

POOLiN®

Operation Manual

EOC05(2in1) Series



Content

Important Safety Instructions

Hazard Warning	4
Safety Instructions	4-5

Names of Machine Parts

Names of Machine Parts	6-8
Embroidery Unit	9

Turn On/Off the Machine

Turn On/Off the Machine	10
Mode Selection Page	11
Language Settings	12
Connect to Institch Cloud	13-14

Thread Settings

Upper Threading	15-18
Install the Bobbin	19-20
Wind the Bobbin Thread	21-23

Replace the Needle

How to Replace The Needle	24-25
---------------------------------	-------

Sewing Mode Operation Guide

Sewing Screen Overview	26-27
Change Sewing Presser Foot	28

Content

Sewing Basics	29-30
Setting Stitch Width / Length / LR Shift	31
Adjusting Sewing Tension	32
Useful Sewing Tips	33-36

Embroidery Mode Operation Guide

Embroidery Frames Introduction	37
Presser Foot Holder Install/Remove	38
Change Embroidery Presser Foot	39
Install the Embroidery Unit	40
Remove the Embroidery Unit	41
Attach the Frame and Fabric	42-43
Detach the Frame	44

Upper Thread Tension Adjustment

How to Adjust the Upper Thread Tension	45-46
--	-------

Pattern Selection

Pattern Selection Page Introduction	47-49
Letter Embroidery	50
Institch Cloud Folder	51
Import Patterns from USB to Machine	52
Direct Embroidery from Patterns on USB	53
Combine Multiple Patterns for Emb	54

Content

Pattern Editing

Pattern Editing Page Introduction	55-56
Set Pattern Colors	57
Set Preview Background Color	58
Select Embroidery Frame	59
Rotate Pattern	60
Scale Pattern	61
Save Edited Pattern	62
Scale Pattern	63
Mirror Pattern	64
Reset Edited Pattern	65
Save Edited Pattern	66
Delete Edited Pattern	67

Pattern Embroidery

Pattern Embroidery Page Introduction	68-69
Stitch Forward/Backward	70-71
Color Forward/Backward	72

Settings

Settings Main Page Introduction	73-74
---------------------------------------	-------

Common Issues and Solutions

Common Issues and Solutions	75-76
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Important Safety Instructions

Please take this machine seriously and do not treat it as a toy. When operating or using the machine, always observe the following safety precautions:

1. Do not operate the machine with blocked ventilation openings.
2. Do not use the machine outdoors.
3. Do not operate the machine in areas where aerosol (spray) products are being used or where oxygen is being administered.
4. To disconnect the machine, turn the main switch to the "O" (Off) position.
5. Do not unplug the machine by pulling the cord. Always grasp the plug—not the cord—when unplugging.
6. Keep fingers away from all moving parts, especially around the needle area.
7. Do not use a bent needle.
8. Do not pull or push the fabric while embroidering. This may cause the needle to bend or break.
9. This embroidery machine is not intended for use by young children or individuals with reduced physical or mental capabilities without supervision.

WARNING

Instructions for safe operation:

1. Pay attention to the needle during embroidery, and avoid pulling the thread directly, touching the hand wheel, needle or other moving parts.
2. Please switch the machine to the symbol "0" to turn it off and unplug the machine from the outlet under the following circumstances:
 - Operation completed
 - Replacing or disassembling embroidery needles or any other parts
 - Power failure occurs during use
3. Plug the machine directly into the electrical outlet, do not use an extension cord.
4. Do not place or store the machine near any extreme environment (high temperature, low temperature, high humidity or dust area), heater or other thermal appliances, so as not to cause machine failure.

Important Safety Instructions

5. The plastic bag that this machine was supplied in should be kept out of the reach of children or disposed of. Never allow children to play with the bag due to the danger of suffocation.
6. Do not place the embroidery machine on an unstable or inclined table, otherwise the machine may fall, resulting in injuries.

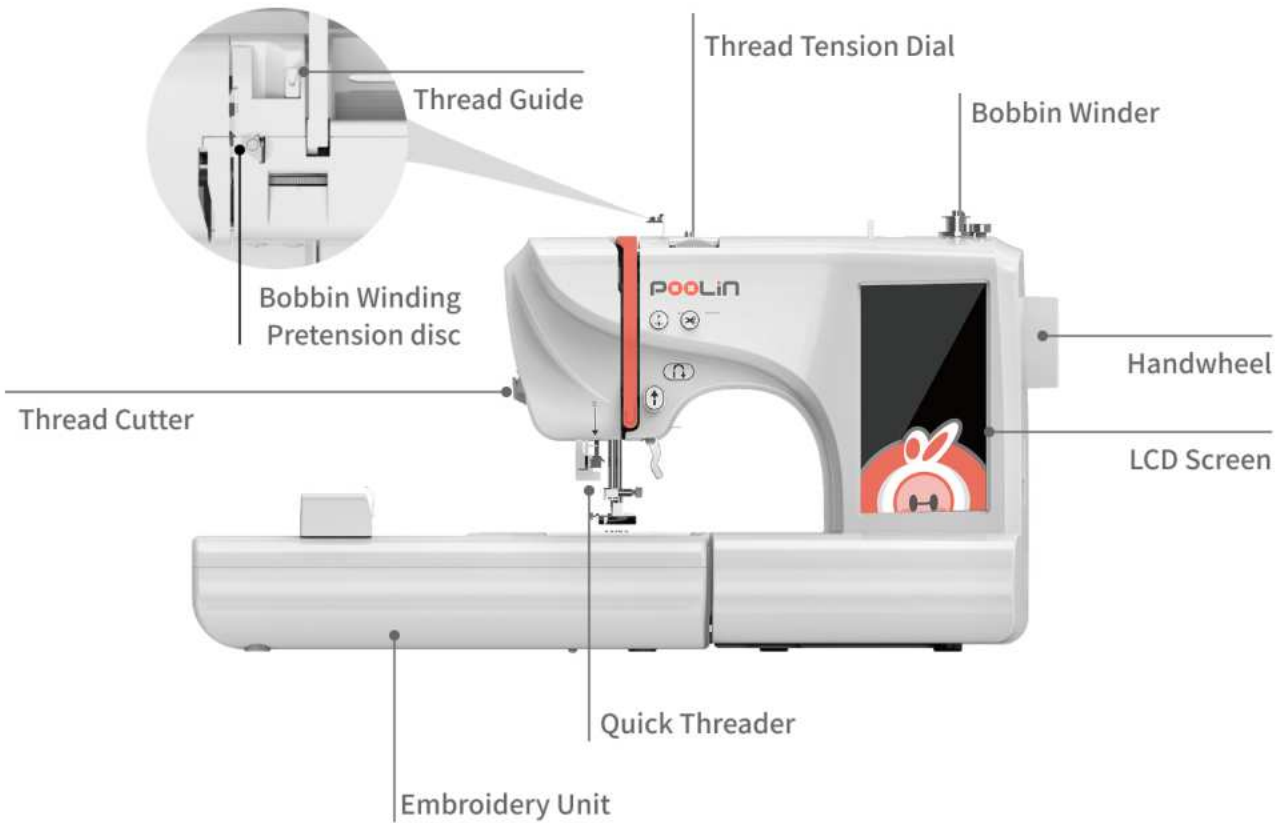
For a longer service life:

1. When storing the machine, please avoid direct sunlight and high humidity locations. Never use or store this machine near heaters, irons, halogen lamps, or other hot objects.
2. Only use neutral soap or detergents to clean the machine shell. Benzene, thinner or scouring powder can damage the machine, and should never be used.
3. Do not let the machine drop or be impacted.
4. Always consult the operation manual when replacing or installing any assemblies, needle, or other parts to assure correct installation.
5. Only the interface cable (USB cable) included with the machine can be used, and it cannot be replaced by other types of cables.

Repair or adjustment:

In the event of a malfunction occurs or requires adjustments, first follow the troubleshooting table on the back of the operation manual to inspect and adjust the machine yourself. If the problem persists, please consult our after-sales personnel. They provide professional help and support. Never attempt to repair the machine yourself as this could cause more serious damage.

Names of Machine Parts

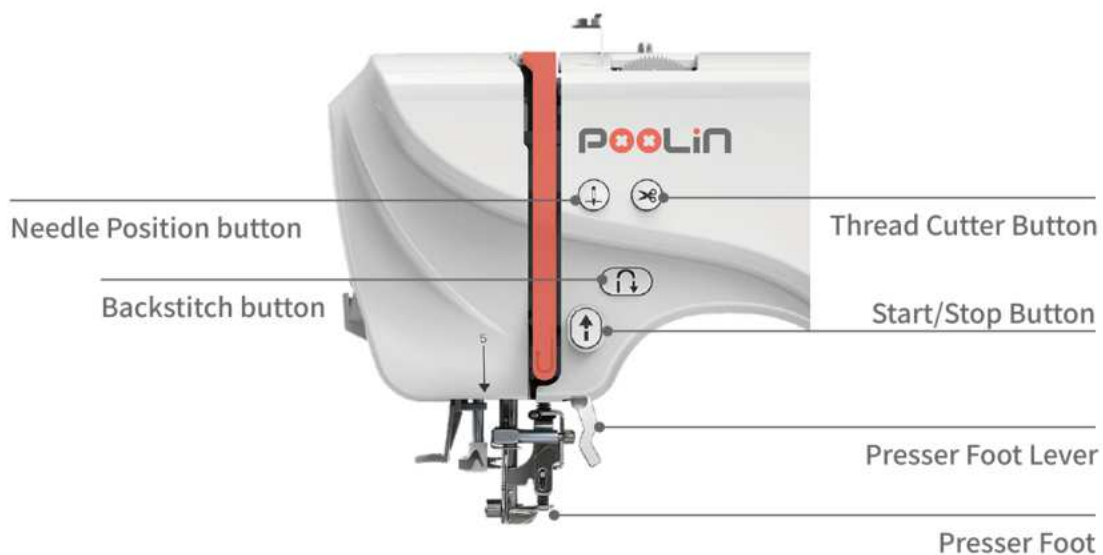


Description of Functions

Contents	Description
LCD Screen	For display and operation.
Handwheel	Turn the handwheel to raise and lower the needle.
Bobbin Winder	Place an empty bobbin when winding bobbin thread.
Thread Tension Dial	Adjust upper thread tension, the larger the value, the greater the tension.
Thread Guide	Upper thread guide hook.
Bobbin Winding Pretension disc	Control the tension when winding the bobbin thread.

Names of Machine Parts

Contents	Description
Thread Cutter	For cutting upper thread.
Embroidery Unit	After connecting, it is used to attach the embroidery frame and control the movement of the embroidery frame.
Quick Threader	Quickly thread the upper thread through the eye of the needle.
Backstitch button	Used for reinforcing stitches in reverse sewing.

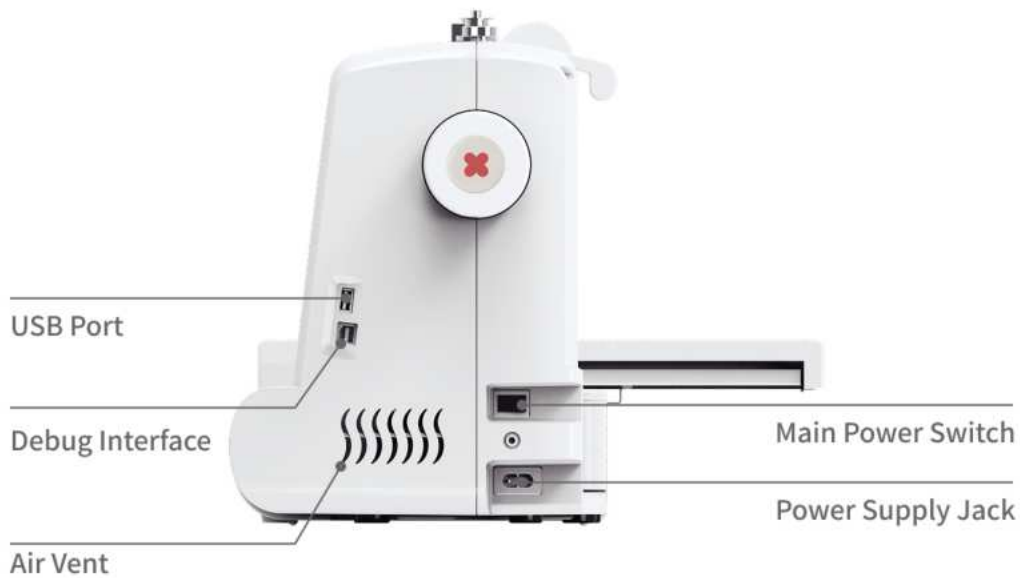


Enlarged close-up of the appearance of the fuselage

Contents	Description
Presser Foot	For fixing fabric.
Presser Foot Lever	For raising/lowering the presser foot.
Thread Cutter Button	Press the button to cut the thread.
Needle Position button	Press this button to raise or lower the needle position.

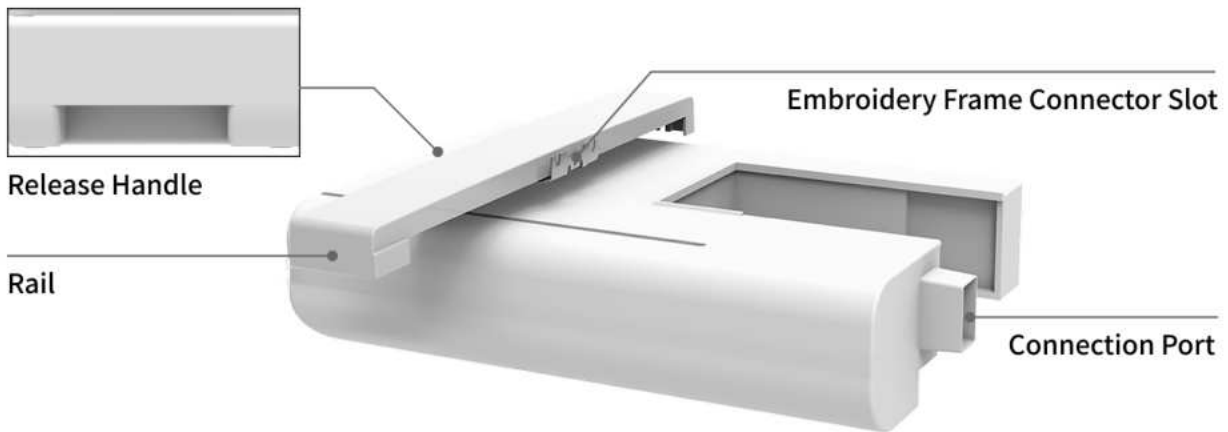
Names of Machine Parts

Contents	Description
Start/Stop Button	<p>Machine Start and Stop :</p> <p>After pressing the button, the machine will embroider a few stitches at a slower speed, and then automatically switch to the speed set by the embroidery speed controller for embroidery. Press the button again and the machine will stop.</p> <p>The color of this button will change according to the operating mode of the machine to provide a more visual indication.</p>



Contents	Description
USB Port	Connect USB for pattern transfer and system upgrade.
Main Power Switch	Turn on/off the machine.
Power Supply Jack	Connect the machine power cord.
Air Vent	For machine cooling.
Debug Interface	For debugging the machine. No user operation is required.

Embroidery Unit



Description of Functions

Contents	Description
Release Handle	When detaching the embroidery unit, press and hold the release handle, and then pull it outward.
Rail	Control the movement of the embroidery frame.
Embroidery Frame Connector Slot	Connect and fix the embroidery frame.
Connection Port	Connect the embroidery unit to the machine.

Tips:

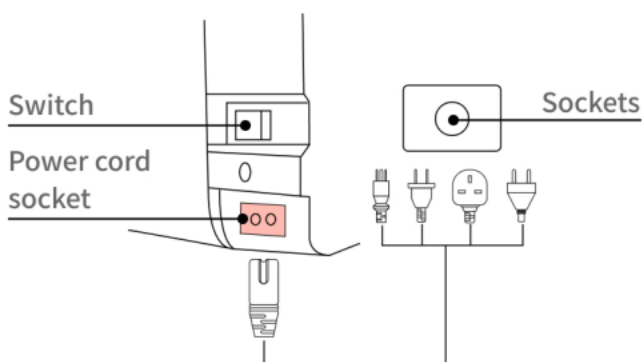
Before connecting the embroidery unit, be sure to turn off the power of the machine, otherwise the machine may be damaged.

Turn On/Off the Machine

DANGER

1. Use only regular household electricity for the power source. Using other power sources may result in fire, electric shock or damage to the machine:
 - Make sure the plugs on the power cord are firmly inserted into the electrical outlet and the power supply jack on the machine.
 - Do not insert the plug into an electrical outlet that is in poor condition.
2. Use only the power cord included with machine.
3. Do not use extension cords or multi-plug adapters with many other appliances plugged into them.
4. Do not touch the plug with wet hands, electric shock may result.
5. When unplugging the machine, be sure to turn off the main power first.
6. Pulling on the power cord may damage the cord, or lead to fire or electric shock.
7. Do not cut, damage, modify, forcibly bend, pull, twist or bundle the power cord.
8. Do not place heavy objects on the power cord.
9. Do not place the power cord under high temperature.

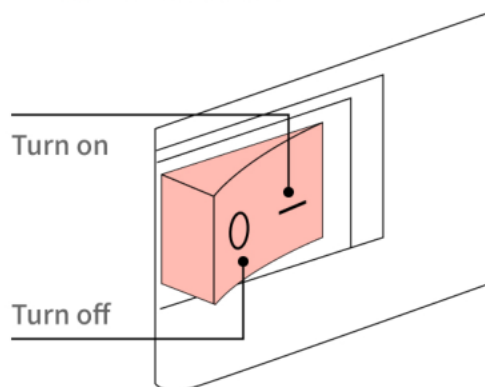
1 Connect the power cord.



Tips:

Please make sure the machine is off while replacing the needle.

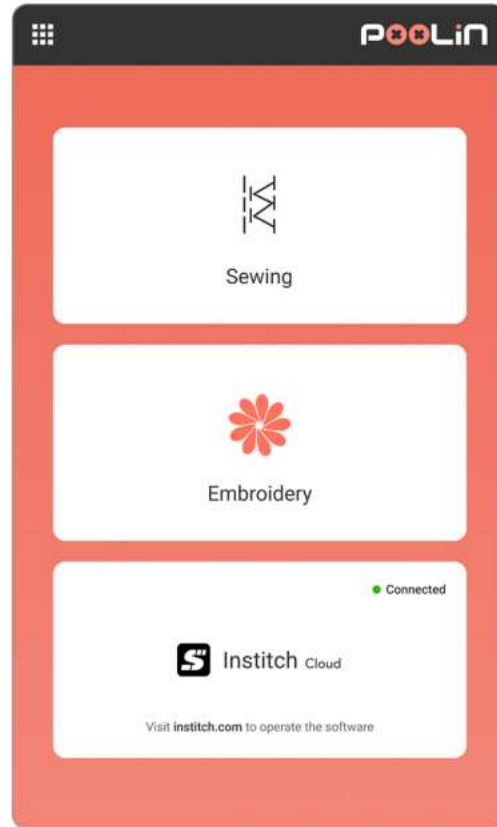
2 Set the switch to "I" to turn on the machine.



Tips:

Set the switch to "I" to turn on the machine.
Set the switch to "O" to turn off the machine.

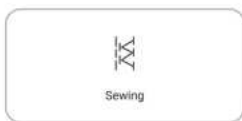
Mode Selection Page



Description of Functions

Contents

Description



Click the button to enter the main sewing screen.



Click the button to enter the embroidery home screen, where you can select patterns and start embroidery tasks.



The current connection status between the device and the cloud platform is displayed to confirm whether the network connection is successful.

⚠ Tips:

Tap the top-left corner to enter Settings, where you can switch the interface language.

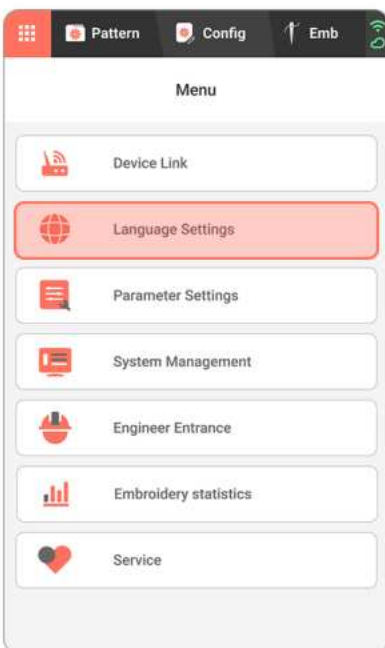
Language Settings

The factory default machine language is English, if you want to change another language, please follow the steps below to modify the language setting, and then operate the machine.

