularly.

Note

Please use the second spool pin when metallic or special material threads been used.

❖ Bobbin threads

Bobbin Fill (special bobbin thread)

Bobbin Fill is an especially soft and light polyester thread suitable for bobbin thread. This special bobbin thread ensures a steady thread tension and best performance of pieces of the upper and bobbin thread.

Darning and embroidery thread

Fine mercerized cotton thread which is suitable for embroidering on cotton.

Note

In most cases, bobbin thread for embroidery is either white or black. Some special cases require the same for upper and bobbin thread.

❖ Stabilizer

Tear-away stabilizers

- The excess is easily to tear away.
- One or more layers can be used.
- Available for light and thick materials.
- Before hooping, apply a little spray onto back side of fabric can bring more stability on performance.
- Carefully tear away excess stabilizer from the back of the project after completion.
- Ensure the embroidery pattern will not be deformed.
- Leaving the stabilizer under the larger embroidered areas.

Application:

- Available for all woven materials and non-stretch materials.

Cut-away stabilizers

- One or more layers can be used.
- Available for light and thick materials.
- Before hooping, apply a little spray onto back side of fabric can bring more stability on performance.
- Carefully cut away excess stabilizer from the back of the project after completion.
- Ensure the embroidery patten will not be deformed.
- Leaving the stabilizer under the larger embroidered areas.

Application:

- For all elastic materials.

❖ **Adhesive Spray**

Avoid using spray adhesive next to your embroidery machine.

- Keep about 25-30 cm distance while using the spray.
- Use the spray carefully.
- Spray the stabilizer and adhere to back side of material carefully and iron to prevent wrinkles.

Application:

- Keep stretch and knitted material in shape.
- Prevent layers of fabric slipping while smooth material been used.
- Appliques can be exactly positioned.
- Place cloth on stabilizer, e.g. pocket flaps.
- Do not place the napped materials(i.e. velvet) in the hoop. It may have hoop marks on the material.
- Fix the area to be embroidered.

Spray starch for additional stiffening

Spray starch is ideal for additional stiffening on fine, soft or loosely woven materials.

- Spray on the area to be embroidered
- Wait until dry; or press gently with a warm iron if necessary
- Always use an additional stabilizer such as water soluble stabilizer to be applied on the material.

Application:

- Ideal for fine, loosely woven materials, e.g. batiste, fine linen, etc.

❖ Iron-on interfacing

Iron-on interfacings are available in a variety of weights. Iron-on interfacings should be selected to suit the material being used. Use an iron-on interfacing which is easily removable from the material.

Use the iron-on interfacing to the wrong side of material and press.

Application:

- Please use an appropriate stabilizer and cut it in a bigger shape than your embroidery pattern. Then place it onto the design for support.

Paper-backed adhesive stabilizer

- Place stabilizer in hoop with paper side up.
- Use a pointed tool (e.g. scissors) to score the paper.
- Remove the paper to reveal the sticky surface.
- Position the fabric over the sticky surface and smooth into place.

Application:

- Intended for delicate materials such as jersey or silk etc.
- For hard-to-hoop parts and materials.

Note

Make sure that the adhesive residue on needle, stitch plate and hook area are totally removed.

Water soluble stabilizer

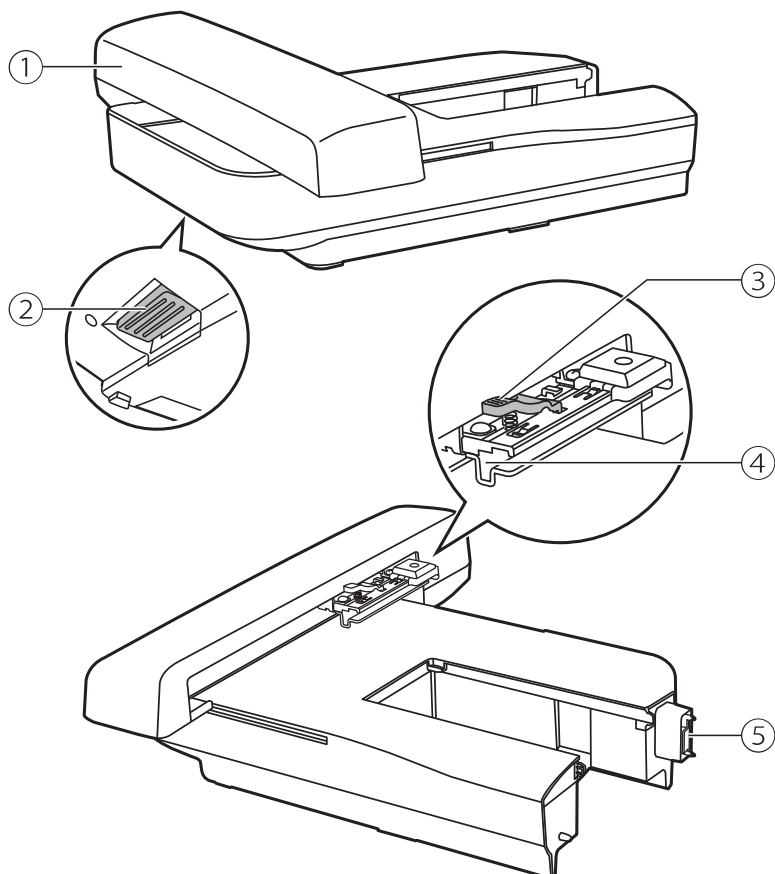
Water soluble stabilizer looks like plastic wrap. When you finish embroidery design, simply submerge project in warm water to dissolve stabilizer. Water soluble stabilizer helps keep the stitches from disappearing in high-pile fabrics (such as towels or fluffy cotton).

- Place the water-soluble stabilizer on top of the fabric.
- Place all layers together into the embroidery hoop.
- Use adhesive spray to fix stabilizer if necessary.
- For pile fabrics, an additional stabilizer on the wrong side is suggested for reinforcement.
- After finishing the sewing, dissolve it and lay the project until dry.

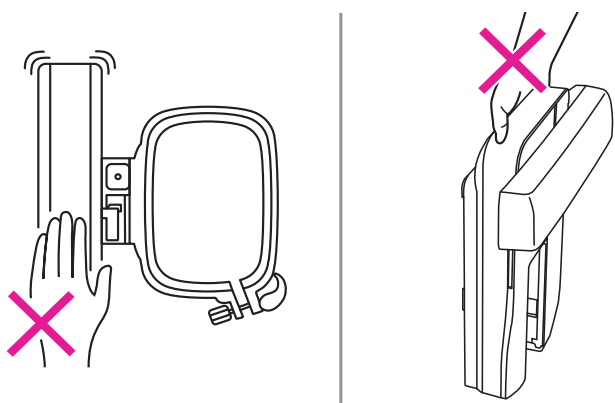
Application:

- Available for towel, velvet, bouclé and etc.
- Available for fine, sheer material such as organdy, bastiste and etc.
- Available for lace embroidery.

Embroidery unit overview



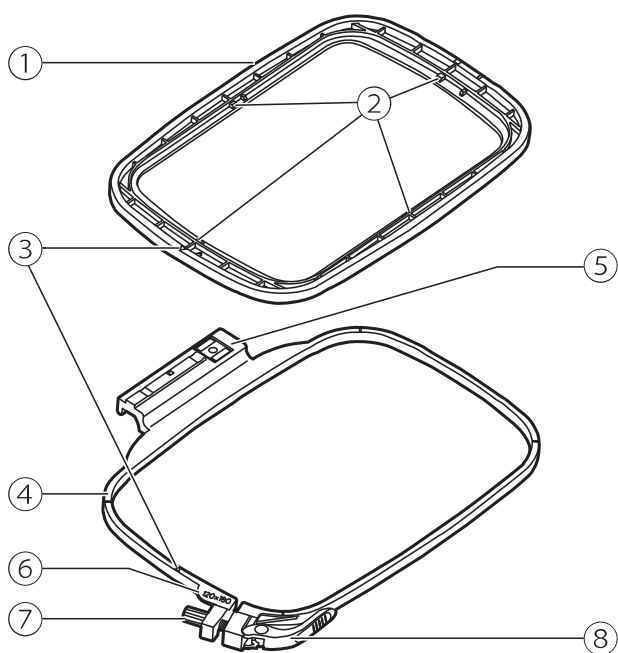
- ① Embroidery carriage
- ② Embroidery unit release button
- ③ Hoop-securing lever
- ④ Embroidery hoop holder
- ⑤ Embroidery unit detection device



Note

- Do not touch the embroidery unit detection device. The connector could be damaged, and it may cause malfunctions.
- Do not press or force on embroidery carriage, and do not lift it up. It may cause malfunctions.
- Do not carry the embroidery unit by holding the release button compartment.

Embroidery hoop overview



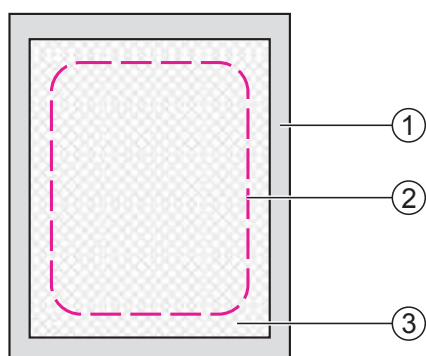
- ① Inner hoop
- ② Center marks
- ③ Triangular mark
- ④ Outer hoop
- ⑤ Embroidery hoop connector
- ⑥ Hoop size marks
- ⑦ Fastening screw
- ⑧ Quick release device

Preparing the embroidery hoop

❖ Attaching a stabilizer to the fabric

⚠ Attention

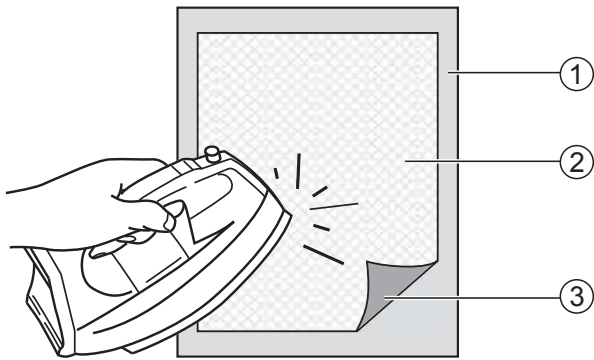
Always use stabilizer material when embroidery. The needle may break or bend without using stabilizer material for thin fabrics or stretch fabrics in embroidering works. Furthermore, the pattern may not be sewn perfectly.



To obtain the best embroidery performance, it is important to use stabilizers.

Prepare stabilizer material that is larger than the embroidery hoop being used.

- ① Wrong side
- ② Size of embroidery hoop
- ③ Stabilizer



If you are using adhesive stabilizers, place the adhesive surface of the stabilizer material against the wrong side of the fabric, and iron.

- ① Wrong side
- ② Stabilizer
- ③ Adhesive surface

❖ Hooping the fabric

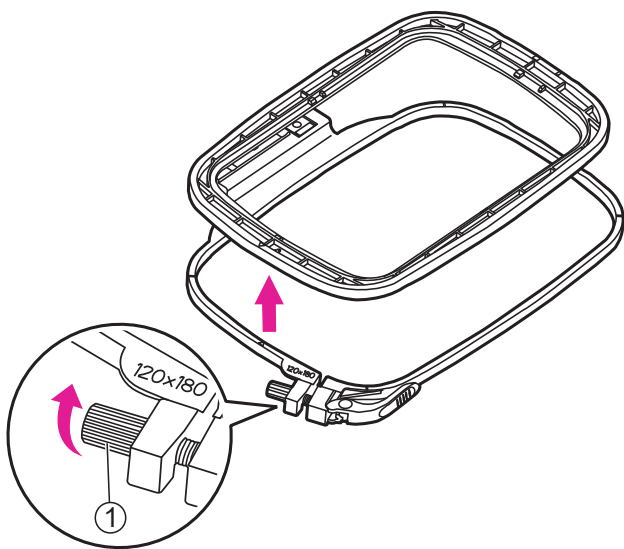
⚠ Attention

Thick layers of fabric and stabilizer may cause skipped stitches, or broken threads, needles and damage on embroidery hoops.

Loosen the fastening screw under the outer hoop.

Separate the inner hoop and outer hoop.

- ① Fastening screw

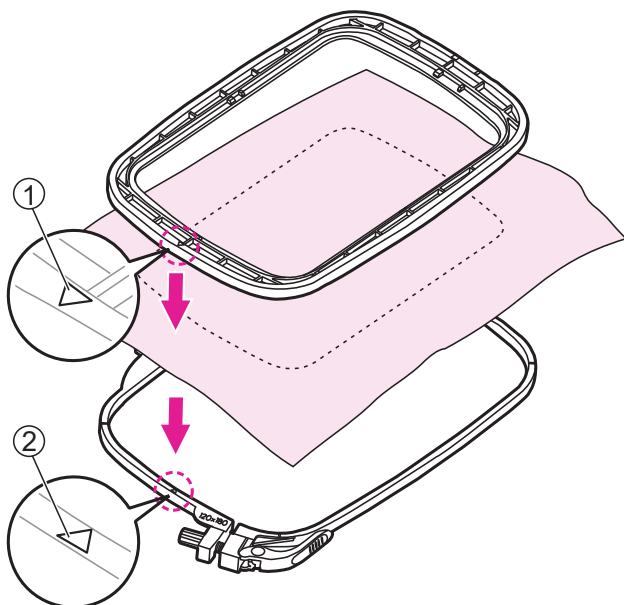


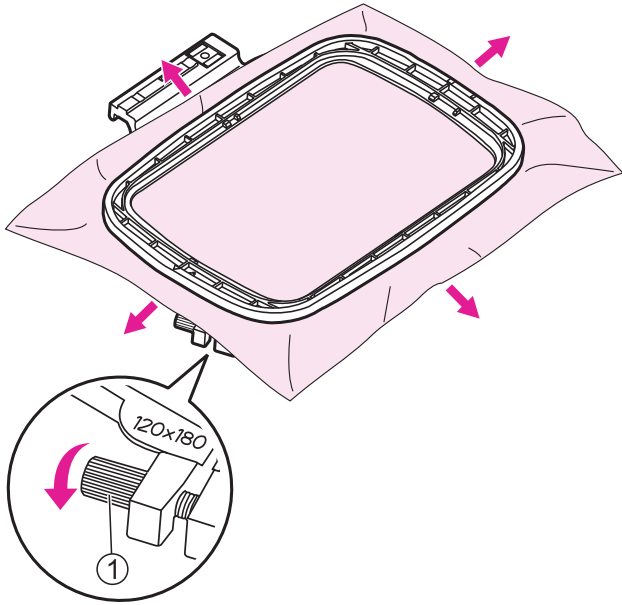
Place the outer hoop on a sturdy flat space.

Make sure the fabric with right side upwards, place the stabilizer underneath the fabric for better support, and then place the fabric and stabilizer altogether on the outer hoop. It can achieve better embroidery performance.

Align both triangular marks and fix the fabric in place.

- ① Inner hoop's triangular mark
- ② Outer hoop's triangular mark

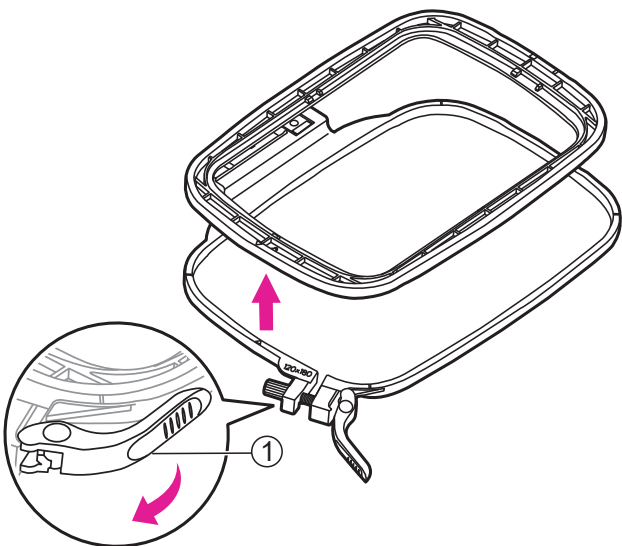




Place the inner hoop on the fabric and press firmly until they are securely fit to outer hoop perfectly. If the inner hoop cannot fit properly, loosen the outer hoop's fastening screw and adjust until fitted.

When the fabric and inner hoop are completely fit into the outer hoop, pull the fabric from the four sides marked with the arrows so that the fabric is stretched drum-tight in the hoop, and then press the inner hoop downwards so that it sinks into the outer hoop a little and tighten the fastening screw.

① Fastening screw

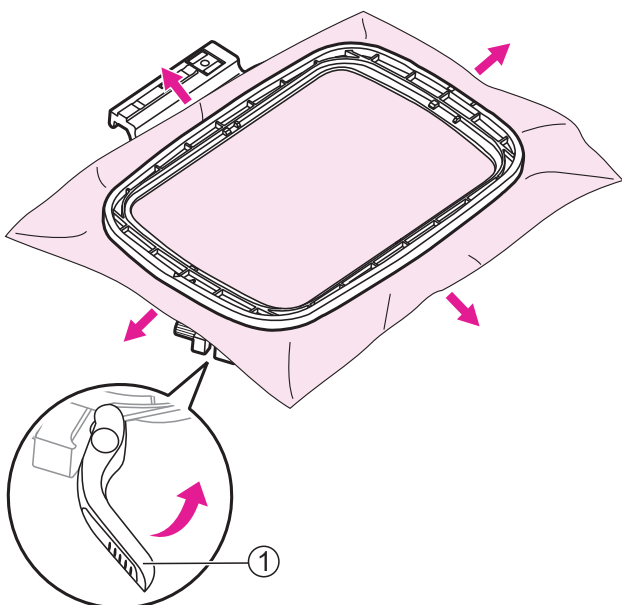


❖ Use the quick release device

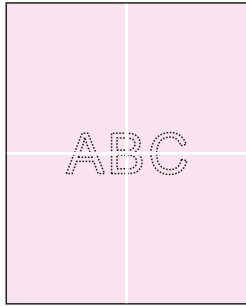
If same type of fabric is used for embroidery, open the quick release device under the outer hoop.

Separate the inner hoop and outer hoop.

① Quick release device



Place the inner hoop on the fabric and press firmly until them are securely fit to outer hoop perfectly, pull the fabric from the four sides marked with the arrows so that the fabric is stretched drum-tight in the hoop, and then press the inner hoop downwards so that it sinks into the outer hoop a little and close the quick release device.



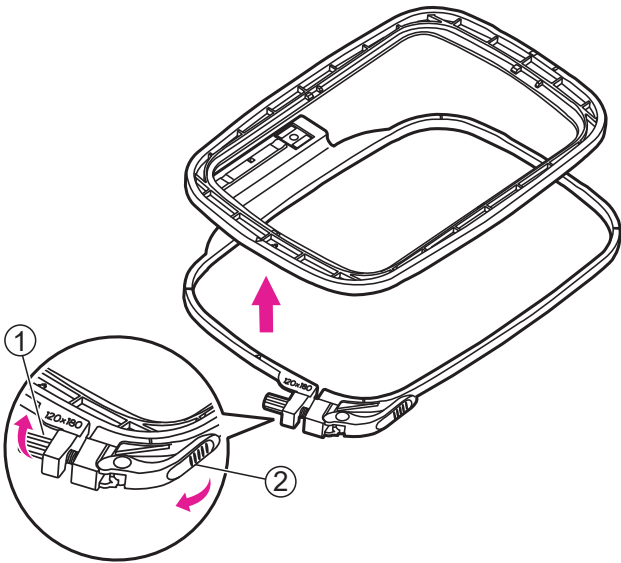
❖ Using embroidery sheet

Make a mark with a chalk at the center of the position for the pattern to be embroidered.

