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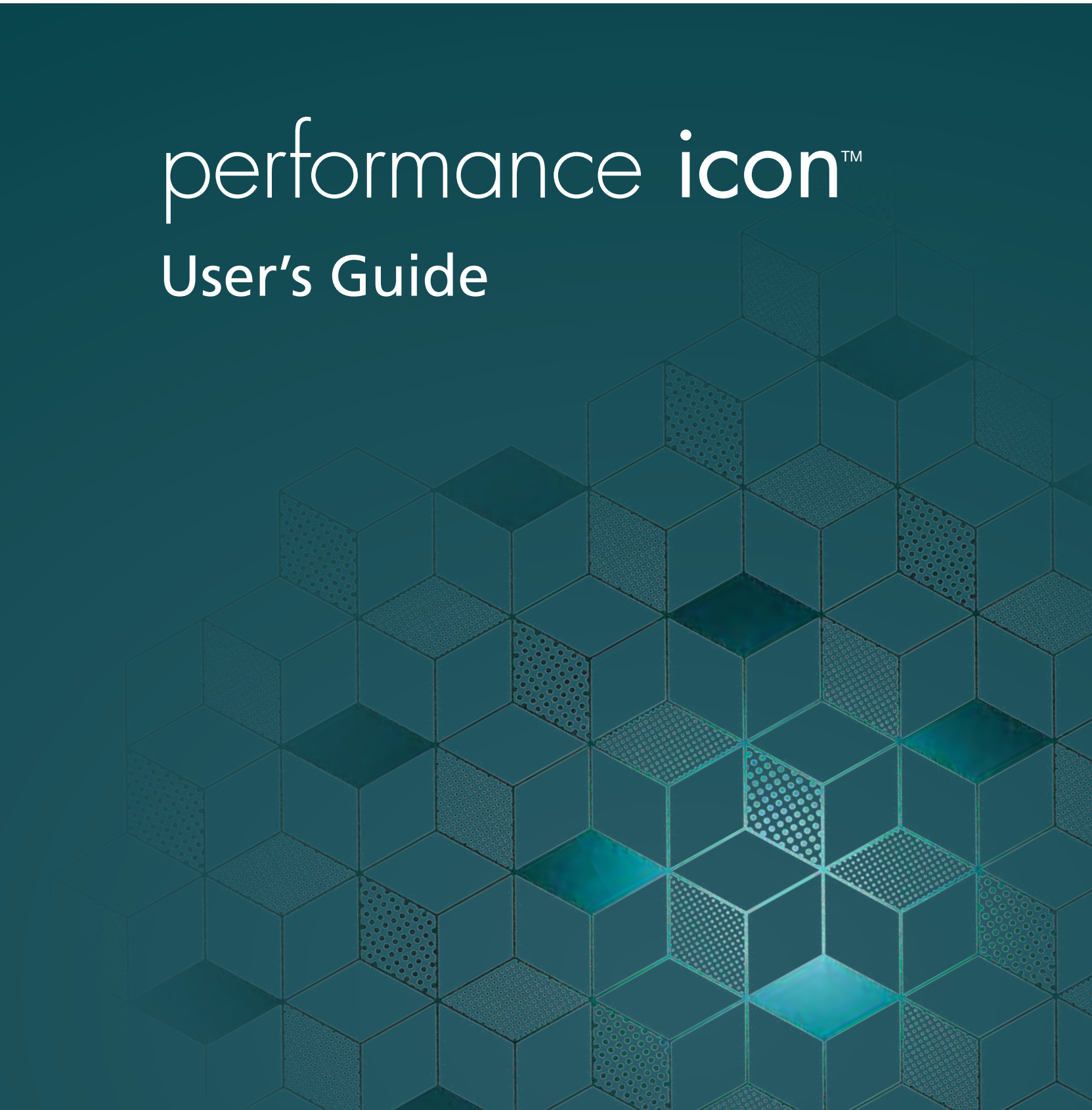
User's Guide



This household sewing machine is designed to comply with IEC/EN 60335-2-28 and UL1594.

IMPORTANT SAFETY INSTRUCTIONS

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

Read all instructions before using this household sewing machine. Keep the instructions at a suitable place close to the machine. Make sure to hand them over if the machine is given to a third party.

DANGER –TO REDUCE THE RISK OF ELECTRIC SHOCK:

- A sewing machine should never be left unattended when plugged in. The electrical socket, to which the machine is plugged in should be easily accessible. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning, removing covers, lubricating or when making any other user servicing adjustments mentioned in the instruction manual.

WARNING –TO REDUCE THE RISK OF BURNS, FIRE, ELECTRIC SHOCK, OR INJURY TO PERSON:

- Do not allow to be used as a toy. Close attention is necessary when this sewing machine is used by or near children.
- Use this sewing machine only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
- Never operate this sewing machine 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 sewing machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
- Never operate the sewing machine with any air openings blocked. Keep ventilation openings of the sewing machine and foot control free from the accumulation of lint, dust, and loose cloth.
- Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- Always use the proper needle plate. The wrong plate can cause the needle to break.
- Do not use bent needles.
- Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- Wear safety glasses.
- Switch the sewing machine off (“0”) when making any adjustment in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administrated.
- To disconnect, turn all controls to the off (“0”) position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- The foot control is used to operate the machine. Avoid placing other objects on the foot control.
- Do not use the machine if it is wet.

- If the LED lamp is damaged or broken, it must be replaced by the manufacturer or its service agent or a similarly qualified person, in order to avoid a hazard.
- If the cord connected with the foot control is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person, in order to avoid a hazard.
- This sewing machine is provided with double insulation. Use only identical replacement parts. See instructions for Servicing of Double-Insulated Appliances.

SAVE THESE INSTRUCTIONS

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

The noise level under normal operating conditions is less than 80dB(A).

The machine must only be used with foot control of type FR5 manufactured by Shanghai Binao Precision Mould Co., Ltd.

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

The noise level under normal operating conditions is less than 80dB(A).

The machine must only be used with foot control of type FR5 manufactured by Shanghai Binao Precision Mould Co., Ltd.

SERVICING OF DOUBLE INSULATED PRODUCTS

In a double-insulated product, two systems of insulation are provided instead of grounding. No ground means is provided on a double-insulated product, nor should a means for grounding be added to the product. Servicing of a double-insulated product requires extreme care and knowledge of the system and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product. A double-insulated product is marked with the words ‘DOUBLE INSULATION’ or ‘DOUBLE INSULATED’.

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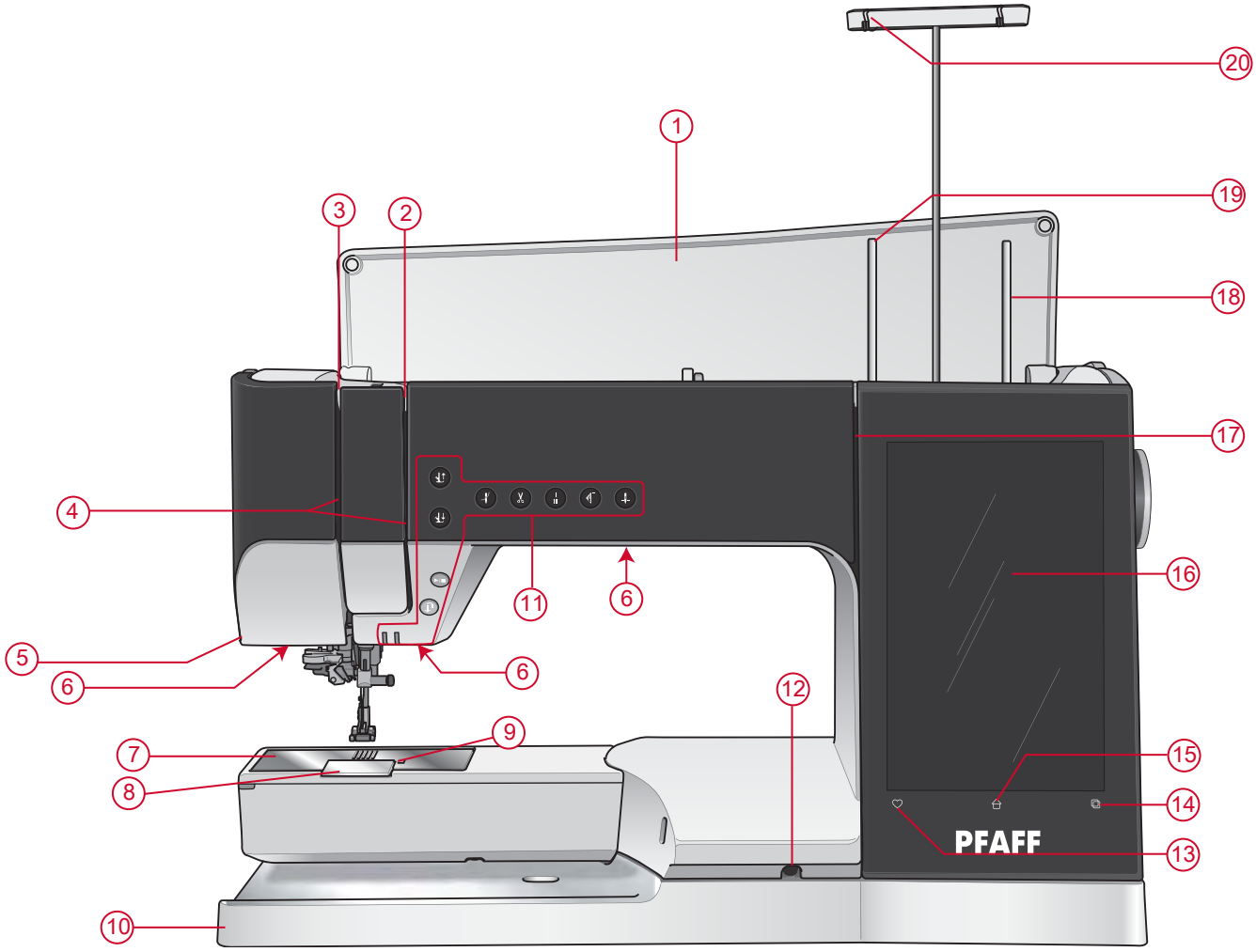
1 Introduction