1 Tap 



2 Tap Language Settings



3 Select your local language.



4 Tap  Pattern to return to the main menu.



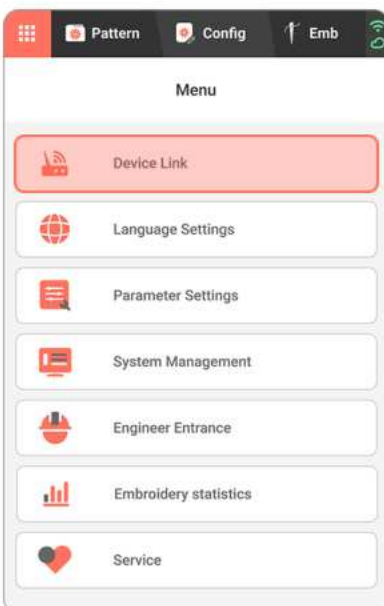
Connect to Institch Cloud

After successful binding, patterns will automatically sync to the Institch Cloud Platform. You can manage patterns remotely or send them to the device for real-time syncing and transfer. Please make sure the file is in DST or DSB format. For more information, visit: [Institch.com](https://institch.com)

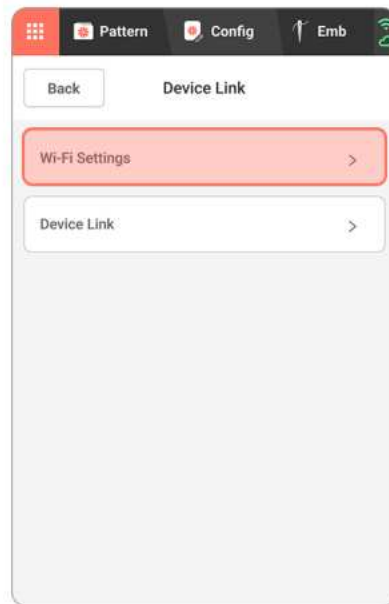
1 Tap



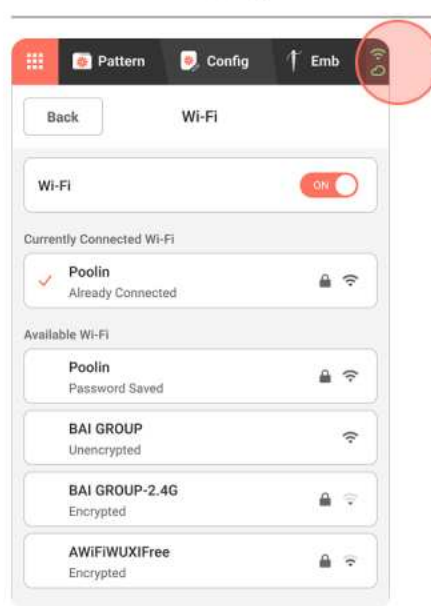
2 Tap Device Connection



3 Tap Wi-Fi Settings



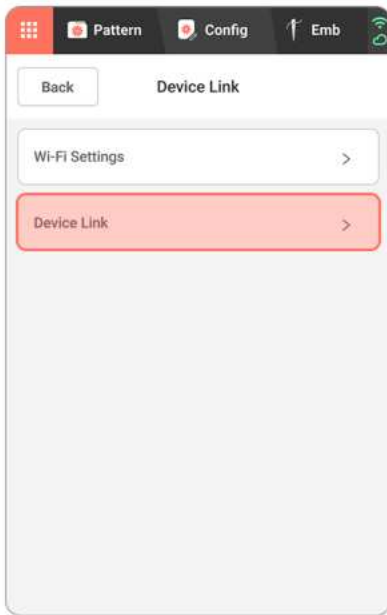
4 Choose a network from the list. Once connected, the current network status will be displayed.



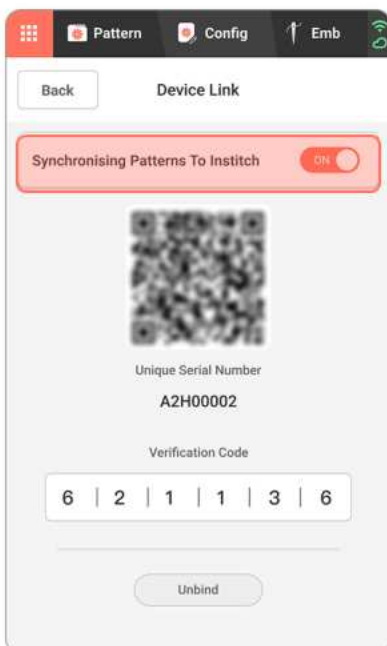
Connect to Institch Cloud

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5 Tap Device Connection



6 Enable Sync Patterns to Institch Cloud Platform



7 After logging into your Yinjiyun account, follow the on-screen instructions to bind your machine.



Step 1



Step 2



⚠ Tips:

Cloud binding is a one-time setup – once bound, your device information will sync to the Institch platform.

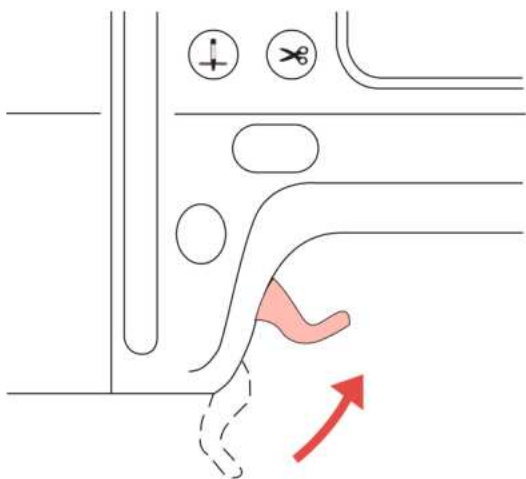
To unbind, tap the Unbind button under Device Binding.

If you encounter any issues, technical support is available via our official social media channels.

🔍 Facebook: **Institch Doodle Digitizing**

Upper Threading

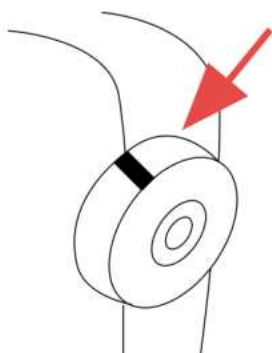
- 1 Raise the presser foot lever.



⚠ Tips:

Raising the presser foot lever is to ensure that the upper thread can pass through the pressure piece correctly, so that the tension of the upper thread can be adjusted to avoid thread jam, thread breakage and false alarm.

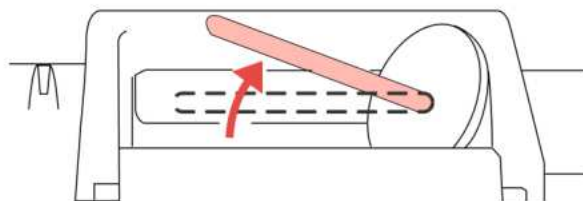
- 2 Turn the handwheel to raise the needle to the highest needle position.



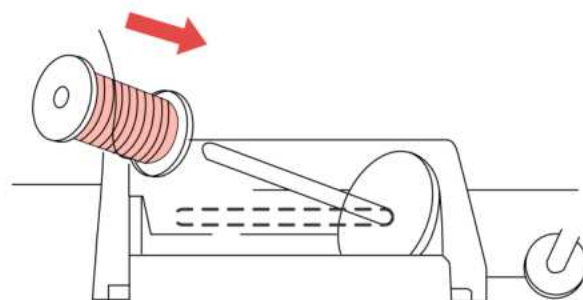
⚠ Tips:

If you use the easy-to-use threader to thread the needle without raising the needle position, the thread may not be threaded correctly.

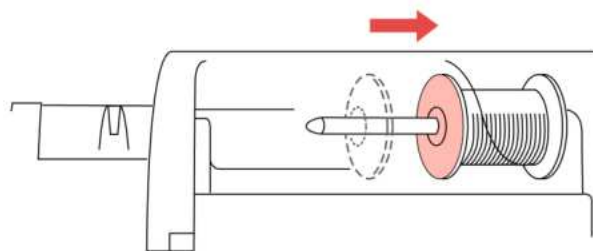
- 3 Lift up the spool pin.



- 4 Place the spool of thread on the spool pin to make the thread spread out from the top of the thread spool.



- 5 Slide the spool cap onto the spool pin.

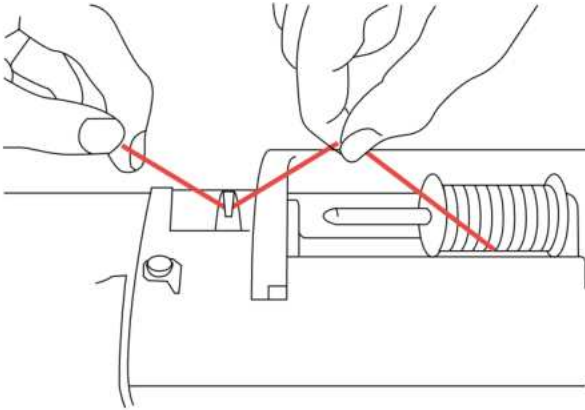


⚠ Tips:

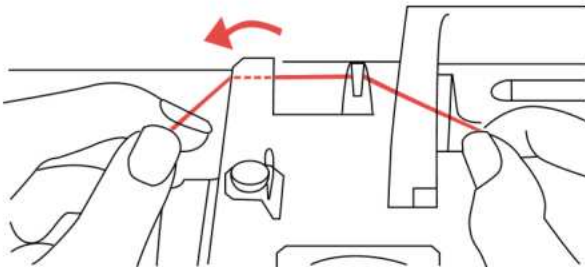
Use the spool cap that is the closest size to the thread spool (large, medium, small) If you use a spool cap that is smaller than the thread spool, the thread may get caught in the slit at the end of the spool, resulting in thread and needle breakage.

Upper Threading

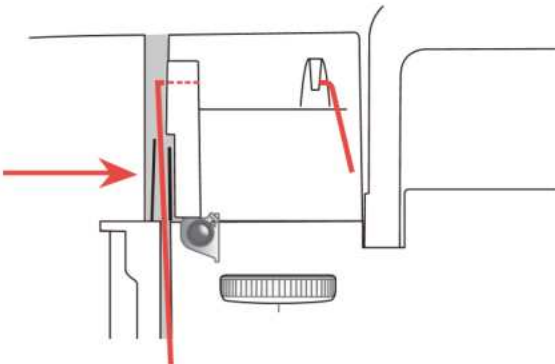
- 6** Pull the thread with two hands from the spool and pass the thread under the hook of the thread guide.



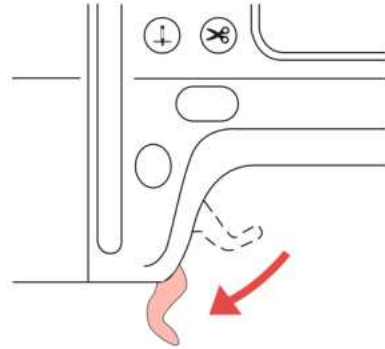
- 7** Pass the thread through the thread guide cover.



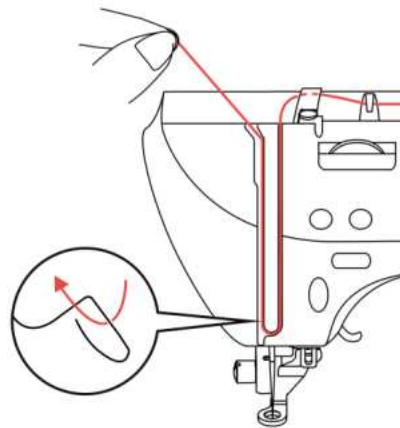
- 8** Pass between two metal sheets



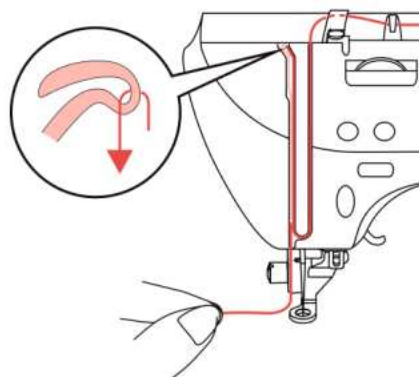
- 9** Lower the presser foot lever.



- 10** Lead the thread down, up through the spring.



- 11** Pass the thread through the thread take-up lever.

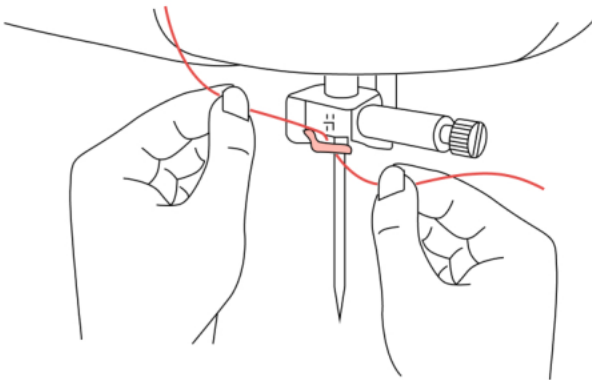


Upper Threading

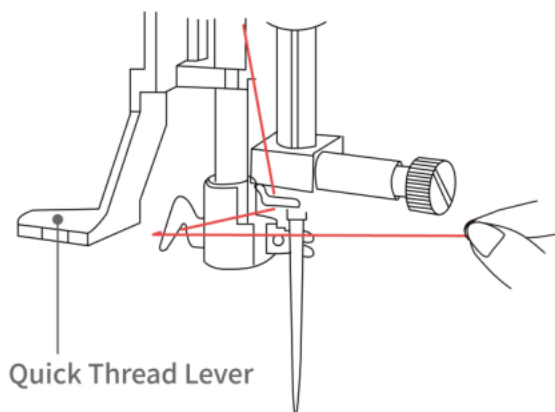
⚠ Tips:

When threading, please make sure to pass through the thread take-up lever, otherwise it will cause thread jam and thread breakage.

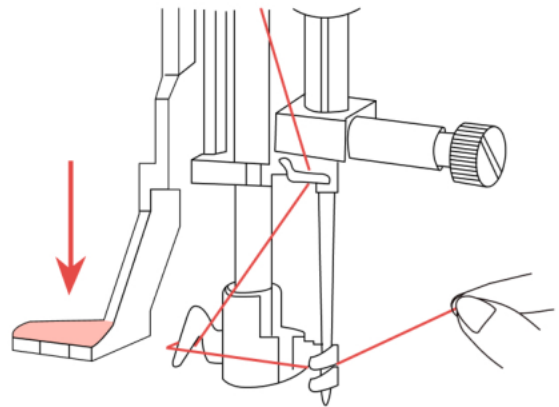
- 12** Hold the thread with two hands and pass the thread through the needle bar thread guide.



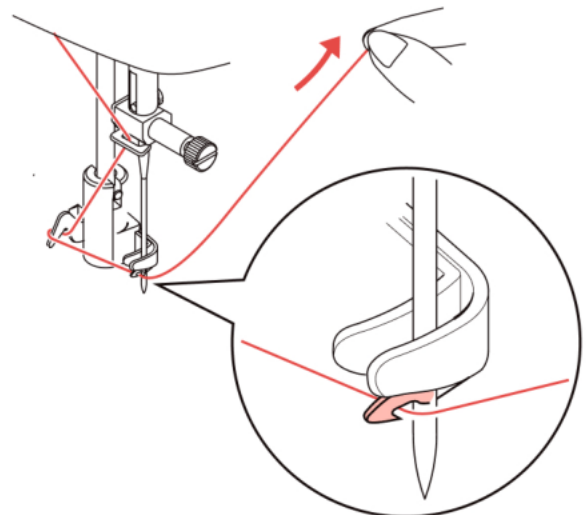
- 13** Pass the thread through the thread guide disk as shown in the figure.



- 14** Lower the quick threader lever as much as possible.



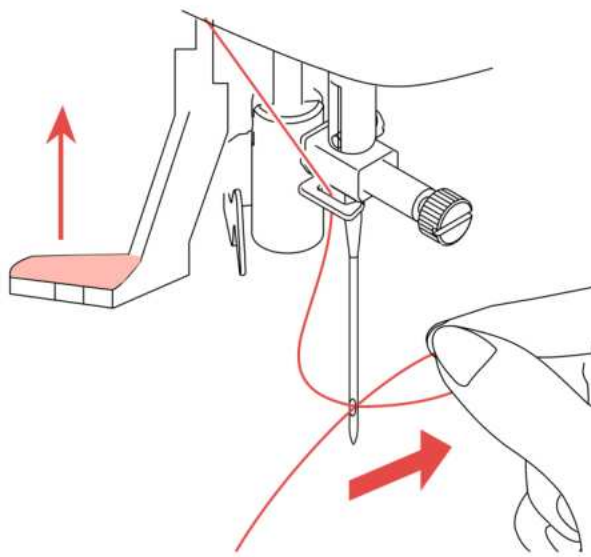
- 15** After the hook of the quick threader passes through the eye of the needle, hang the thread into the hook and lift the thread upwards.



Upper Threading

16

While releasing the needle threader lever, the thread passes through the eye of the needle, and a thread loop is formed on the back of the eye of the needle, pull the loop of the thread through the eye of the needle by hand.

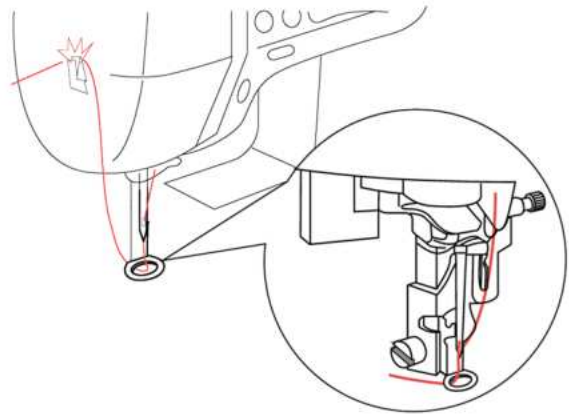


⚠ Tips:

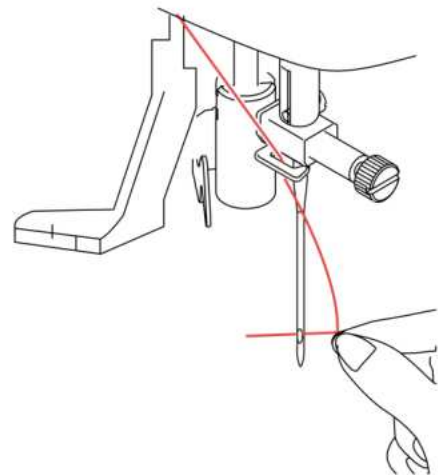
Please be careful not to prick your fingers when pulling the thread out of the eye of the needle.

17

Pass the thread through the presser foot and use the thread cutter on the side of the machine to cut the thread.



Note: When the needle threader cannot be used, manually pass the thread through the eye of the needle from front to back.

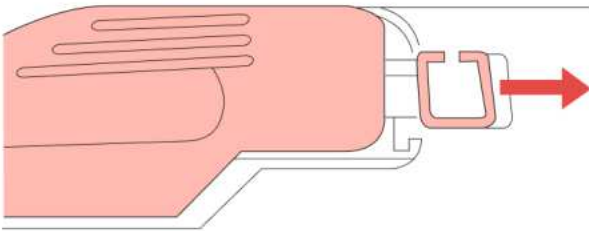


⚠ Tips:

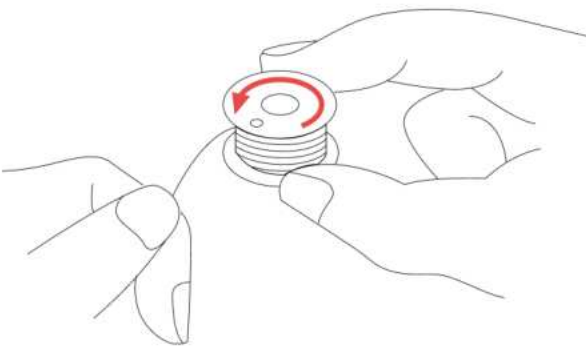
After the thread passes through the eye of the needle, you need to ensure that the length of the thread end is about 80mm.

Install the Bobbin

- 1 Slide the bobbin cover latch to the right, and remove the bobbin cover.



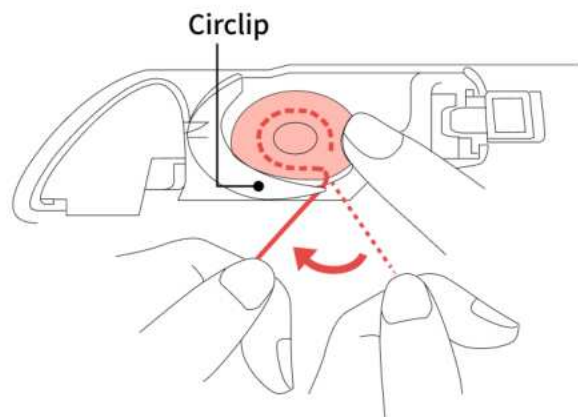
- 2 Hold the bobbin with your right hand, pull the end of the thread with your left hand, keep the direction of the thread counterclockwise, and insert the bobbin.



⚠ Tips:

Please make sure that the thread direction is correct when installing the bobbin, otherwise it may lead to thread breaking or incorrect tension of the thread.

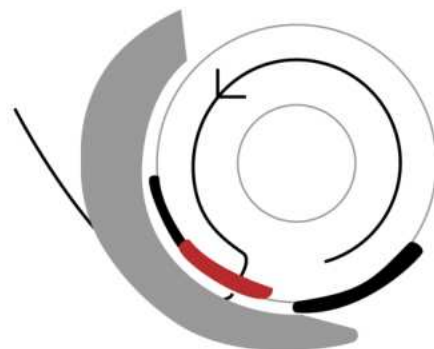
- 3 Lightly hold down the bobbin with your right hand, and pass the thread through the spring of the bobbin case with your left hand.



⚠ Tips:

Please make sure that the bobbin thread passes through the spring of the bobbin case correctly, otherwise the thread may break or the thread tension will be incorrect.

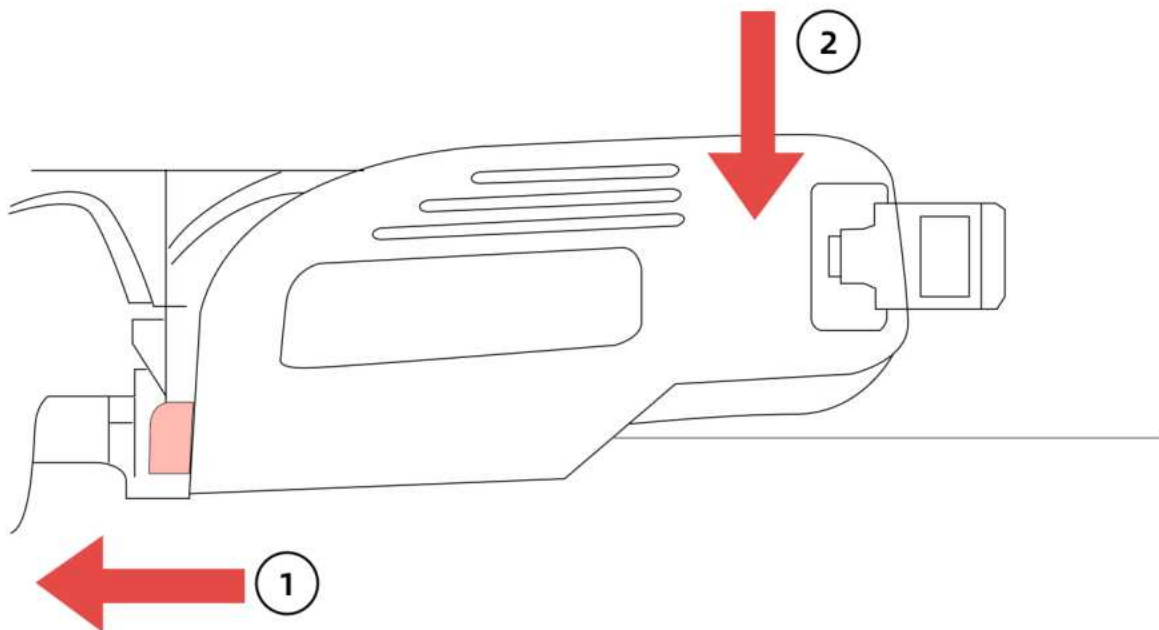
- 4 Pass the thread through the slot as shown in the figure, then pull the thread out towards the front, and finally cut the thread with the thread cutter.