Loosen the fastening screw or open the quick release device (if same type of fabric is used for embroidery).

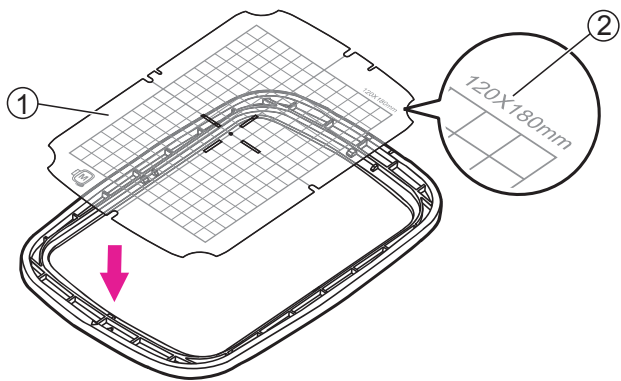
Separate the inner hoop and outer hoop.

- ① Fastening screw
- ② Quick release device



Place the embroidery sheet on the inner hoop. Make sure the hoop size printing is on top right side.

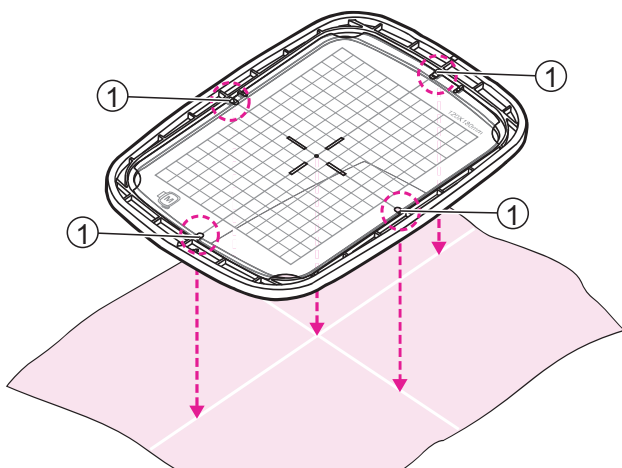
- ① Embroidery sheet
- ② Hoop size

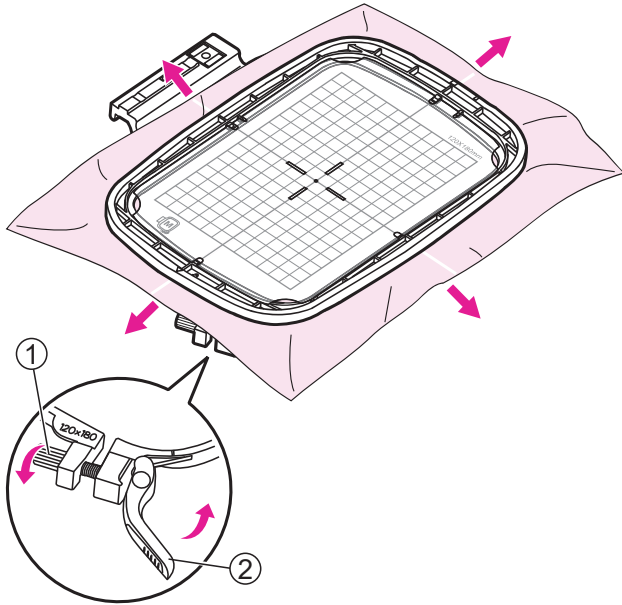


Line the mark on the fabric up with the base line on the embroidery sheet.

Also, align the cross mark of the fabric to the center marks on the four sides of the inner hoop.

- ① Center marks

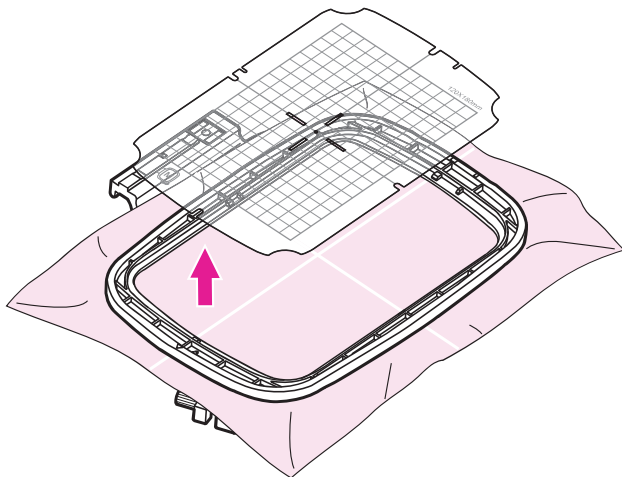




Place the inner hoop on the fabric and press firmly until they are securely fit to outer hoop perfectly. If the inner hoop cannot fit properly, loosen the outer hoop's fastening screw and adjust until fitted.

When the fabric and inner hoop are completely fit into the outer hoop, pull the fabric from the four sides marked with the arrows so that the fabric is stretched drum-tight in the hoop, and then press the inner hoop downwards so that it sinks into the outer hoop a little and tighten the fastening screw or close the quick release device (if same type of fabric is used for embroidery).

- ① Fastening screw
- ② Quick release device

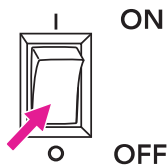


Remove the embroidery sheet.

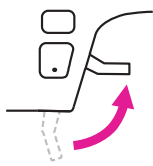


| Embroidery Process

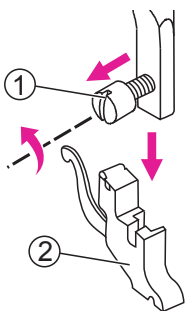
Preparation for embroidery



ON
OFF

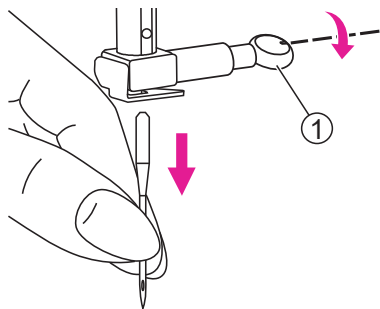
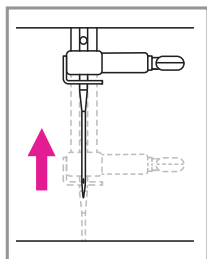


Turn the power switch to off ("O"). Raise the presser foot lifter.



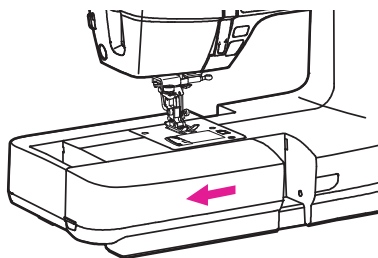
Loosen the screw counter-clockwise to remove the presser foot holder.

- ① Screw
- ② Presser foot holder

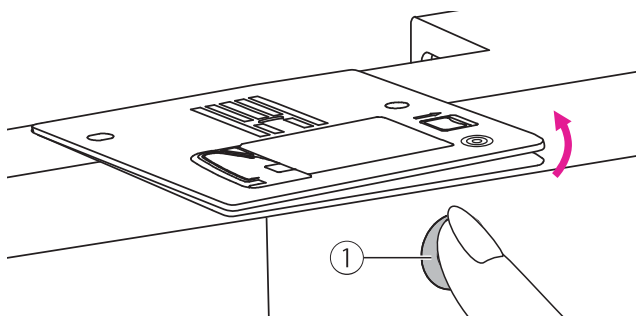


Turn the handwheel toward you to raise the needle then loosen the needle clamp screw to remove the needle.

- ① Needle clamp screw

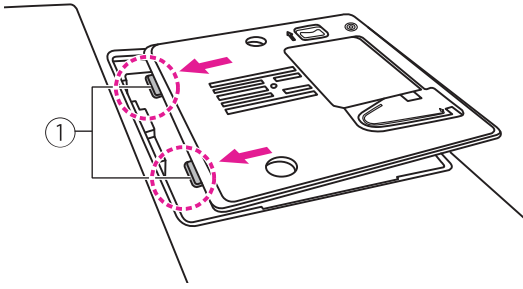


Hold the sewing table horizontally, then pull toward the left to remove it from the machine.



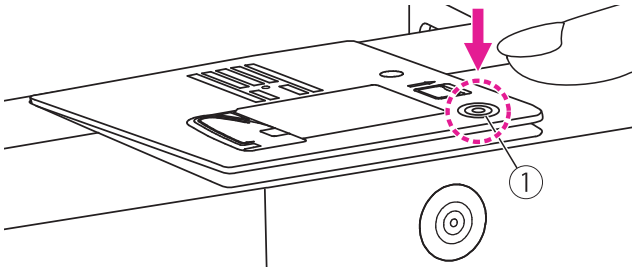
Press the needle plate button to remove the needle plate.

- ① Needle plate button



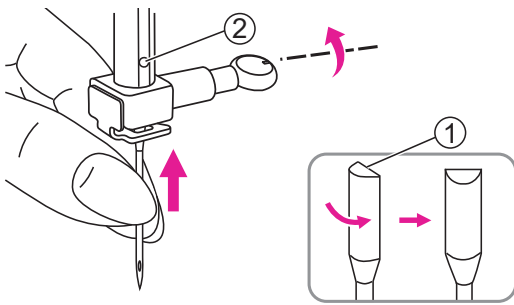
Change the straight stitch plate, set the front edge of the needle plate to the notches.

- ① Hook



At the marking on the right side of the stitch plate, push the stitch plate downwards until it clicks into place.

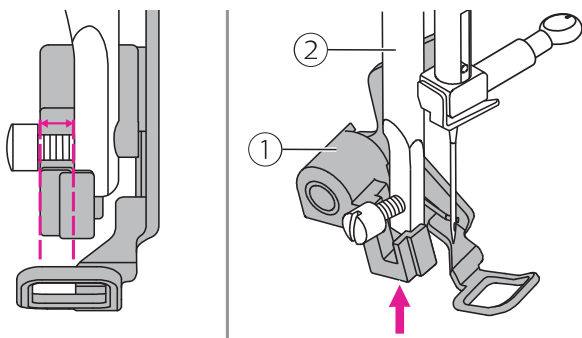
- ① Needle plate marking



Inserting a proper needle, keep the flat side of the shaft to the back.

Please refer to page "Matching needle/fabric/thread" and "Replacing the needle" for more information.

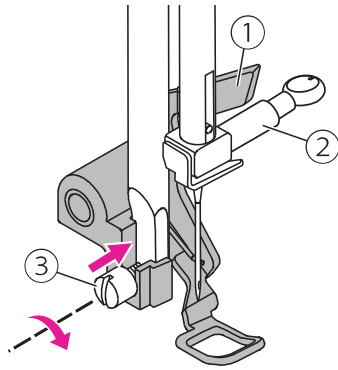
- ① Flat side of the shaft
- ② Pin



Make the embroidery foot lever upwards.

Tilt the embroidery foot and insert it from left to right so that the notch fits into the presser foot bar, and then push the embroidery foot upwards until it is aligned with the screw.

- ① Embroidery foot
- ② Presser foot bar



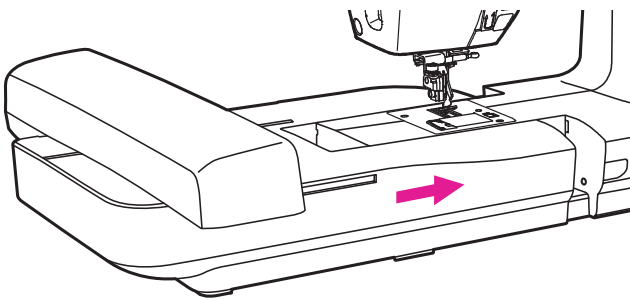
The embroidery foot lever will be against the top of the needle clamp screw, then tighten the screw by using the screwdriver.

- ① Embroidery foot lever
- ② Needle clamp screw
- ③ Screw



Note

Please check and make sure the presser foot is raised and remove embroidery hoop first before attaching embroidery unit onto the machine.



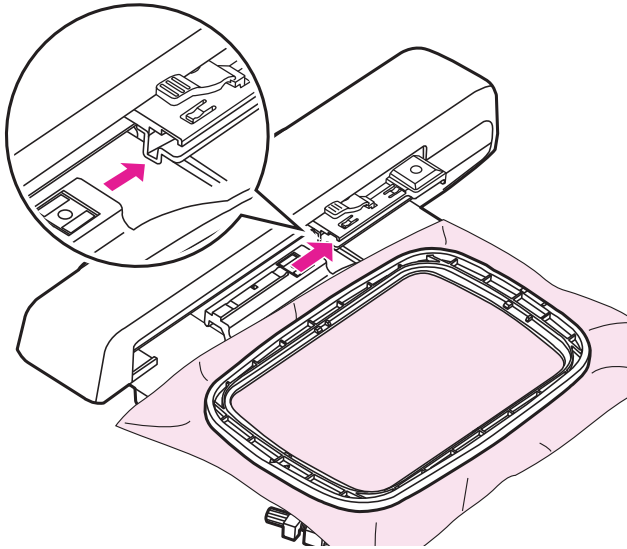
Slide the embroidery unit onto the machine arm. Push lightly until the unit clicks into place.

⚠ Attention

Once embroidery unit is installed, foot control cannot be operated.

Install the embroidery hoop

After editing the embroidery image file, place the embroidery hoop with the corresponding size to perform the preparations for embroidering.



△ Attention

Install or remove the embroidery hoop, please make sure the needle and presser foot are the highest position, so that can put in & take out smoothly. Otherwise may damage the needle and presser foot.

The embroidery hoop has two built-in sizes which are 120x180mm and 50x70mm, respectively. Select the corresponding size according to the image design.

Once the power is turned on, hoop the fabric in the selected embroidery hoop and slide the embroidery hoop into the embroidery unit to assemble them. When you hear a "click", it means that the embroidery hoop installation is completed.

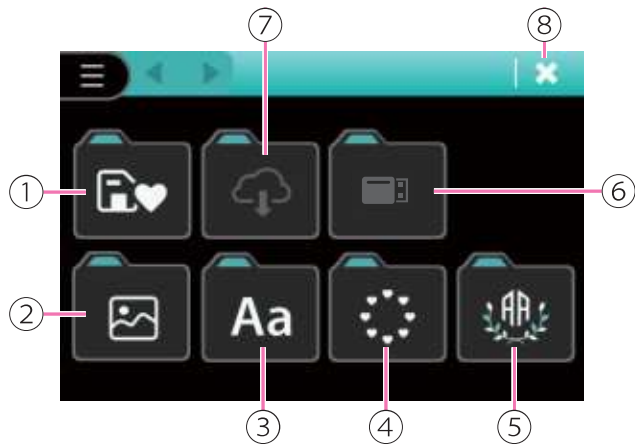
Note

- Please raise the presser foot lifter while the embroidery hoop is resetting.
- The reset action must be performed every time when a different size embroidery hoop is re-installed.

△ Attention

- Please check the fabric thickness in advance, if the fabric is too thick, please don't use it for embroidery.
- If there is space between the presser foot and the fabric, the fabric can be embroidered. If there is not space, do not embroider the fabric. Otherwise, the needle may break, resulting in injury.
- Please be careful when sewing overlapping patterns as the needle might break due to the difficulty of fabric penetration.

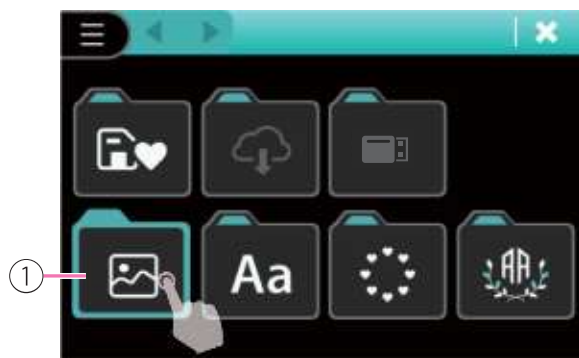
Selecting embroidery pattern



❖ Embroidery pattern types

After installed the embroidery unit, turn on the power and enter embroidery mode.

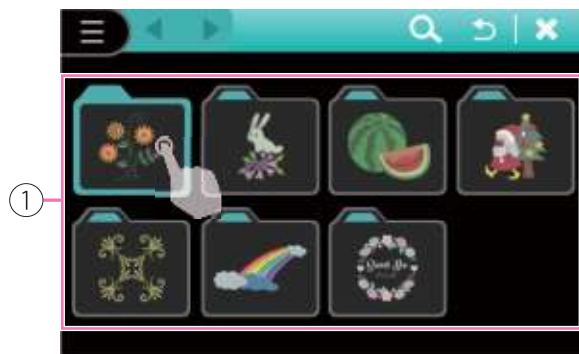
- ① Personal embroidery patterns
- ② Built-in embroidery pattern
- ③ Text
- ④ Frame
- ⑤ Monogram
- ⑥ USB flash drive
- ⑦ Cloud file
- ⑧ Go to edit page



❖ Built-in embroidery pattern

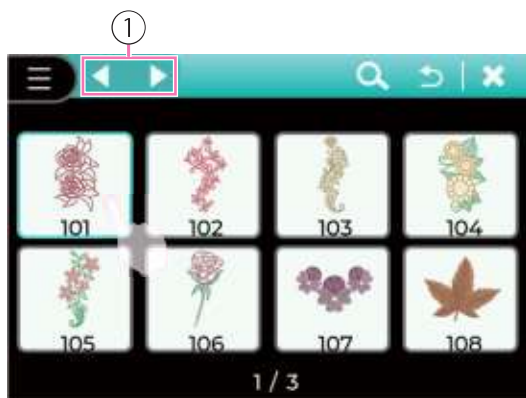
Click Built-in embroidery pattern icon and enter the category page.

- ① Built-in embroidery pattern



There are multiple groups of built-in embroidery patterns, review the categories and select the desired pattern.

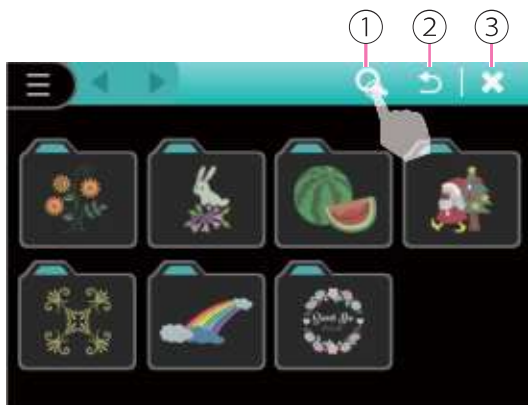
- ① Select the pattern



Click Page switching icon and select the desired pattern to enter editing page.

- ① Page switching

Please refer to "Editing the embroidery pattern" chapter for more information.