Machine Overview

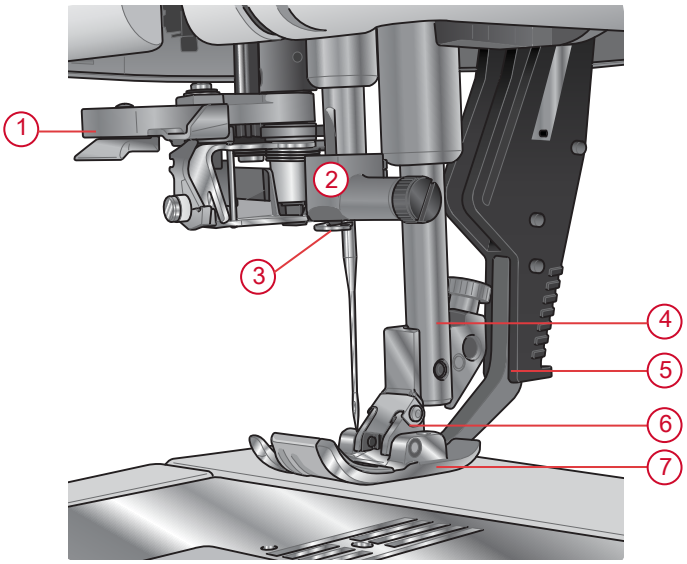
Front



1. Lid
2. Thread tension discs
3. Thread take-up lever
4. Threading slot
5. Thread cutter
6. LED light
7. Needle plate
8. Bobbin cover
9. Bobbin cover release button
10. Base plate
11. Function buttons, see Function Buttons, page 11 for detailed description
12. Knee lifter socket
13. Save
14. Mode switch
15. Home
16. Multi-touch screen
17. Bobbin winding thread slot
18. Auxiliary spool pin
19. Main spool pin
20. Telescopic thread guide

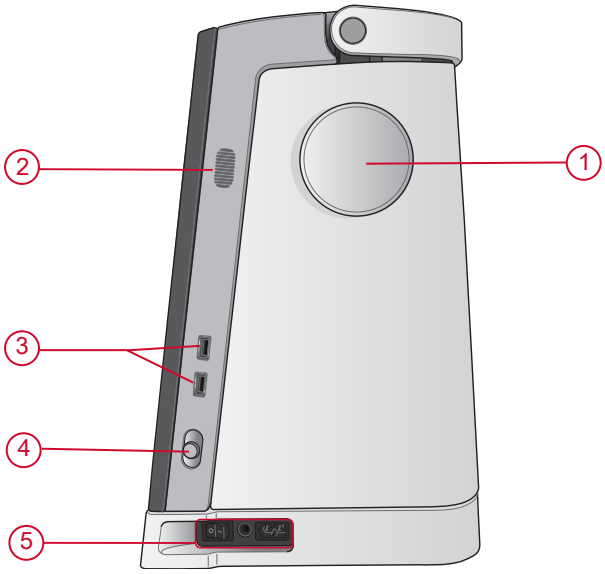
Needle Area

1. Automatic needle threader, see Using the Automatic Needle Threader, page 33
2. Needle bar with needle clamp screw
3. Needle thread guide
4. Presser foot bar
5. IDT™
6. Presser foot ankle
7. Presser foot



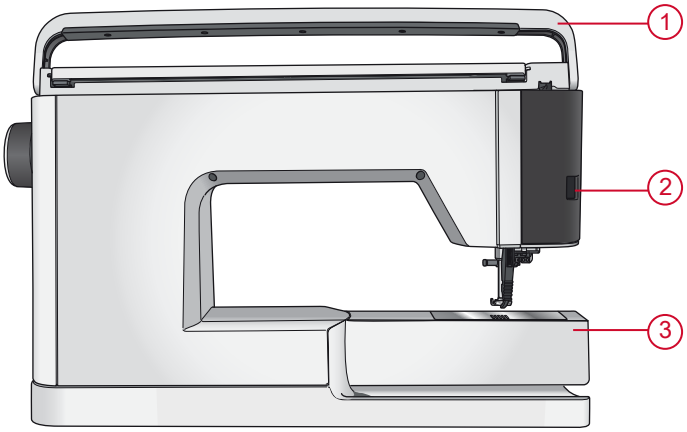
Right Side

1. Handwheel
2. Speaker
3. Built-in USB ports
4. Speed control lever
5. ON/OFF switch, sockets for power cord and foot control. See Connect the Power Cord and Foot Control, page 21.