Install the Bobbin

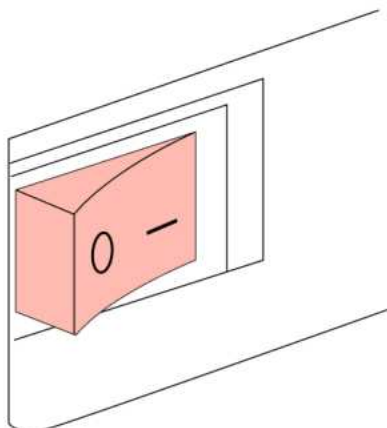
5

Insert the raised part of the bobbin cover into the slot on the left, and lightly press the cover on the right side to reattach the bobbin cover.



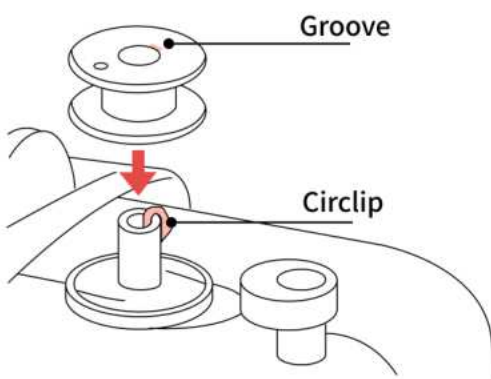
Wind the Bobbin Thread

- 1 Turn on the machine.

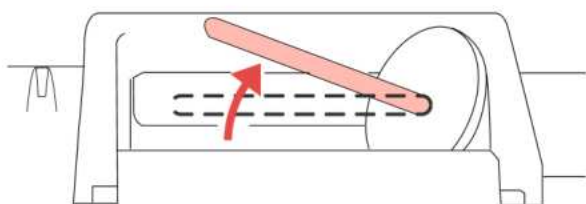


Place the bobbin on the bobbin winder shaft so that the spring on the shaft fits into the notch in the bobbin. Press down on the bobbin until it snaps into place.

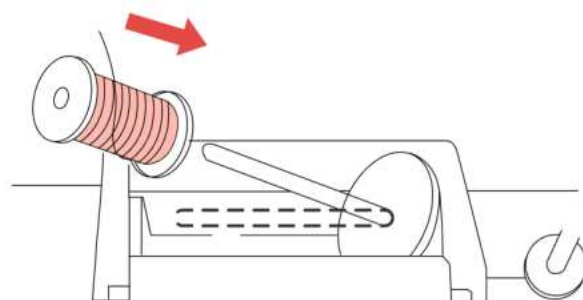
2



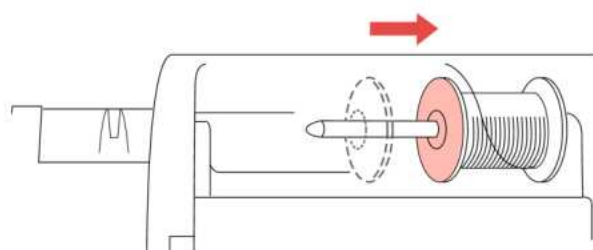
- 3 Lift up the spool pin.



- 4 Place the spool of thread for bobbin onto the spool pin, make the thread unwind to the front.



- 5 Install the spool cap to the spool pin.



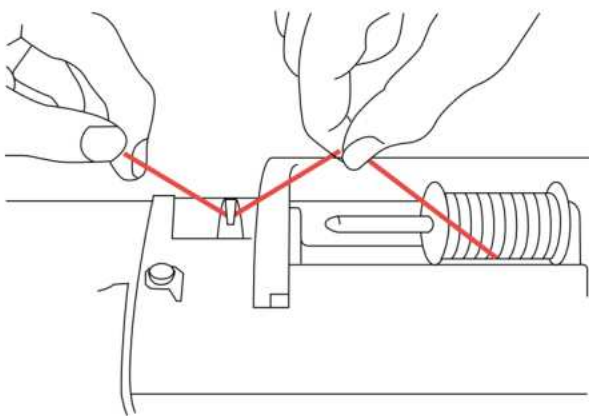
⚠ Tips:

Three spool cap sizes are available (large, medium, small) allowing you to choose a spool cap that best fits the size of the spool being used. If the spool cap is too small for the spool being used, the thread may get caught on the slit in the spool, causing the thread breaking and needle breaking.

Wind the Bobbin Thread

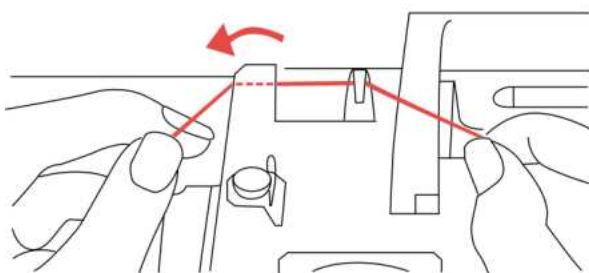
6

Pull the thread from the spool with two hands and pass the thread under the hook of thread guide.



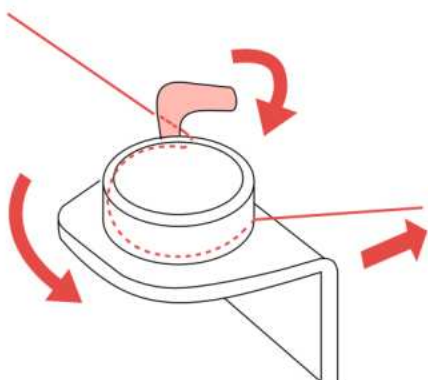
7

Pass the thread through the guide cover.



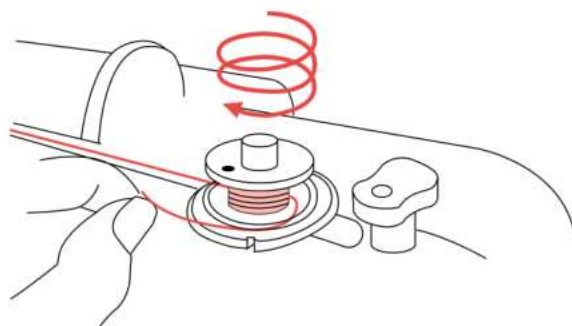
8

Pass the thread through the pretension disk in the direction as shown in the figure, make sure that the thread passes under the pretension disk.



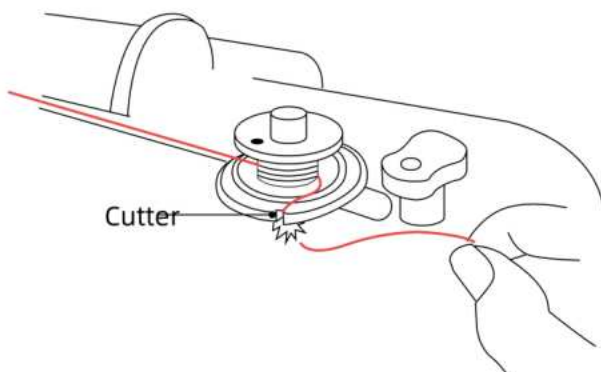
9

Wind the end of the thread clockwise around the bobbin 5-6 times.



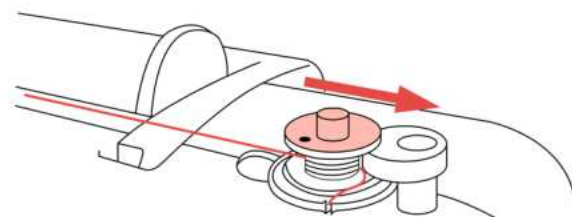
10

Pass the end of the thread through the guide slit in the bobbin winder seat, then pull the thread to the right and cut it with the built-in cutter.



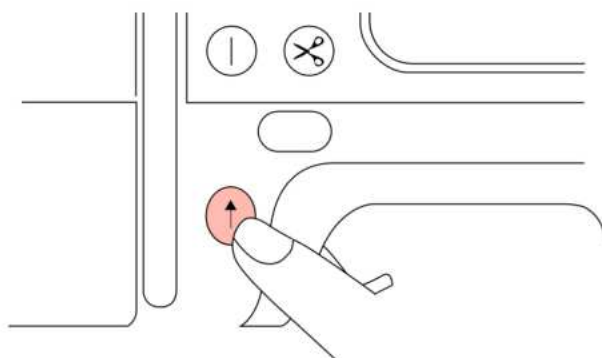
11

Slide the bobbin winder to the right.

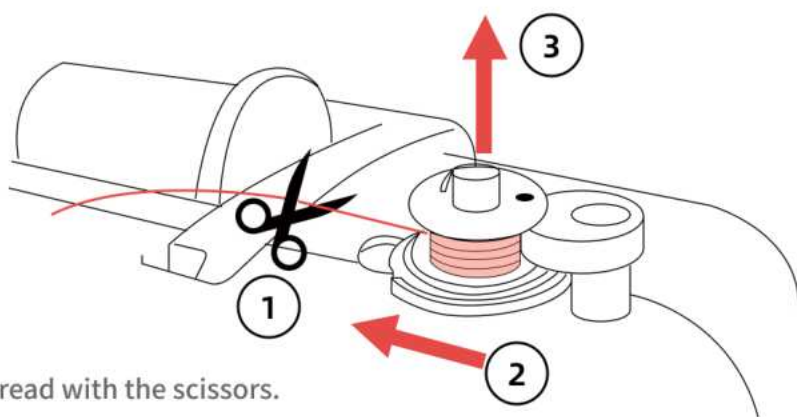


Wind the Bobbin Thread

- 12 Press the Start button, and the machine starts to wind automatically.



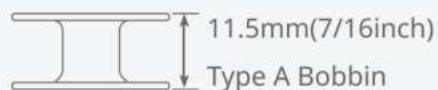
- 13 When the bobbin winding is finished, cut the thread with scissors, slide the bobbin winder to the left, and then remove the bobbin from the shaft.



- 1 Cut the thread with the scissors.
- 2 Slide the bobbin winder to the left.
- 3 Remove the bobbin from the shaft.

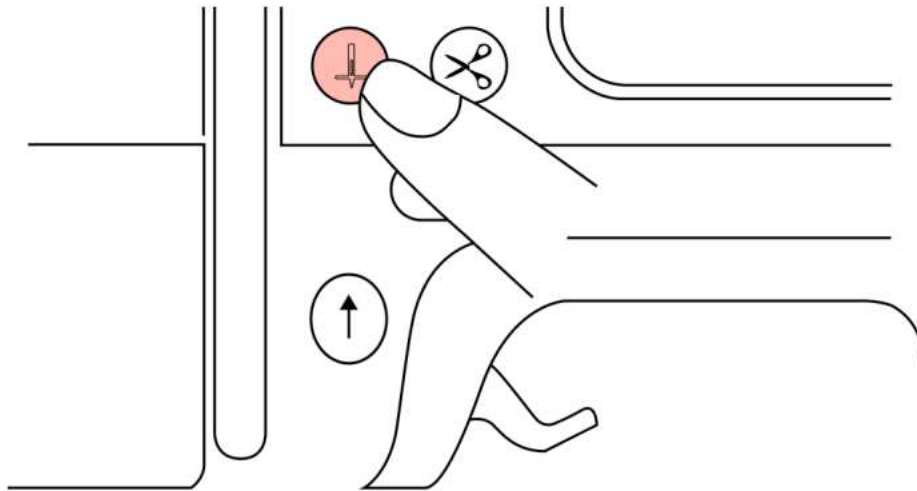
⚠ Tips:

Please use the bobbin included with the machine to wind the thread, if you want to buy it, please choose the same size bobbin in the picture below. Otherwise, the machine will not work normally.

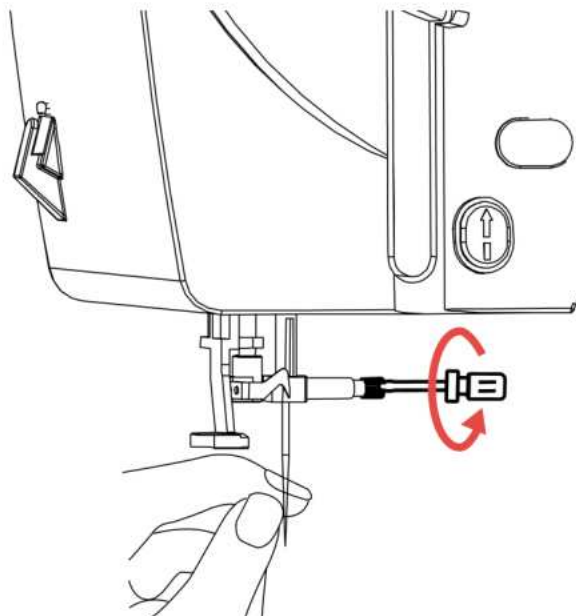


How to Replace The Needle

- 1 Press the "Needle position" button on the machine to raise the needle to its highest position.



- 2 Turn off the machine. Use a screwdriver to turn the screw counterclockwise, then loosen the screw and remove the needle that needs to be replaced.

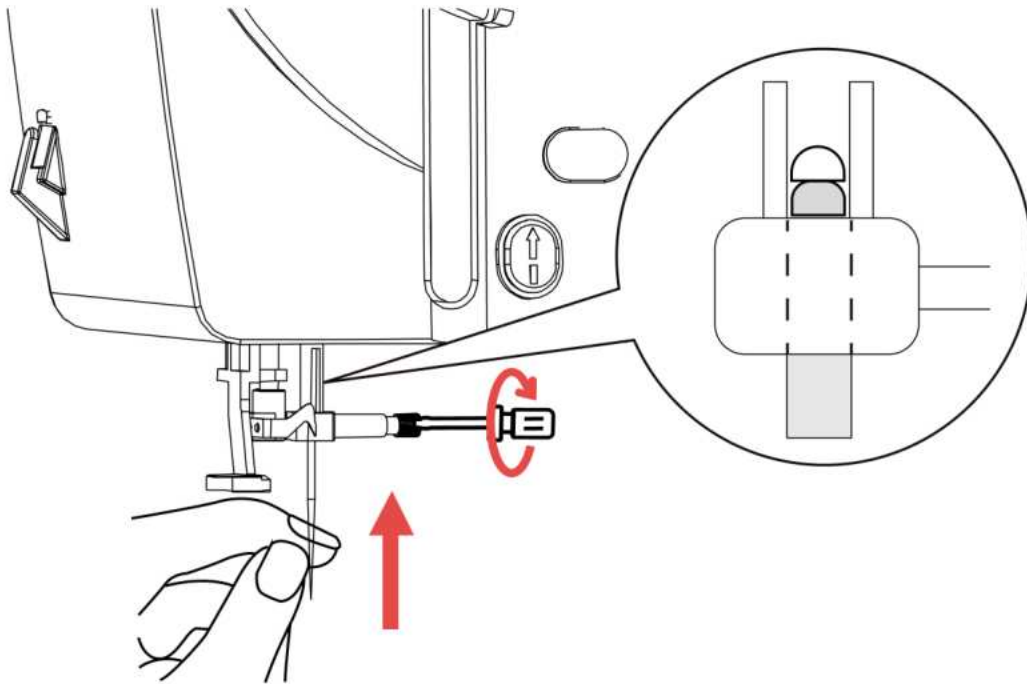


⚠ Tips:

Before replacing the needle, please turn off the machine and cover the hole on the needle plate with a cloth or paper to prevent the needle from falling into the machine.

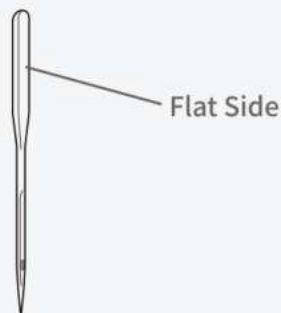
How to Replace The Needle

- 3 With the flat side of the needle towards the back, insert the needle until it touches the needle stopper. Tighten the needle clamp screw with a screwdriver.

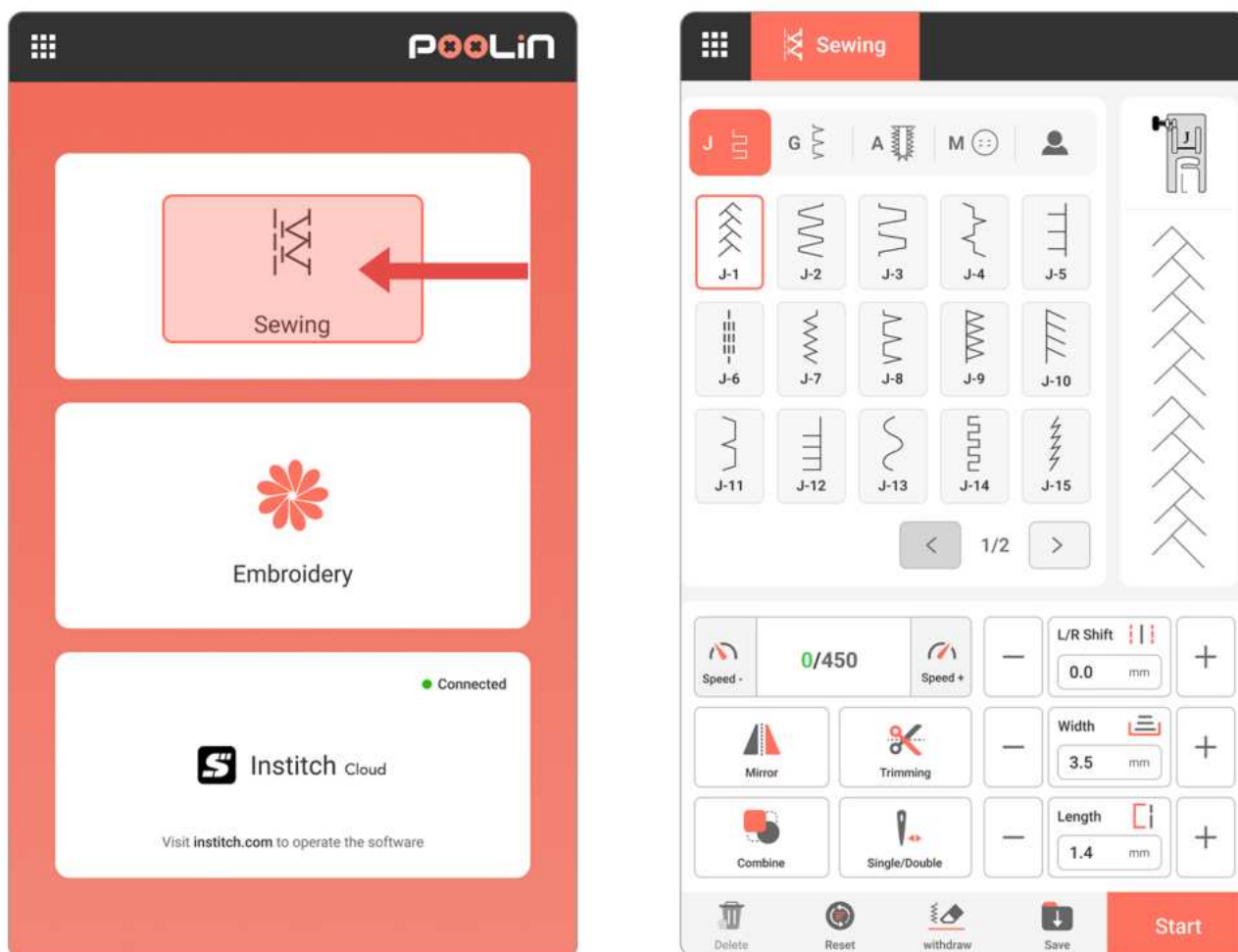


⚠ Tips:

1. When installing the embroidery needle, ensure that the flat side of the needle shank is facing the rear (toward the machine).
2. When installing the embroidery needle, ensure that the flat side of the needle shank is facing the rear (toward the machine).
3. If the needle is not fully inserted or the clamp screw is loose, it may cause the needle to break or damage the machine.



Sewing Screen Overview



26

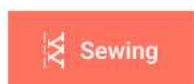
1、 Page Navigation Area

Contents

Description



Set page.




Sewing Mode Operation Screen.


Sewing Screen Overview

2. Stitch Selection & Preview Area

Contents Description

J  General Stitches

G  Overcasting Stitches

A  Buttonhole Stitches

M  Bartack Stitches

 Custom Stitches



 The currently selected stitch displays the recommended presser foot and a preview of the sewing result.


3. Sewing Parameter Adjustment Area

Contents Description

   Speed Control Button
Increases or decreases the sewing speed.


 Mirror Button
Reverses the stitch pattern.

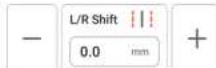
 Thread Cutter Button
Automatically cuts the thread.

 Combine Button
Allows combining multiple stitches for continuous sewing.

Contents


Description

 Twin Needle Button
Activates twin needle mode for sewing with two needles.


 L/R Shift Setting
Moves the stitch to the left or right to adjust the zigzag stitch position.


 Stitch Width Setting
Adjusts the zigzag stitch width to be wider or narrower.

 Stitch Length Setting
Adjusts stitch length for coarser (longer) or finer (shorter) stitches.


 Delete Button
Deletes the selected stitch.

 Reset Button
Resets all stitch parameter changes.

 Clear Button
Removes one stitch in a combination and allows replacing it with another.

 Save Button
Saves the combined stitches to the Custom Stitches screen.

 Start Button
Starts sewing.

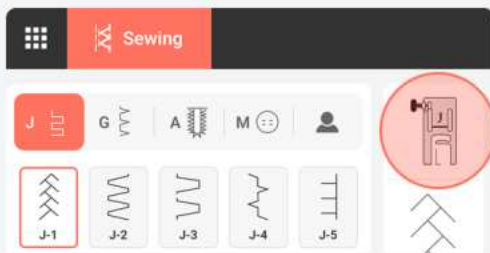
 Confirm Button
Confirms a stitch combination before sewing begins.

Change Sewing Presser Foot

1. Use the presser foot suitable for the selected stitch type, otherwise the needle may hit the presser foot, causing it to bend or break.
2. Only use presser feet specifically designed for this machine. Using other presser feet may cause personal injury or damage to the machine.