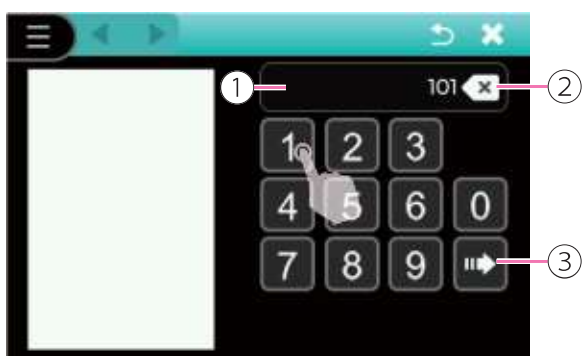


Click Search icon to enter quick pattern search page.

Click Return icon to the previous page.

Click Close icon to go to edit page.

- ① Search
- ② Return
- ③ Close



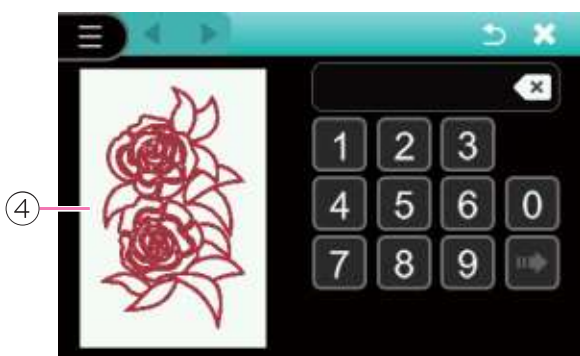
Refer the pattern number and key in to search. Click Confirm icon to display the desired pattern. If the number is not valid, it will display the warning message.

Click Delete icon to delete last digit number, long press delete icon to delete all numbers.

Select the desired pattern to enter in the embroidery editing page.

Please refer to "Editing the embroidery pattern" chapter for more information.

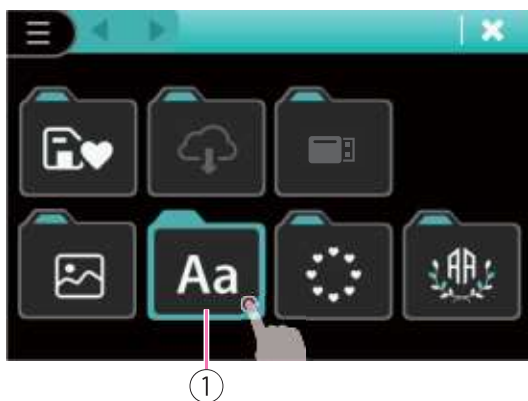
- ① Key in bar
- ② Delete
- ③ Confirm
- ④ Embroidery pattern



❖ Built-in embroidery letter

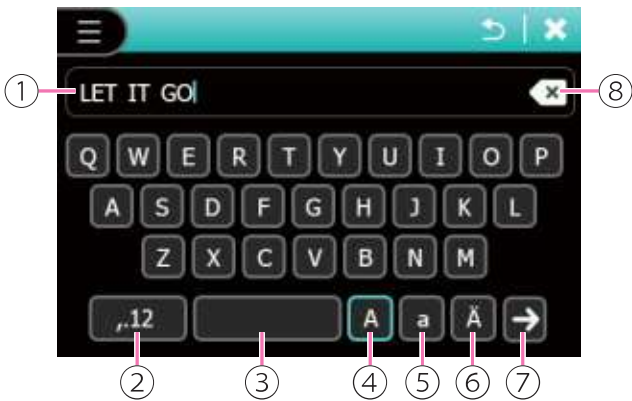
Click the Embroidery letter icon to enter selection screen.

- ① Text





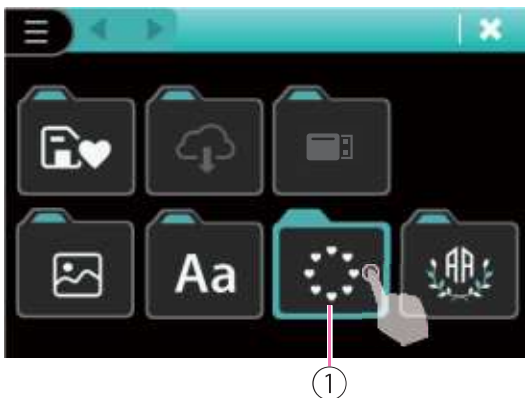
There are multiple fonts of built-in embroidery text, review the categories and select the desired text.



Key in the desired letter to make a combination. Click Delete icon to delete last letter, long press delete icon to delete all letters. Click Return icon to return to the Text category page. After the input is completed, click Confirm icon to enter the embroidery editing page.

- ① Key in bar
- ② Numbers and symbols
- ③ Space button
- ④ Upper letters
- ⑤ Lower letters
- ⑥ Special characters
- ⑦ Confirm
- ⑧ Delete

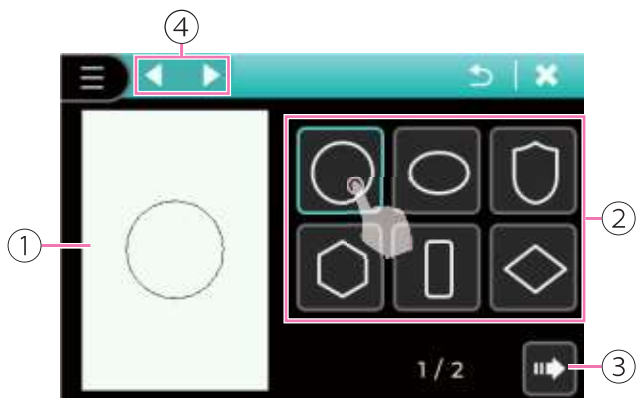
Please refer to "Editing the embroidery pattern" chapter for more information.



❖ Built-in frame designs

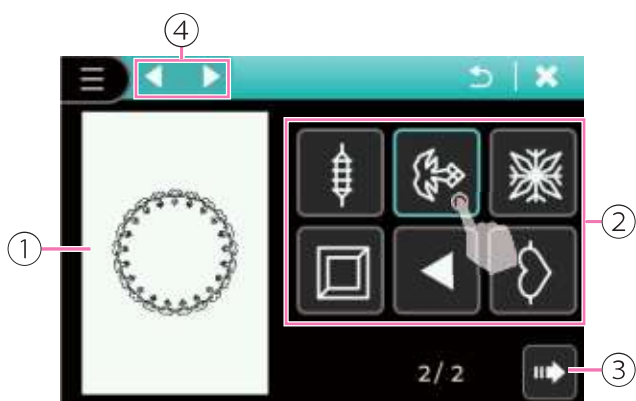
Click the Frame designs icon to enter frame selection page.

- ① Frame



Click the desired frame shape, it will display the preview on the screen. Click Switching icon to view other shapes. Click Next icon to enter the Frame pattern selection.

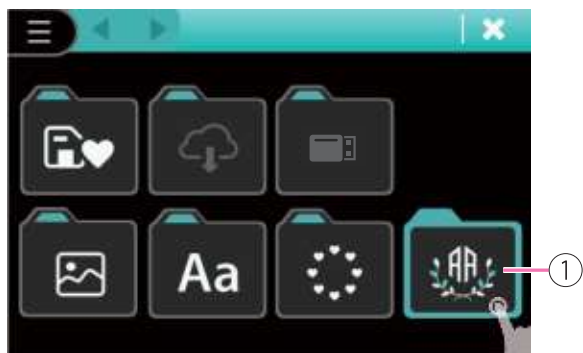
- ① Preview
- ② Frame shape selection
- ③ Next
- ④ Frame shape switching



Click the desired frame pattern to combine. Click Switching icon to view other patterns. Click Confirm icon to enter the embroidery editing page.

- ① Preview screen
- ② Frame pattern selection
- ③ Confirm
- ④ Frame pattern switching

Please refer to "Editing the embroidery pattern" chapter for more information.



❖ Built-in monogram letters

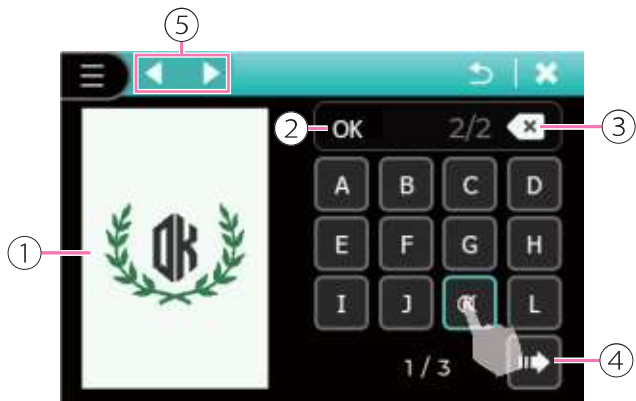
Click the Monogram letters icon to enter frame selection page.

- ① Monogram



Click the desired frame, it will display the preview on the screen. Click Next icon to enter the Letters selection.

- ① Preview screen
- ② Next



Input the desired text to finish the monogram and it will display the preview on the screen. Click Delete icon to delete last letter, long press Delete icon to delete all letters.

After finished the editing, click Confirm icon to enter in the embroidery editing page.

- ① Preview screen
- ② Key in bar
- ③ Delete
- ④ Confirm
- ⑤ Page switching

Please refer to "Editing the embroidery pattern" chapter for more information.

❖ Designs from USB

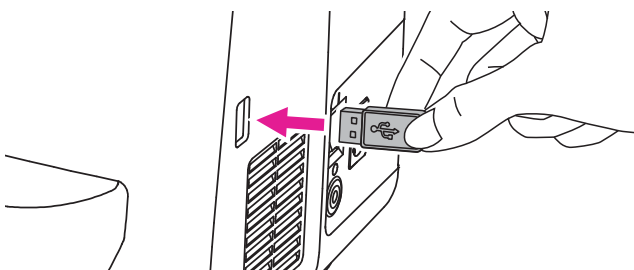
The machine has a USB port for memory stick. Through a USB, you can import patterns from the computer to the machine.

Note

- The USB storage device such as RAM disk is not included with the machine, but such kind of devices are easily available in computer shops and camera shops.
- The USB storage device must be of either FAT32 formats only.
- The USB storage device's max allowed capacity is 256GB. (256G storage capacity is tested and available.)

Please be aware of the following tips, otherwise malfunctioning may happen.

- This feature only supports files generated from the Artist Toolkit application software with .zhs format. More detailed information please contact nearest authorized retailer.
- This machine can read following format: .zhs
- The embroidery file name can be up to 256 characters and it can be letters, numbers, . (dot), _ (underline), and - (hyphen).
- If somehow the file cannot be read by the machine correctly. It could be because the file name of the file has contained irregular character(s). The valid file names need to be made of any of the 26 English letters or the numbers 0 through 9.
- The sizes of the embroidery patterns cannot exceed 120 x 180 mm (W x H).
- The embroidery patterns cannot exceed 50 layers.
- The embroidery pattern can not exceed a maximum number of 120,000 stitches.



❖ Connect to USB port

Insert the USB storage device into the USB port on the right side of the embroidery machine.



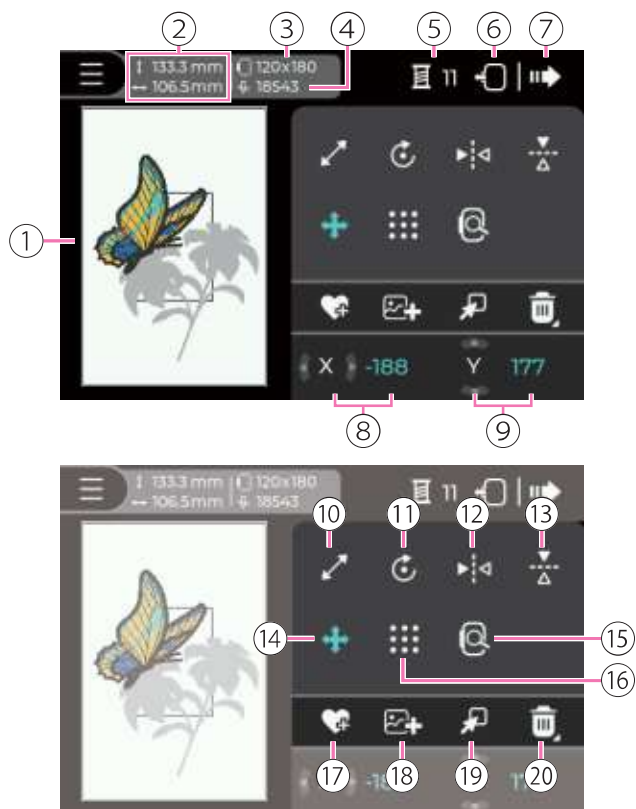
Click USB flash drive file to enter the selection page.

① USB flash drive

Select the desired pattern to enter edit page.

Please refer to "Editing the embroidery pattern" chapter for more information.

Editing the embroidery pattern



When the embroidery pattern is selected, you can adjust the angle, size, position and color in your preference.

- ① Preview screen
- ② Embroidery pattern size
- ③ Embroidery hoop size
- ④ Embroidery pattern total stitches
- ⑤ Color setting
- ⑥ Hoop relocator
- ⑦ Next
- ⑧ X-axis value
- ⑨ Y-axis value
- ⑩ Lock aspect ratio
- ⑪ Rotate
- ⑫ Horizontal mirror function
- ⑬ Vertical mirror function
- ⑭ Move the patterns
- ⑮ Zoom in/Zoom out
- ⑯ Check the embroidery pattern size
- ⑰ Save file
- ⑱ Add new patterns
- ⑲ Switching layers
- ⑳ Delete



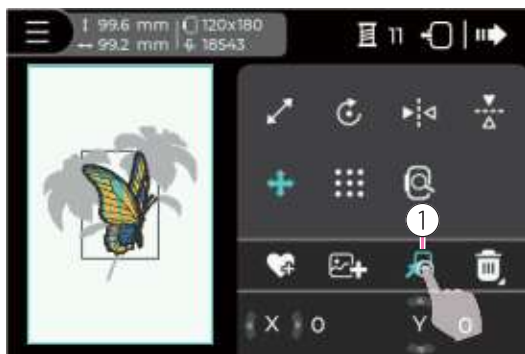
❖ Adding embroidery pattern

Select the pattern and enter edit page. Click Add new patterns icon to select the new patterns.

- ① Add new patterns

Note

The embroidery patterns cannot exceed 50 layers.



❖ Switch the embroidery pattern layers

Click Switching layers icon, the selected layer will show in the action color in the switching layers section.

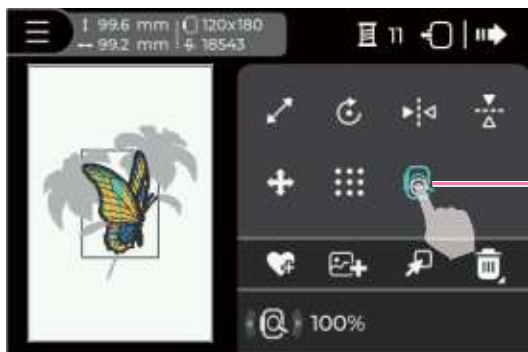
- ① Switching layers



Click Switching layers icon continuously, it can cycle switching pattern and maintain their order.

Note

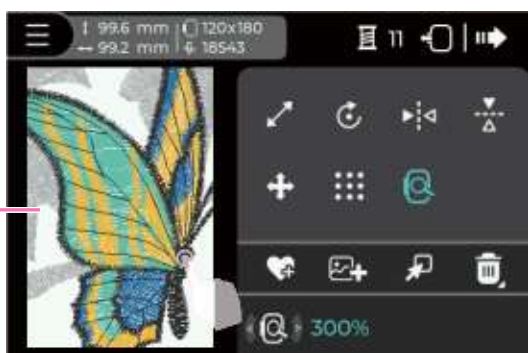
When the pattern layers are less than 2 layers, cannot use this function.



❖ Zoom in/Zoom out function

Click Zoom in/Zoom out icon to preview the pattern. Press Value setting buttons (Right/Left) to Zoom in/Zoom out the pattern.

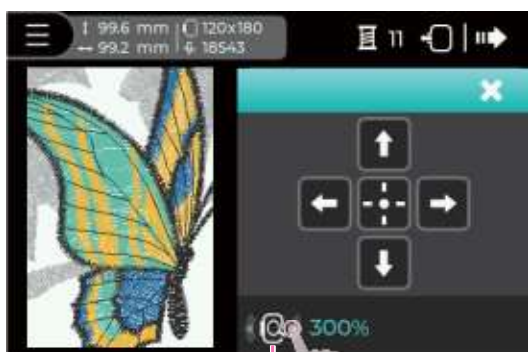
① Zoom in/Zoom out



Click on the preview screen and drag the embroidery pattern.

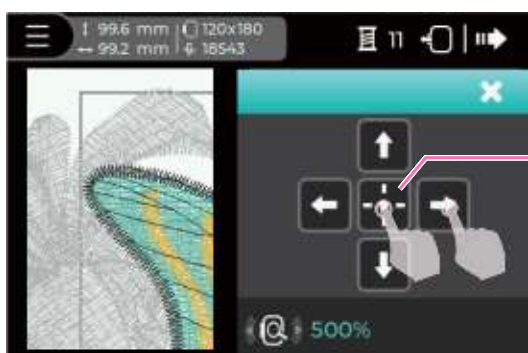
It can view the specific area after zoom in, and it will not affect the actual pattern's position.

① Preview screen



Click Zoom in/Zoom out preview icon will pop out adjustment window, it can view the zoom in patterns.

① Zoom in/Zoom out preview



To view the specific area, long press to move the view area.

Click Center position icon can view the central of pattern quickly.

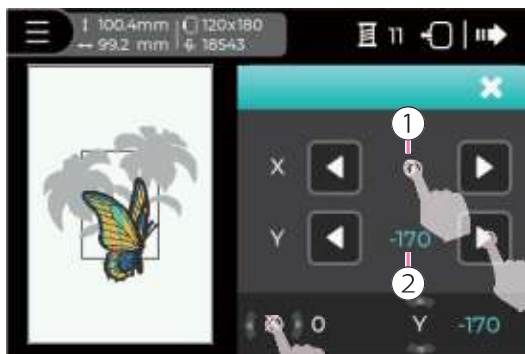
① Center position



❖ Move the embroidery pattern

Click Move the patterns icon to move the patterns in the preview screen. On the right side of the preview screen, the Left and Right arrow shows the X-axis position and Up and Down arrow shows the Y-axis position.

- ① Move the patterns
- ② X-axis position
- ③ Y-axis position



Click X-axis or Y-axis position will pop out adjustment window which can adjust the value. The default value is 0.

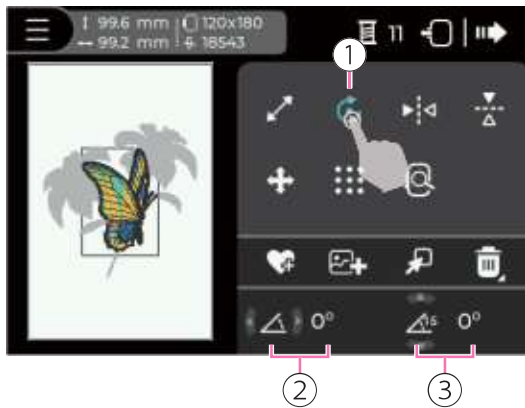
The Left and Right arrow icon can adjust X-axis and Y-axis position. Long click Left/Right arrow icon to adjust value faster.

Click X-axis or Y-axis value will reset to default value 0.