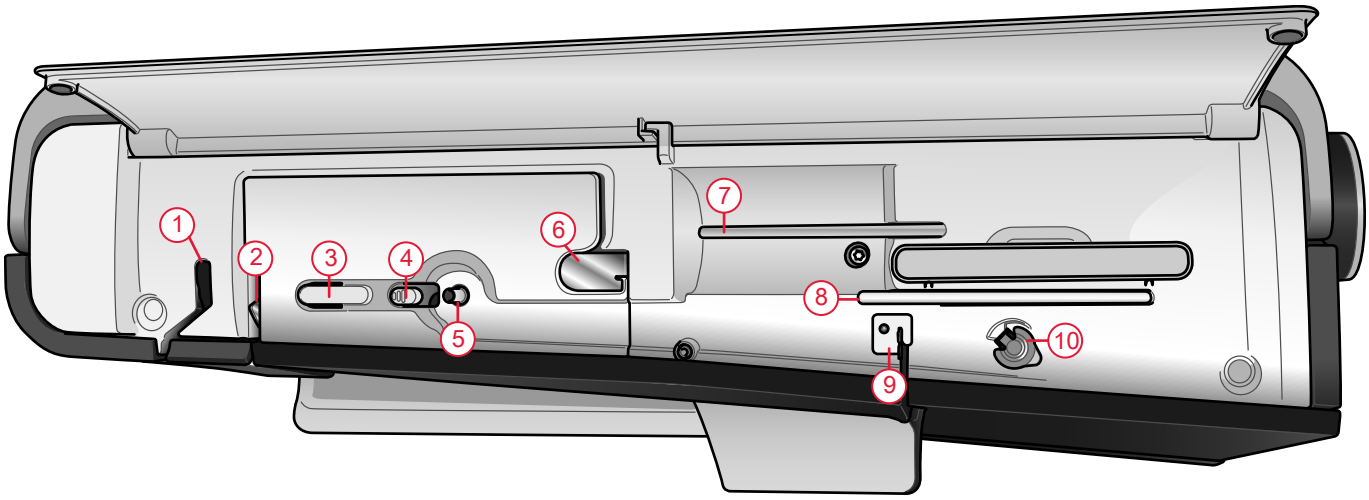


Rear

1. Handle
2. Accessory socket
3. Free arm

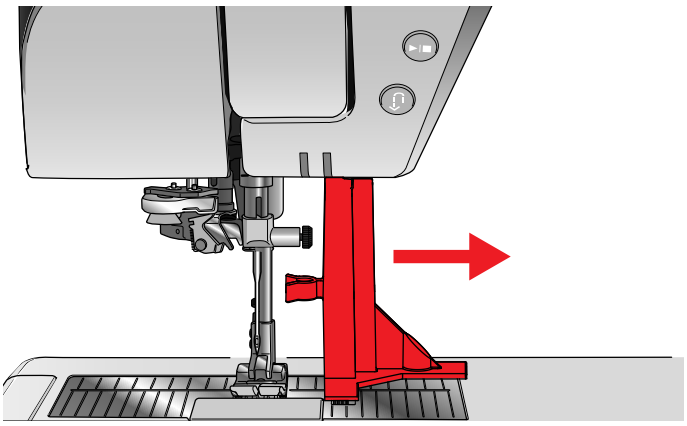


Top



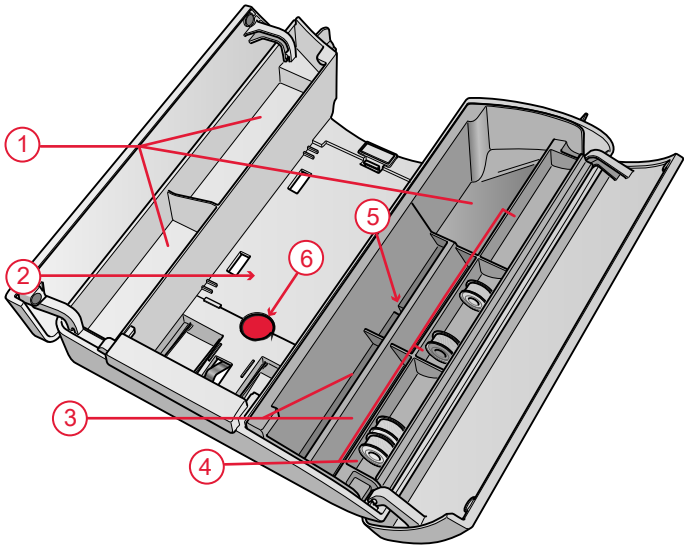
1. Thread take-up lever
2. Thread tension discs
3. Thread cutter
4. Bobbin winder lever
5. Bobbin winder
6. Pre-tension thread guide
7. Main spool pin
8. Auxiliary spool pin
9. Bobbin winding thread guide
10. Thread tension disc for bobbin winding

Note: The machine is delivered with two red safety catches; one attached to the presser foot bar and one in the accessory tray. These should all be removed before sewing.



Accessory Tray

The accessory tray features special compartments for presser feet and bobbins, plus space for needles and other accessories. Store the accessories in the tray so they are easily accessible.

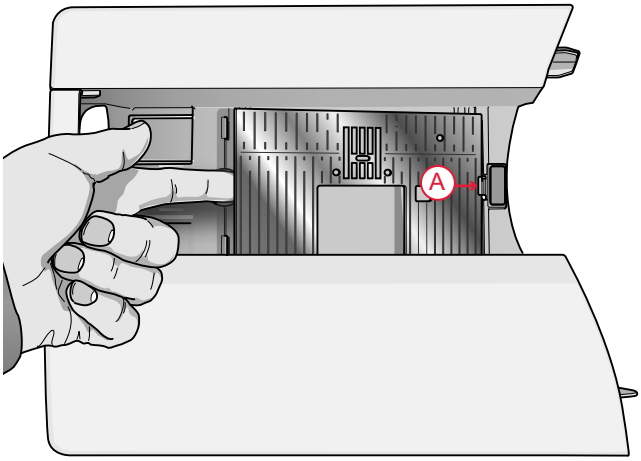


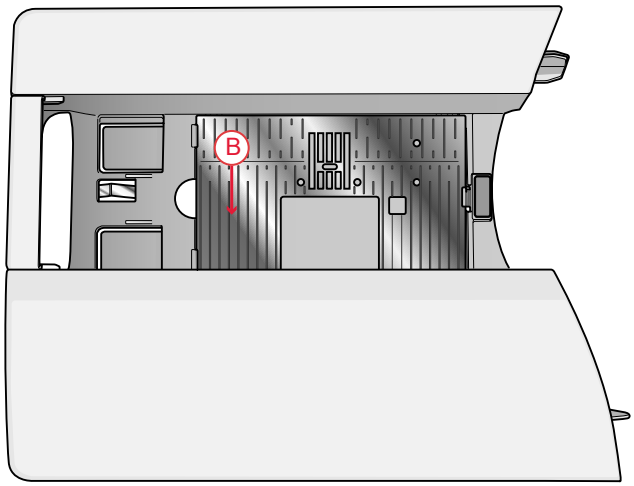
1. Space for accessories
2. Space for needle plate
3. Spaces for presser feet
4. Spaces for bobbins
5. Space with hole for 5M Manual Buttonhole Foot
6. Safety catch (remove before sewing)

Storing a Needle Plate

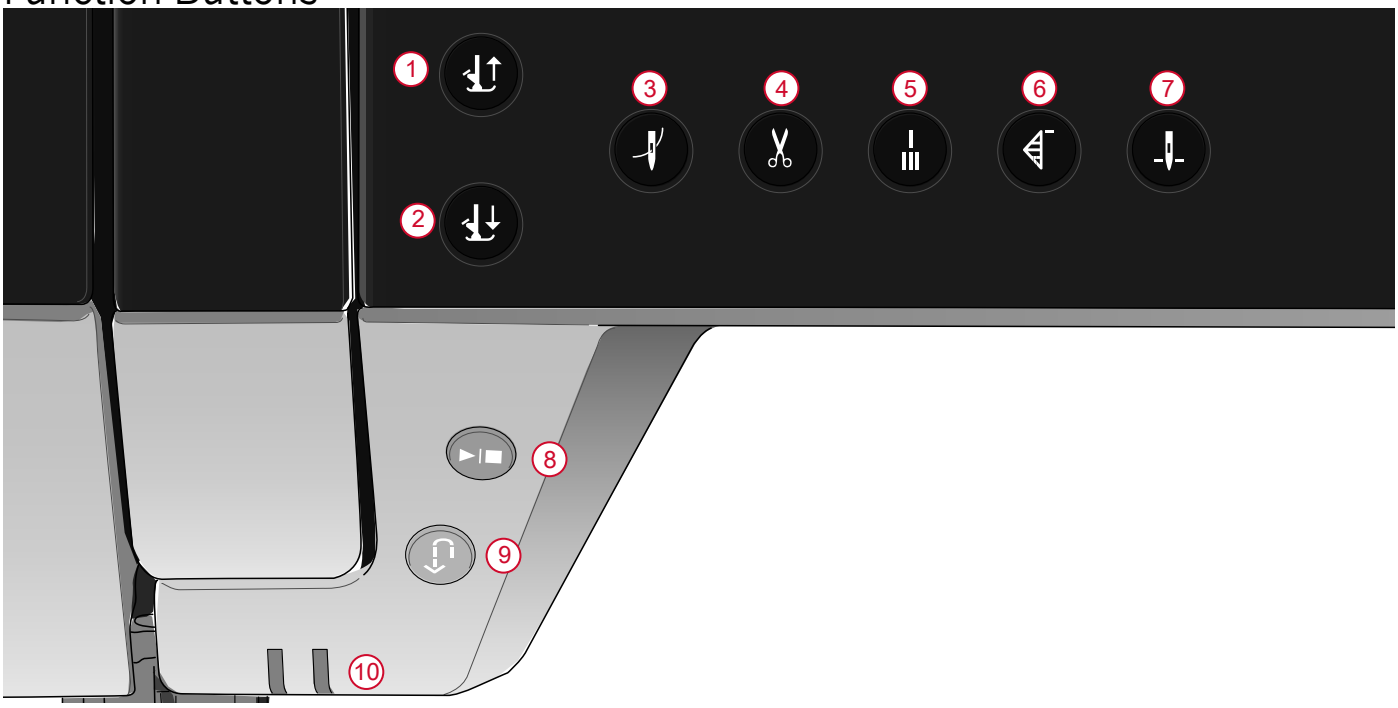
Store the needle plate not in use in the bottom of your accessory tray.

1. Insert the right side of the plate into spring on the right side (A), push it slightly. Lay it down (B) so that the needle plate snaps into place.
2. To remove the plate, place a finger into the hole by the left side of the plate, push it to the right and then lift the plate.





Function Buttons



1. Presser foot up and extra lift
2. Presser foot down and pivot
3. Automatic needle threader
4. Cut function
5. Immediate tie-off
6. Stitch restart
7. Needle stop up/down
8. Start/stop
9. Reverse
10. Indication Light

Presser Foot Up and Extra Lift

Touch the presser foot up button once to raise the presser foot. Touch again and the presser foot will raise to extra lift position, and the feed teeth will be automatically lowered to make it easier to get heavy fabric under the presser foot.

Presser Foot Down and Pivot

The presser foot is lowered automatically when you start sewing. To lower the presser foot before starting to sew, touch the presser foot down and pivot button. The presser foot will be completely lowered and the machine firmly holds the fabric. Touch presser foot down again to go to pivot position.