⚠ Tips:

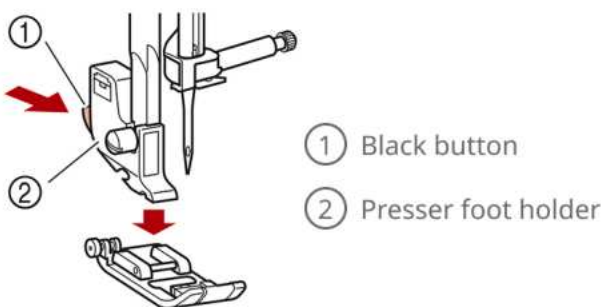
When you select a stitch, the recommended presser foot icon will appear on the screen. Before starting to sew, make sure the correct presser foot is installed. If the wrong presser foot is attached, replace it with the correct one.



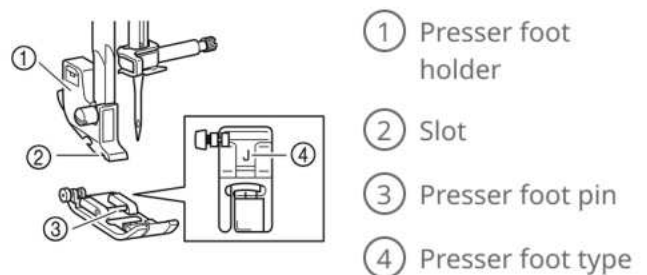
1 Press the [] (needle button position) twice to raise the needle.

2 Lift the presser foot lever.

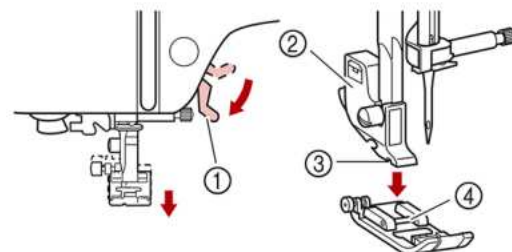
3 Press and hold the black button on the back of the presser foot holder to remove the presser foot.



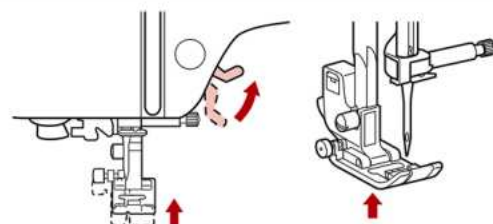
4 Place the appropriate presser foot under the presser foot holder, aligning it with the slot in the holder.



5 Lower the presser foot lever slowly so that the presser foot pin snaps into the slot of the presser foot holder.



6 Lift the presser foot lever and check that the presser foot is securely attached.



Sewing Basics

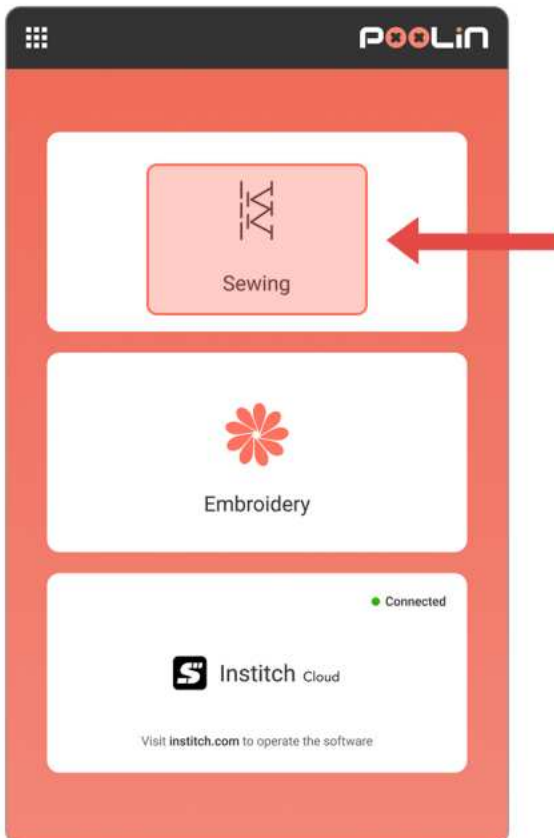
When operating the machine, pay close attention to the needle position. Avoid touching the needle, handwheel, or any moving parts to prevent injury. Do not pull or push the fabric forcefully during sewing, as this may cause injury or needle breakage. Never use a bent needle. Bent needles break easily and may cause injury.

1 Prepare the needle and thread suitable for the fabric type.

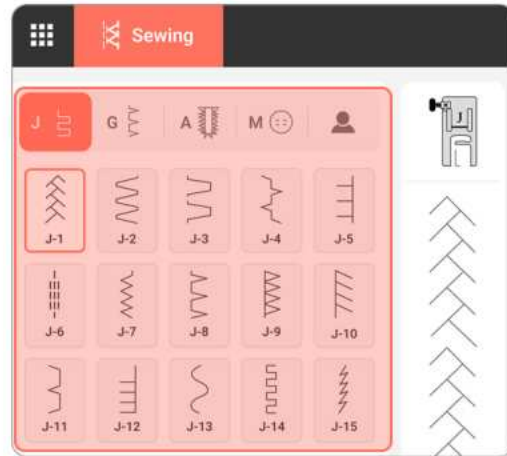
2 Install the bobbin into the machine.

3 Thread the upper thread.

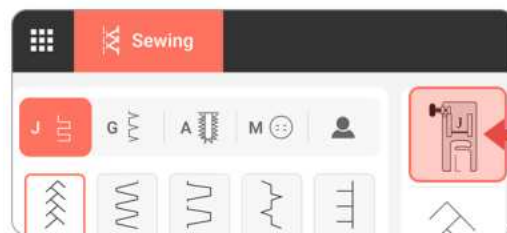
4 Press the sewing button on the control panel.



5 Select the stitch according to the presser foot type.




6 Check the presser foot indicated at the top right of the screen, then install that presser foot. For this step, install the zigzag presser foot “J” (included with purchase).



! Tips:

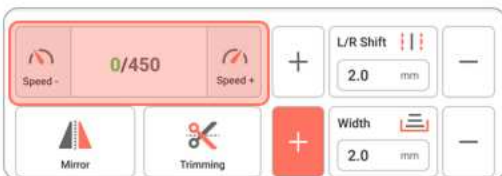
Always use the correct presser foot. Using the wrong presser foot may cause the needle to hit the presser foot, resulting in broken or bent needles and possible injury.

Sewing Basics

7 Place the fabric under the presser foot. Hold the fabric and thread with your left hand, then turn the handwheel counterclockwise or press  to position the needle at the sewing start point.

8 Lower the presser foot lever.

9 Use the sewing speed controller to adjust the sewing speed. You can adjust the sewing speed with this controller during sewing.




10 Press the “Start/Stop” button to begin sewing. (When using the foot controller, press the foot pedal slowly.) Gently guide the fabric by hand.

Tips:

When using the foot controller, you can start sewing by pressing the “Start/Stop” button.

11 Press the “Start/Stop” button again to stop sewing. (When using the foot controller, remove your foot from the pedal.)

12 Press the  (thread cutter button) to trim the upper and bobbin threads. The needle will automatically return to the upper position.

13 When the needle stops moving, raise the presser foot lever and remove the fabric.

14 Check the sewing result. Adjust the thread tension if necessary.

Using the Foot Controller

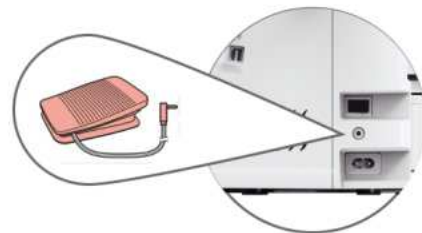
You can also use the foot controller to start and stop sewing.

Tips:

1. The foot controller can be used to start and stop bobbin winding.
2. The foot controller cannot be used during embroidery.

1 Turn off the machine.

2 Insert the foot controller plug into the foot controller socket on the machine.



3 Turn on the machine.

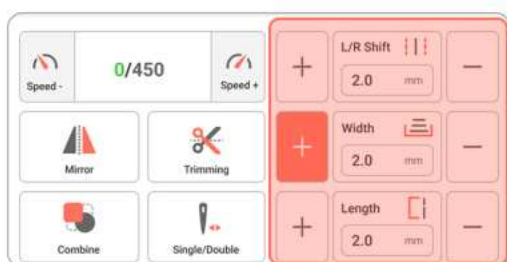
4 Press the foot controller slowly to start sewing.




Setting Stitch Width / Length / LR Shift

⚠ Tips:


The machine has preset default values for stitch width, stitch length, and “L/R Shift” for each stitch type. You can still make further adjustments to these settings if needed.



To save custom settings for future use, adjust the values and press  to save them to Personal Stitches.



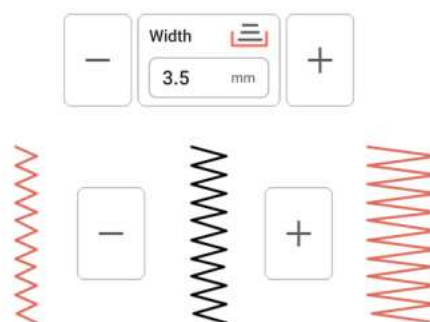
⚠ Tips:

1. To restore default values, press 
2. For straight stitches or triple stretch stitches, changing the stitch width will shift the needle position.
 - Increasing the width moves the needle to the right.
 - Decreasing the width moves the needle to the left.

After adjusting stitch width or “L/R Shift,” slowly turn the handwheel toward yourself (counterclockwise) to check that the needle does not hit the presser foot. Needle contact with the presser foot may cause bending or breakage.

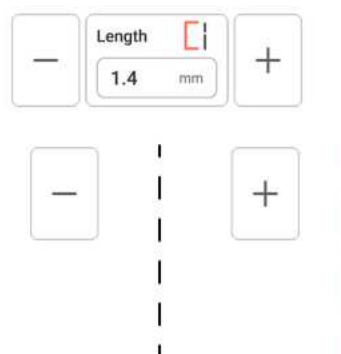
Stitch Width

Adjust the zigzag stitch width to make it wider or narrower.



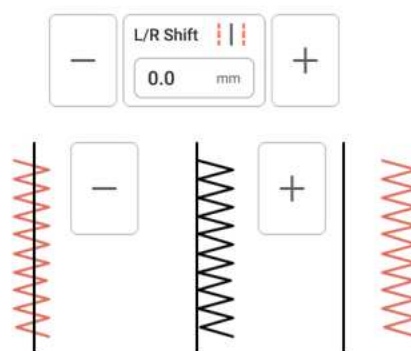
Stitch Length

Adjust the stitch length to make stitches longer (coarser) or shorter (finer).



“L/R Shift”

Move the stitch position to the left or right to change the zigzag stitch location.

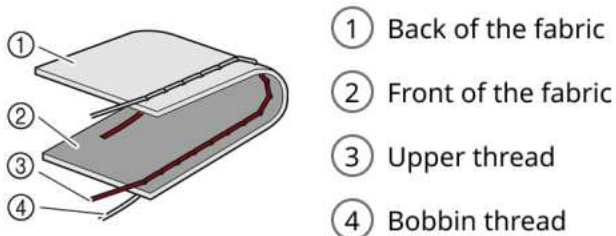


Adjusting Sewing Tension

Depending on the fabric and thread being used, you may need to adjust the thread tension.

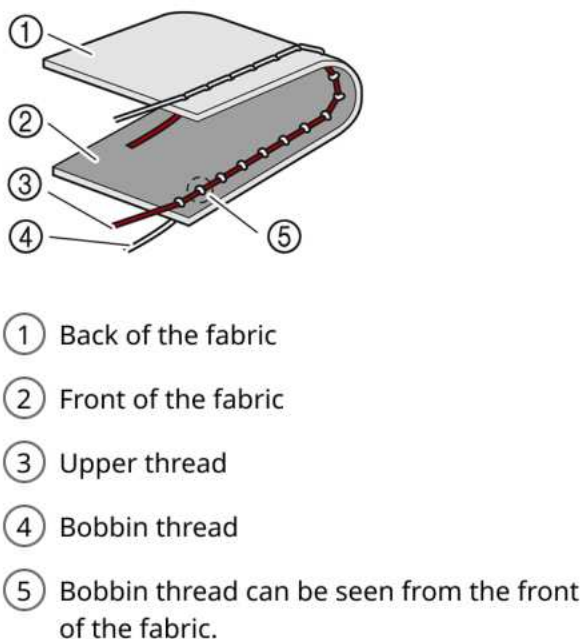
Correct Thread Tension

The upper thread and bobbin thread should cross near the middle of the fabric. From the front of the fabric, only the upper thread should be visible, and from the back of the fabric, only the bobbin thread should be visible.



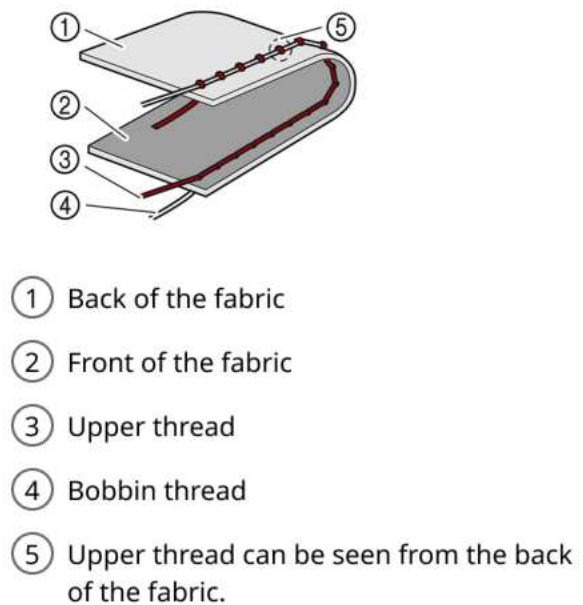
Upper Thread Too Tight

If the bobbin thread can be seen from the front of the fabric, the upper thread is too tight. Loosen the thread tension.



Upper Thread Too Loose

If the upper thread can be seen from the back of the fabric, the upper thread is too loose. Tighten the thread tension.



⚠ Tips:

If the upper thread is not threaded correctly or the bobbin is not installed correctly, proper thread tension cannot be set. If you cannot achieve the correct thread tension, rethread the upper thread and insert the bobbin correctly.

Useful Sewing Tips

Sewing Tips

Test Stitching

1. Before starting to sew a project, we recommend doing a test stitch using the same thread and scrap fabric as in your project.
2. Check the stitching results, and adjust the thread tension as well as stitch length and width according to the number of fabric layers and the type of stitches.

⚠ Tips:

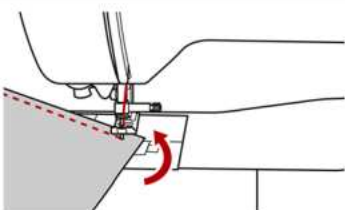
1. Fabric thickness, stabilizers, and other factors can also affect the stitches, so always test a few stitches before starting your project.
2. When sewing decorative satin stitches or satin stitch patterns, stitches may pucker or wrinkle, so be sure to use stabilizer.

Changing Sewing Direction

When the stitches reach a corner, stop the machine.

- 1 Keep the needle in the lowered position (in the fabric). If the needle stays up when the machine stops, press (needle position button) to lower the needle.

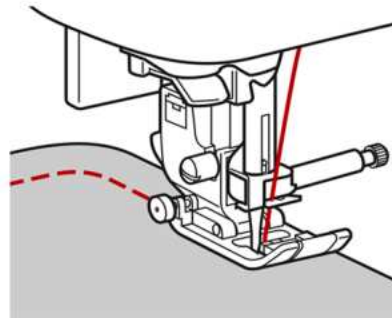
- 2 Raise the presser foot lever, then rotate the fabric. Use the needle as the pivot while rotating the fabric.



- 3 Lower the presser foot lever and continue sewing.

Sewing Curves

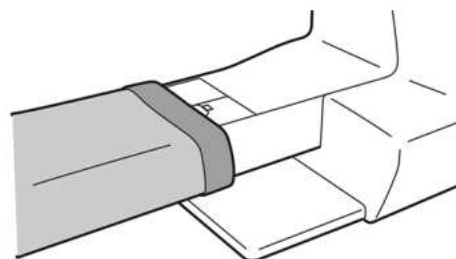
1. Sew slowly while slightly changing the sewing direction to follow the curve.
2. When using zigzag stitches along a curve, choosing a shorter stitch length can produce better results.



Sewing Tubular Fabric

Remove the extension table to use the free arm, which makes it easier to sew tubular fabric such as cuffs and pant legs.

- 1 Slide the part to be sewn onto the free arm, then sew from the top.



- 2 After finishing free arm sewing, reinstall the extension table to its original position.

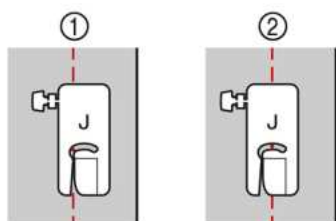
Useful Sewing Tips

Sewing Even Seams

To sew even seams, position the edge of the fabric on the right side of the presser foot at the start, and align the fabric edge with the right side of the presser foot or the markings on the needle plate.

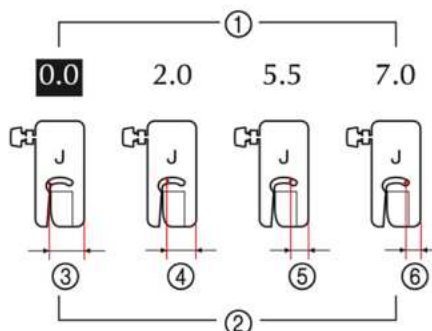
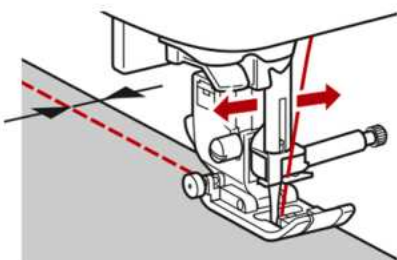
• Changing Needle Position

When used as a baseline, the needle position differs for straight stitches (left needle position) and straight stitches (middle/center needle position).



- ① Straight stitch (left needle position)
- ② Straight stitch (middle/center needle position)

When the straight stitch (left needle position) stitch width is set to the standard setting (0.0 mm), the distance from the needle position to the right side of the presser foot is 12 mm. If the stitch width is changed (between 0 and 7.0 mm), the needle position will also change. By changing the stitch width and aligning the fabric edge with the right side of the presser foot while sewing, you can sew seams with a fixed width.



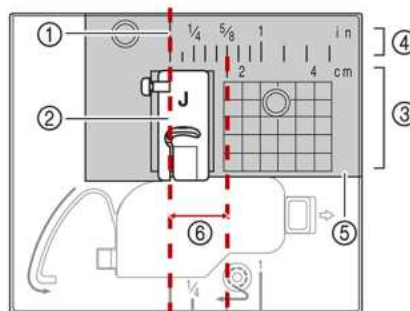
- ① Stitch width setting
- ② Distance from needle position to right side of presser foot
- ③ 12.0 mm ④ 10.0 mm ⑤ 6.0 mm ⑥ 5.0 mm

• Aligning Fabric with Needle Plate Markings

The markings on the needle plate indicate the distance from the needle position when sewing seams with a straight stitch (left needle position). Sew while keeping the fabric edge aligned with the needle plate markings. The distance between marks on the upper ruler is 3 mm, and the distance between marks in the grid is 5 mm.

For left needle position stitches (stitch width: 0.0 mm)

For left needle position stitches (stitch width: 0.0 mm)

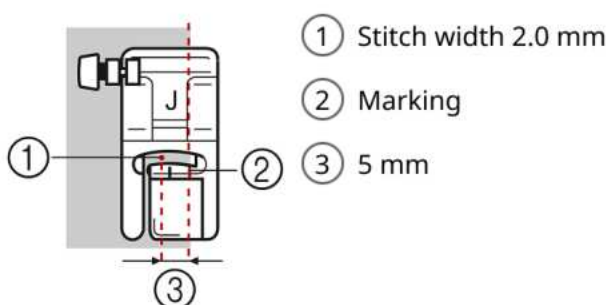


- ① Seam ② Presser foot ③ cm
- ④ inch ⑤ Needle plate ⑥ 1.6 cm

Useful Sewing Tips

• Aligning Fabric with Zigzag Foot “J”

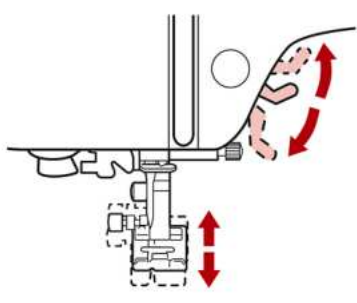
The markings on zigzag foot “J” can be used to sew stitches about 5 mm from the fabric edge. When using this feature, select a straight stitch and set the stitch width to 2.0 mm.



Sewing Various Fabrics

• Sewing Thick Fabrics

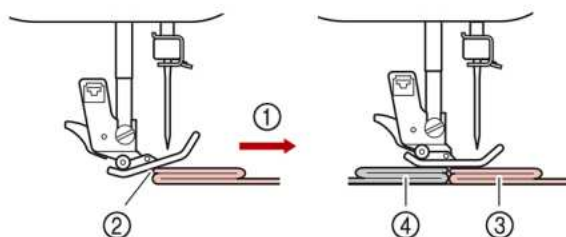
If the fabric does not fit under the presser foot the presser foot lever can be raised to two different positions. If the fabric cannot be placed under the presser foot when sewing thick fabrics or similar, raise the presser foot lever to the highest position so the fabric can fit under the presser foot.



If the fabric cannot be fed

When sewing thick fabrics such as coarse twill or quilting, if the presser foot is not level, the fabric may not feed at the start of sewing, as shown below. In this case, use the presser foot leveling button (black button on the left) of zigzag foot “J” to keep the presser foot level while sewing, allowing the fabric to feed smoothly.

If the presser foot tilts too much, place thick paper or fabric (matching the thickness of the fabric being sewn) under the back of the presser foot so sewing can start smoothly.