- ① X-axis value
- ② Y-axis value

Note

- It also can use the physical Value setting buttons (Right/Left) and Value setting buttons (Up/Down) to adjust value (position).
- When the embroidery pattern exceeds the hoop, the hoop frame will turn red.



❖ Rotate the embroidery pattern

Click Rotate icon to rotate the patterns.

It can set to rotate 1° or 15° each time. Press the Value setting buttons (Right/Left) to adjust the rotate 1°. Press the Value setting buttons (Up/Down) to adjust the rotate 15°.

- ① Rotate
- ② Rotate 1°
- ③ Rotate 15°



Preview screen will display the rotated patterns. Click Rotate 1° or Rotate 15° will pop out adjustment window which can adjust the value.

The Left and Right arrow icon can adjust the angle clockwise or counterclockwise. Long click Left/Right arrow icon to adjust value faster.

Click 1° or 15° angle value will both reset to default value 0.

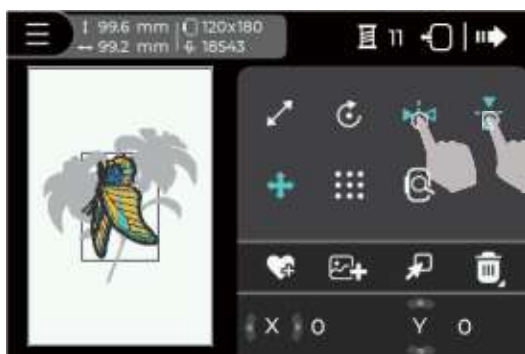
- ① 1° angle value adjustment
- ② 15° angle value adjustment



❖ Mirror the embroidery pattern

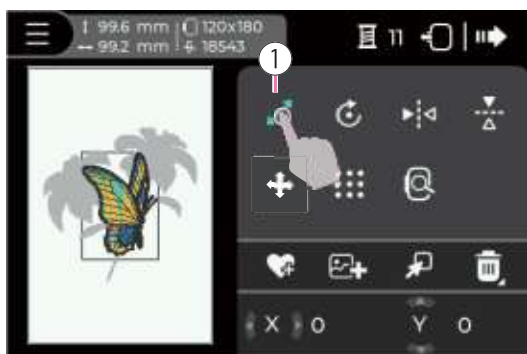
Click Horizontal mirror function icon to flip or mirror a pattern in the horizontal direction. Click Vertical mirror function icon to flip or mirror a pattern in the vertical direction.

- ① Horizontal mirror function
- ② Vertical mirror function



Preview screen will display the mirrored patterns.

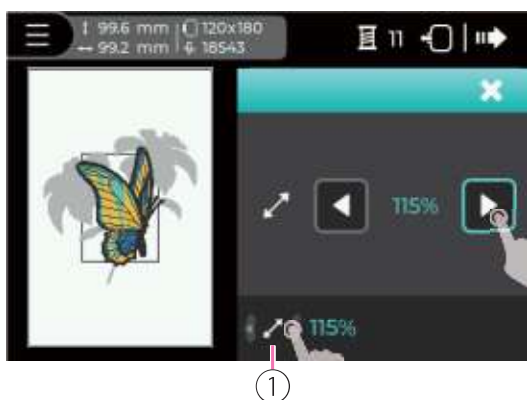
Click the Horizontal mirror function icon or the Vertical mirror function icon again to cancel mirror function, the pattern will restore to last steps.



❖ Resize the embroidery pattern

Click Lock aspect ratio icon to adjust the pattern size with the fixed proportion.

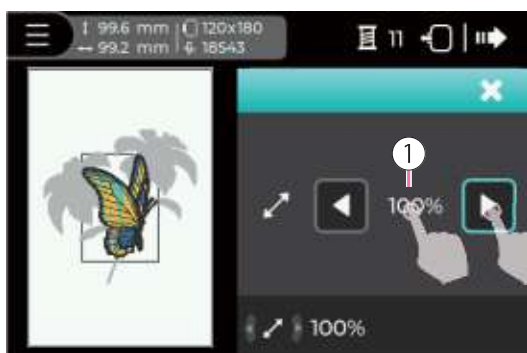
- ① Lock aspect ratio



Preview screen will display the adjusted patterns. The default value is 100%. Click Lock aspect ratio adjustment will pop out adjustment window which can adjust the value.

The Left and Right arrow icon can scale the pattern size with the fixed proportion.

- ① Lock aspect ratio adjustment



Click the Left and Right arrow icon to adjust 1% proportion each time. The scaling size range is 80%~120%.

Long click Left/Right arrow icon to adjust value faster.

Click Lock aspect ratio value to restore to default value.

- ① Lock aspect ratio value

Note

- It also can use the physical Value setting buttons (Right/Left) to adjust value.
- When the embroidery pattern is exceed the hoop, the hoop will turn red.



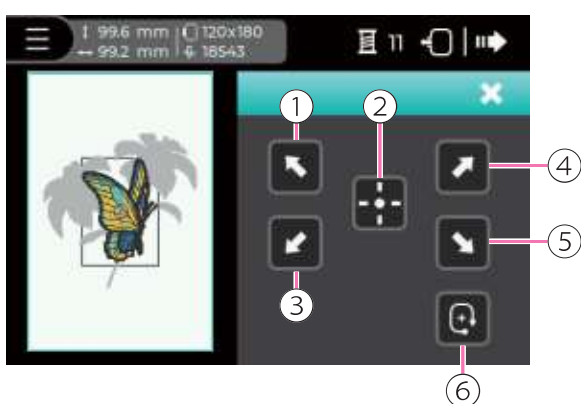
❖ Check the embroidery pattern size

Click Check the embroidery pattern size icon to display the edit page. It can view the actual position in the embroidery hoop.

- ① Check the embroidery pattern size

Note

Please check the embroidery unit and hoop is installed.



Use the center of the pattern as the alignment reference point.

Accordingly to the selected icons, the embroidery hoop will move simultaneously to the position where your needle will align to: center, four corners of pattern, or encircle around the pattern.

- ① The upper left corner of the pattern
- ② The center of the pattern
- ③ The lower left corner of the pattern
- ④ The upper right corner of the pattern
- ⑤ The lower right corner of the pattern
- ⑥ The embroidery hoop will surround four directions

Note

- When the embroidery pattern exceeds the hoop, it cannot check the pattern's size.
- When the embroidery pattern exceeds the hoop, the hoop will turn red.



❖ Delete the embroidery pattern

Select the desired embroidery pattern layer to delete, the layer will shown in the action color.

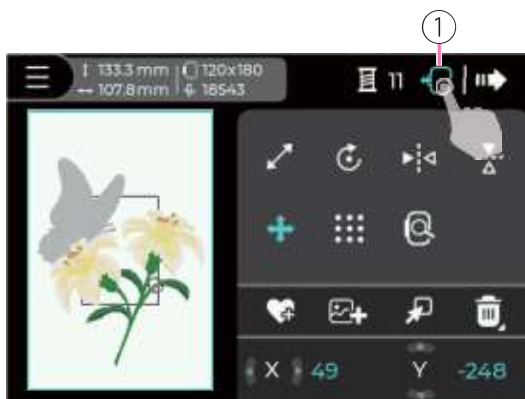
Click Delete icon to delete the selected layer.

Long press Delete icon, the screen will display the warning message to confirm delete all layers.

① Delete



Once deletion completed, the preview screen will display the remaining embroidery layer.

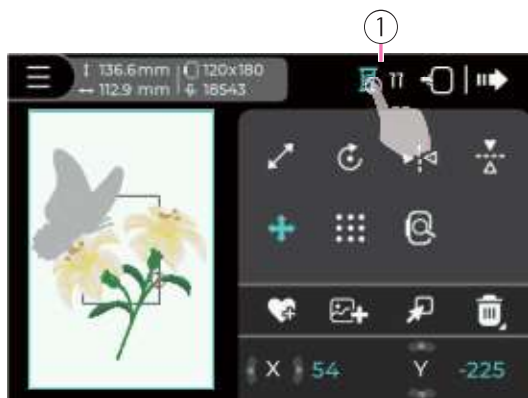


❖ Hoop relocater

Click the Hoop relocater icon, the embroidery unit will return to the starting position in order to stored correctly.

① Hoop relocater

Changing the colors of the embroidery motif

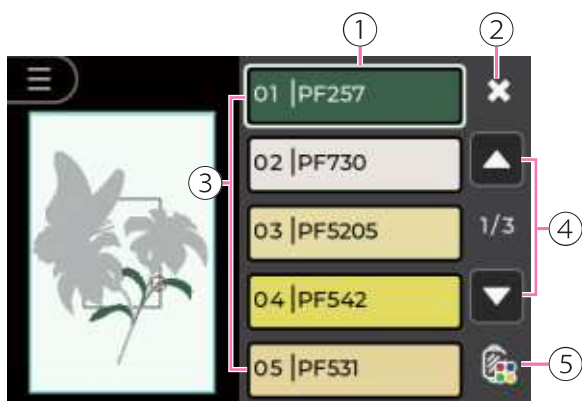


Click Color setting icon to enter edit page.

- ① Color setting

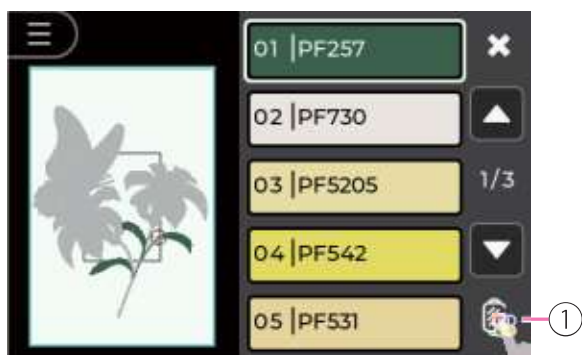
Note

The number means how many thread colors will be used in all layer.



In the color setting edit page, you can change the embroidery thread color.

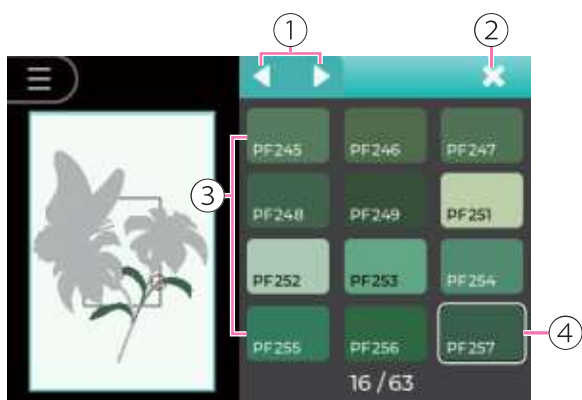
- ① Selected color
- ② Close
- ③ Color list layer
- ④ Switch color
- ⑤ Change color function



Change the thread color

Click Change color function icon to display other colors selection.

- ① Change color function

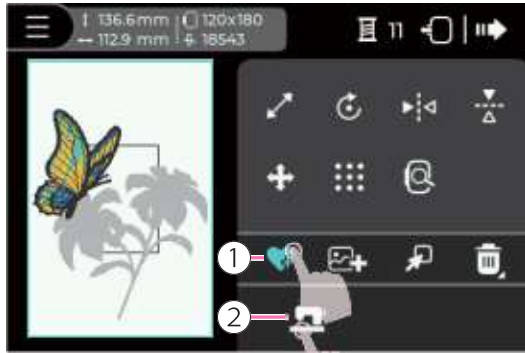


The Left and Right arrow icon can switch and view the color options.

Select the desired thread color to change and the preview screen will change to selected correspond colors.

- ① Page switching
- ② Close
- ③ Color list
- ④ Select the desired thread color

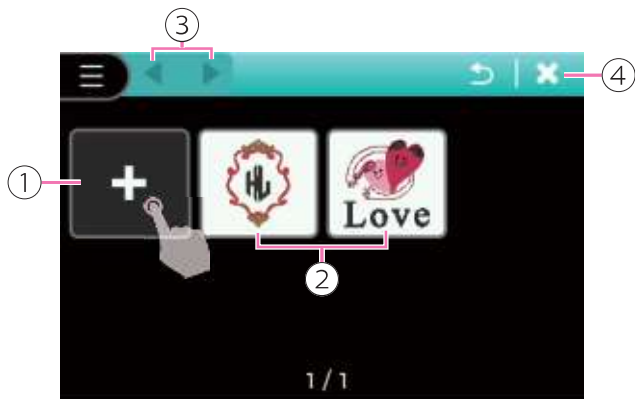
Saving embroidery motifs



❖ Save embroidery pattern

Click Save icon to display the saving options. Click Machine icon to save the embroidery pattern in My favorite folder in the machine.

- ① Save file
- ② Save patterns in My favorite folder

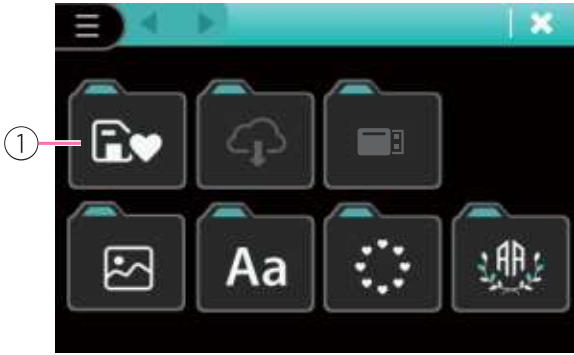


Click Add icon to save the pattern, after saved the pattern, the screen will go back to the edit page. The saved pattern will save in order. If you want to save the new pattern by replacing the existing file, click the existing pattern and confirm the warning message.

The folder can save up to 20 patterns. After the memory is full, you can save patterns by replacing the existing files. Click Page switch icon to view other patterns.

Click Close icon to return back to edit page without saving pattern.

- ① Add and save pattern
- ② Existing pattern
- ③ Page switching
- ④ Close



❖ Delete saved patterns

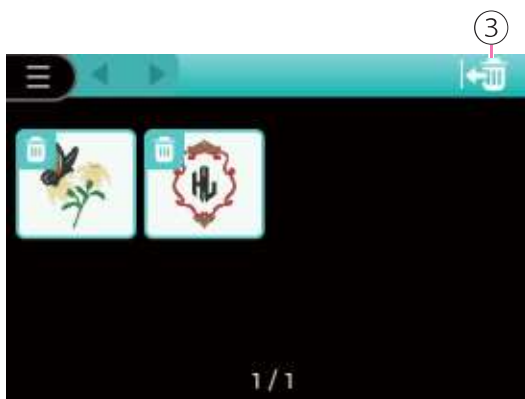
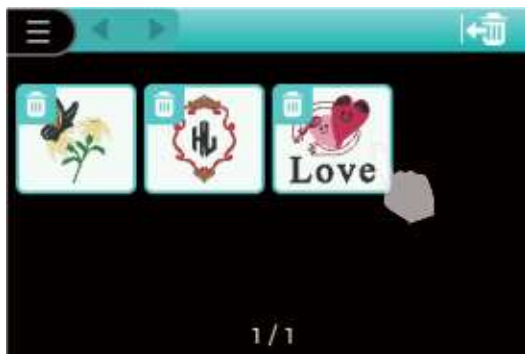
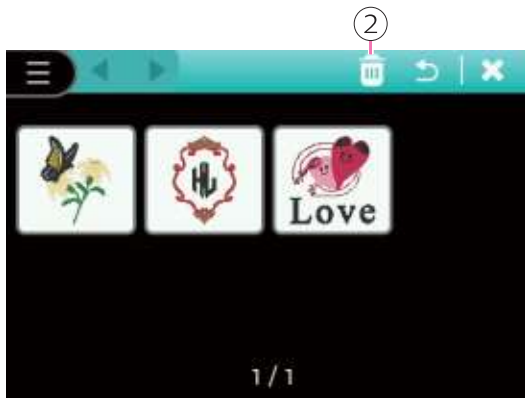
Click My favorite icon to enter saved patterns folder. Click Delete icon, saved pattern will be shown in action color, then select the desired pattern to delete. Confirm the warning message to delete the pattern.

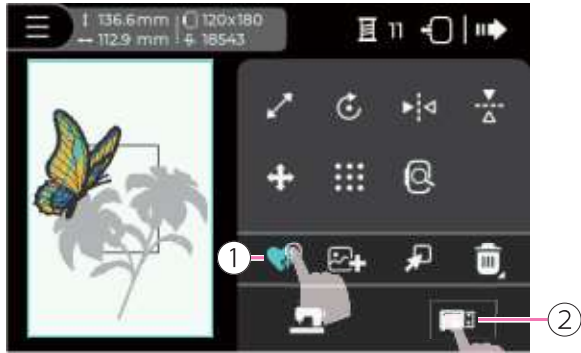
Click Return icon to back to My favorite folder.

① My favorite

② Delete

③ Return

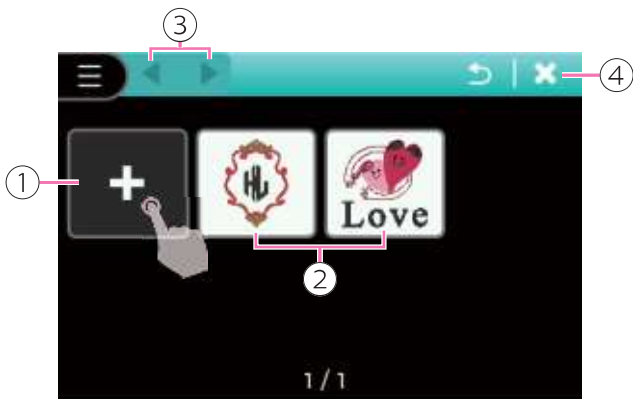




❖ Save embroidery pattern in USB flash drive

Click Save icon to display the saving options. Click USB flash drive icon to save the embroidery pattern in the USB flash drive.

- ① Save file
- ② Save patterns in USB flash drive

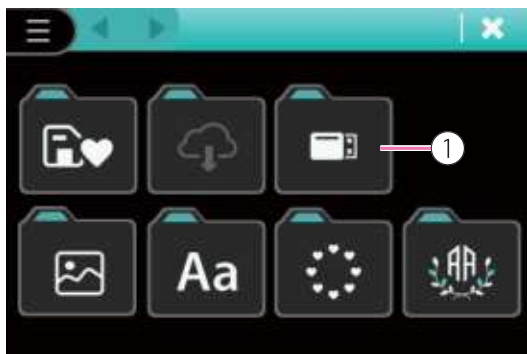


Click Add and save pattern icon to save the pattern, after the pattern saved, the screen will go back to the edit page. If you want to save the new pattern by replacing the existing file, click the existing pattern and confirm the warning message.

After the USB flash drive's memory is full, you can save patterns by replacing the existing files. Click page switch icon to view other patterns.

Click Close icon to return back to edit page without saving pattern.