Automatic Needle Threader

See Using the Automatic Needle Threader, page 33 to learn how to place the thread for automatic needle threading. When the thread is in place, touch this button to thread the needle automatically.

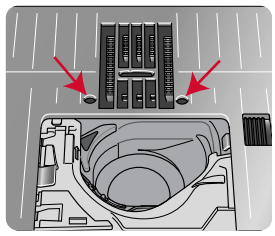
⚠ *To prevent damage to the automatic needle threader, needle, presser foot or other attached accessories, read the instructions carefully on how to use the automatic needle threader before using it.*

Cut Function

Touch the cut function button and your machine cuts the upper and bobbin threads and raises the presser foot and needle.

To cut threads at the end of a stitch or stitch sequence, touch the cut function button while sewing. The indicator light will intensify, alerting you that a cut is requested. When the stitch or stitch sequence is completed, your machine cuts the upper and bobbin threads and raises the presser foot and needle.

Note: If automatic presser foot lift has been deselected in temporary session settings the presser foot will not be raised when using the cut function.



⚠ *Some optional accessories are attached in the two small circular holes in the needle plate just above the bobbin cover. Do not use the cut function when an accessory is attached in these holes as that may interfere with the automatic thread cutter located under the needle plate.*

Immediate Tie-Off

Press immediate tie-off while sewing and your machine sews a few tie-off stitches and stops automatically. By touching the tie-off button once more while the action indicator is lit, the function can be turned off.

Stitch Re-Start

When you stop sewing in the middle of a stitch, touch stitch re-start to begin sewing at the beginning of the stitch. The stitch or stitch sequence will remember any special settings you made.

Needle Stop Up/Down

Touch needle stop up/down to set the position of the needle when you stop sewing. The needle will move up or down when you touch the button. The indicator light intensifies when needle stop down is set.

Tip: You can also tap the foot control to raise or lower the needle once you stop sewing. Tapping the foot control does not change the set stop position.

Start/Stop

Touch the start/stop button to start and stop the machine sewing without using the foot control. Touch start/stop to begin and touch again to stop.

Reverse

When reverse is active, the reverse indicator intensifies. For permanent reverse, touch the reverse button once before starting to sew. The reverse indicator will intensify and the machine sews in reverse until you touch the button again to cancel. If you press the reverse button while sewing, the machine will sew in reverse for as long as you keep the button pressed.

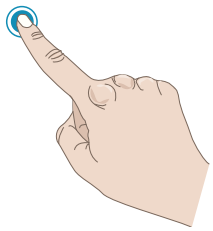
Reverse is also used when sewing manual buttonholes, darning stitches and tapering stitches to step between the parts of the stitch.

Basic Gestures for the Multi-Touch Screen

Easily navigate on the multi-touch screen with the gestures described below. For more detailed information, see Multi-Touch Screen.

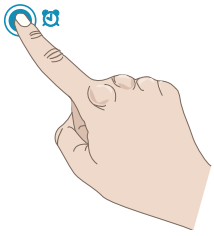
Touch

Touch once on a button or setting on the screen to select.



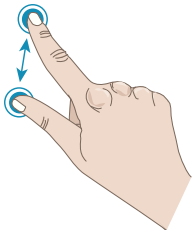
Touch & Hold

Touch once without releasing for a few seconds to touch & hold. Used on some buttons and screen areas to access more options.



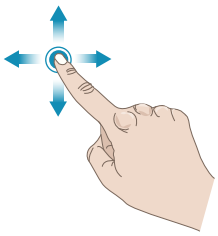
Pinch/Stretch

Touch with two fingers at the same time and without releasing increase/reduce the distance between the fingers to stretch (zoom in) or pinch (zoom out).



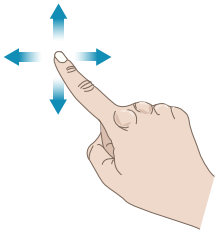
Touch and Move

Touch once on e.g a window on your screen and, without releasing, move your finger to a different position on the screen.



Swipe

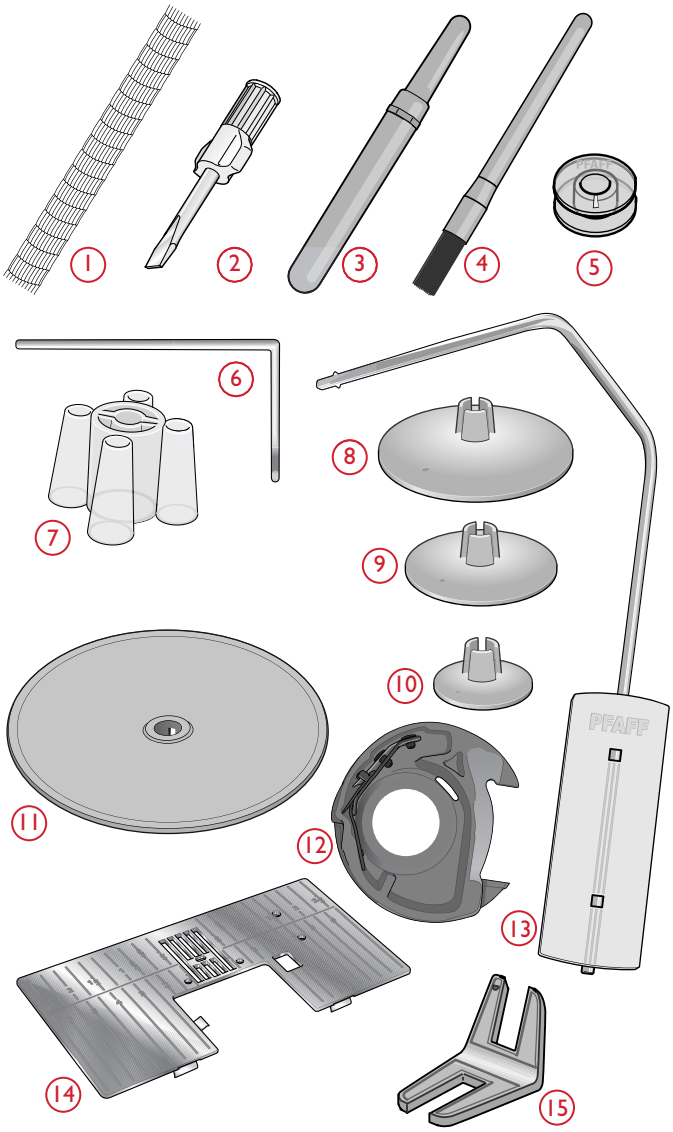
Touch, move and release your finger in a swift gesture to swipe. Left-right/right-left swipe is used to scroll between stitch menus. Top-bottom/bottom-top swipe is used to scroll within a stitch menu.



Accessories

Included Accessories

1. Thread net (4)
2. Screwdriver
3. Seam ripper
4. Brush
5. Bobbins (6)
6. Edge/Quilting guide (used attached to presser foot ankle)
7. Thread cone holder (2)
8. Spool cap, large (2)
9. Spool cap, medium (2)
10. Spool cap, small (2)
11. Large spool holder
12. Bobbin case for straight stitch left (black)
13. Knee lift
14. Straight Stitch Needle Plate
15. Multipurpose tool/Button reed

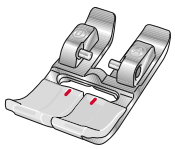


Included Accessories Not in Picture

- Soft cover for machine
- Foot control
- Power cord
- Needles

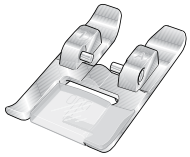
Presser Feet

Note: For the best sewing results, use only presser feet designed for and compatible with your performance icon™ machine.



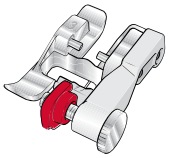
OA -Standard Presser Foot for IDT™ System
(attached on the machine upon delivery)

This foot is used mainly for straight stitching and zigzag stitching with a stitch length longer than 1.0 mm.

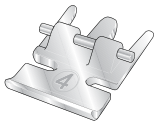


1A - Fancy Stitch Foot for IDT™ System
This foot is used for decorative stitches. The groove on the underside of the foot is designed to flow smoothly over the stitches.

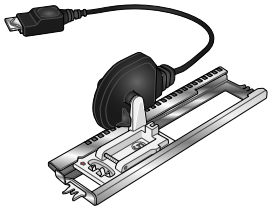
2A - Fancy Stitch Foot
When sewing decorative stitches or short zigzag stitches and other utility stitches with less than 1.0mm stitch length, use this foot. The groove on the underside of the foot is designed to flow smoothly over the stitches.



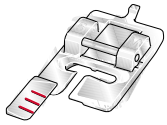
3 – Blindhem Foot for IDT™ System
This foot is used for blindhem stitches. The toe on the foot guides the fabric. The red guide on the foot is designed to ride along the fold of the hem edge.