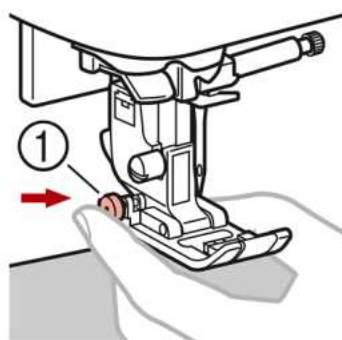


- ① Sewing direction
- ② Tilt
- ③ Fabric being sewn
- ④ Fabric or thick paper

1 Raise the presser foot lever.

2 Align the starting position of the stitch, then sew the fabric.

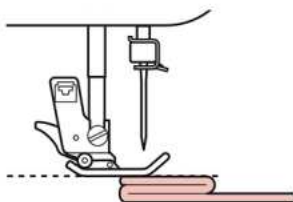
3 Hold zigzag foot “J” level, press and hold the presser foot leveling button (black button on the left), then lower the presser foot lever.



① Presser foot leveling button (black button)

Useful Sewing Tips

- 4 Release the presser foot leveling button (black button).



The presser foot remains level, allowing the fabric to feed.

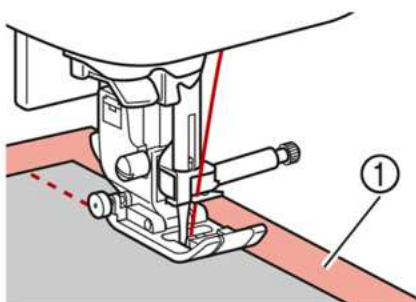
After sewing the seam, the presser foot will return to its original angle.

⚠ Tips:

If the fabric thickness exceeds 6 mm or excessive force is applied when feeding the fabric, the needle may bend or break.

• Sewing Thin Fabrics

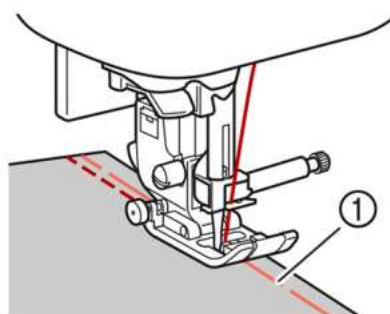
When sewing thin fabrics such as chiffon, stitches may skew or the fabric may not feed properly. Move the needle (ensure a fine needle is used) to the far left or right position so the fabric does not pull down into the feed dog area. If this occurs or stitches pucker, place water-soluble non-woven stabilizer under the fabric and sew them together.



- ① Water-soluble stabilizer (non-woven)

• Sewing Stretch Fabrics

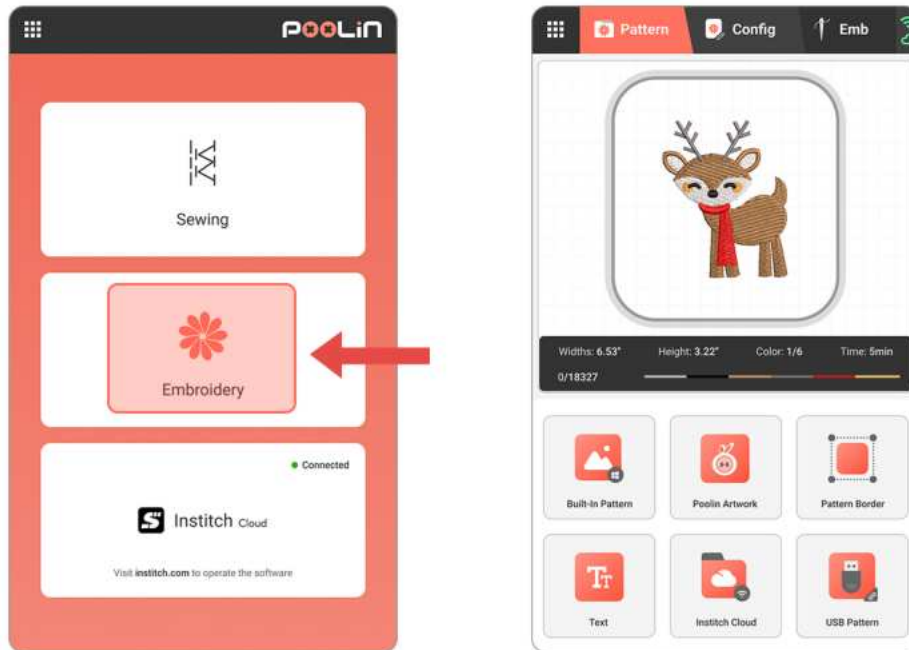
First, baste multiple layers of fabric together, then sew while preventing the fabric from stretching. If stitches skew, place water-soluble non-woven stabilizer under the fabric and sew them together.



- ① Basting

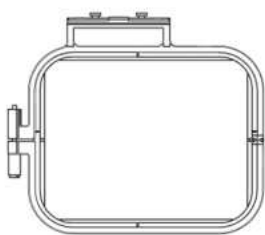
Embroidery Mode Operation Guide

Before introducing the embroidery hoop, please set the machine mode to “Embroidery.”

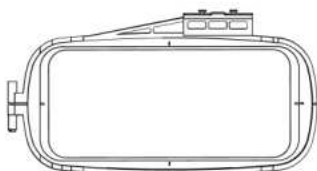
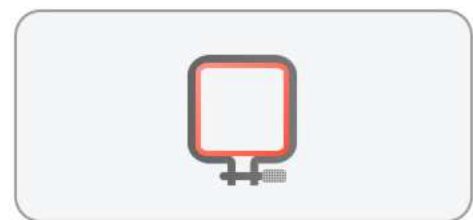


⚠ Tips:

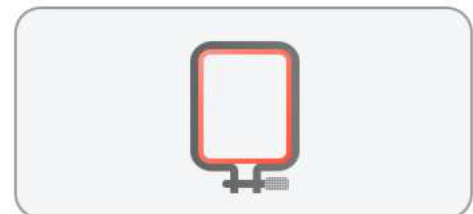
Embroidery frame needs to be chosen according to the size of patterns, embroidery area should be larger than pattern.



Embroidery Area:
100mm * 100mm
4" * 4"



Embroidery Area:
100mm * 235mm
4" * 9.25"



Note: The attached embroidery frame must match the corresponding embroidery frame displayed on the screen, otherwise the frame collision may occur, resulting in damage to the machine.

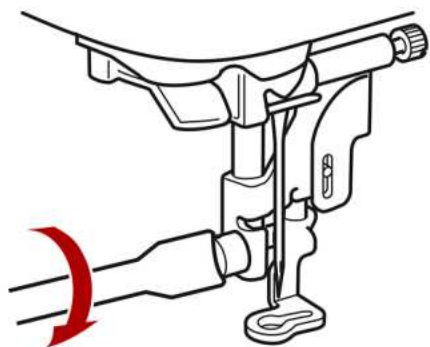
Presser Foot Holder Install/Remove

Remove the presser foot holder when cleaning the machine or when installing a presser foot that does not require the holder (such as an embroidery foot).

Removing the Presser Foot Holder

1 Remove the presser foot (see the “Changing the Presser Foot” tutorial).

2 Loosen the presser foot holder screw by turning it toward the back of the machine (counterclockwise) with a screwdriver.



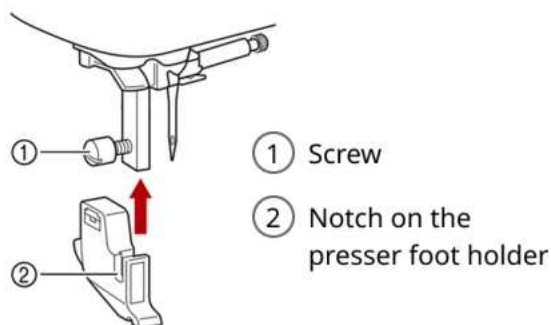
⚠ Tips:

A disc-shaped screwdriver can be used to loosen or tighten the screw.

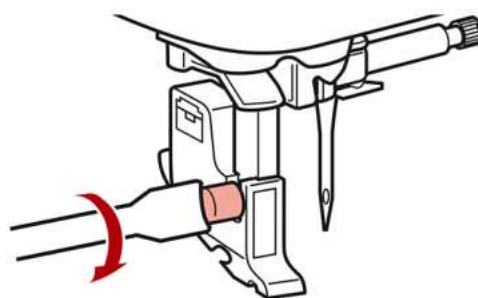
Installing the Presser Foot Holder

1 Raise the presser foot lever.

2 Align the notch on the presser foot holder with the screw.



3 Hold the presser foot holder with your right hand, and tighten the screw with your left hand by turning it toward yourself (clockwise).




⚠ Tips:

Be sure to tighten the presser foot holder screw securely. If it is loose, the holder may fall off, and the needle may hit the holder, causing it to bend or break.

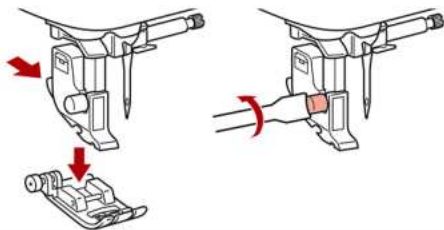
Change Embroidery Presser Foot

Always use the embroidery presser foot when embroidering. Using other presser feet may cause the needle to hit the presser foot, resulting in bent or broken needles and possible injury.

- 1 Press the [ physical button] (needle button position) twice to raise the needle.

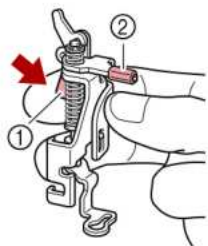
Remove the presser foot and presser foot holder.

- 2 For details, see the "Changing the Presser Foot" section.



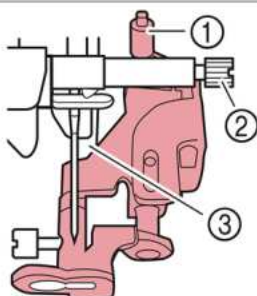
As shown, hold the embroidery presser foot with your right hand.

- 3 Hold the presser foot and press the control lever on the back with your index finger.



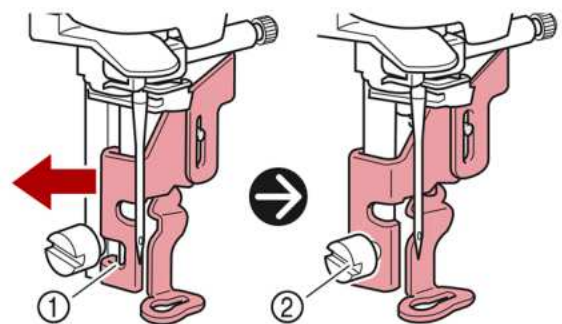
- ① Control Lever
- ② Embroidery Presser Foot Bar

- 4 Press down the control lever and attach the presser foot bar to the needle clamp screw.



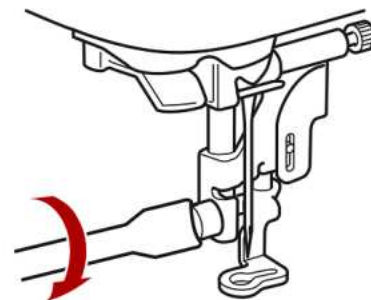
- ① Embroidery Presser Foot Bar
- ② Needle Clamp Screw
- ③ Presser Foot Bar

- 5 Secure the presser foot with the presser foot holder screw, making sure it is vertical.



- ① Installation Slot
- ② Presser Foot Holder Screw

- 6 Hold the presser foot with your right hand and use the supplied screwdriver to firmly tighten the presser foot holder screw.



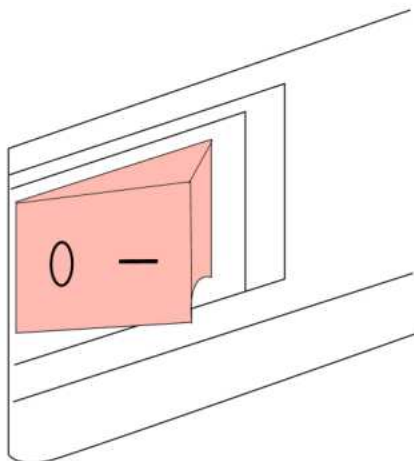
⚠ Tips:

Use the supplied screwdriver to tighten the presser foot screw firmly. If the screw is loose, the needle may hit the presser foot and cause injury.

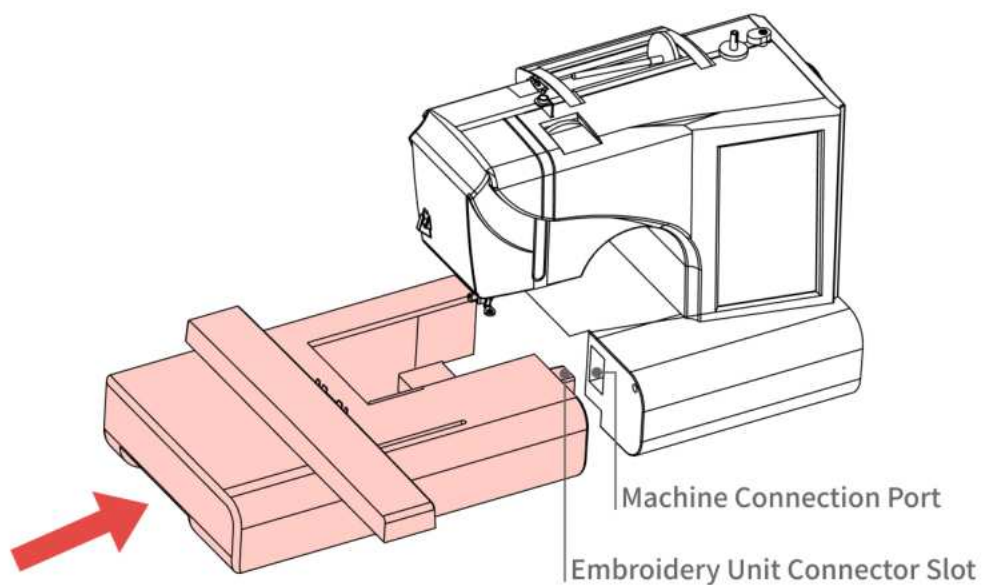
Install the Embroidery Unit

Install the Embroidery Unit

1. Turn off the machine.



2. Gently slide the embroidery unit onto the machine arm until it clicks and stops.



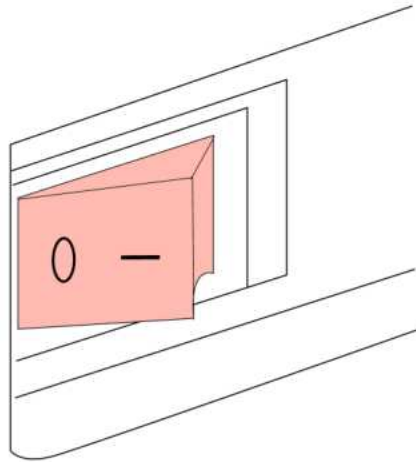
⚠ Tips:

Please make sure the machine is off before attaching the embroidery unit, otherwise the machine will be damaged.

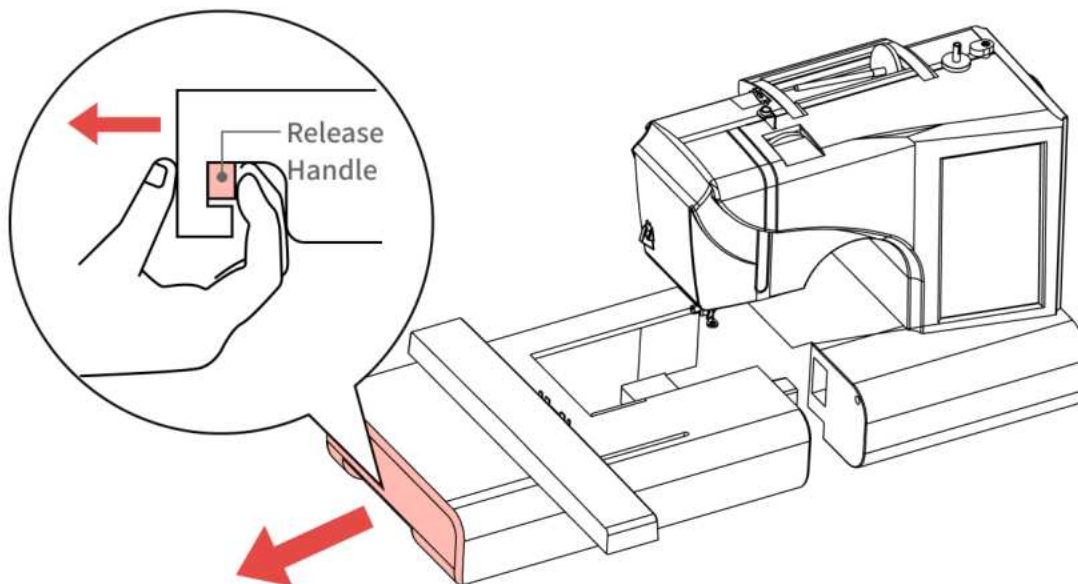
Remove the Embroidery Unit

Remove the Embroidery Unit

1. Turn off the machine.



2. Hold the release button on the bottom of the embroidery unit, and pull the embroidery unit horizontally until it is completely detached from the machine.

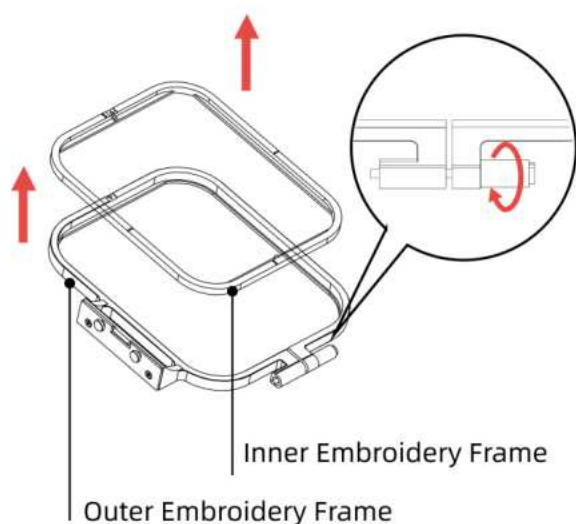


⚠ Tips:

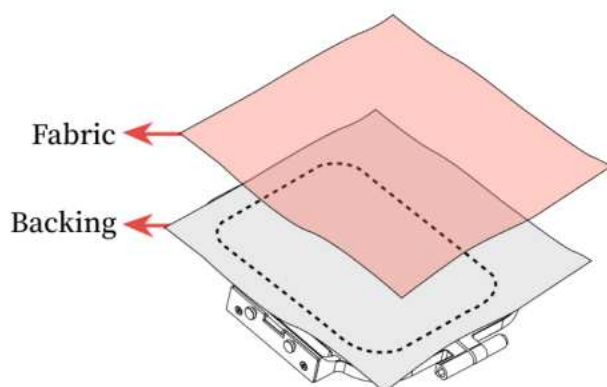
Please make sure the machine is off before attaching the embroidery unit, otherwise the machine will be damaged.

Attach the Frame and Fabric

- 1 Loosen the embroidery frame adjustment screw and remove the inner frame.



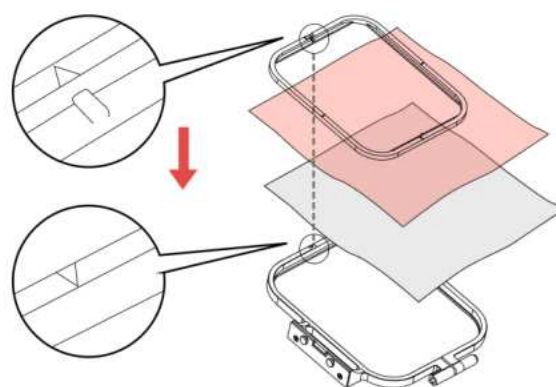
- 2 Place the stabilizer on top of the outer embroidery frame, and lay the fabric face up on top of the stabilizer.



⚠ Tips:

The stabilizer and fabric should be larger than the area of the embroidery frame to ensure the fabric can be fixed on the frame and avoid misalignment of embroidery.

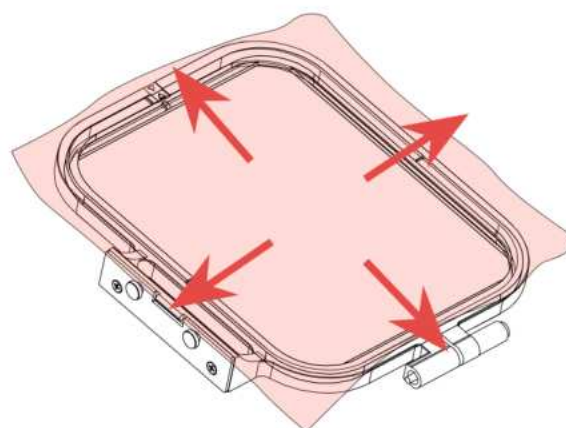
- 3 Press the inner frame in from the top of the fabric and make sure the inner frame is aligned with the outer frame.



⚠ Tips:

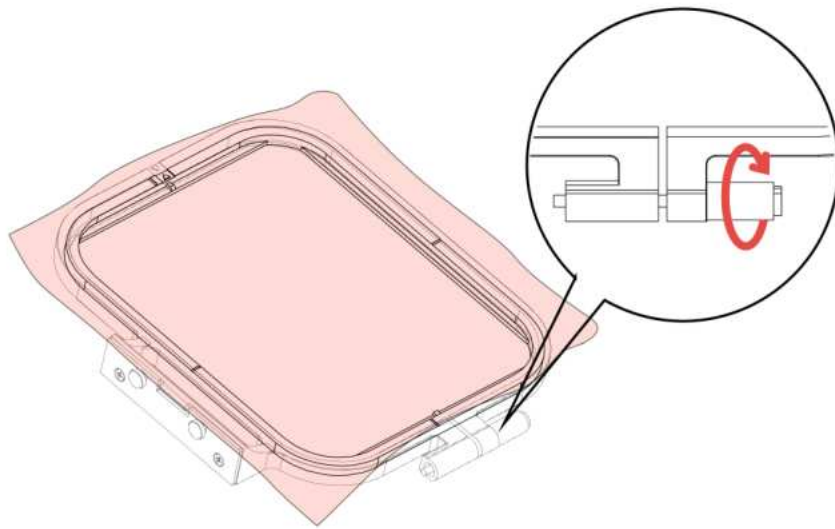
Line up \triangle on the inner frame and ∇ on outer.

- 4 Gently stretch the edges and corners of the fabric to remove the wrinkle.