- ① Add and save pattern
- ② Existing pattern
- ③ Page switching
- ④ Close



❖ Delete the saved pattern in USB flash drive

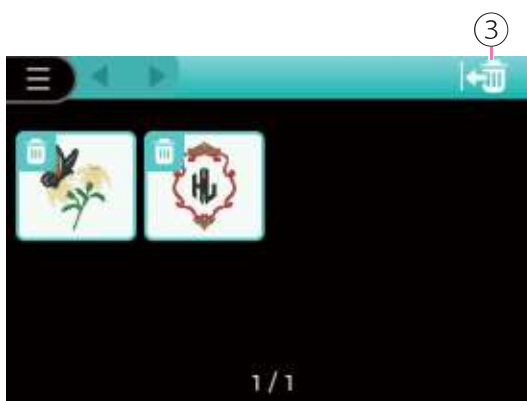
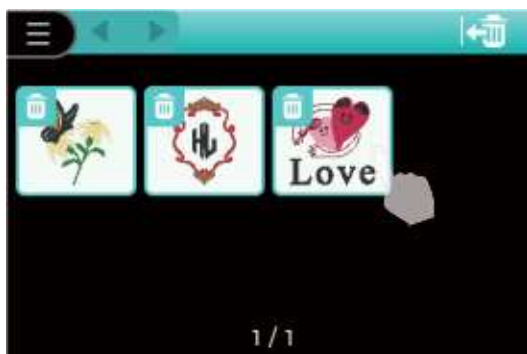
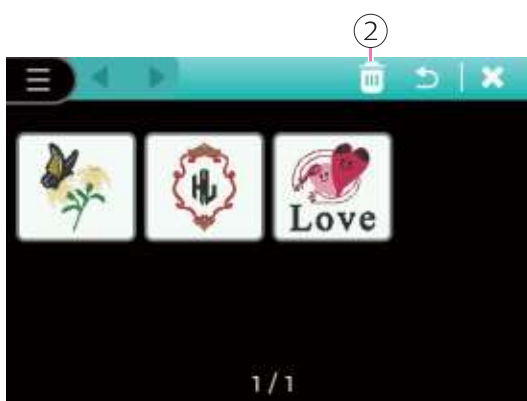
Click USB flash drive icon to enter the folder. Click Delete icon, the saved patterns will be shown in the action color. Select the desired pattern and confirm warning message to delete.

Click Return icon to back to USB flash drive folder.

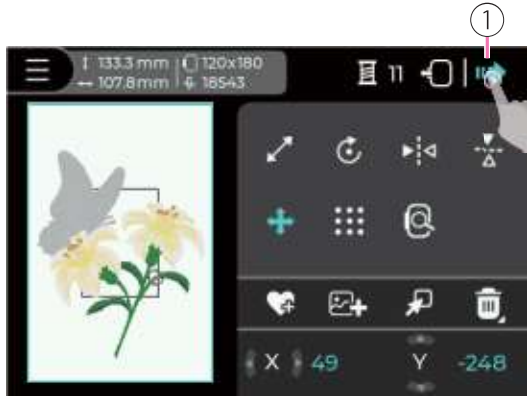
① USB flash drive

② Delete

③ Return

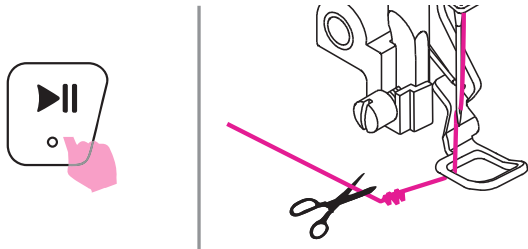
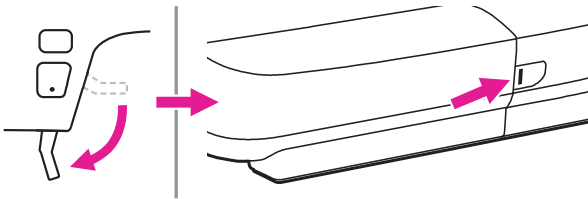
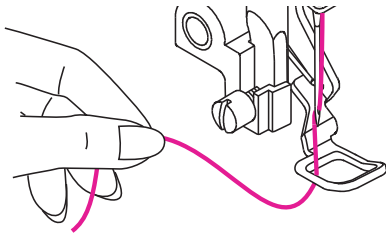


Embroidery



After finish editing the embroidery patterns, click Next icon to enter setting page.

① Next



Note

Please refer to page "Threading the upper thread" chapter for more information.

Lower the presser foot lifter and the status light will change from orange to green, which means that everything is ready.

Long press the start/stop button to start embroidering.

Note

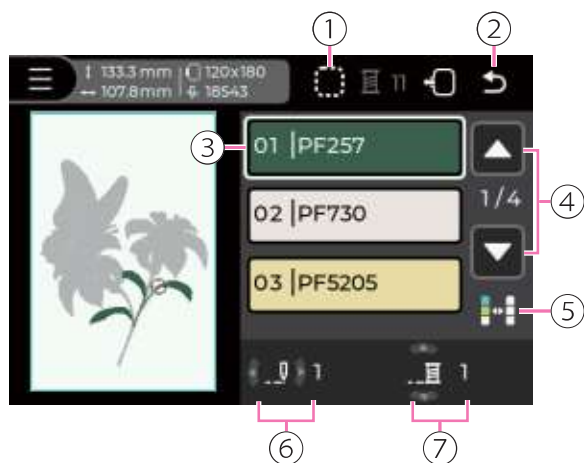
- After sewing 5 to 6 stitches, press the start/stop button again to stop the embroidering.
- Raise the presser foot lifter. Cut the thread at the beginning of the stitching.
- Lower the presser foot lifter. Long press the start/stop button to continue embroidering.



Once all the color threads have been embroidered, your exclusive embroidery pattern has completed.

The prompt message pop out then click "check" to return to embroidery pattern types selection screen.

Embroidery setting adjustment



The embroidery setting can adjust with the following options:

- ① Basting stitch
- ② Return
- ③ The current thread color
- ④ Switch the layer
- ⑤ Single color/multiple colors
- ⑥ Current stitch count
- ⑦ Current color layer

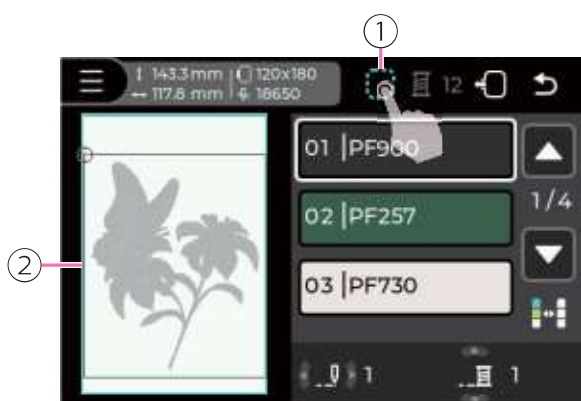


❖ Single color/multiple colors

Click Single color/multiple colors icon to turn on the single color function. It will regard all different colors as single color and embroidering.

Click Single color/multiple colors icon again to switch back to multiple colors.

- ① Single color/multiple colors



❖ Basting

Click Basting icon to baste around the patterns. It can strengthen and fixed the fabric and the lining to prevent them from slipping or shifting.

The square frame will display in the preview screen around the pattern. Baste stitches will not have auto lock stitches at the beginning and at the end.

Click Basting icon again to close baste function.

- ① Basting stitch
- ② Square frame

Note

After starting the embroidery, if pause it and click the Basting icon, the preview screen will show a warning message to return to the first stitch.

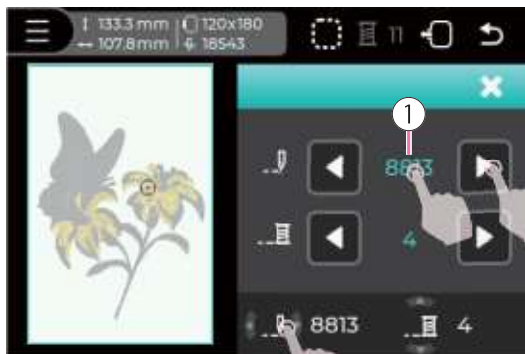


①

❖ Adjusting current stitch count

Press the Left and Right arrow icons can adjust the number of stitches, the maximum can add up to the third-to-last stitch.

① Current stitch count



Click Current stitch count icon will pop out adjustment window which can adjust the value.

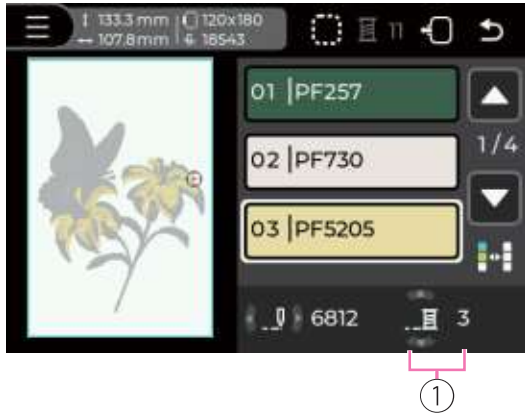
Click the Left and Right arrow icon to adjust the required stitch count. Long click Left/Right arrow icon to adjust value faster.

Click Stitch count value, can return to the value before it was adjusted.

① Stitch count value

Note

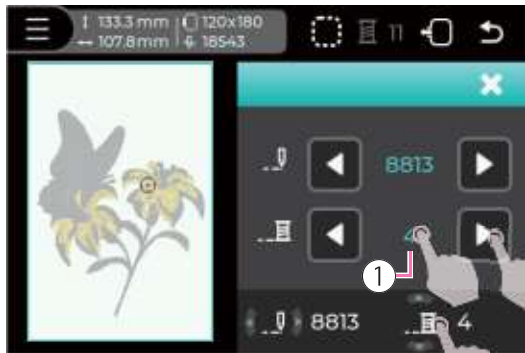
- When the upper thread or the bobbin thread runs out while sewing, the sewing machine stops. Adjusting the stitch count back about 10 stitches and resume sewing.
- If the thread breaks, adjust the stitch number to the first few stitch where the thread broken. It can prevent the obviously seam or segment difference.



❖ Adjusting color layers

Press the Up and Down arrow icons to adjust the required color layer.

- ① Current color layer

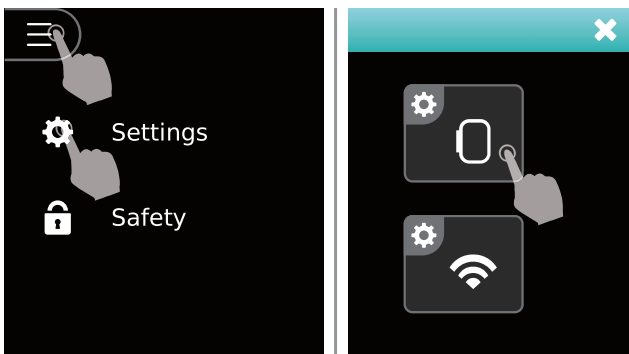


Click Current color layer icon will pop out adjustment window which can adjust the value.

Click the Left and Right arrow icon to adjust the required color layer. Long click Left/Right arrow icon to adjust value faster.

Click Layer count value, can return to the layer's first stitch before it was adjusted.

- ① Color change value



❖ Adjusting the embroidery thread tension

Proper tension setting is important for sewing. There is no single tension setting appropriate for all the stitch functions and fabrics.

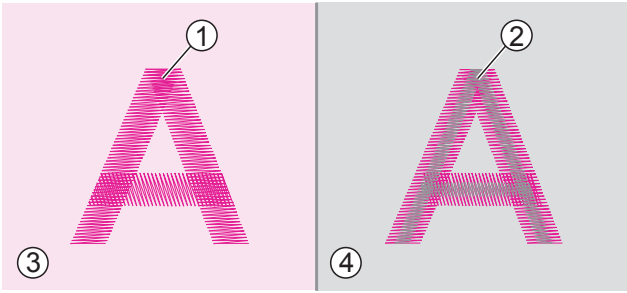
Basic thread tension setting: "4.00".

Click the Settings icon to enter setup program. Click Embroidery setting icon.



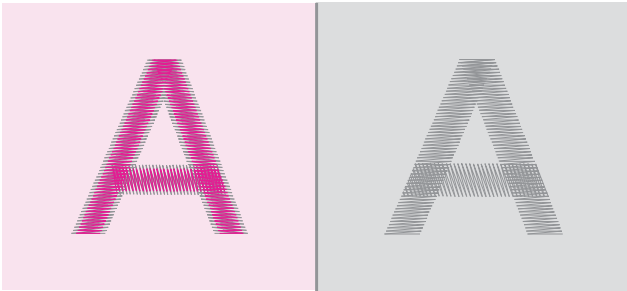
Adjusting the upper thread tension in the Setting page will affect to all embroidery patterns.

Click the Left or Right icon to adjust embroidery thread tension.



The thread tension is correct when upper thread is just visible on back of the fabric.

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



When the bobbin thread is visible on the front of the fabric, the thread tension is too tight for embroidering. To reduce the tension, click the Left icon.

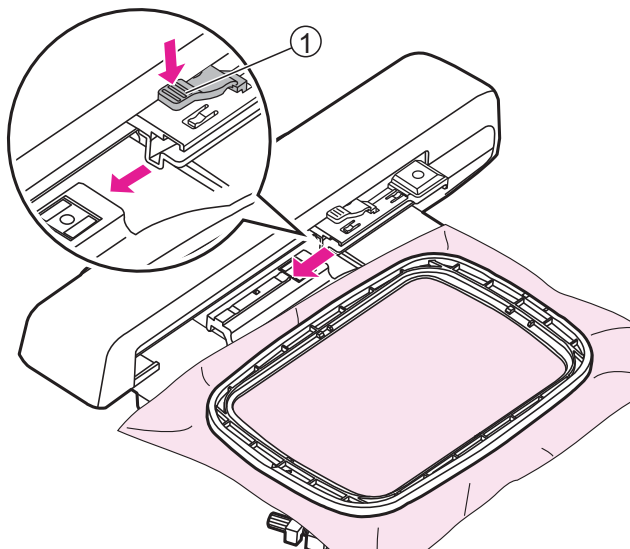


When the upper thread is slack, the thread tension is too loose for embroidering. To increase the tension, click the Right icon.

Note

Please use the same fabric of the project and do a sewing test in advance.

Back to sewing mode



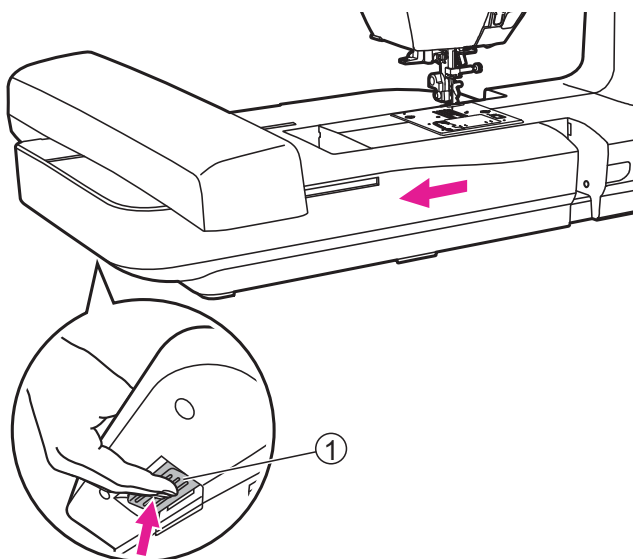
❖ Remove embroidery hoop

⚠ Attention

Install or remove the embroidery hoop, please make sure the needle and presser foot are the highest position, so that can put in & take out smoothly. Otherwise may damage the needle and presser foot.

Press the hoop-securing lever to pull the embroidery hoop backward to remove the embroidery hoop.

① Hoop-securing lever



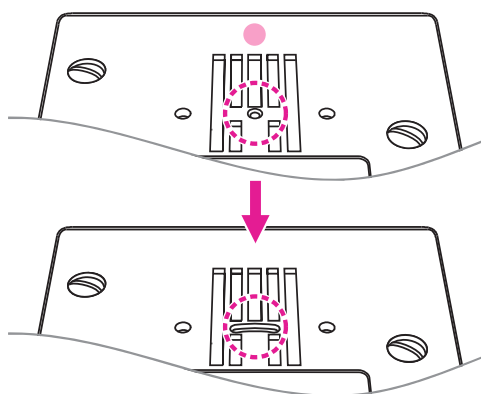
❖ Remove embroidery unit

Hold the embroidery unit and press the release button, then slide the embroidery unit to the left to move out it.

① Release button

Note

- Please firstly remove the embroidery hoop before removing the embroidery unit.
- After removing embroidery unit, the screen will have the warning message to inform you that removing the module will exit the embroidery mode and switch to sewing mode. To proceed, please click "check" to continue.



Replacing the straight stitch plate to normal needle plate.

Replacing the needle and presser foot.



Maintenance and Trouble shooting

Maintenance

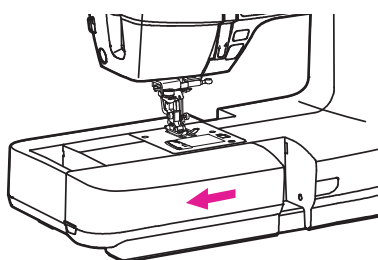
⚠ Attention

Disconnect the power cord from the wall socket before carrying out any maintenance, otherwise injury or electrical shock may result.

❖ Clean the machine surface

If the surface of the sewing machine is dirty, lightly soak a cloth in mild detergent, squeeze it out firmly and then wipe the surface. After cleaning it once in this way, wipe the surface again with a dry cloth.

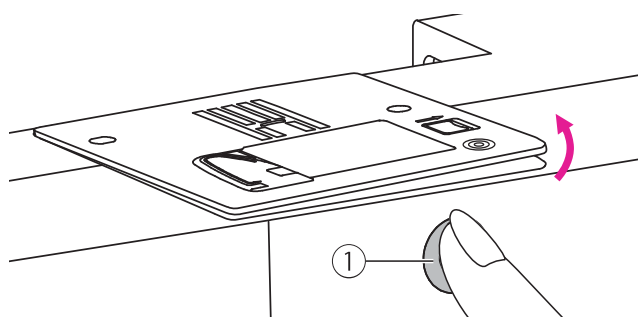
Do not use any organic solvents or detergents.



❖ Clean the hook

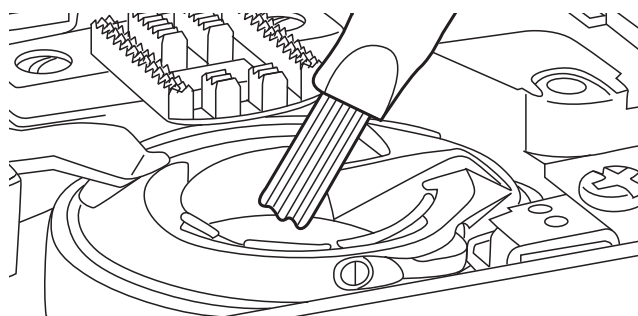
If lint and bits of thread accumulate in the hook, this will interfere with the smooth operation of the machine. Check regularly and clean the stitching mechanism when necessary.

Hold the sewing table horizontally, then pull toward the left to remove it from the machine.



Press the needle plate button to remove the needle plate.

① Needle plate button



Clean the feed dogs and bobbin case with a brush. And also use a soft and dry cloth to clean them.

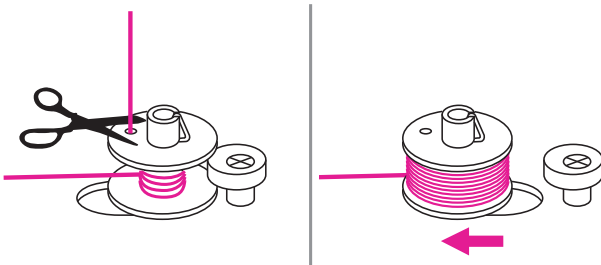
Warning Function



❖ Warning beeping sound

- Operate correctly: 1 beep.
- Operate incorrectly: 3-short beeps.
- When the sewing machine is in trouble and can't sew: 1-long beep.