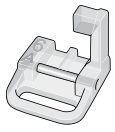
4 – Zipper Foot for IDT™ System
This foot can be snapped on either the right or the left of the needle, making it easy to sew close to both sides of the zipper teeth. Move needle position to right or left to sew closer to zipper teeth.



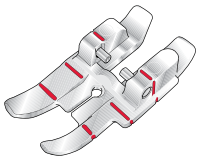
5A – Sensormatic Buttonhole Foot
When connected to the machine, the buttonhole is sewn in the length that has been entered into the machine.



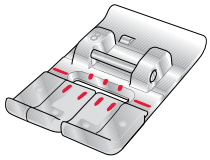
5M - Manual Buttonhole Foot
This foot is used for sewing manual buttonholes. Use the markings on the foot to position the garment edge. The finger on the back of the foot holds cording for corded buttonhole.



6A – Embroidery/Sensormatic Free Motion Foot
This foot is used for free motion sewing. This foot can also be used for darning.

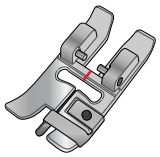


¼" Quilting Foot for IDT™ System
This foot is perfect for piecing and patchwork, especially when used in conjunction with the straight stitch needle plate. The distance from the needle to the outer edge of the right toe is ¼" (6mm). The distance from the needle to the inner edge of the right toe is ⅛" (3mm).



8 – Maxi Stitch Foot

This foot is used for side-motion stitches.



Bi Level Guide Foot for IDT™ System

The Bi Level Guide Foot is especially suitable for sewing the exclusive stitch techniques such as Edge stitches and floating stitches. The underside of the presser foot is designed to be higher on the right side, and has a guide in the center, allowing the presserfoot to glide along a folded edge.

Stitch Overview

Utility Stitches

Stitch	№	Name	Description
	1.1.1	Straight stitch	For seaming and topstitching.
	1.1.2	Stretch triple straight stitch	For reinforced seams and for top stitching.
	1.1.3	Stretch tricot stitch	For sewing seams on stretch fabrics.
	1.1.4	Basting stitch	For all types of sewing.
	1.1.5	Zigzag stitch	For reinforcing seams, clean finish and stretch sewing.
	1.1.6	Stretch triple zigzag stitch	Elastic stitch for decorative hems or topstitching.
	1.1.7	Three-step zigzag stitch	For stretch sewing, darning, patching, edge finishing and decorative sewing.
	1.1.8	Elastic stitch	For stretch sewing, darning, patching and lace insertion.
	1.1.9	Triple stretch stitch	For stretch sewing, darning, patching, edge finishing and decorative sewing.
	1.1.10	Z-zigzag stitch	For sewing appliqué.
	1.1.11	Honeycomb stitch	Decorative stitch for stretch fabrics and hems. Also used with elastic thread in the bobbin.
	1.1.12	Bridging stitch	Joining fabrics and quilt batting, decorative stitch for quilting, hemstitching.
	1.1.13	Foundation elastic stitch	Joining stitch for undergarments, terry cloth, leather, bulky fabrics where overlapping the seams.
	1.1.14	Crosshem stitch	Elastic decorative hem for stretch fabrics. Also suitable for joining fabrics and quilt batting.
	1.1.15	Blind hem stitch	For sewing blind hems on woven fabrics.
	1.1.16	Elastic blind hem stitch	For sewing blind hems on stretch fabrics.
	1.2.1	Closed overlock	For sewing seams and overcasting stretch fabrics in one step.
	1.2.2	Elastic overcast	For sewing seams and overcasting stretch fabrics in one step.
	1.2.3	Overlock	For sewing seams and overcasting stretch fabrics in one step.

Stitch	№	Name	Description
	1.2.4	Light knit fabric patching	For patching and sewing hems in stretch fabrics.
	1.2.5	Closed overlock	For patching, sewing hems, sewing seams and overcasting.
	1.2.6	Closed overlock for stretch	For patching, sewing hems, sewing seams and overcasting in stretch fabrics.
	1.2.7	Mock cover hem	Create the look of a serger cover hem for stretch fabrics.
	1.2.8	Mock cover hem	Create the look of a serger cover hem for stretch fabrics.
	1.2.9	Open overlock blind hem	Create decorative overlock blind hem for woven fabrics.
	1.2.10	Closed overlock blind hem	Create decorative overlock blind hem for stretch fabrics.
	1.3.1	Standard buttonhole	Basic buttonhole for blouses, shirts and jackets. Also for pillowcases.
	1.3.2	Rounded buttonhole with crosswise tack	Buttonhole for garments.
	1.3.3	Eyelet buttonhole with pointed tack	Tailors buttonhole or decorative buttonhole.
	1.3.4	Rounded buttonhole	Buttonhole for light garments or jackets.
	1.3.5	Stretch buttonhole	Buttonhole for stretch fabrics.
	1.3.6	Decorative eyelet buttonhole	Decorative buttonhole for jackets.
	1.3.7	Decorative eyelet buttonhole	Decorative buttonhole for jackets.
	1.3.8	Decorative eyelet buttonhole	Decorative heirloom buttonhole.
	1.3.9	Decorative round buttonhole	Decorative heirloom buttonhole.
	1.3.10	Button sewing	For sewing on buttons or tacking.
	1.3.11	Bound buttonhole	Foundation stitch for bound buttonhole.
	1.4.1	Eyelet	For belts, laces, heirloom sewing, etc.
	1.4.2	Decorative Eyelet	For belts, laces, heirloom sewing, etc.
	1.4.3	Decorative Eyelet	For belts, laces, heirloom sewing, etc.

Stitch	№	Name	Description
	1.4.4	Decorative Eyelet	For belts, laces, heirloom sewing, etc.
	1.4.5	Programmable darning stitch	To darn or mend small holes, begin stitching over hole, touch reverse for continuous darning and stop.
	1.4.6	Programmable reinforced darning stitch	Darn and mend work clothes, jeans, table cloths and linen towels. Stitch over hole, touch reverse for continuous darning and auto stop.
	1.4.7	Bartack	Reinforce pockets, shirt openings, belt loops as well as at lower end of a zipper.
	1.4.8	Denim bartack	Reinforce pockets, shirt openings, belt loops as well as at lower end of a zipper.
	1.4.9	Decorative bartack	Reinforce pockets, shirt openings, belt loops as well as at lower end of a zipper.
	1.4.10	Cross bartack	Reinforce pockets, shirt openings and belt loops.

Stitch Menu Overview

There are several different stitch menus with stitches for all purposes. For detailed description of a stitch, use the quick help function, see Quick Help.

Stitch Menu Name	Sub Menus
1 — Utility Stitches See also stitch table for detailed descriptions.	1. Essential stitches 2. Overcast stitches 3. Buttonholes 4. Eyelets and darning stitches
2 — Quilt Stitches	1. Handlook quilt stitches 2. Stippling stitches 3. Crazy patch stitches
3 — Needle Art Stitches	1. Cross stitches 2. Needlework stitches 3. Antique hand embroidery stitches
4 — Satin Stitches	1. Scallop edges 2. Satin elements 3. Borders
5 — Decorative Stitches	1. Leaves and flowers 2. Art stitches 3. Ornamental stitches 4. Maxi art stitches
6 — Miscellaneous Stitches	1. Bows and hearts 2. Animals 3. Fun stitches
7 — Monogram Stitches	1. Monogram 1
8 — Stitch Techniques	1. Single ribbon stitches 2. Double ribbon stitches 3. Triple ribbon stitches 4. Stacking stitches 5. Floating stitches 6. Radiant stitches 7. Lace edge stitches
9 — Additional Stitches	1. Optional feet stitches 2. Four direction stitches

Alphabets

Stitch fonts are available in Block, Comic, Cyrillic, Grand, Outline and Script alphabets.

2 Preparations

Unpacking Machine

After lifting the machine out of the box and removing all packing material and the plastic bag, wipe the machine, particularly around the needle and needle plate to remove any oil before sewing.