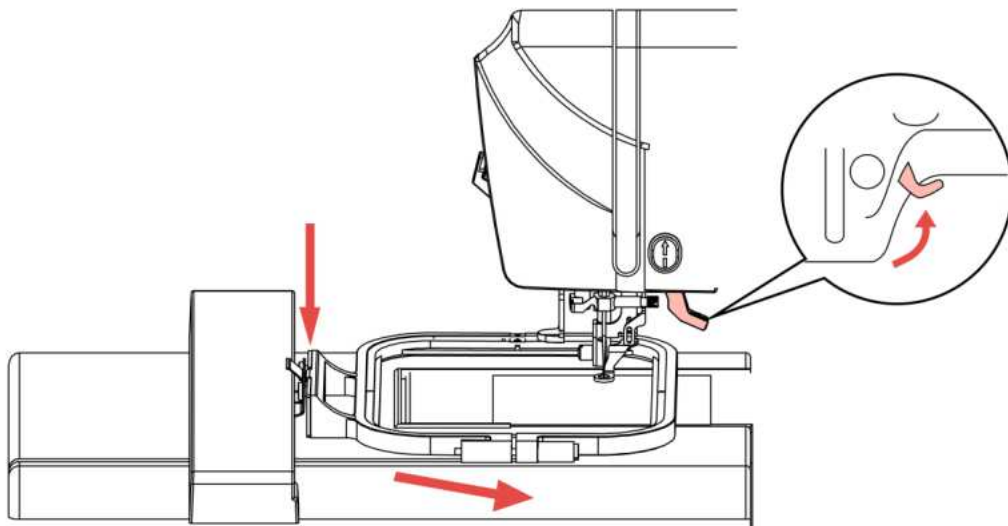


Attach the Frame and Fabric

- 5 Tighten the frame adjustment screw to remove the slack in the fabric.



- 6 Raise the presser foot lever, attach the frame on the rail, press the frame down to insert the frame guide into the embroidery carriage frame holder from the top.

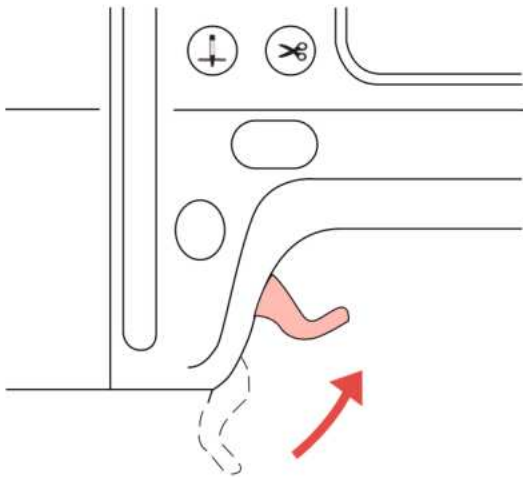


⚠ Tips:

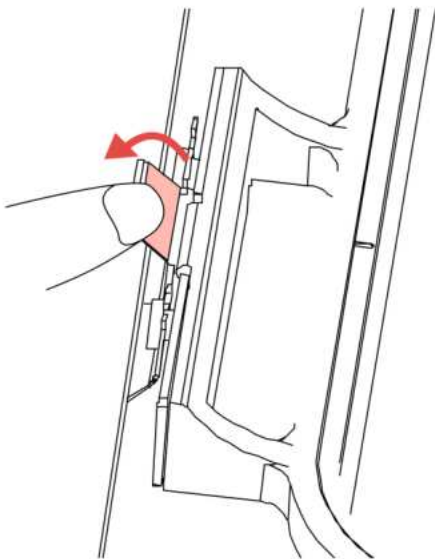
If the height of the presser foot is not enough to attach the frame, you can continue to raise the presser foot lever to make it higher, so as to ensure the smooth installation of the embroidery frame.

Detach the Frame

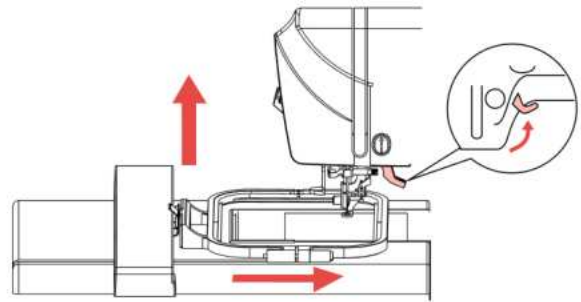
1 Raise the presser foot lever.



2 Press the part of the embroidery frame holder to the left side as shown in the figure below.

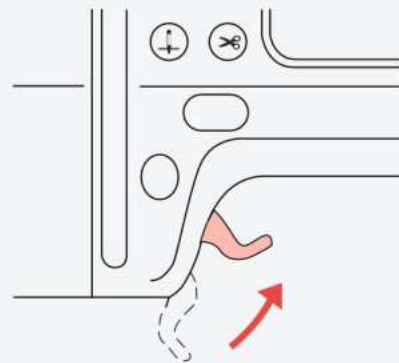


3 Raise the embroidery frame, make it separate from the embroidery frame holder and remove the frame.



⚠ Tips:

If the height of the presser foot is not enough to remove the frame, you can continue to raise the presser foot lever to make it higher, so as to ensure the smooth remove of the embroidery frame.



How to Adjust the Upper Thread Tension

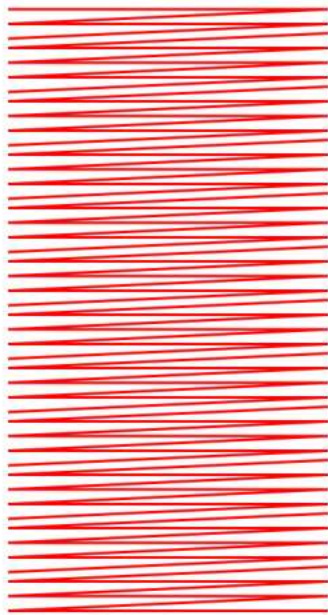
When embroidering, the correct standard of thread tension should be:

- 1.The top thread is slightly visible on the back of the fabric.
- 2.The front of the fabric can not see the bottom thread at all and there is no floating thread on the surface.



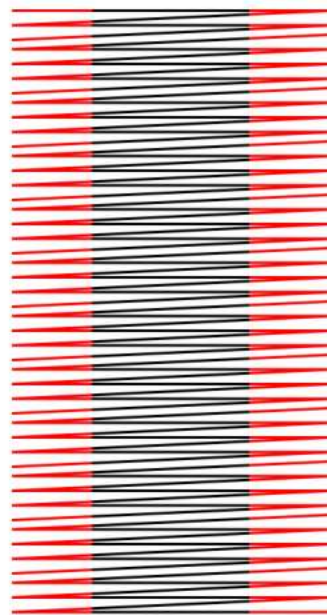
Correct Tension Display Diagram

Fabric front



● Red is upper thread

Fabric back



● Black is bottom thread

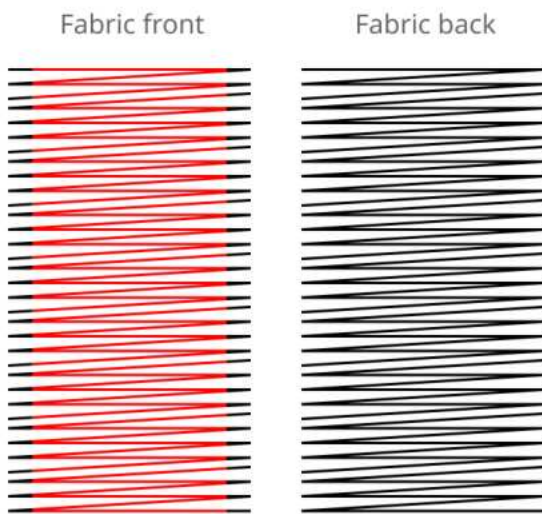
⚠ Tips:

If the upper thread tension is not set correctly, it will lead to poor embroidery effect, thread jamming, thread breakage and needle breakage.

How to Adjust the Upper Thread Tension



Incorrect Tension Display Diagram

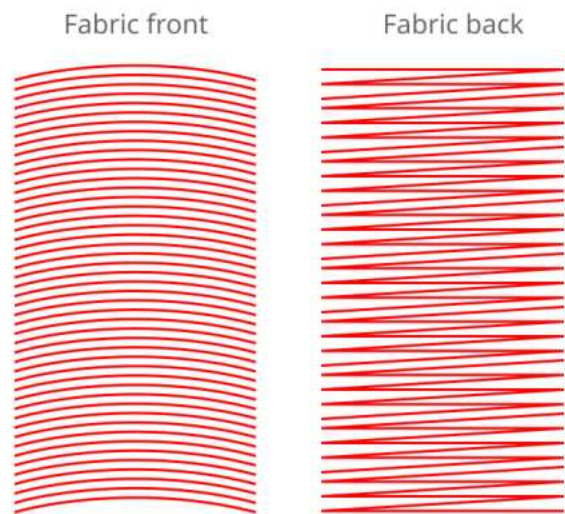
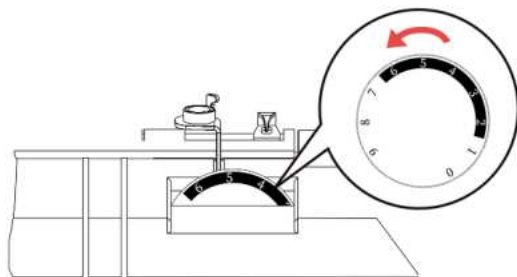


Upper thread too tight

If the tension of the upper thread is too tight, the bottom thread will be visible from the front of the fabric.

Adjustment Steps:

Turn the tension adjustment dial to the left to decrease the value to decrease the tension.

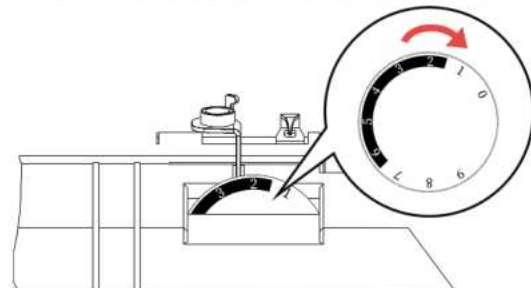


Upper thread too loose

If the tension of the upper thread is too loose, the floating thread can be seen from the front of the fabric, and the bottom thread can hardly be seen from the reverse side.

Adjustment Steps:

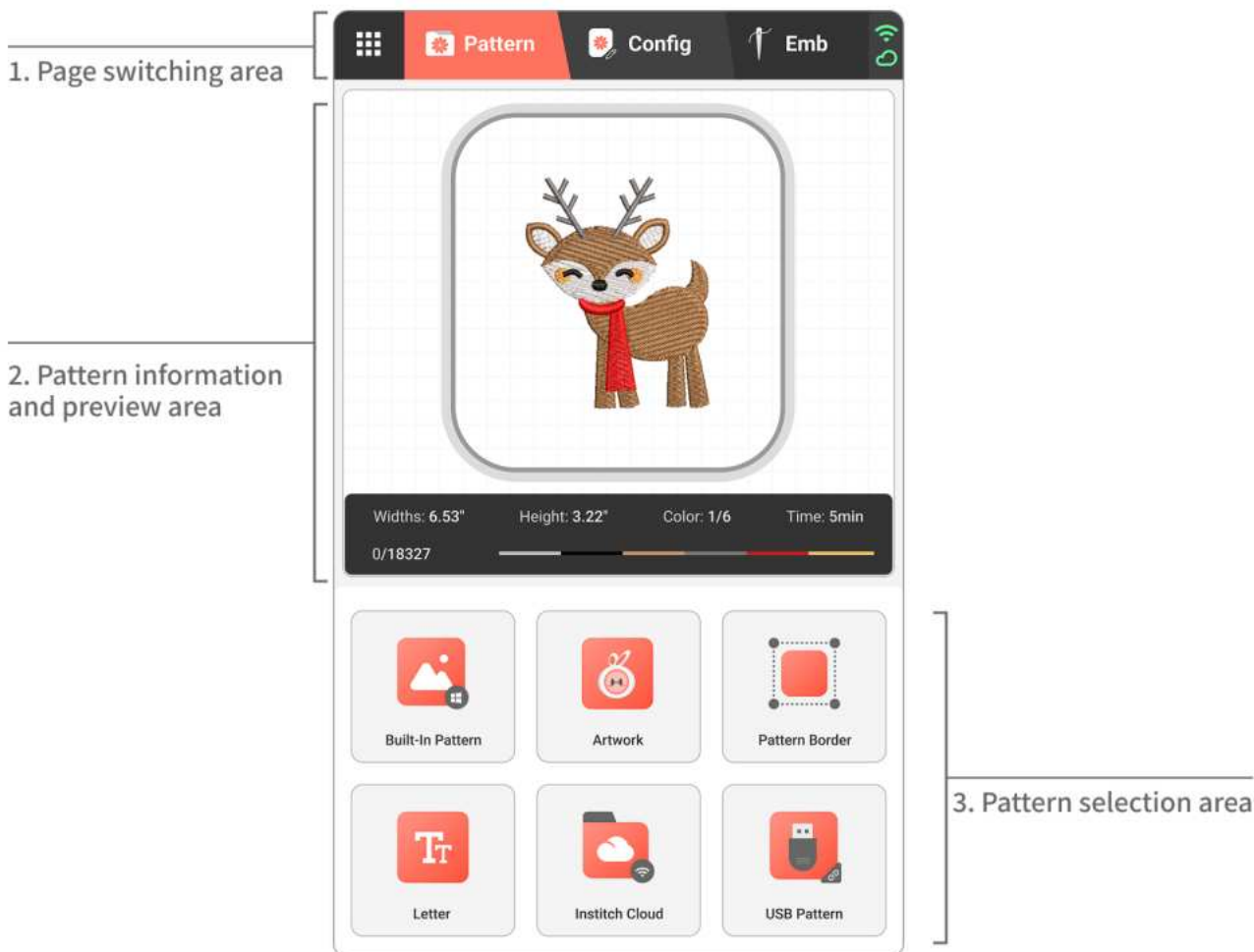
Turn the tension adjustment dial to the right to increase the value to increase the tension.







⚠ Tips:

The larger the value corresponding to the dial, the greater the upper thread tension. Please adjust the appropriate tension according to different fabrics and designs. The general fabric tension dial should be between 3-5.

Pattern Selection Page Introduction



1. Page switching area

Contents	Description
	Set page.
	Pattern selection page.
	Pattern editing page. You cannot enter this page without selecting a pattern.
	Embroidery status page. You cannot enter this page without selecting a pattern.

Pattern Selection Page Introduction

Contents

Description



Wi-Fi Signal Status & Pattern Sync Switch

- Strong Wi-Fi signal; pattern sync is enabled
- Good Wi-Fi signal; pattern sync is enabled
- Weak Wi-Fi signal; pattern sync is enabled
- Strong Wi-Fi signal; pattern sync is disabled

2. Pattern information and preview area

Contents

Description



Display the position of the pattern in the selection frame.

Displays the actual position of the pattern within the current embroidery frame.



If the pattern exceeds the frame area, the preview zone will show a red gradient as a warning, prompting the user to make adjustments.

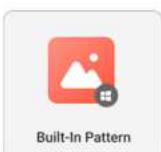
Widths: 6.53" Height: 3.22" Color: 1/6 Time: 5min
0/18327

Displays basic pattern information (such as size, stitch count, etc.) and the embroidery sequence.

3. Pattern Selection Area

Contents

Description

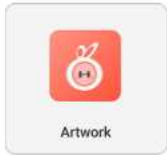


Built-in Patterns

Pattern Selection Page Introduction

Contents

Description



Built-in Poolin IP Characters



Built-in Lace Patterns



Custom Letter Embroidery

Use the built-in keyboard to enter text and generate embroidery patterns instantly.



Institch Cloud Folder

Once the device is bound and transmission is complete, patterns in this folder will automatically sync to the Institch Cloud Platform.



USB Patterns

1. After inserting a USB drive, the system will automatically detect compatible pattern files. You can select and start embroidering immediately—no download required.
2. Tap the “Select” button to batch select multiple patterns and import them to the device.

Letter Embroidery



50

Description of Functions

Contents

Description

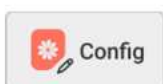


Font Selection Panel

1. Language: 8 built-in artistic fonts
2. Characters: A-Z, a-z, numbers, symbols, Latin letters



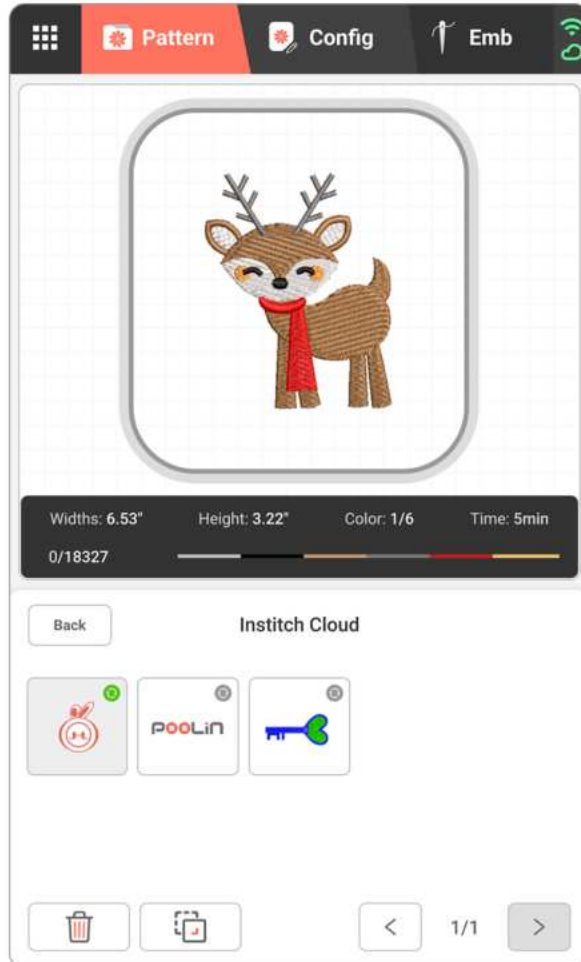
Adjust Letter Size






Letter Edit Shortcut

Tap to enter editing for style adjustments.

Institch Cloud Folder



Description of Functions

Contents	Description
	Delete Button Tap to select and delete multiple patterns.
	Combine Button Up to 8 patterns can be combined.
	Pattern List Pagination
	Cloud Sync Status Green: Synced to cloud Gray: Not synced

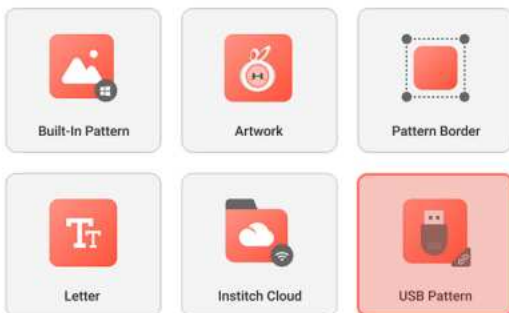
Import Patterns from USB to Machine

1. If a “USB not detected” message appears during import, please unplug and reinsert the USB or try a different USB device, then re-import.
2. The USB storage capacity must be less than 64GB and formatted as FAT32.
3. Do not remove the USB before the import is complete to avoid data loss.
4. This machine supports pattern files in DST/DSB formats. Other formats need to be converted using design software.

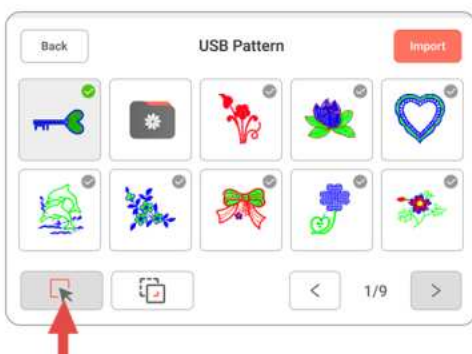
- 1 Insert the USB drive.



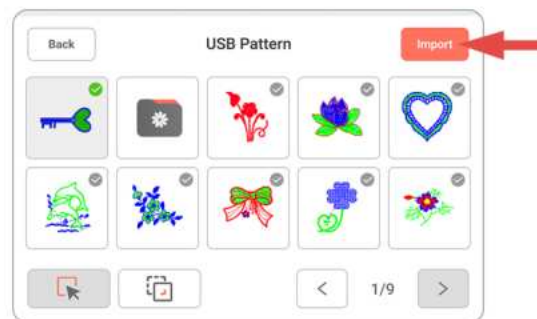
- 2 Tap USB Pattern.



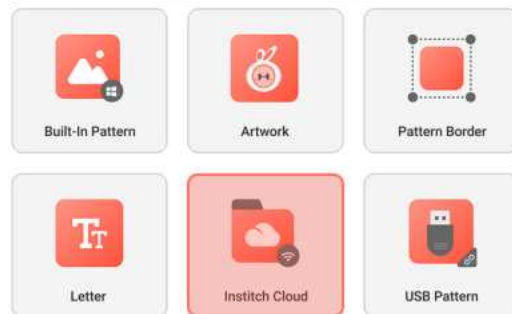
- 3 Tap the Select button.



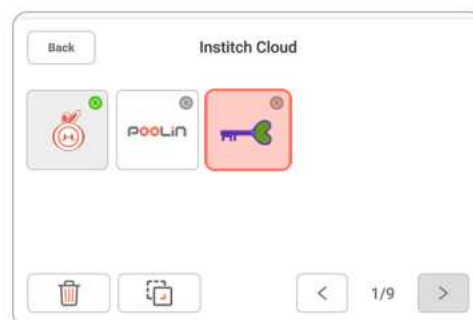
- 4 Choose the patterns you want to import, then tap Import.



- 5 Tap the Back button, then tap Institch Cloud.



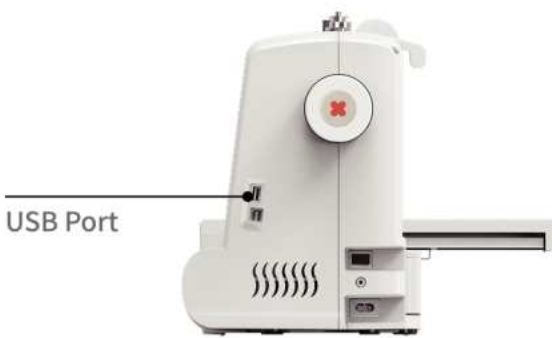
- 6 Imported patterns will appear in the Institch Cloud folder.