It means that the thread may be twisted or jammed and the handwheel axle can't move. Please look through the "Trouble shooting guide" to find the solution. After the problem has been solved, the machine will be able to sew.



Return bobbin winder spindle to left

When the bobbin thread is full or machine stop, if the bobbin winder spindle is still in the right position, you will hear 3-short beeps by pressing any button until you push the spindle to the left.

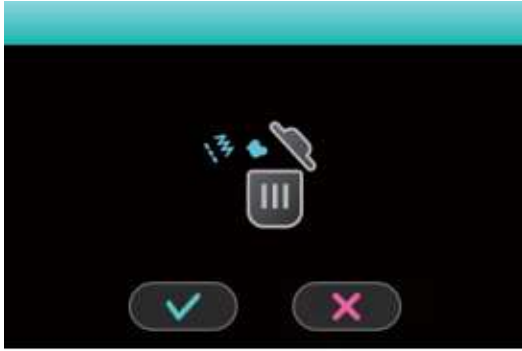
Return the bobbin winder spindle to the left.

Note

If the problem is still not solved, please contact your local dealer.

⚠ Attention

During sewing, if the thread has been jammed inside the hook and needle movement stops. If you continue to sew, the machine will stop automatically due to safety. If machine stops, please turn off the machine firstly then turn on again.



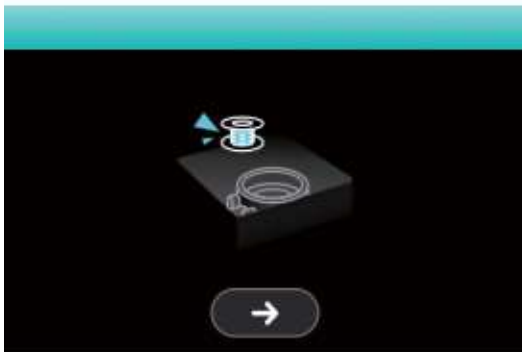
❖ Warning message

Delete the pattern?



Check the upper thread

The upper thread is broken or almost running out. Or the threading way is incorrect.

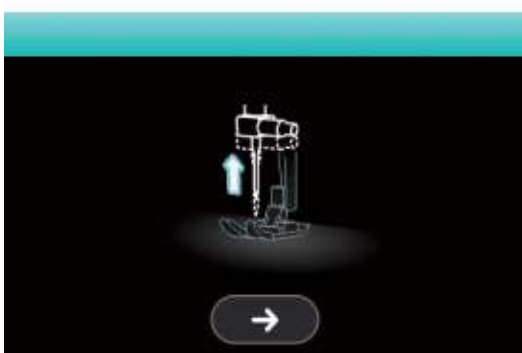


Check the bobbin thread

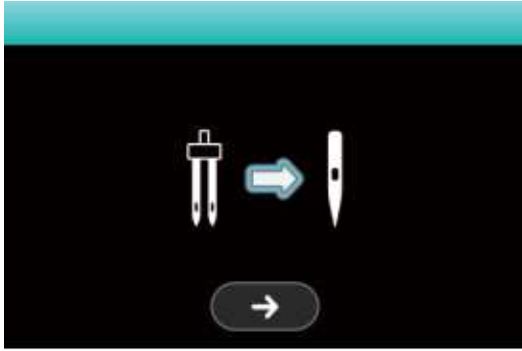
The bobbin thread is broken or almost running out.



Clean the hook after 500,000 stitches



Raise the needle



Single needle sewing only

Twin needle function is turned off, please replace double needle with single needle.

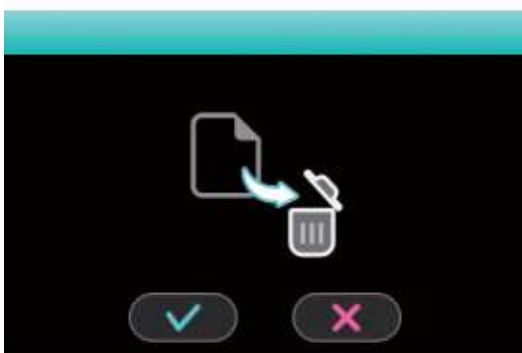


Attach the embroidery unit



The embroidery carriage is moving

The embroidery carriage is moving and do not approach. After initializing, the message will be disappeared.



Exit without saving current patterns?



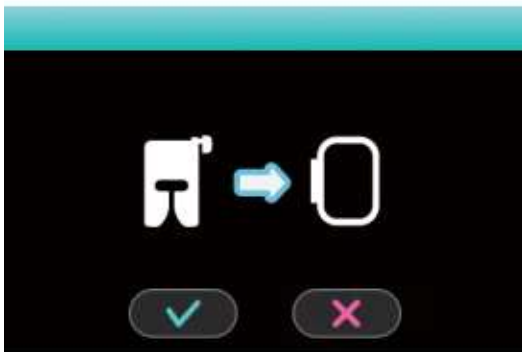
Remove the embroidery unit



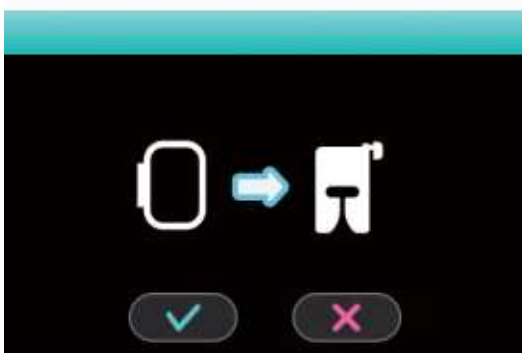
The embroidery pattern size is over embroidery hoop



Attach the embroidery hoop



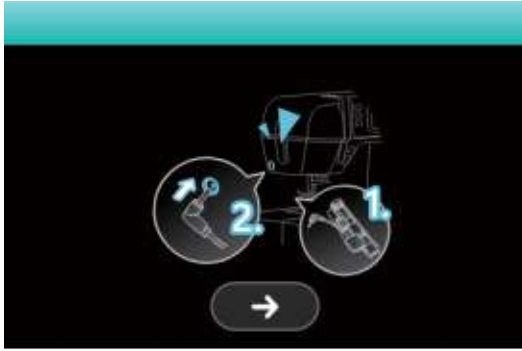
Switch to embroidery mode



Switch to sewing mode



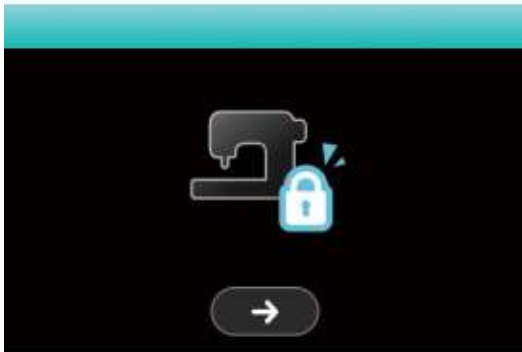
WiFi connection failed



Attach the buttonhole foot

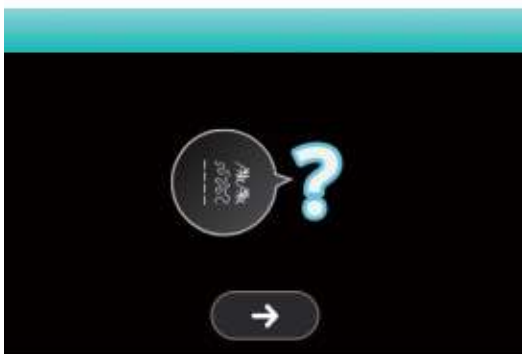


Remove the buttonhole foot



Screen & function lockout

The machine will lock the screen after 30 minutes of inactivity or click the Safety Lock icon. Click the Next icon to unlock the setting.



Invalid number



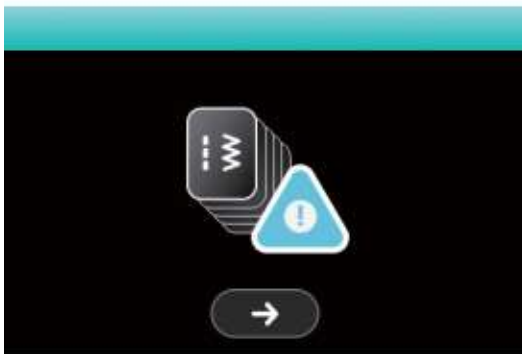
The pattern cannot be programmed



The memory storage is full

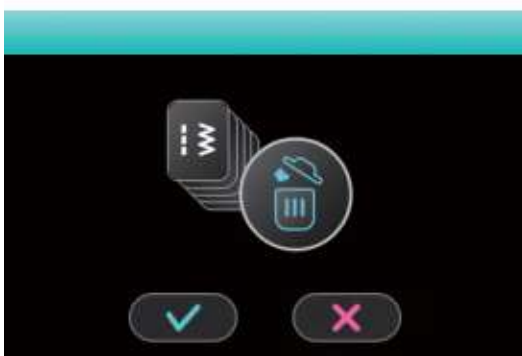


Overwrite the existing pattern?

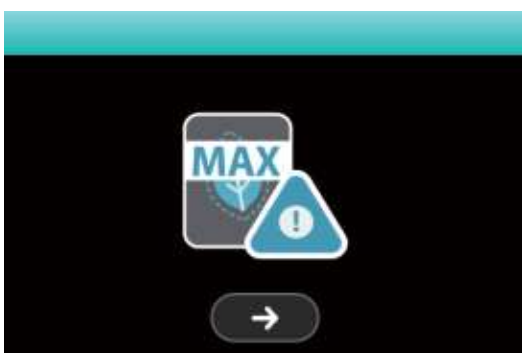


Combine limit

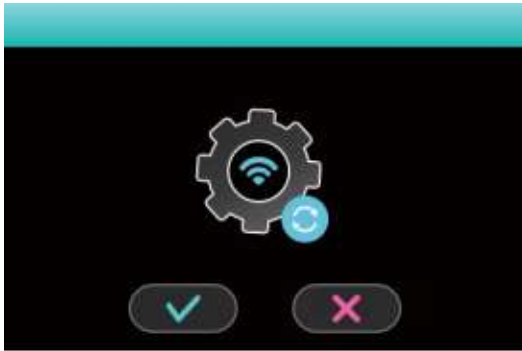
Please note a maximum of 20 units stitches can be combined in each module. When the pattern is over 20 units, the prompt message will pop out.



Delete all programmed patterns?



The imported patterns exceed the limit



Reset WiFi setting?



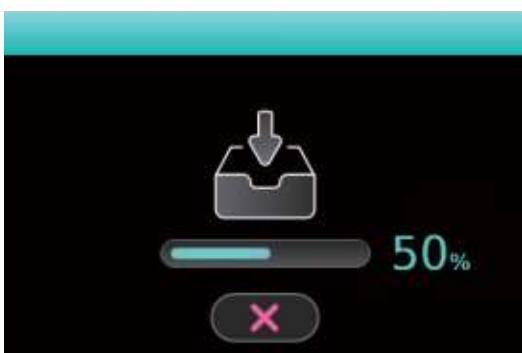
Go back to first stitch



Embroidery finish



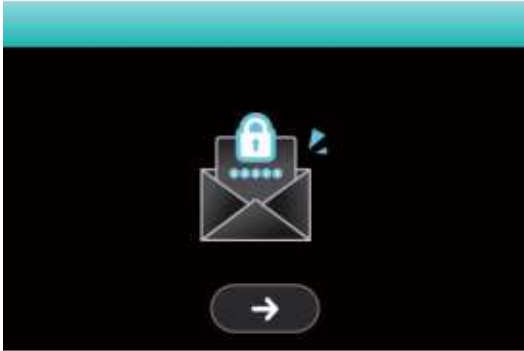
The embroidery is in progress, save the design?



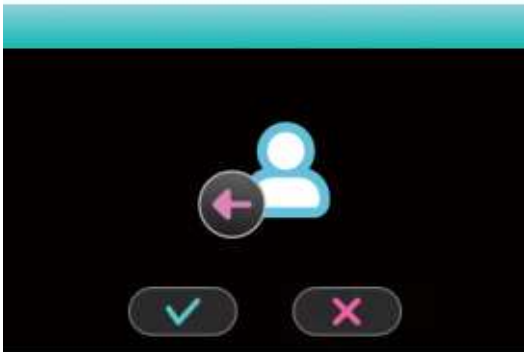
Downloading firmware



Download failed



Reset password link is sent to your primary email address



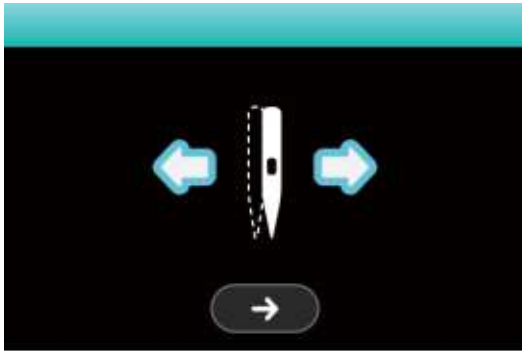
Logout



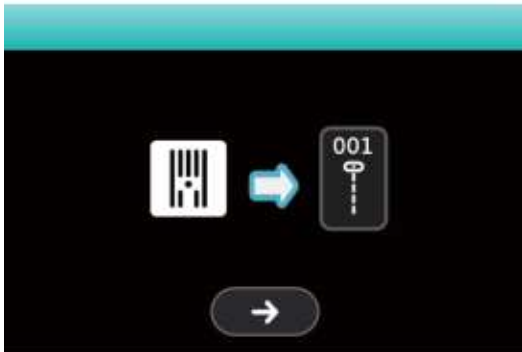
Incorrect user name or password



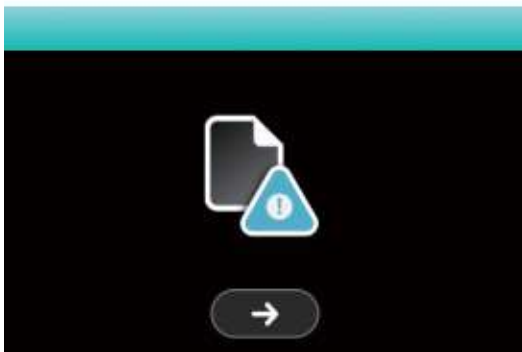
Please use embroidery sheet



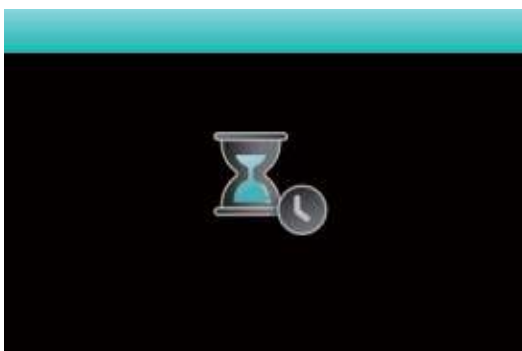
Stitch positioning



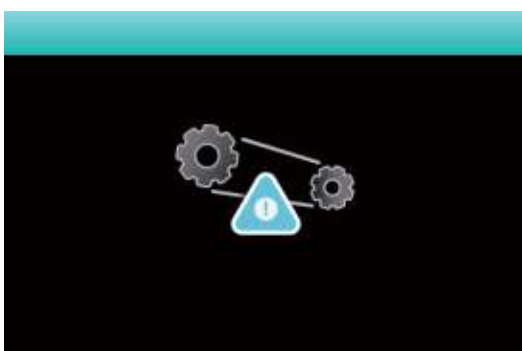
Only specific straight stitches are applicable while using straight stitch plate in sewing mode.



Error format

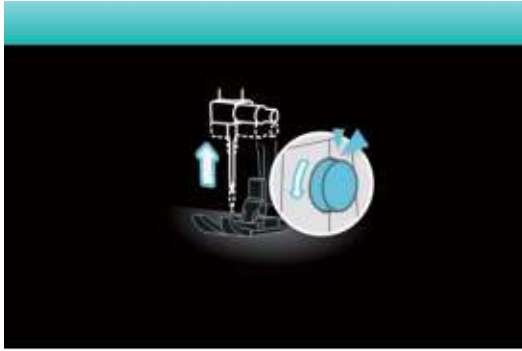


File is loading



Motor overload protection

It means that the thread may be twisted or jammed and the hand wheel axle can't move. The buzzer will sound.



Turn the handwheel backwards to bring the needle to the highest position.



Raise the presser foot



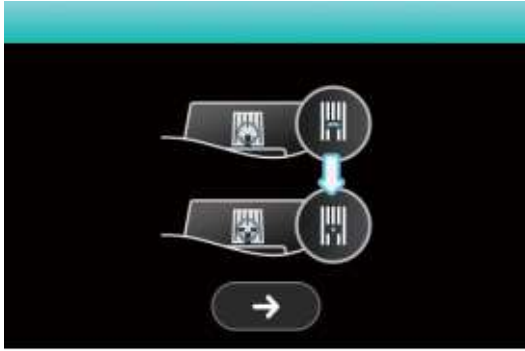
Remove the embroidery hoop



Do not turn off machine



Log in successfully



Change the straight stitch plate

In embroidery mode: The prompt message pop up to remind you to change and use straight stitch plate.



Winding the bobbin

Bobbin winder spindle is on the right for bobbin winding.



Lower the presser foot



Remove the embroidery hoop

Trouble shooting guide

Before calling for service, check below trouble shooting guides in advance, if problem still exist, please contact nearest dealer or local service center.