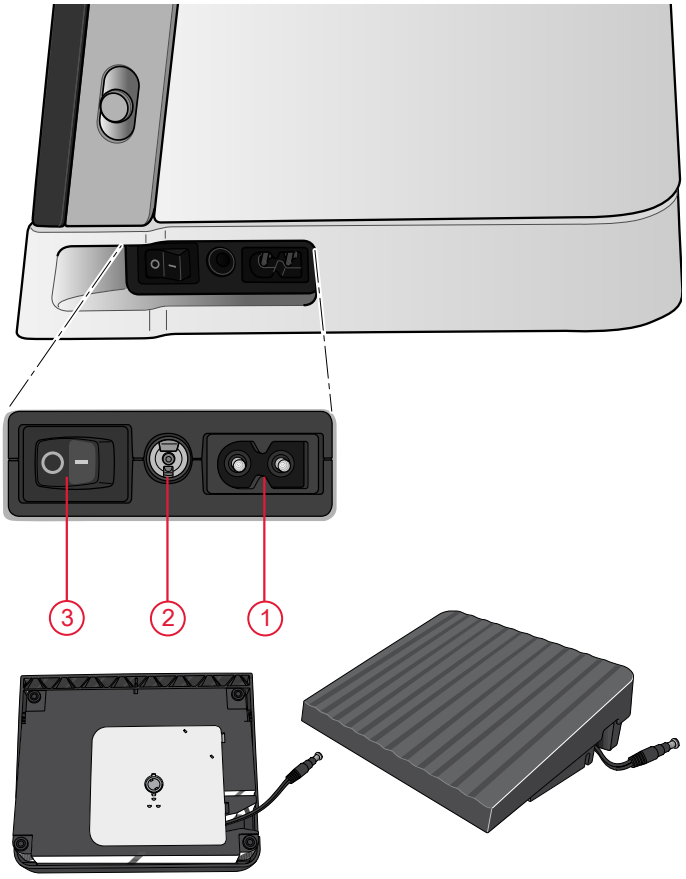
Note: Your performance icon™ machine is adjusted to provide the best stitch result at normal room temperature. Extreme hot and cold temperatures can affect the sewn results.

Connect the Power Cord and Foot Control

Among the accessories you will find the power cord and the foot control.

Note: Before plugging in the foot control, check to ensure that it is type "FR5" (see underside of foot control).

1. Pull out the cord from the foot control. Connect the foot control cord to the front socket on the bottom right side of the machine.
2. Connect the power cord to the rear socket on the bottom right side of the machine. Plug the cord into the wall socket.
3. Press the ON/OFF switch to "I" to turn on power and light.



For the USA and Canada

This sewing machine has a polarized plug (one blade wider than the other). To reduce the risk of electric shock, this plug is intended to 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.

Pack Away After Sewing

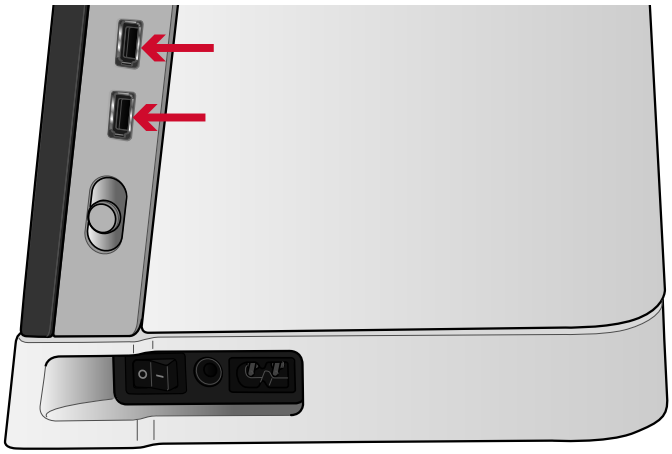
1. Press the ON/OFF switch to "O".
2. Unplug the cord from the wall socket and then from the machine.
3. Unplug the foot control cord from the machine. Pull the cord gently and release. The cord will retract into the foot control.
4. Place all accessories in the accessory tray. Slide the tray on to the machine around the free arm.
5. Place the foot control in the space above the free arm.
6. Put on the soft cover.

Tip: The user's guide and power cord can be stored in the back pocket of the soft cover.

USB Ports

Your machine has two USB ports for connecting USB devices such as a memory stick. USB plugs can only be inserted one way – do not force them into the ports! To remove, carefully pull the USB device out straight.

Note: Make sure that the USB stick you use has the format FAT32.



Using a USB device

The external device button in file manager is only active when a device is connected to a machine USB port.

Note: Do not remove the USB device if a loading spinner is shown on the screen or while the file manager is shown. Removing the device at that time can damage the files on your USB device.

Getting Started with WiFi and *mySewnet*™ Cloud

Follow the steps below to connect your machine.

Connect to a Network with WiFi

Touch the WiFi button in the top left corner of the screen. Select from the list of available networks. If your network is password protected, you will be prompted to enter the password to connect.

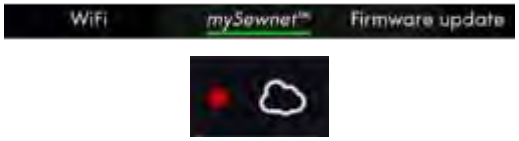
For more information, see WiFi Introduction.

WiFi icon

Connect to *mySewnet*™ Cloud

When you have established a WiFi connection, touch the **mySewnet™** tab and touch the Sign in button. A web view opens where you can log in. If you do not have a user name and password, select Register to create an account.

For more information, see *mySewnet*™ Cloud.



***mySewnet™** cloud icon*

LED Lights

Your machine has LED lights which distribute the light evenly over the sewing area and eliminate shadows. You can adjust the brightness of the light in the settings menu, see Machine Settings .

Free Arm

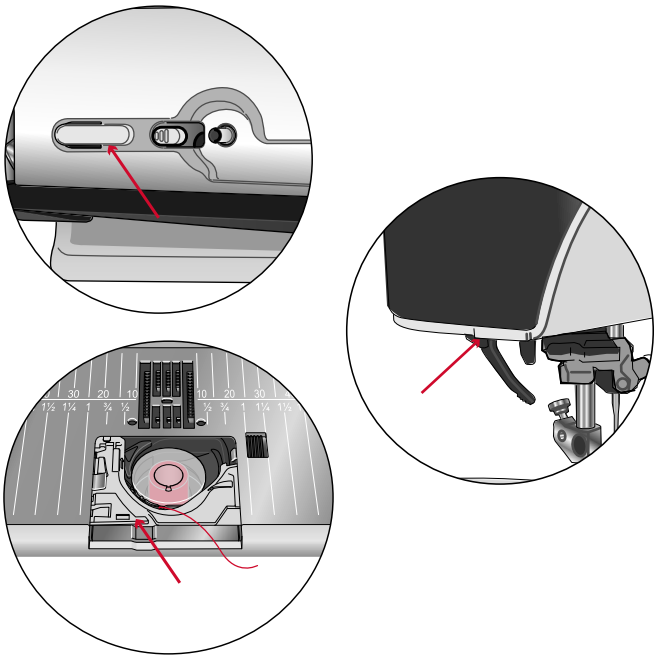
To use the free arm, slide off the accessory tray. When attached, a hook keeps the accessory tray locked to the machine. Remove the tray by sliding it to the left.

Manual Thread Cutter

There are three manual thread cutters on your machine. The first one is close to the bobbin winder spindle for cutting the thread after winding. The thread can be cut from sides.

The second one is next to the bobbin area for cutting the bobbin thread after placing the bobbin in the machine.

The third one is on the left side of the machine for manually cutting top and bobbin threads. Pull both threads into the cutter from the back to the front and pull down quickly.



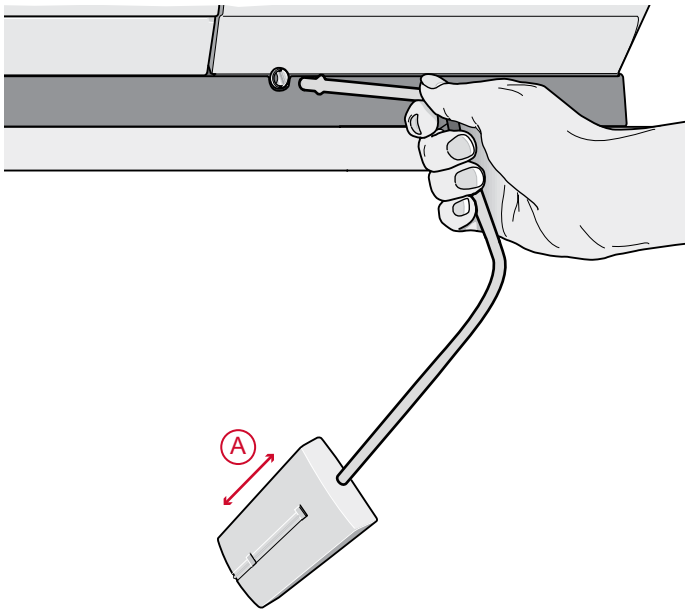
Knee-Lift

Your machine comes with an electronic knee-lifter that allows you to lift the presserfoot with your knee. The knee-lifter is very helpful when sewing, since it allows you to handle the fabric with your hands while your knee lifts the presser foot to the desired height.

Match the ribs on your knee-lifter with the notches in the knee-lifter socket. Adjust the rectangular bar on the knee-lift until it is positioned at a comfortable height for you (A).