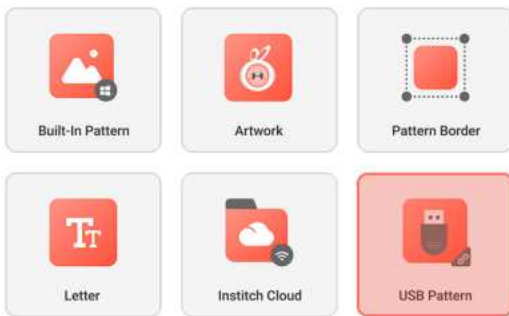
Direct Embroidery from Patterns on USB

1. The USB storage capacity must be less than 64GB and formatted as FAT32.
2. This machine supports pattern files in DST/DSB formats. Other formats need to be converted using design software.

1 Insert the USB drive.



2 Tap USB Pattern.



3 Select the pattern(s) you want to embroider.

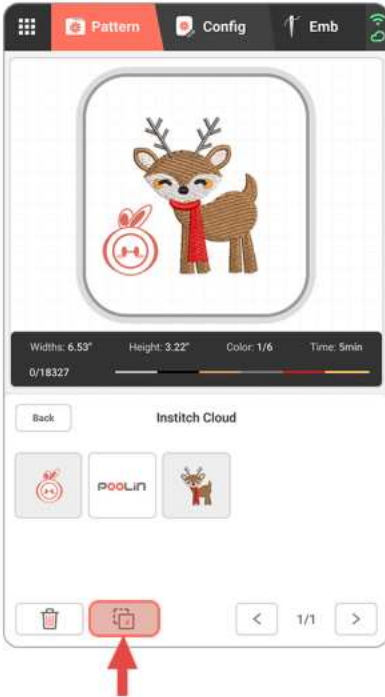


4 Tap the Back button.



Combine Multiple Patterns for Emb

- 1 Tap the Multi-Select button, then choose the patterns to combine.



⚠ Tips:

1. You can combine up to 8 patterns.
2. Supported sources include built-in patterns, Institch Cloud, letter patterns, and custom USB-imported patterns.

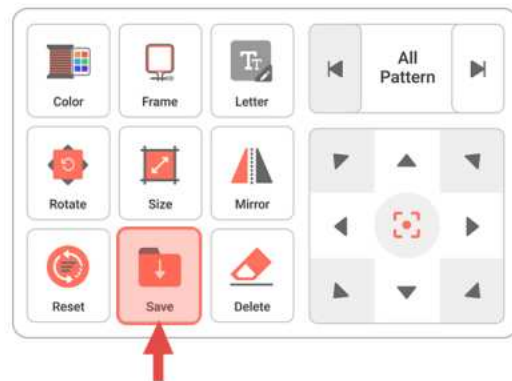
- 2 After selection, tap the Edit button.



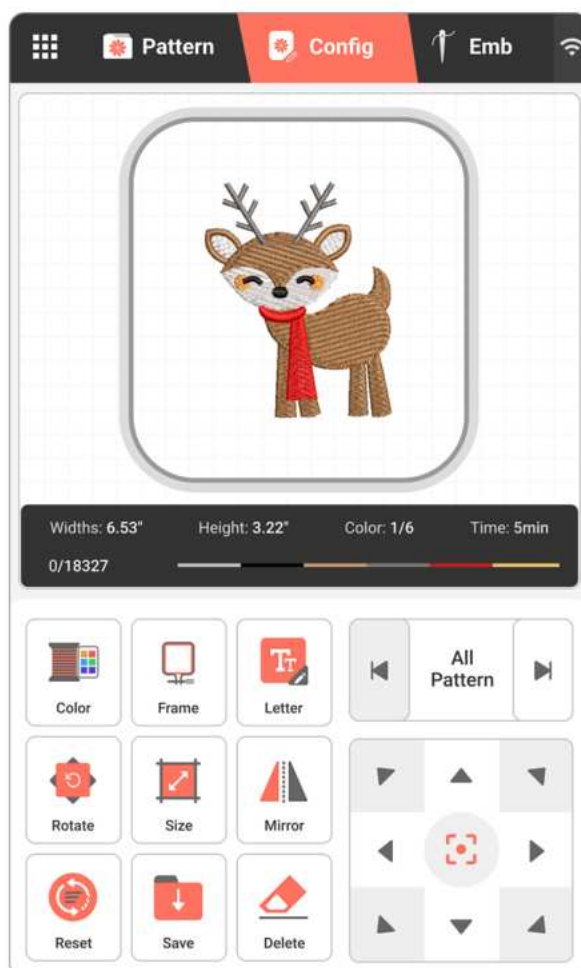
- 3 Use the left/right arrow keys to switch between patterns, edit them individually, or switch to Edit All mode.



- 4 To save the combined pattern, tap the Save button. It will be stored in the Institch Cloud folder.



Pattern Editing Page Introduction



Pattern Editing Panel

Pattern Editing Panel

Contents

Description



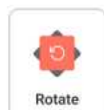
Color

Color setting page.



Frame




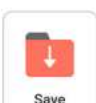



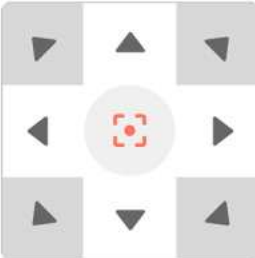
Embroidery frame selecting page.



Rotate

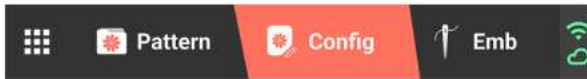
Pattern rotating page.

Pattern Editing Page Introduction

Contents	Description
	Pattern zoom page.
	Mirror Pattern Page
	Reset Edited Pattern After tapping the Reset button, the selected pattern will be cleared.
	Save Edited Pattern After tapping the Save button, a new pattern will be generated in Institch Cloud.
	Delete Edited Pattern After tapping the Delete button, the currently selected pattern will be deleted. In combination mode, use the left and right switch keys to select the pattern to delete.
	Edit Letter Pattern This button is only available when a letter pattern is selected.
	Select Combined Pattern <ol style="list-style-type: none">1. Use the left/right arrow buttons to switch between group selection and single selection.2. This function is disabled when only one pattern is selected.
	Move Pattern Within Frame Center: Move the pattern to the center of the display. Top Left: Move the pattern to the top-left of the display. Top Right: Move the pattern to the top-right of the display. Bottom Left: Move the pattern to the bottom-left of the display. Bottom Right: Move the pattern to the bottom-right of the display.

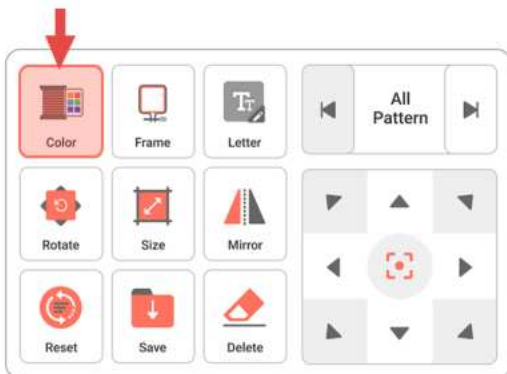
Set Pattern Colors

- 1 Select a pattern and tap Config.

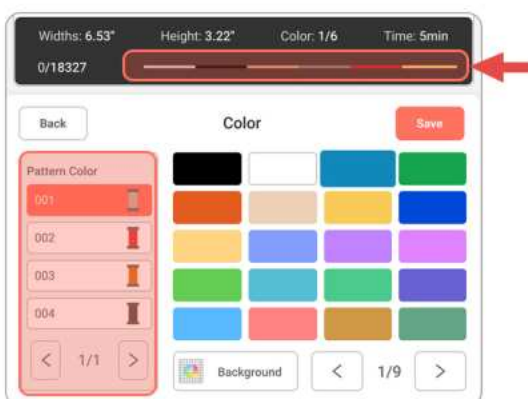


Note: You must select at least one pattern before entering the editing page.

- 2 Tap Color.



- 3 Choose a layer, then tap the color block on the right to fill it. The color will update in real time in the Pattern Info area.



- 4 After adjusting, tap Save to apply the changes.



! Tips:

If you're not satisfied with the selected colors, tap Back to discard changes.

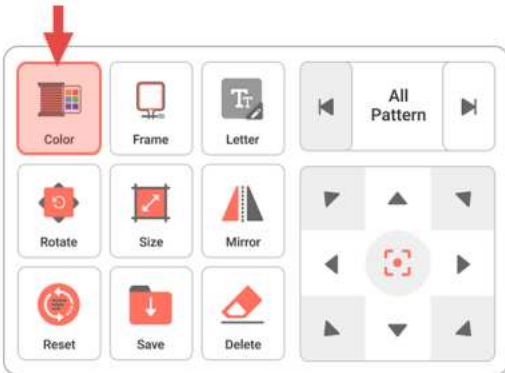
Set Preview Background Color

1 Select a pattern and tap Config.

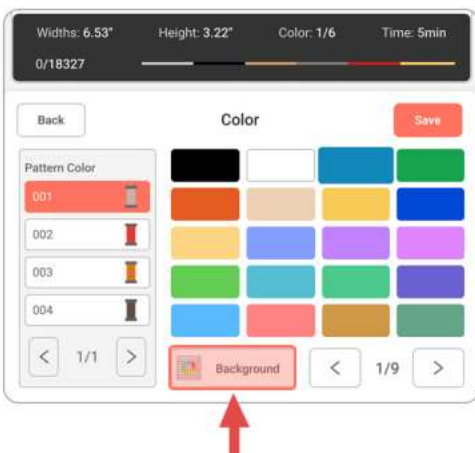


Note: You must select at least one pattern before entering the editing page.

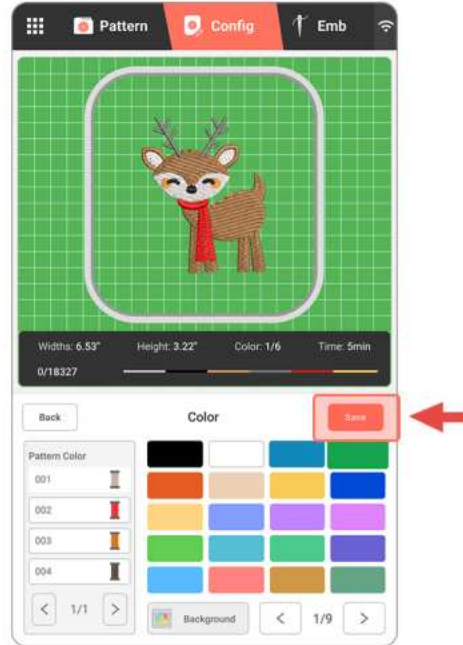
2 Tap Color.



3 Tap Background, then tap the color block on the right to fill it. The preview area will update in real time.



4 After adjusting, tap Save to apply the changes.



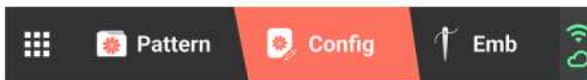
⚠ Tips:

If you're not satisfied with the selected background color, tap Back to discard changes.

Select Embroidery Frame

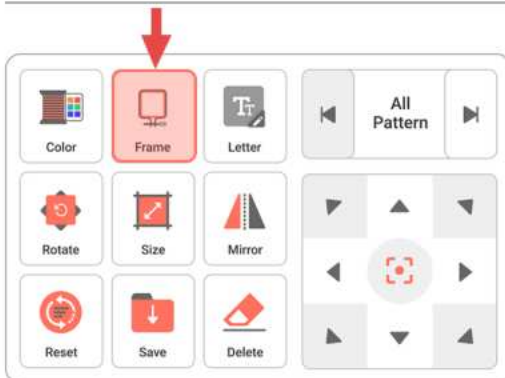
Note: The attached embroidery frame must match the corresponding embroidery frame displayed on the screen, otherwise the frame collision may occur, resulting in damage to the machine.

- 1 Select a pattern and tap Config.

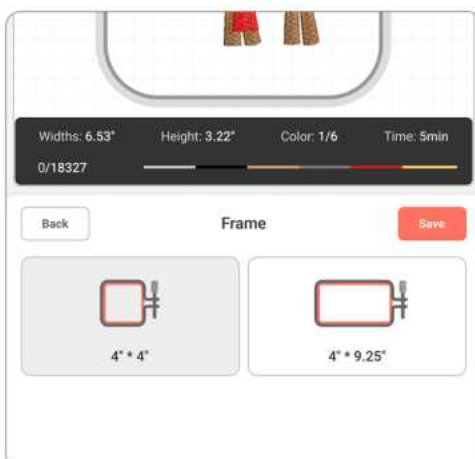


Note: You must select at least one pattern before entering the editing page.

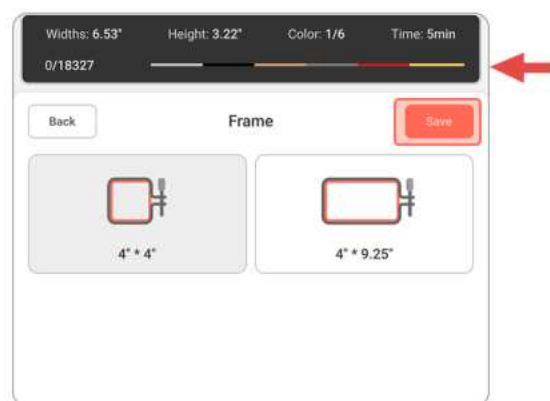
- 2 Tap Frame.



- 3 Choose the Appropriate Embroidery Frame



- 4 After adjusting, tap Save to apply the changes.



⚠ Tips:

When selecting a frame, the machine will automatically move to its origin position. Make sure there are no objects nearby to avoid collisions or damage.

⚠ Tips:

Ensure the embroidery area of the selected frame is larger than the pattern size.

Letter Editing

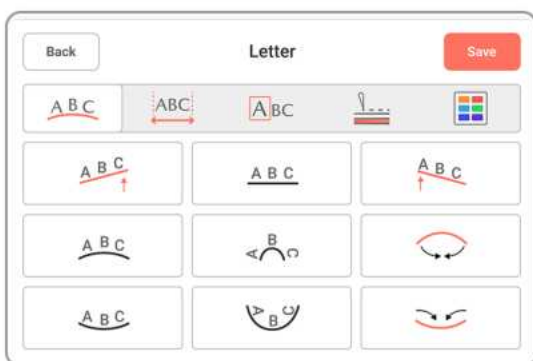


60

Description of Functions

Contents

Description



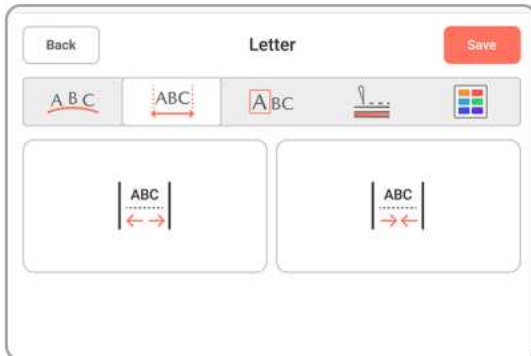
We offer commonly used text distortion effects to help you quickly create fun and unique styles:

1. Arch Up: Text curves upward like a rainbow.
2. Arch Down: Text curves downward, ideal for bottom arcs.
3. Italic: Slants the text for a dynamic look.

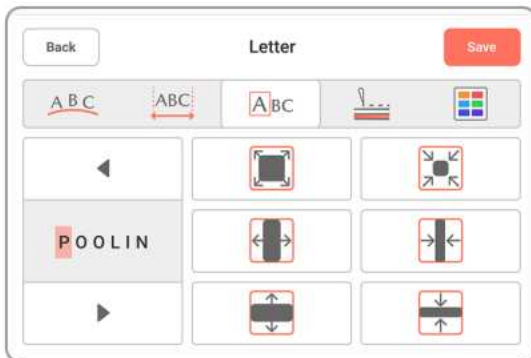
Letter Editing

Contents

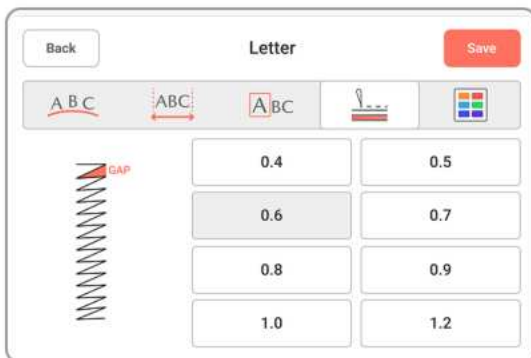
Description



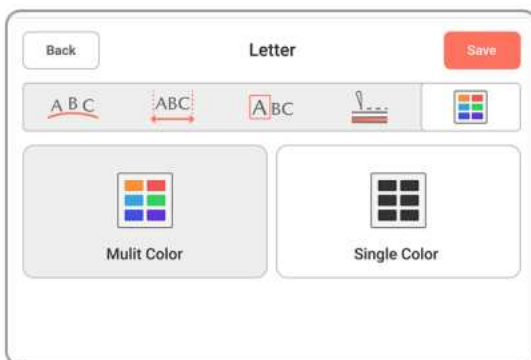
Adjust the spacing between letters freely.



Select a letter and adjust its size independently.



Freely adjust the distance between characters (range: 0.4–1.2). The smaller the number = the denser the stitches; The larger the number = the sparser the stitches.



Color Mode Switch:

Single Color: All letters use the same color.

Multi-Color: Assign different colors to each letter.

Rotate Pattern

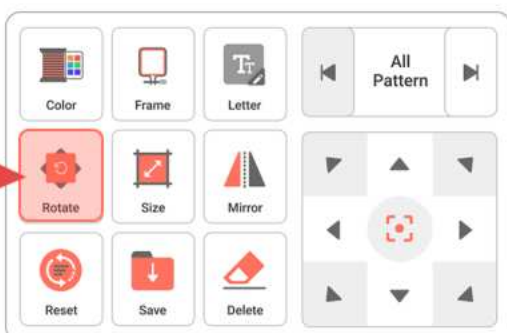
Note: Only edits within the frame range can be saved successfully, please pay attention to the border line of the frame in the preview area.

1 Select a pattern and tap Config.

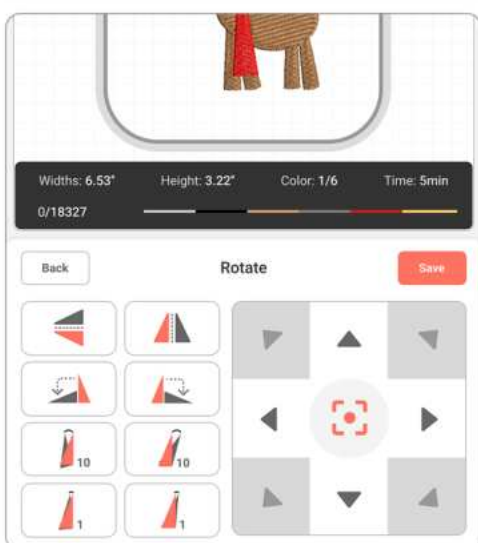


Note: You must select at least one pattern before entering the editing page.

2 Tap Rotate.



3 Rotate the pattern.



Rotate the pattern counterclockwise 90 degrees.



Rotate the pattern clockwise 90 degrees.



Rotate the pattern counterclockwise 10 degrees.



Rotate the pattern clockwise 10 degrees.



Rotate the pattern counterclockwise 1 degree.



Rotate the pattern clockwise 1 degree.

4 After adjusting, tap Save to apply the changes.

Scale Pattern

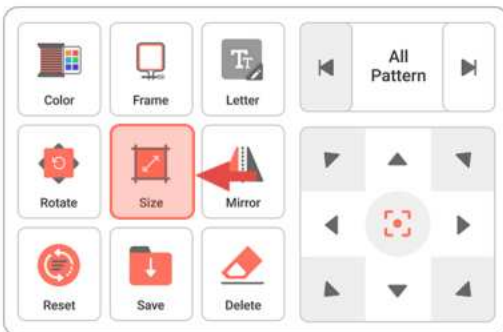
Note: Only edits within the frame range can be saved successfully, please pay attention to the border line of the frame in the preview area.

1 Select a pattern and tap Config.

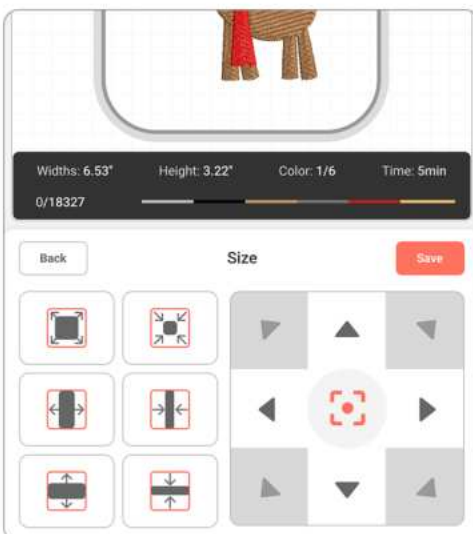


Note: You must select at least one pattern before entering the editing page.

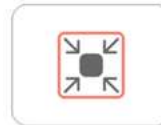
2 Tap Size.



3 Adjusting Pattern Size.



The pattern is enlarged along the center point.



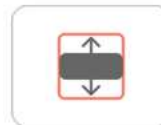
The pattern is shrinks along the center point.



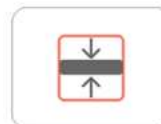
The pattern is enlarged along the X direction.



The pattern shrinks along the X direction.



The pattern is enlarged along the Y direction.



The pattern shrinks along the Y direction.

4 After adjusting, tap Save to apply the changes.

Mirror Pattern

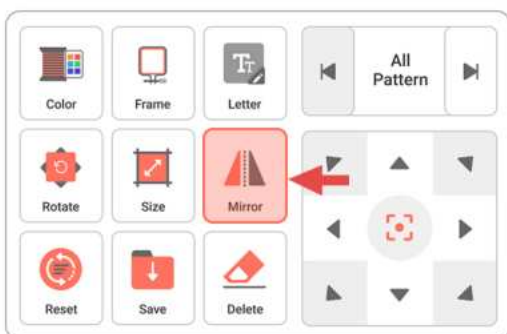
Note: Only edits within the frame range can be saved successfully, please pay attention to the border line of the frame in the preview area.