Problem	Cause	Correction	Reference
Upper thread breaks	1. The machine is not threaded correctly.	1. Rethread the upper thread.	12
	2. The thread tension is too tight.	2. Reduce the thread tension (to lower number).	39
	3. The thread is too thick for the needle.	3. Select a larger needle size.	18
	4. The needle is not inserted correctly.	4. Remove and reinsert the needle (flat side towards the back).	17
	5. The thread is wound around the spool holder pin.	5. Remove the reel and wind up the thread onto the reel.	12
	6. The needle is damaged.	6. Insert a new needle.	17
Bobbin thread breaks	1. The bobbin case is not inserted correctly.	1. Remove and reinsert the bobbin case and pull on the thread.	11
	2. The bobbin case is threaded wrong.	2. Check both bobbin and bobbin case if on the correct position.	11
Skipped stitches	1. The needle is not inserted correctly.	1. Remove and reinsert the needle (flat side towards the back).	17
	2. The needle is damaged.	2. Insert a new needle.	17
	3. The wrong size needle has been used.	3. Choose a needle to suit the thread.	18
	4. The presser foot is not attached correctly.	4. Check and attach it correctly.	19
	5. The machine is not threaded correctly.	5. Rethread the upper thread.	12
Needle breaks	1. The needle is damaged.	1. Insert a new needle.	17
	2. The needle is not correctly inserted.	2. Insert the needle correctly (flat side towards the back).	17
	3. Wrong needle size for the fabric.	3. Choose a needle to suit the thread and fabric.	18
	4. The wrong presser foot is attached.	4. Select the correct presser foot.	-
	5. The needle clamp screw is loose.	5. Use the screwdriver to tighten the screw.	17
	6. The presser foot is not appropriate for the type of stitch that you sew.	6. Attach appropriate presser foot for the type of stitch that you sew.	-
	7. The upper thread tension too tight.	7. Loosen the upper thread tension.	39

Problem	Cause	Correction	Reference
Loose stitches	1. The machine is not correctly threaded.	1. Check the threading and rethread.	12
	2. The bobbin case is not threaded correctly.	2. Thread the bobbin case as illustrated.	11
	3. Needle/fabric/thread combination is wrong.	3. The needle size must suit the fabric and thread.	18
	4. The thread tension is wrong.	4. Correct the thread tension.	39
Seam gather or pucker	1. The needle is too thick for the fabric.	1. Select a correct needle size.	18
	2. The stitch length is wrong.	2. Adjust the stitch length.	38
	3. The thread tension is too tight.	3. Loosen the thread tension.	39
Seam puckering	1. The needle thread tension is too tight.	1. Loosen the thread tension.	39
	2. The needle thread is not threaded correctly.	2. Rethread the machine.	12
	3. The needle is too heavy for the fabric being sewn.	3. Choose a needle to suit the thread and fabric.	18
	4. The stitch length is too long for the fabric.	4. Adjust the stitch length shorter.	38
	5. Sewing on thin fabric.	5. Sew with a stabilizer material under the fabric.	57
Patterns are distorted	1. The presser foot is not suited for the pattern.	1. Select the correct foot.	-
	2. The needle thread tension is too tight.	2. Loosen the thread tension.	39
Thread has jammed	1. Thread is caught in the hook.	Remove the upper thread and bobbin case, turn the handwheel backwards and forwards and remove the thread remnants.	129
	2. The feed dogs are packed with lint.		
The machine is noisy	1. Fluff or oil have collected on the hook or needle bar.	1. Clean the hook and feed dog.	129
	2. The needle is damaged.	2. Insert a new needle.	17
	3. Thread is caught in the hook.	Remove the upper thread and bobbin case, turn the handwheel backwards and forwards and remove the thread remnants.	129
	4. The feed dogs are packed with lint.		
Uneven stitches, uneven feed	1. Poor quality thread.	1. Select a better quality thread.	18
	2. The bobbin case is threaded uncorrect.	2. Remove the bobbin case and the thread and reinsert them correctly.	11
	3. Fabric has been pulled on.	3. Do not pull on the fabric while sewing, let it be taken up by the machine.	-

Problem	Cause	Correction	Reference
The sewing machine doesn't operate	1. The machine is not turned on.	1. Turn on the machine.	4
	2. The presser foot lifter is raised.	2. Lower the presser foot lifter.	8
	3. The machine is not plugged in.	3. Connect the power cord to the electric outlet.	4
Embroidery unit does not move	1. The embroidery unit is not set up correctly.	1. Reset the embroidery unit up correctly.	101
Embroidery is not neatly completed	1. The thread is tangled and the bobbin case, etc., is plugged up.	1. Remove the tangled thread. When the bobbin case is plugged up, clean the race.	129
	2. The thread tension is incorrect.	2. Adjust the tension of the upper thread.	125
	3. The fabric is not fully stretched on the embroidery hoop. The fabric is loose.	3. Stretch the fabric properly on the embroidery hoop.	94
	4. No stabilizer material is attached.	4. Always use stabilizer material for embroidery with stretch fabrics, thin fabrics, fabrics with a loose weave and fabrics where stitches easily contract.	93
	5. Objects are placed near the carriage or embroidery hoop.	5. If the embroidery unit carriage or embroidery hoop bumps into objects, the pattern will be misaligned. Do not place objects within the range of embroidery hoop motion.	-
	6. Material coming out of the embroidery hoop is causing problems.	6. Stretch the fabric on the hoop once again so that the material coming out of the embroidery hoop does not cause problems, rotate the pattern and embroider.	-
	7. Embroider with a heavy fabric or the fabric material is hanging on the table.	7. During embroidery, if the fabric is hanging on the table will affect the embroidery unit movement, please hold the fabric gently in this case.	-
	8. The fabric is catching. It is pinched.	8. Stop the sewing machine and set the fabric up correctly.	-
	9. The embroidery carriage was moved while the embroidery hoop was being removed or attached during embroidery.	9. If the embroidery carriage is moved during the process, the pattern may be misaligned. Be careful when removing or attaching the embroidery hoop.	-

Problem	Cause	Correction	Reference
The embroidery result is not good enough	1. The thread tension is not right.	1. Adjust to proper thread tension setting.	125
	2. Poor quality thread.	2. Select a better quality thread and attach spool net to thread.	18
	3. The thread tends to break and out the thread spool easily while using particular thread type.	3. Attach spool net on the thread.	8
	4. The wrong size needle has been used.	4. Choose a proper needle according to the fabric.	18
	5. No enough support due to lack of stabilizer.	5. Use a proper stabilizer according to fabric type.	89
The embroidery result is not good while sewing thin fabric	1. The thread tension is not right.	1. Set a smaller thread tension.	125
	2. Poor quality thread.	2. Select a better quality thread.	-
	3. The wrong size needle has been used.	3. Choose a needle to suit the thread and fabric.	18
	4. No enough support due to lack of stabilizer.	4. Use a proper stabilizer according to fabric type.	89
Poor quality for cotton batting	1. The thread tension is wrong.	1. Adjust to proper tension setting. (number between 3-5)	39
	2. The stitch length is wrong.	2. Adjust to proper stitch length. (number between 3.0-4.0)	38
Embroidery unit doesn't work	1. The machine isn't turned on.	1. Turn on the machine.	4
	2. No embroidery pattern selected.	2. Select a embroidery pattern.	103
	3. Install embroidery hoop but without initializing in advance.	3. Remove the embroidery hoop.	94
Touch screen isn't accurate	1. Touch screen isn't accurate.	1. Re-calibrate the touch screen function.	30



Embroidery pattern chart

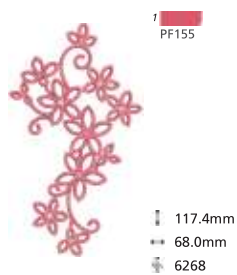
Embroidery pattern chart

1_Plant - 23

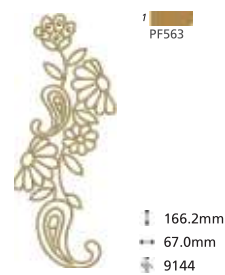
101



102



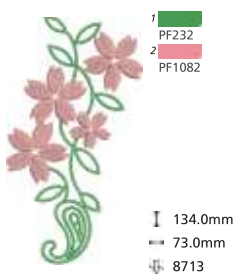
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104



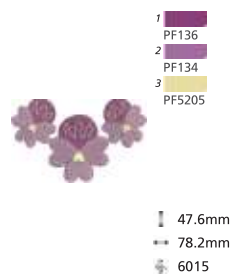
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106



107



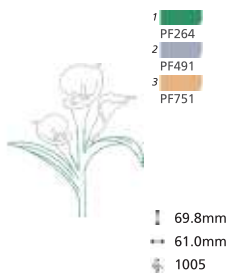
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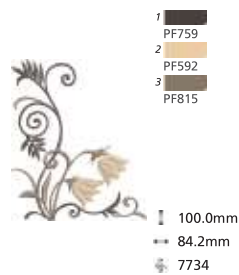
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110



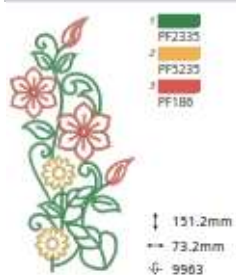
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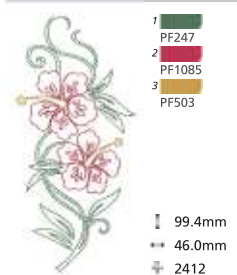
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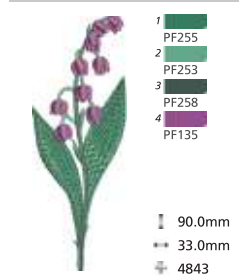
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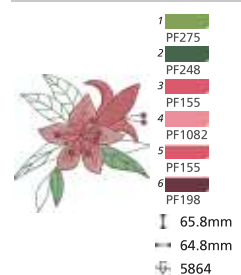
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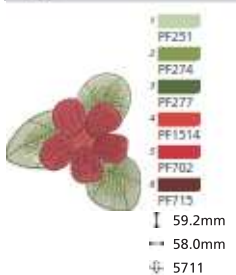
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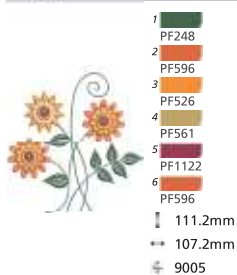
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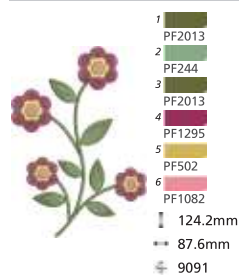
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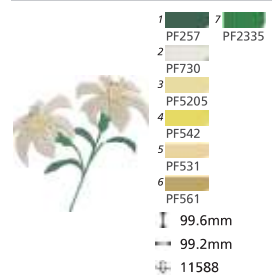
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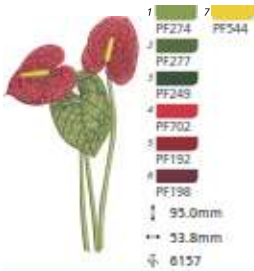
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120



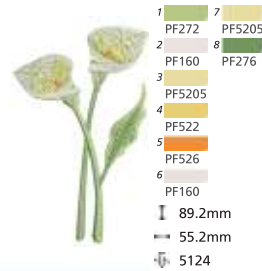
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122

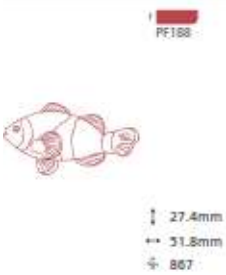


123



2_Animal - 22

201



202



203



204



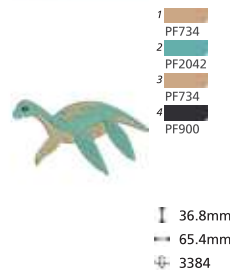
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206



207



208



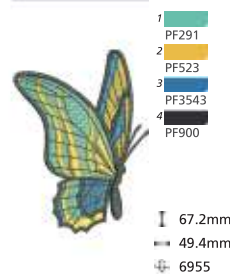
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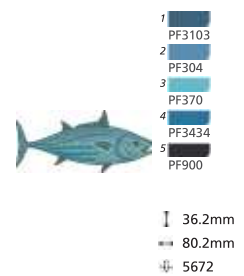
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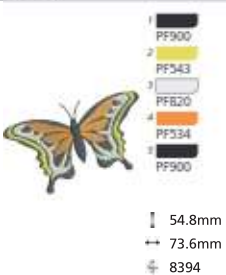
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212



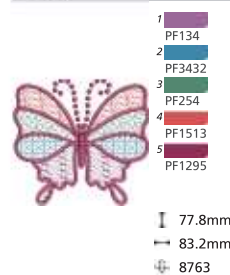
213



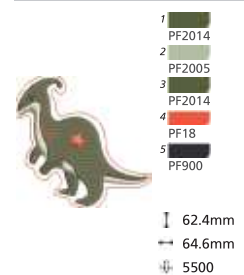
214



215



216



217



1 PF276
2 PF723
3 PF501
4 PF900
5 PF723

↓ 48.8mm
↔ 40.0mm
⊕ 2568

218



1 PF163
2 PF161
3 PF163
4 PF900
5 PF161
6 PF845

↓ 37.8mm
↔ 38.6mm
⊕ 2374


219



1 PF880
2 PF485
3 PF900
4 PF489
5 PF880
6 PF231

↓ 82.6mm
↔ 59.0mm
⊕ 11143

220



1 PF820
2 PF124
3 PF900
4 PF276
5 PF132
6 PF694

↓ 58.2mm
↔ 40.0mm
⊕ 4132

221



1 PF869
2 PF723
3 PF900
4 PF869
5 PF231
6 PF674

↓ 51.0mm
↔ 65.0mm
⊕ 4742

222



1 PF3102
2 PF900
3 PF245
4 PF270
5 PF280
6 PF3102

↓ 57.6mm
↔ 75.2mm
⊕ 6473

3_Food - 10

301



1 PF702

↓ 50.2mm
↔ 57.2mm
⊕ 1511

302



1 PF702

↓ 49.8mm
↔ 42.6mm
⊕ 797

303



1 PF735
2 PF531
3 PF739

↓ 41.8mm
↔ 64.6mm
⊕ 4560

304



1 PF231
2 PF277
3 PF739

↓ 45.8mm
↔ 53.4mm
⊕ 4213

305



1 PF820
2 PF739
3 PF563
4 PF739

↓ 40.0mm
↔ 40.6mm
⊕ 3770


306



1 PF840
2 PF809
3 PF820
4 PF702
5 PF276

↓ 24.4mm
↔ 67.0mm
⊕ 3013


307



1 PF232
2 PF700
3 PF571
4 PF2417
5 PF900

↓ 64.2mm
↔ 79.4mm
⊕ 11512


308



1 PF232
2 PF249
3 PF673
4 PF694
5 PF6495

↓ 70.6mm
↔ 54.2mm
⊕ 6445


309



1 PF820
2 PF735
3 PF231
4 PF700
5 PF522
6 PF739

↓ 54.6mm
↔ 55.6mm
⊕ 5025

310



1 PF283
2 PF163
3 PF735
4 PF820
5 PF700
6 PF546

↓ 76.8mm
↔ 70.4mm
⊕ 6890

4_Festival - 10

401

1
PF188



↓ 98.2mm
↔ 89.2mm
⌵ 3754

402

1
PF702



↓ 99.6mm
↔ 74.0mm
⌵ 3318

403

1
PF1107
2
PF1038



↓ 35.0mm
↔ 88.0mm
⌵ 1648

404

1
PF231
2
PF596



↓ 55.0mm
↔ 99.0mm
⌵ 3338

405

1
PF275
2
PF256



↓ 99.8mm
↔ 89.4mm
⌵ 4889

406

1
PF103
2
PF127
3
PF502



↓ 97.8mm
↔ 91.6mm
⌵ 5315

407

1
PF103
2
PF195
3
PF1085
4
PF901



↓ 44.4mm
↔ 56.8mm
⌵ 2932

408

1
PF1085
2
PF1106
3
PF522
4
PF1085
5
PF4352



↓ 78.6mm
↔ 105.0mm
⌵ 5287

409

1
PF821
2
PF148
3
PF3878
4
PF523
5
PF821



↓ 64.0mm
↔ 70.6mm
⌵ 6623

410

1
PF715
2
PF204
3
PF523
4
PF148
5
PF821
6
PF110



7
PF715
↓ 73.4mm
↔ 67.4mm
⌵ 8750

5_Totem - 10

501

1
PF3875



↓ 29.0mm
↔ 44.8mm
⌵ 667

502

1
PF6657



↓ 88.0mm
↔ 100.0mm
⌵ 4105

503

1
PF3875



↓ 85.6mm
↔ 87.4mm
⌵ 3355

504

1
PF3877



↓ 99.8mm
↔ 100.0mm
⌵ 3491

505

1
PF473



↓ 103.6mm
↔ 103.6mm
⌵ 5532

506

1
PF901



↓ 98.8mm
↔ 98.8mm
⌵ 3629

507

1
PF901



↓ 100.0mm
↔ 100.0mm
⌵ 3466

508

1
PF562



↓ 99.0mm
↔ 98.8mm
⌵ 6231

509

1
PF561



1 102.0mm
2 100.6mm
3 6966

510

1
PF133



1 128.0mm
2 71.4mm
3 8660

6_Other - 25

601

1
PF3543
2
PF369



1 59.2mm
2 98.2mm
3 2494

602

1
PF4855
2
PF3705



1 59.6mm
2 98.6mm
3 4226

603

1
PF820
2
PF900



1 40.4mm
2 40.4mm
3 3372

604

1
PF306
2
PF521



1 67.6mm
2 60.6mm
3 6337

605

1
PF739
2
PF233
3
PF563



1 96.0mm
2 92.4mm
3 3228

606

1
PF454
2
PF3325
3
PF489



1 104.0mm
2 95.8mm
3 4251

607

1
PF880
2
PF703
3
PF438
4
PF4252



1 79.4mm
2 100.0mm
3 12278

608

1
PF901
2
PF702
3
PF14
4
PF521



1 70.4mm
2 58.6mm
3 2510

609

1
PF521
2
PF700
3
PF106
4
PF523



1 62.8mm
2 50.0mm
3 3880

610

1
PF1020
2
PF454
3
PF900
4
PF615
5
PF192



1 47.2mm
2 80.6mm
3 6693

611

1
PF197
2
PF703
3
PF197
4
PF476
5
PF1107



1 71.0mm
2 98.4mm
3 8424

612

1
PF365
2
PF273
3
PF522
4
PF1512
5
PF778



1 44.8mm
2 57.8mm
3 2679

613

1
PF4855
2
PF561
3
PF712
4
PF561
5
PF523



1 41.2mm
2 47.6mm
3 5440

614

1
PF358
2
PF1021
3
PF873
4
PF148
5
PF532



1 90.6mm
2 72.4mm
3 14427

615

1
PF433
2
PF3543
3
PF880
4
PF370
5
PF4352
6
PF3211



1 39.6mm
2 51.6mm
3 3551

616

1
PF820
2
PF4855
3
PF190
4
PF901
5
PF475
6
PF4855



1 50.2mm
2 60.6mm
3 4505

617



1 PF356
2 PF1119
3 PF720
4 PF532
5 PF184
6 PF1729

I 80.0mm
↔ 66.8mm
⊕ 11413


618



1 PF198 PF198
2 PF562
3 PF702
4 PF484
5 PF198
6 PF900

I 58.4mm
↔ 99.6mm
⊕ 7582


619



1 PF3431 PF188
2 PF188
3 PF255
4 PF820
5 PF4351
6 PF542

I 58.4mm
↔ 91.4mm
⊕ 8080


620



1 PF371 PF454
2 PF534
3 PF575
4 PF501
5 PF489
6 PF265

I 81.4mm
↔ 79.4mm
⊕ 4605


621



1 PF476 PF173
2 PF1083 PF3735
3 PF104
4 PF476
5 PF1728
6 PF531

I 55.2mm
↔ 99.4mm
⊕ 4904

622



1 PF820 PF712
2 PF702 PF901
3 PF4855
4 PF14
5 PF228
6 PF233

I 86.4mm
↔ 105.8mm
⊕ 10367

623



1 PF1020 PF204
2 PF532 PF900
3 PF820
4 PF1543
5 PF137
6 PF1020

I 70.2mm
↔ 79.4mm
⊕ 10505


624



1 PF203 PF161
2 PF779 PF4575
3 PF161
4 PF821
5 PF335
6 PF522

I 81.4mm
↔ 76.8mm
⊕ 12500

625



1 PF702 PF694
2 PF525 PF364
3 PF543 PF361
4 PF232
5 PF3705
6 PF6495

I 43.6mm
↔ 89.0mm
⊕ 3953

7_Design - 10

701



1 PF900

I 110.0mm
↔ 94.6mm
⊕ 5227


702



1 PF711
2 PF703
3 PF779

I 63.0mm
↔ 46.0mm
⊕ 4871

703



1 PF371
2 PF2040
3 PF800
4 PF354

I 105.6mm
↔ 118.6mm
⊕ 15034

704



1 PF369
2 PF1510
3 PF3878
4 PF800

I 58.6mm
↔ 49.8mm
⊕ 6010

705



1 PF110
2 PF1081
3 PF767
4 PF656

I 113.2mm
↔ 66.0mm
⊕ 11906


706



1 PF622
2 PF672
3 PF572
4 PF800
5 PF665

I 80.2mm
↔ 63.8mm
⊕ 13382


707



1 PF369
2 PF3541
3 PF3431
4 PF273
5 PF20
6 PF113

I 39.4mm
↔ 69.6mm
⊕ 3439

708



1 PF730
2 PF370
3 PF546
4 PF703
5 PF779
6 PF730

I 47.4mm
↔ 49.8mm
⊕ 4103

709



- 1 PF101
 - 2 PF110
 - 3 PF163
 - 4 PF796
 - 5 PF672
 - 6 PF154
- 114.4mm
116.2mm
23589