Move your knee lifter with your knee, and the presser foot will raise. You can raise the presser foot to three positions with your knee-lifter; pivot height, up, and extra lift position. When moving the presser foot to the extra lift position, the machine drops the feed teeth, allowing you to easily place thick fabrics underneath the presserfoot. The feed teeth will raise automatically when you start to sew.

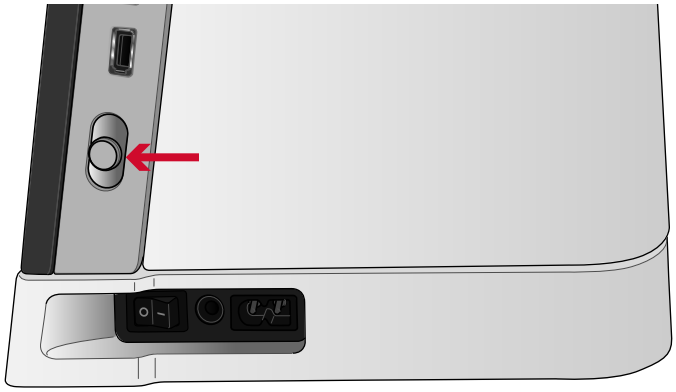
To remove the knee-lift, just pull it straight out of the hole.



Speed Control Lever

The speed control lever sets the maximum sewing speed. To increase sewing speed, slide the lever up, to decrease sewing speed, slide the lever down.

A pop-up appears on screen when adjusting the slider, indicating which speed level is set. The speed setting is also shown in the information area.



Thread Sensor

If the needle thread breaks or bobbin thread is running low, the machine stops and a pop-up appears on the screen.

If needle thread breaks: Remove the thread completely, re-thread the machine and touch OK in the pop-up.

If bobbin thread is running low: You can continue sewing without closing the pop-up before the bobbin thread runs out completely. This gives you an opportunity to plan where to stop and change the bobbin. When the bobbin is replaced with a full one, touch OK in the pop-up.

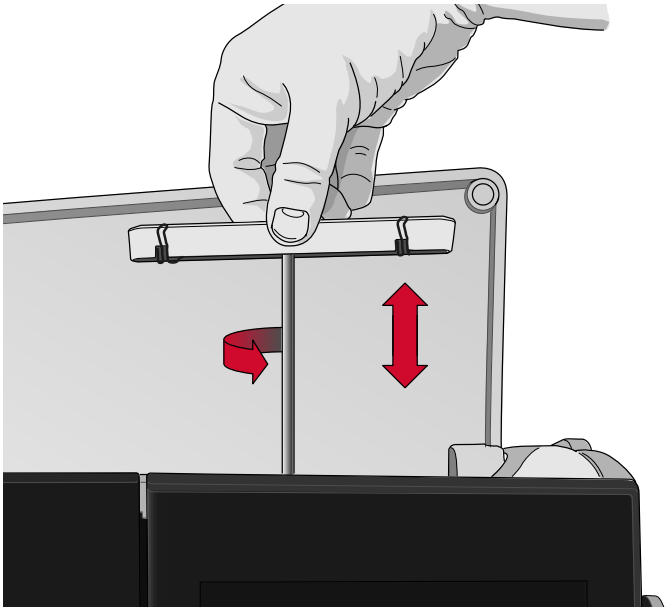
Telescopic Thread Guide

The telescopic thread guide is always used when threading your machine for sewing and bobbin winding. The telescopic thread guide helps straighten the thread, preventing it from tangling or breaking. The thread guide together with the vertical spool pins make it possible to successfully use very large thread cones.

Extending and Retracting the Telescopic Thread Guide

Hold the telescopic thread guide as illustrated and pull it straight up, turn it until it clicks into place.

To retract, hold the thread guide and push it straight down.



Spool Pins

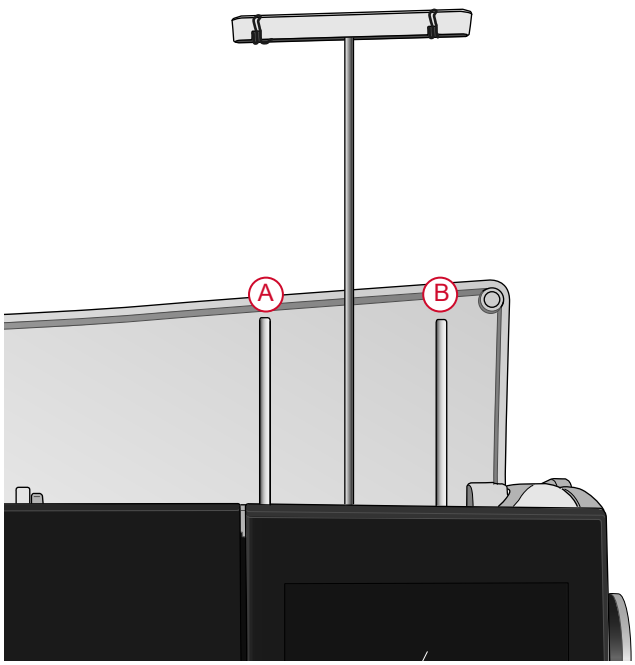
Your machine has two spool pins; a main spool pin and an auxiliary spool pin. The spool pins are designed for all types of thread.

Use the main spool pin (A) when threading the upper thread and for bobbin winding through the needle. For regular sewing and embroidery thread, use the main spool pin in vertical position. Place the spool pin in the horizontal position if you want to keep the machine threaded and close the lid when you have finished sewing. Remember to place the spool pin back in the vertical position when you start to sew again.

Note: Tilting the spool pins is not possible with large thread spools or cones.

You may get better results if you tilt the spool pin to the horizontal position when using small spools of specialty thread. See Threading Tips and Hints, page 34.

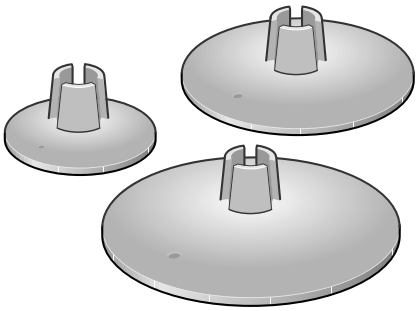
Use the auxiliary spool pin (B) when winding a bobbin from a second spool of thread or for a second spool when sewing with a twin needle.



Main spool pin (A) and auxiliary spool pin (B)

Spool Caps

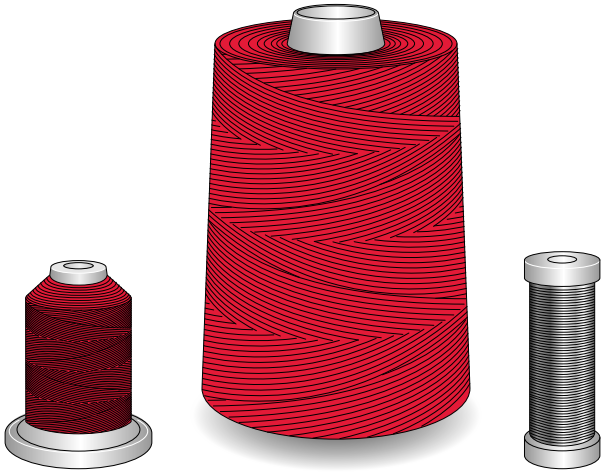
Spool caps in three sizes are included with your machine. For most types of thread spools, no spool cap is needed except when the thread on the spool is running low. If the thread is snagging on the top of the thread spool, place a spool cap on top. Always use a spool cap slightly larger than the thread spool to prevent the thread from snagging. The flat side of the spool cap should be pressed firmly against the spool. There should be no space between the spool cap and the thread spool.



Threads

There are many threads on the market today developed for different purposes.

Your performance icon™ machine is designed for all types of threads and spool sizes. See Threading Tips and Hints, page 34 for information on achieving optimal results with different types of thread and different sizes/styles of thread spools.



All Purpose Sewing Thread

All purpose sewing thread is made of synthetic, cotton or cotton covered polyester. This type of thread is used for most sewing projects, including garments, home decor, and quilting.

Decorative Thread

Decorative thread is made from a variety of fibers: rayon, polyester, acrylic or metallic. These threads create a smooth glossy appearance for decorative stitching.

Decorative thread is not typically used in the bobbin unless both sides of the project will be seen. A light weight, bobbin thread is often used in the bobbin instead. The lighter weight thread does not build up under the stitches.

Note: When using a metallic or a flat film thread, you may need to use a needle with a larger eye and lower the speed.

Transparent Thread

Transparent thread, also called monofilament thread, is a single clear synthetic thread. It is used for quilting and other sewing techniques. When winding a bobbin, wind at half speed and fill the bobbin half full.