1 Select a pattern and tap Config.

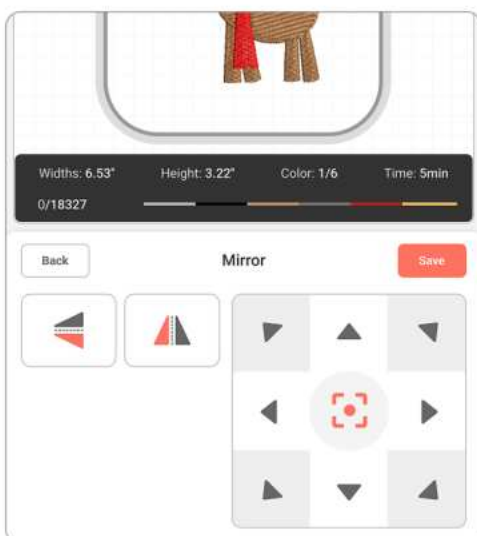


Note: You must select at least one pattern before entering the editing page.

2 Tap Mirror.



3 Mirror the pattern.



Flip Vertically



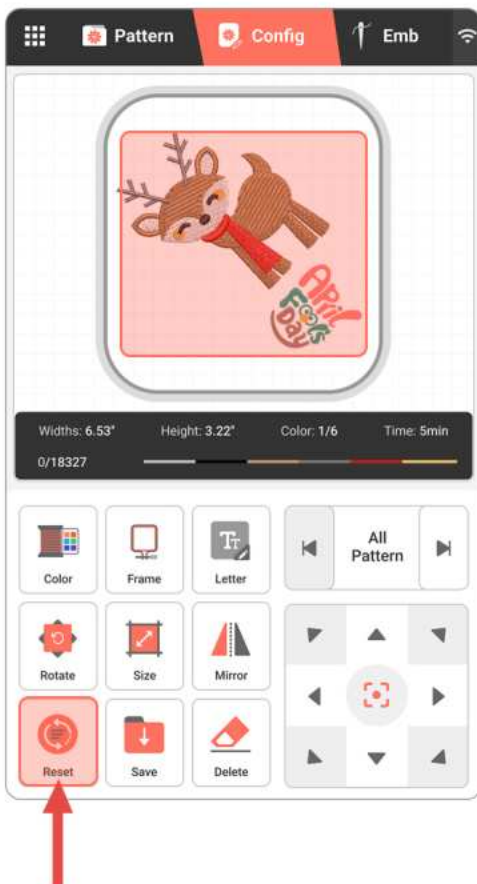
Flip Horizontally

4 After adjusting, tap Save to apply the changes.

Reset Edited Pattern

Note: Only edits within the frame range can be saved successfully, please pay attention to the border line of the frame in the preview area.

1 Click the Reset button.



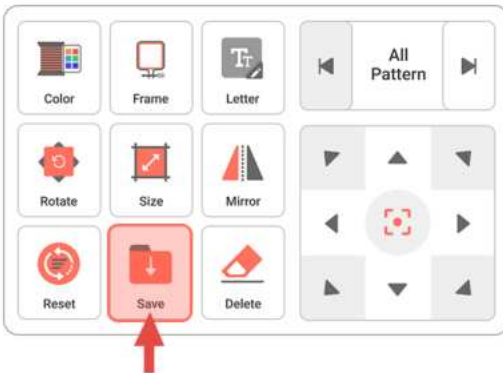
2 The pattern will be restored to its initial state.



Save Edited Pattern

Note: Only edits within the frame range can be saved successfully, please pay attention to the border line of the frame in the preview area.

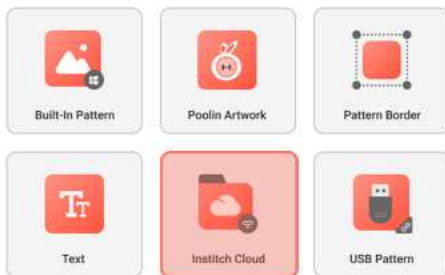
1 Tap the Save button to store the current pattern.



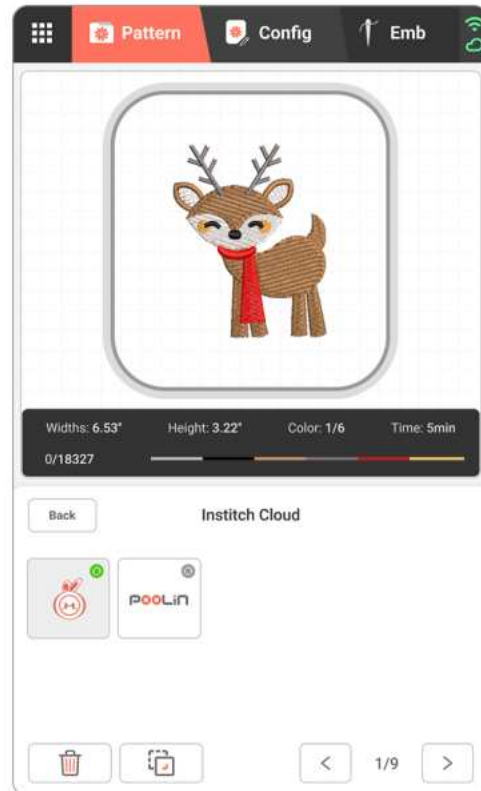
2 Tap the Pattern button.



3 Tap the Institch Cloud folder.



4 Patterns saved to the device will be listed here.



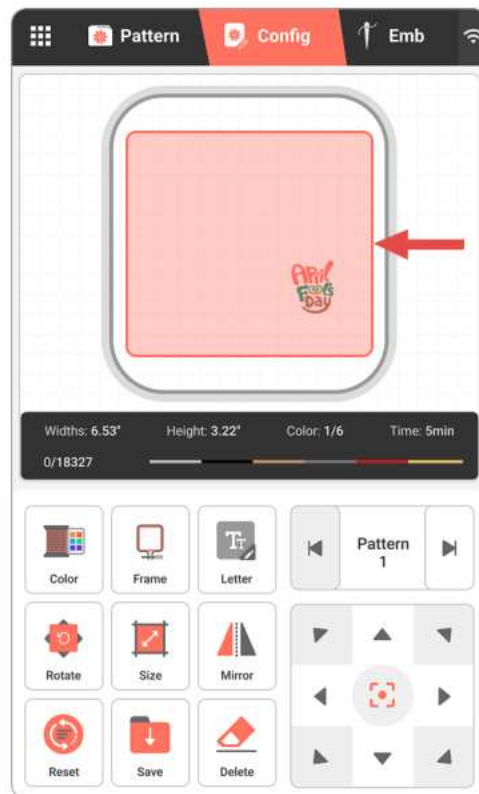
Delete Edited Pattern

Note: Only edits within the frame range can be saved successfully, please pay attention to the border line of the frame in the preview area.

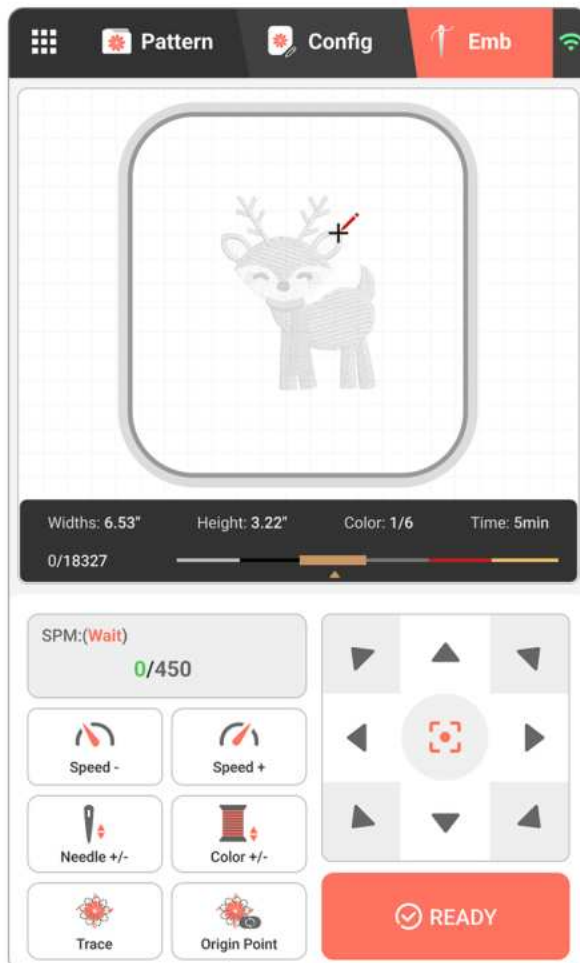
1 Click the Delete button.



2 The pattern will be deleted.



Pattern Embroidery Page Introduction

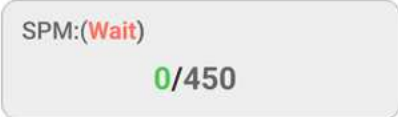



68








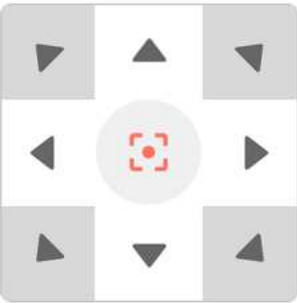
Description of Functions

Contents

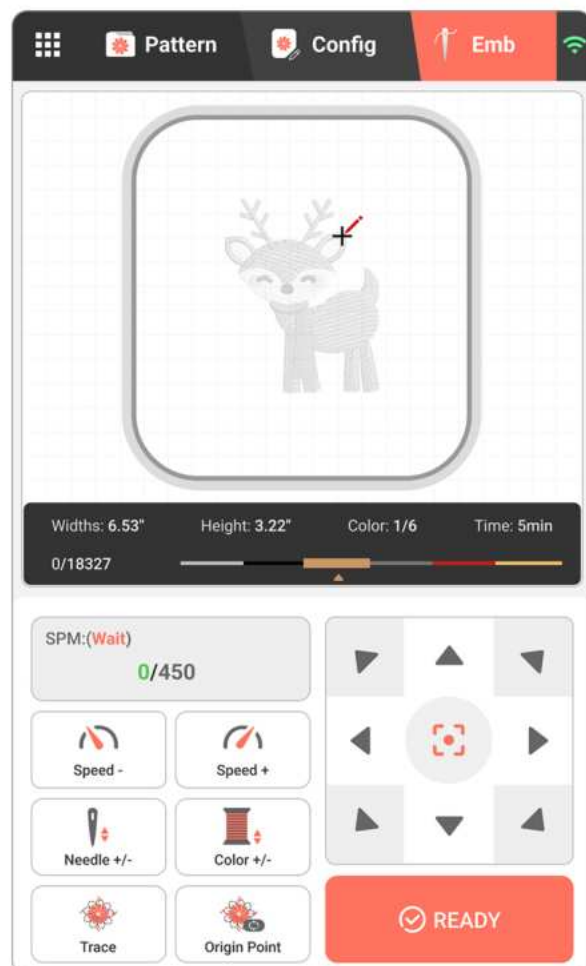
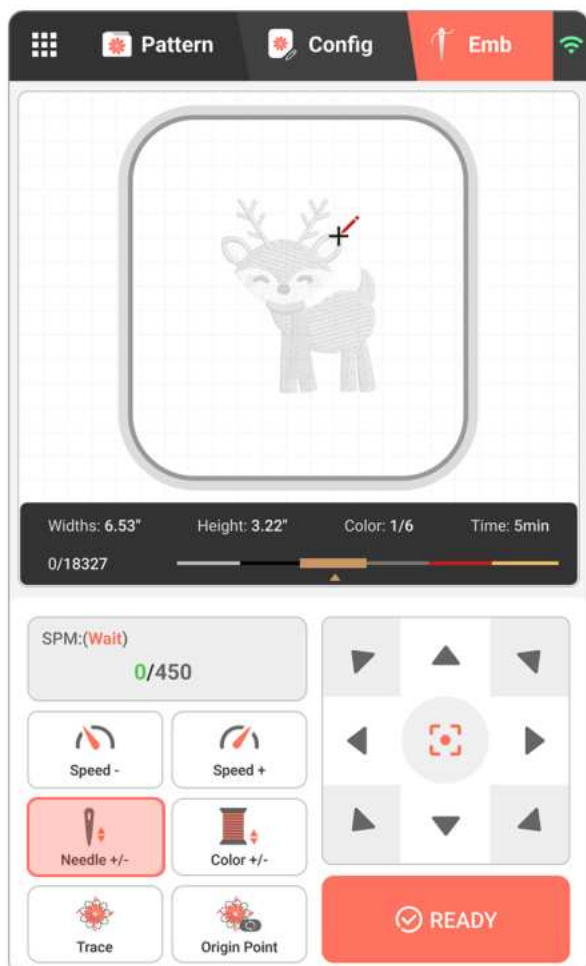
Description

Contents	Description
	<p>Real-time embroidery speed/maximum embroidery speed. There are 6 status:</p> <ol style="list-style-type: none"> 1. Wait 2. Ready 3. Working 4. Pause 5. Thread Broken 6. Complete
	Embroidery speed down.

Pattern Embroidery Page Introduction

Contents	Description
 <p>Speed +</p>	Embroidery speed up.
 <p>Needle +/-</p>	Forward/backward by the number of stitches.
 <p>Color +/-</p>	Forward/backward by color.
 <p>Trace</p>	Pattern tracing: before embroidery starts, trace along the largest edge of the pattern, it is used to determine the embroidery position of the pattern in the embroidery.
 <p>Origin Point</p>	Return to the starting point: Return to the starting point during the embroidery to restart embroidery. In the state of embroidery, perform the operation of returning to the starting point to stop embroidery and return to the starting point, please select as required.
 	Working state switching key (READY/EXIT) . Press the key to switch: <ul style="list-style-type: none"> · READY : indicates the ready state, the selection of pattern must be in ready. · EXIT : means to enter the working state, only in this state can start embroidery.
	Move Pattern Within Frame <ul style="list-style-type: none"> · Center: Quickly move the pattern to the center of the frame. · Top Left: Move to the top-left corner of the frame. · Top Right: Move to the top-right corner. · Bottom Left: Move to the bottom-left corner. · Bottom Right: Move to the bottom-right corner.

Stitch Forward/Backward



70

Description of Functions

Contents

Description



Forward 1 stitch.





Press the key, the pattern will move forward 1 stitch.



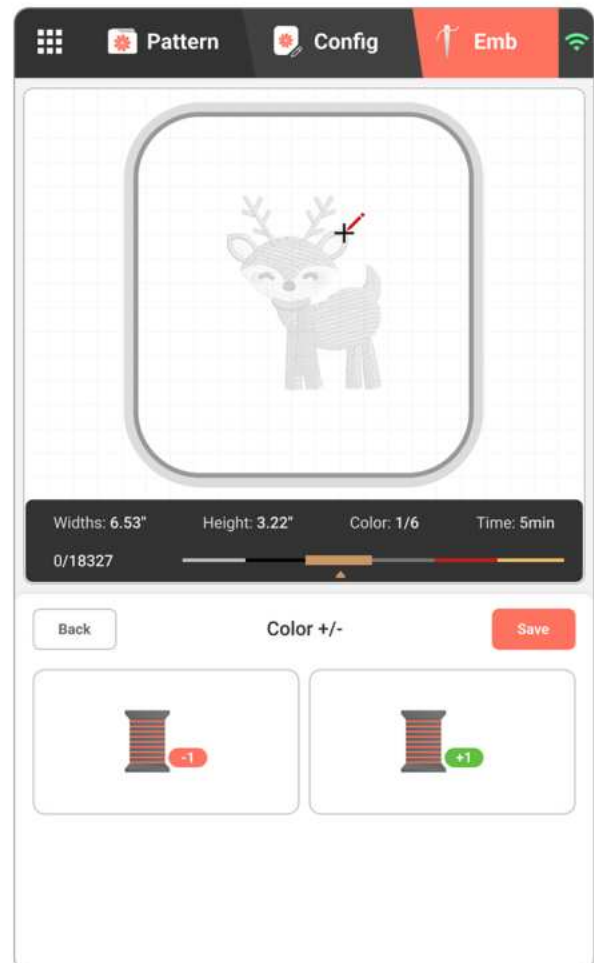
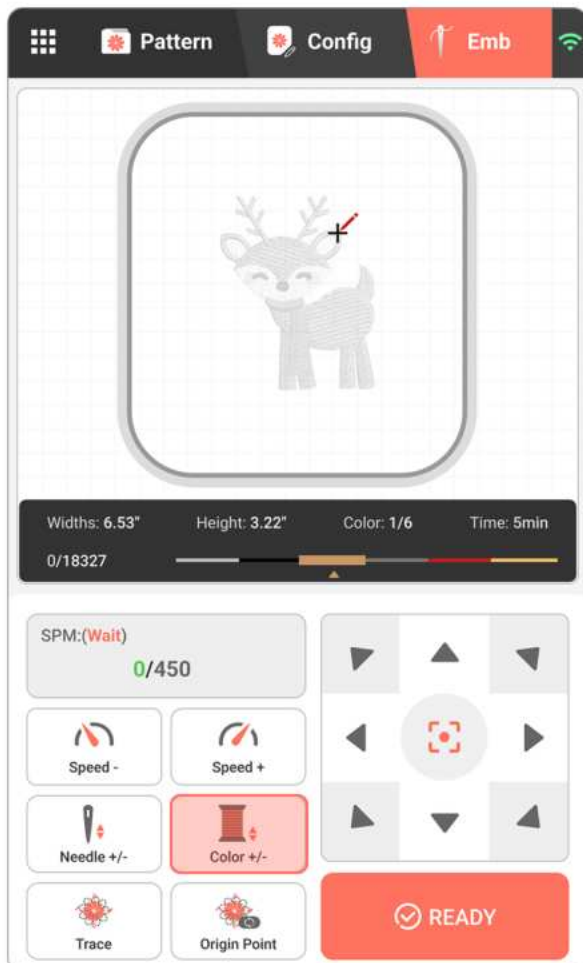
Forward 10 stitches.

Press the key, the pattern will move forward 10 stitches.

Stitch Forward/Backward

Contents	Description
	Forward 100 stitch. Press the key, the pattern will move forward 100 stitches.
	Back 1 stitch. Press the key, the pattern will move backward 1 stitch.
	Back 10 stitches. Press the key, the pattern will move backward 10 stitches.
	Back 100 stitches. Press the key, the pattern will move backward 100 stitches.

Color Forward/Backward

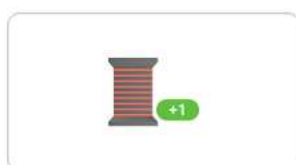


72

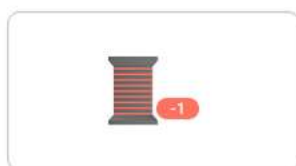
Description of Functions

Contents

Description

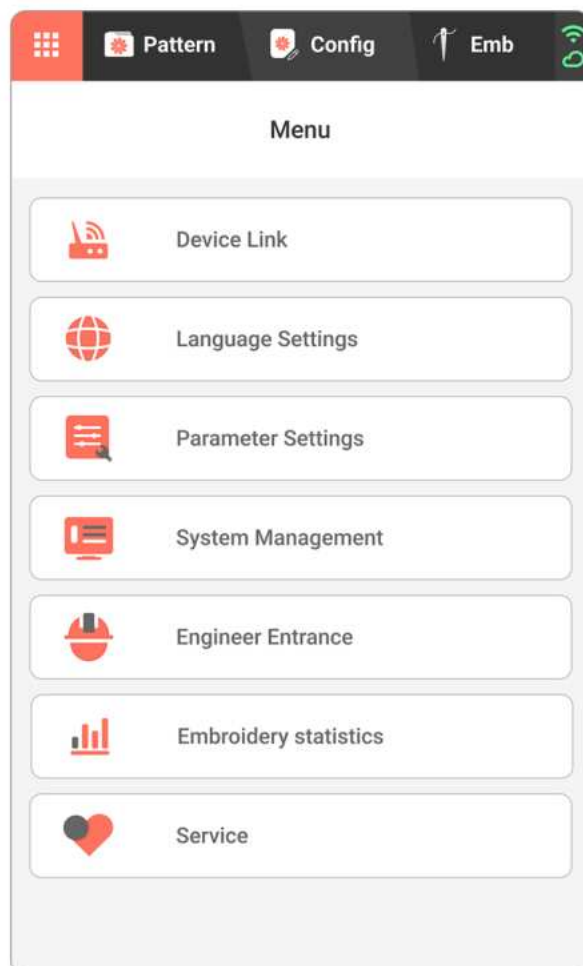


Forward color key.
Press the key, the pattern will go forward 1 color.



Back color key.
Press the key, the pattern will go backward 1 color.



Settings Main Page Introduction



Description of Functions

Contents	Description
 Device Link	Device link Page
 Language Settings	Language Settings
 Parameter Settings	Parameter Settings

Settings Main Page Introduction

Contents	Description
 System Management	System Management
 Engineer Entrance	Engineer Entrance
 Embroidery statistics	Embroidery Statistics
 Service	Service

Common Issues and Solutions

Error Message	Cause of Issue	Solution
Thread breaking	The upper thread is threaded incorrectly.	Follow the operation of threading the upper thread, re-thread the thread.
	Upper thread tension is too tight.	Adjust tension.
	Thread jammed.	Clean up the jam.
	Thread doesn't fit the needle.	Use proper needle and thread.
	Bobbin case scratches.	Replace the bobbin case.
	The needle is not installed correctly.	Correctly install the needle.
Needle breaking	Upper thread tension is too tight.	Adjust tension.
	Thread jammed.	Clean up the jam.
	Needle doesn't fit the fabric.	Use a larger needle.
	The needle is not installed correctly.	Correctly install the needle.
Thread jammed	The upper thread is threaded incorrectly	Follow the operation of threading the upper thread, re-thread the thread.
	Upper thread tension is too loose	Adjust tension.
Stitches skipped	Needle doesn't fit.	Use the proper needle.
	Needle bending.	Replace the needle.

Common Issues and Solutions

Error Message	Cause of Issue	Solution
Stitches skipped	The needle is not installed correctly.	Replace the needle.
	Upper thread tension is too tight.	Adjust tension.
Misplaced embroidery	Fabric unclamped.	Clamp the fabric.
	No stabilizer.	Add stabilizer.
	When the embroidery frame is working, it bumps to the surrounding objects.	Do not place any objects around the embroidery frame.
Thread unlocked	The upper thread is threaded incorrectly.	Follow the operation of threading the upper thread, re-thread the thread.
	No bobbin.	Reinstall the bobbin.
	The thread does not fit the needle.	Use proper needle and thread.
USB not recognized	The USB format does not match or the memory is too large	Please use the offered USB device or purchase a USB device with a capacity of less than 64GB and a format of FAT32.
Pattern not recognized	Pattern format is incorrect	This machine only supports pattern files in DSB/DST format.

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