710



- 1 PF3767
 - 2 PF850
 - 3 PF800
 - 4 PF701
 - 5 PF901
 - 6 PF542
- 50.2mm
42.4mm
6485

01 Aa- 98

00 03 06 07 08 09 10
1 2 3 4 5 6 7 8 9 0
 11 12 13 14 16 17 18 19 20 21 22 23 25 26 27 28 29 30 31 32 33 34 35 36
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62
a b c d e f g h i j k l m n o p q r s t u v w x y z
 63 65 66 67 68 69 70 71 72 73 75 76 77 78 79 80 81 82 83 84 85 86 87 88
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02 Aa - 98

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62
a b c d e f g h i j k l m n o p q r s t u v w x y z
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 11 12 13 14 16 17 18 19 20 21 22 23 25 26 27 28 29 30 31 32 33 34 35 36
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62
a b c d e f g h i j k l m n o p q r s t u v w x y z
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04 Aa - 98

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 1 2 3 4 5 6 7 8 9 0
 11 12 13 14 16 17 18 19 20 21 22 23 25 26 27 28 29 30 31 32 33 34 35 36
 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62
 a b c d e f g h i j k l m n o p q r s t u v w x y z
 63 65 66 67 68 69 70 71 72 73 75 76 77 78 79 80 81 82 83 84 85 86 87 88
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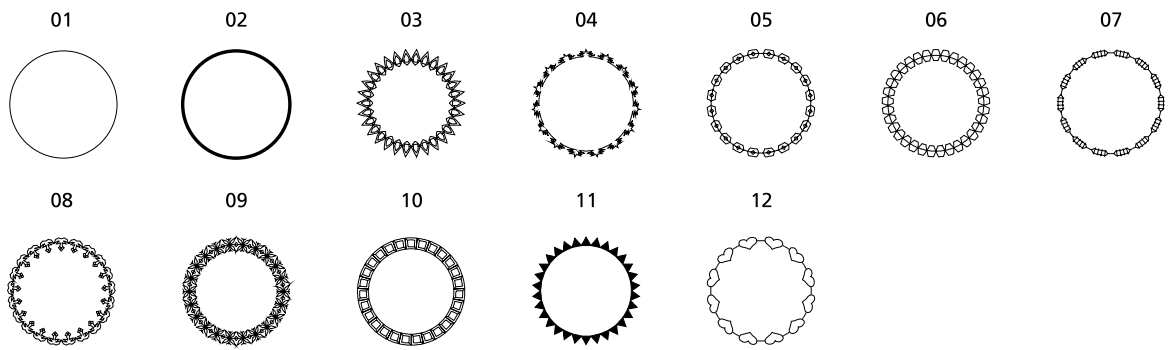
05 Aa - 98

00 03 00 06 07 08 09 10
 1 2 3 4 5 6 7 8 9 0
 11 12 13 14 16 17 18 19 20 21 22 23 25 26 27 28 29 30 31 32 33 34 35 36
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62
a b c d e f g h i j k l m n o p q r s t u v w x y z
 63 65 66 67 68 69 70 71 72 73 75 76 77 78 79 80 81 82 83 84 85 86 87 88
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 90 91 92 93 94 95 96 97 98
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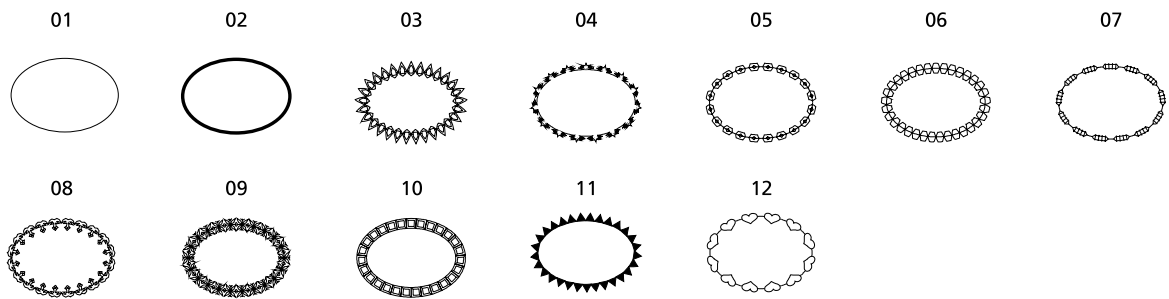
06 Aa - 98

00 03 00 06 07 08 09 10
1 2 3 4 5 6 7 8 9 0
 11 12 13 14 16 17 18 19 20 21 22 23 25 26 27 28 29 30 31 32 33 34 35 36
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62
a b c d e f g h i j k l m n o p q r s t u v w x y z
 63 65 66 67 68 69 70 71 72 73 75 76 77 78 79 80 81 82 83 84 85 86 87 88
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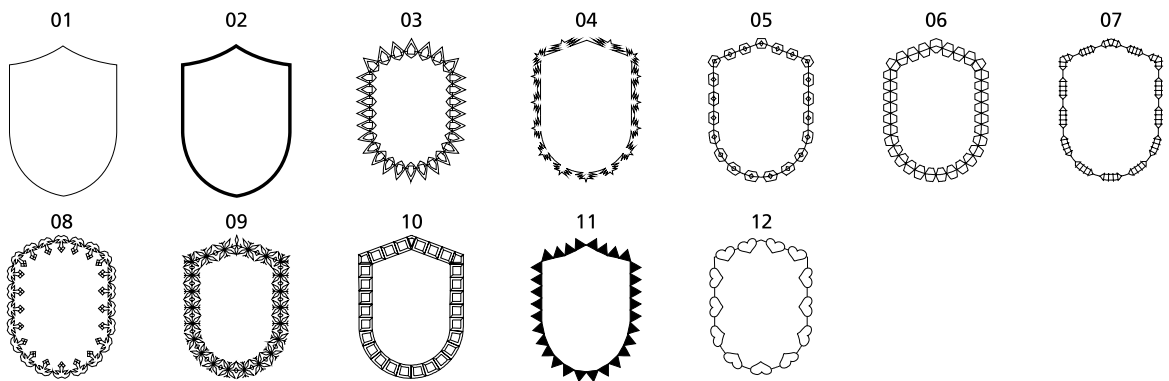
Round patterns - 12



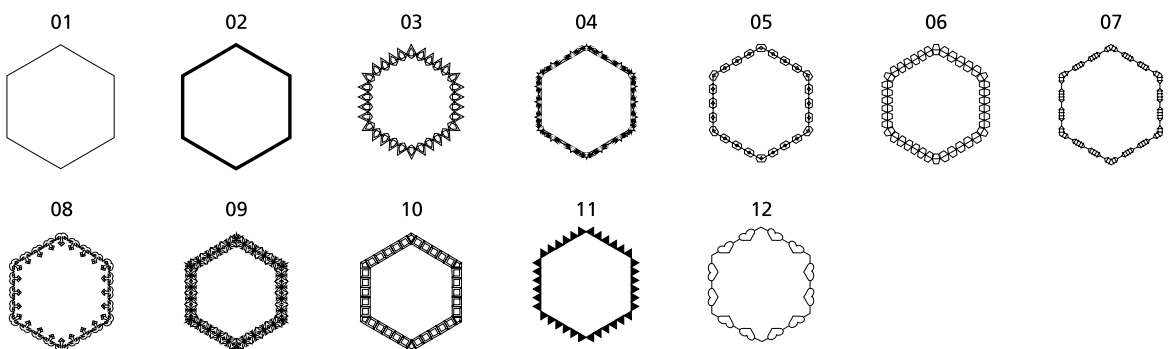
Oval patterns - 12



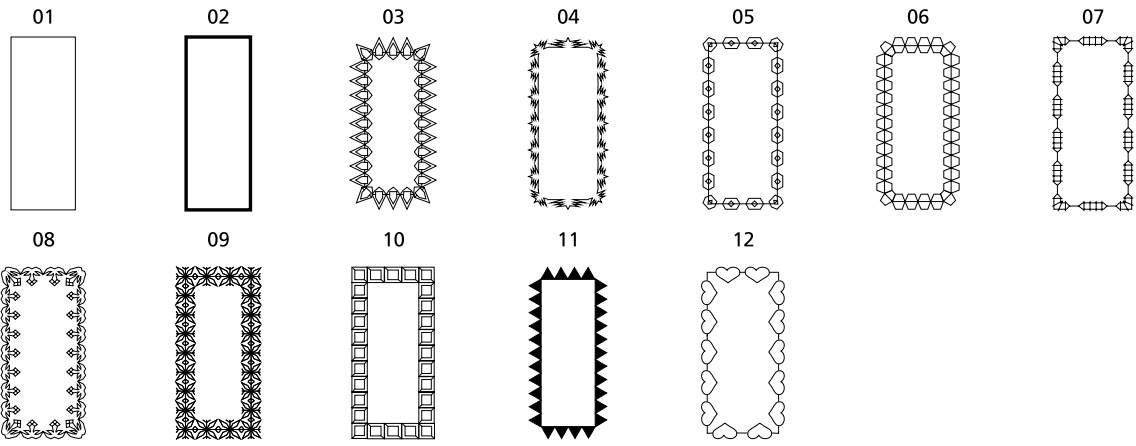
Shield patterns - 12



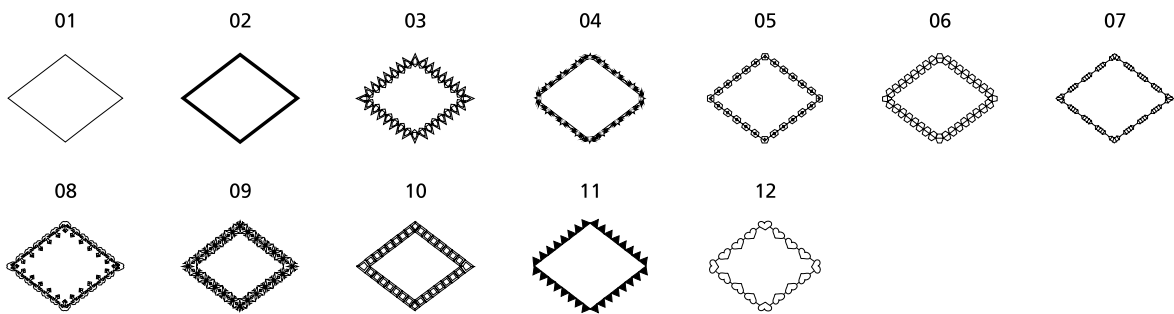
Hexagonal patterns - 12



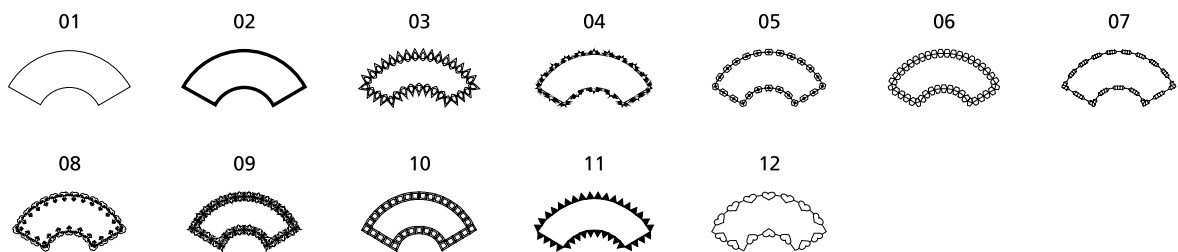
Rectangle patterns - 12



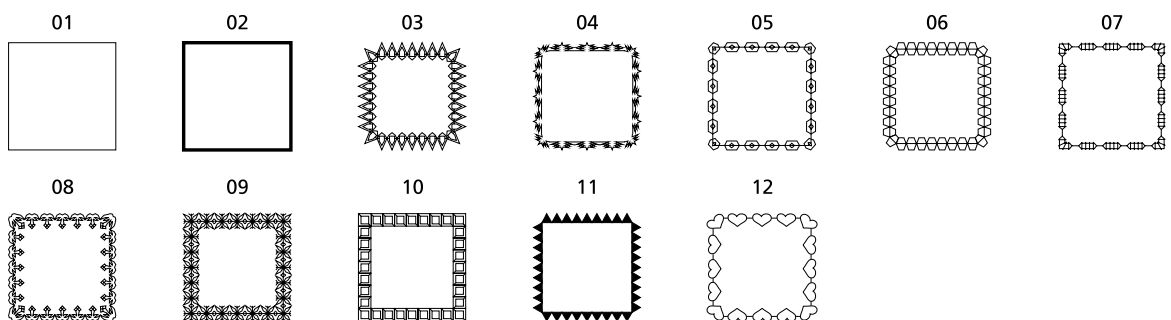
Diamond patterns - 12



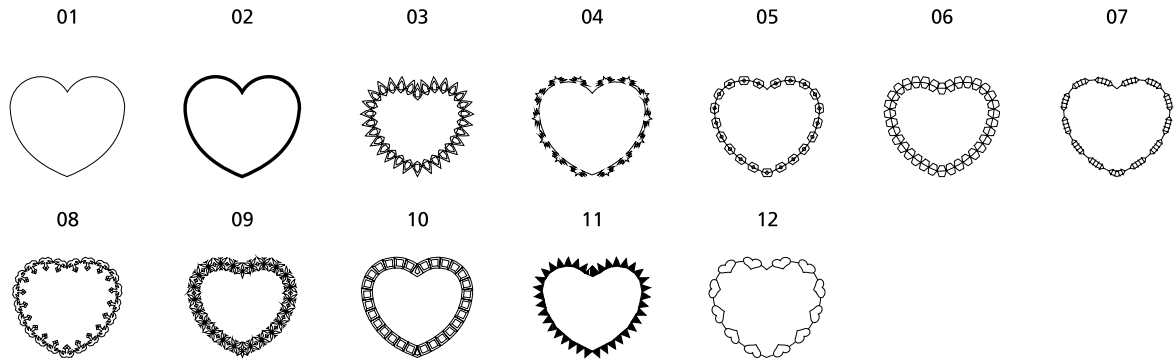
Sector patterns - 12



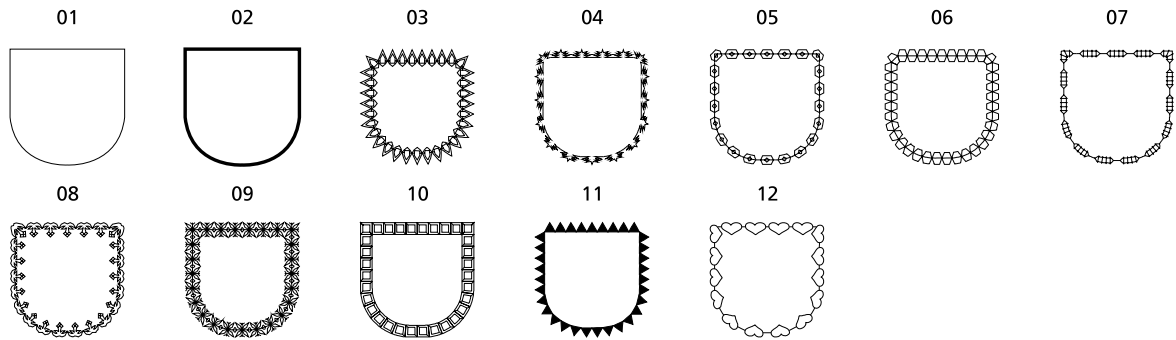
Square patterns - 12



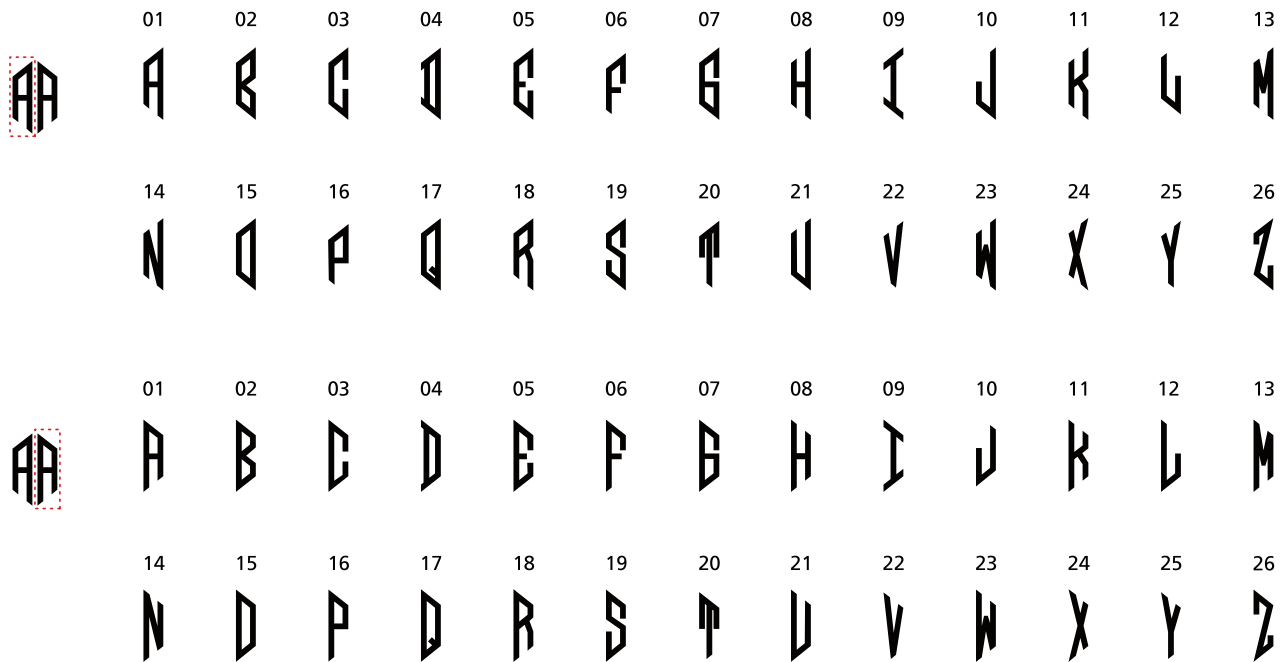
Heart patterns - 12



Pocket patterns - 12



2Letters - 52



2Letters frames - 04





Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.

SEWING+EMBROIDERY **COMBO**