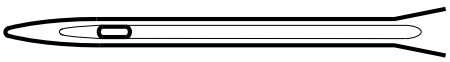
Needles

The sewing machine needle plays an important role in successful sewing. Use only quality needles. We recommend needles of system 130/705H. The needle package included with your machine contains needles of the most frequently used sizes.

⚠ *Be sure to match the needle to the thread you are using. Heavier threads require a needle with a larger needle eye. If the needle eye is too small for the thread the automatic needle threader may not work properly.*

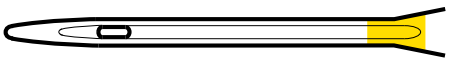
Universal Needle

Universal needles have a slightly rounded point and come in a variety of sizes. For general sewing in a variety of fabric types and weights.



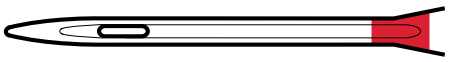
Stretch Needle

Stretch needles have a special scarf to eliminate skipped stitches when there is a flex in the fabric. For knits, swimwear, fleece, synthetic suedes and leathers.



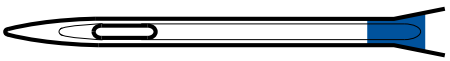
Embroidery Needle

Embroidery needles have a special scarf, a slightly rounded point and a slightly larger eye to avoid damage to thread and materials. Use with metallic and other specialty threads for decorative sewing.



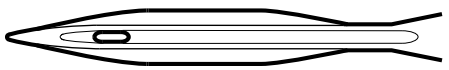
Denim Needle

Denim needles have a sharp point to penetrate tightly woven fabrics without deflecting the needle. For canvas, denim, microfibers.



Wing Needle

Wing needles have wide wings on the side of the needle to poke holes in the fabric when sewing entredeux and other hemstitches on natural fiber fabrics.

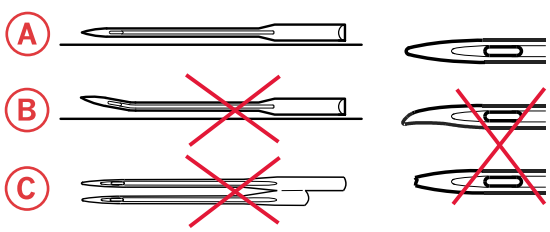


Important Needle Information

Change the needle often. Always use a straight needle with a sharp point (A).

A damaged needle (B) can cause skipped stitches, breakage or snapping of the thread. It can also damage the needle plate.

Do not use asymmetrical twin needles (C), they can damage your sewing machine.

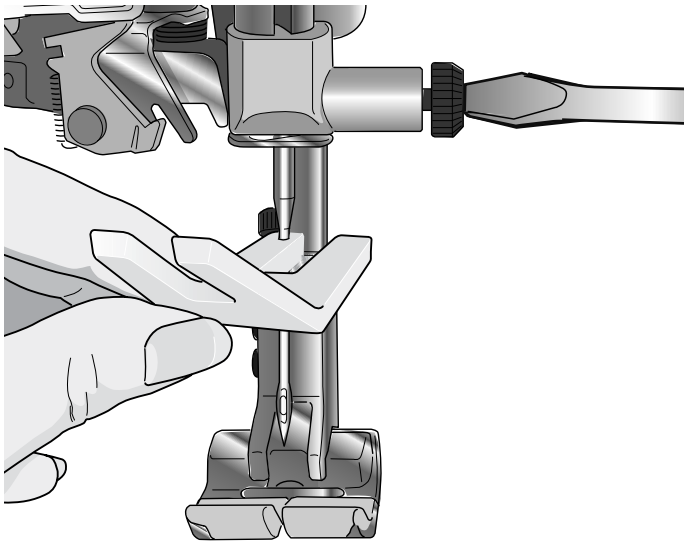


Changing the Needle

1. Use the hole in the multipurpose tool to hold the needle.
2. Loosen the needle screw.
3. Remove the needle.
4. Insert the new needle using the multipurpose tool. Push the new needle upwards with the flat side away from you until it will go no further.

   ⚠ *It is very important that the needle is inserted all the way in order for the automatic needle threader to work properly.*

5. Tighten the needle screw carefully.



Threading

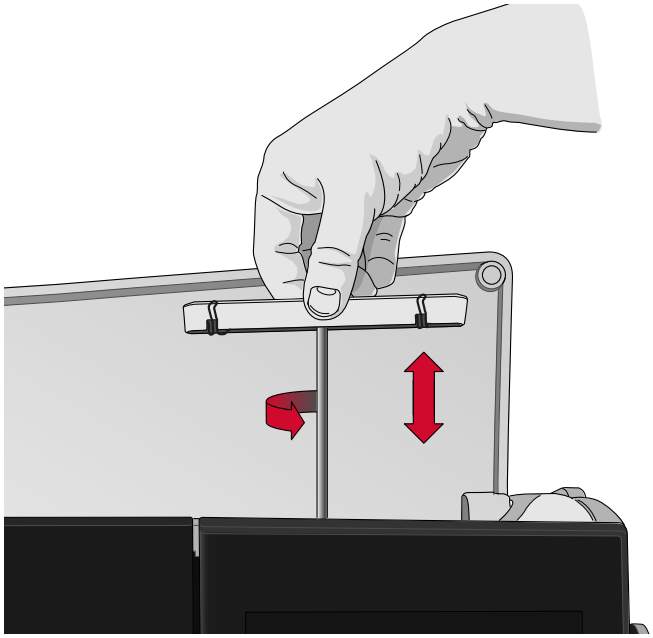
Make sure that the presser foot and needle are in the up position.

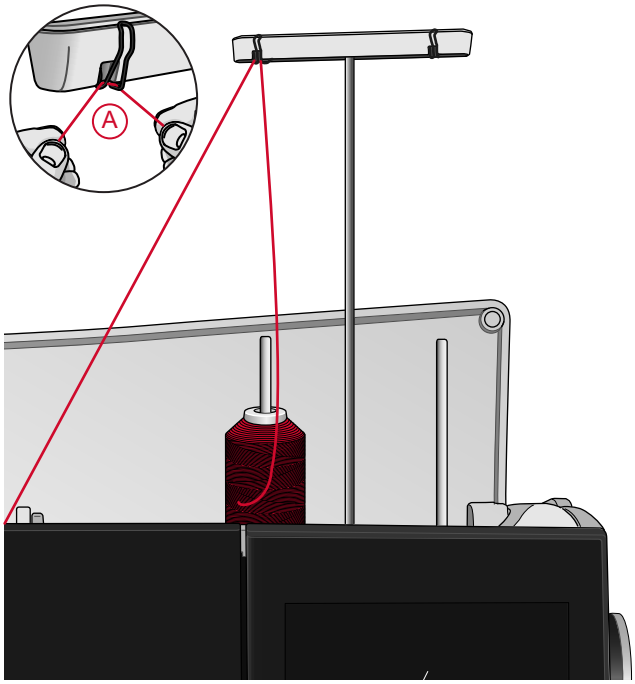
Threading the Upper Thread

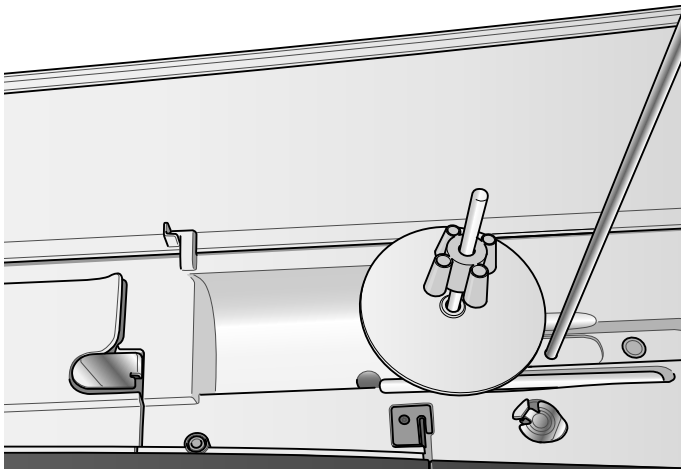
For most regular thread qualities and spool sizes, threading the upper thread from the main (left) spool pin in the vertical position is recommended for optimal sewing results.

If you experience problems with the thread or sewing result, there are alternative ways to position the thread spool. See Threading Tips and Hints, page 34.

1. Hold the telescopic thread guide and pull it straight up until it clicks into place.
2. Raise both spool pins to vertical position. Place the thread spool on the main spool pin (left).
   Using both hands, place the thread behind the left clip on the telescopic thread guide (A). The thread should run from right to left.





Note: When using thread cones, place a cone holder on the spool pin before placing the thread cone. This prevents the thread cone from wobbling.

Tip: When removing the thread cone from the spool pin, the cone holder might become stuck inside the thread cone. Push it out gently from the top.