

PFAFF®



expression™150

Owner's manual

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.

DANGER – To reduce the risk of electric shock:

- A sewing machine should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning.
- Always unplug before relamping. Replace bulb with same type rated 5 Watt.

WARNING – To reduce the risk of burns, fire, electric shock, or injury to person:

- 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.
- 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 controller 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.
- Always unplug sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
- 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 administered.
- 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.
- This sewing machine is provided with double insulation. Use only identical replacement parts. See instructions for Servicing of Double-Insulated Appliances.

SAVE THESE INSTRUCTIONS

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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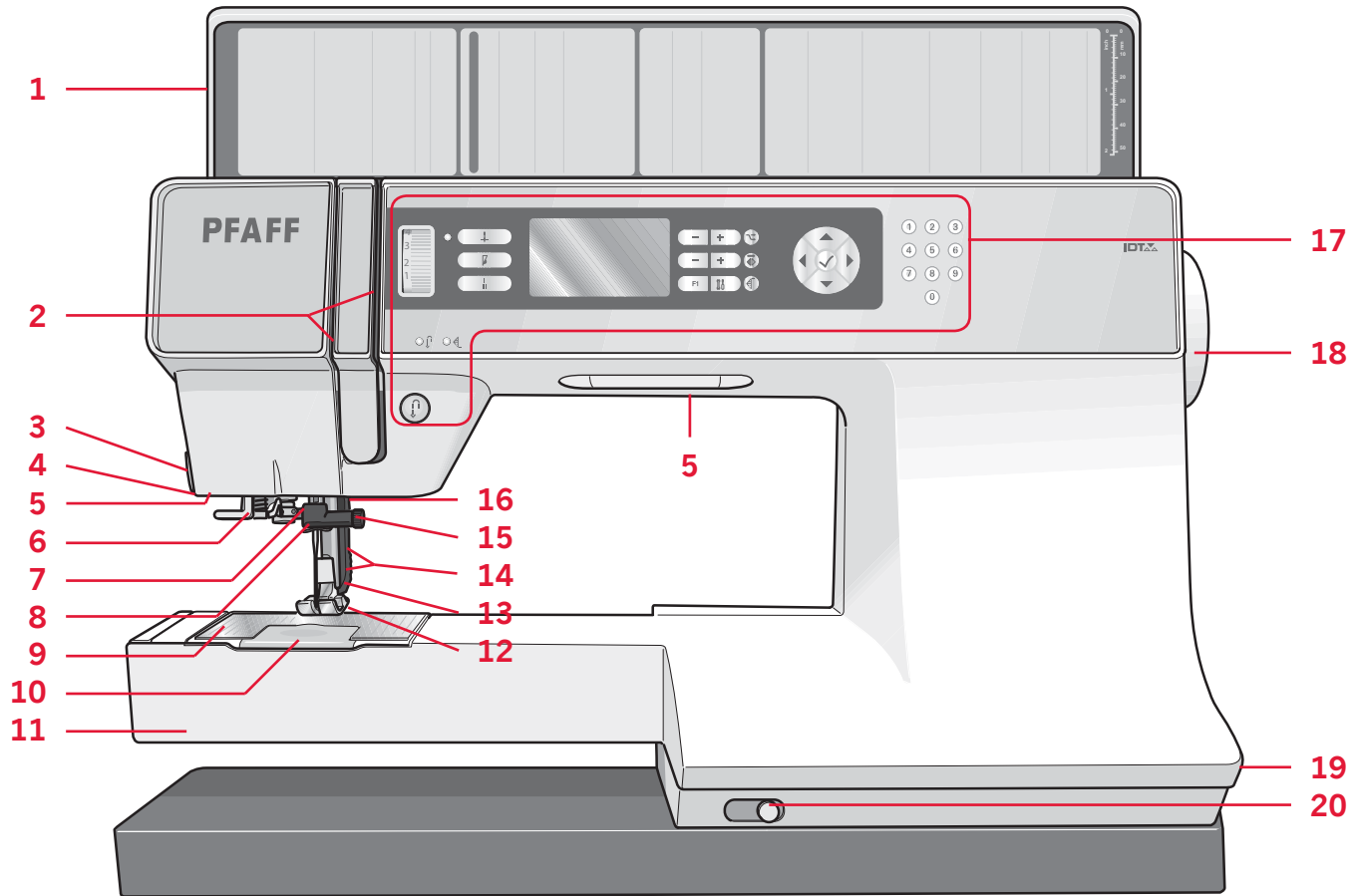
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Introduction

Machine overview

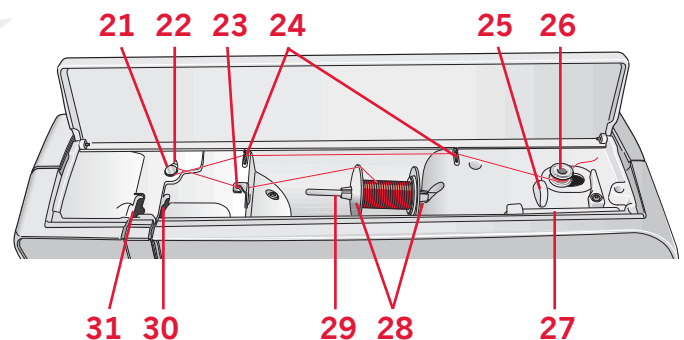


Front side

1. Lid with stitch overview and button ruler
2. Threading slots
3. Thread cutter
4. Sensomatic buttonhole foot socket
5. Light bulbs
6. Built-in needle threader
7. Needle bar
8. Needle thread guide
9. Stitch plate
10. Bobbin cover
11. Free arm
12. Presser foot
13. IDT™ system
14. Presser foot bar and presser foot holder
15. Needle screw
16. Presser foot lift
17. Buttons and graphic display
18. Handwheel
19. Main switch, connectors for power cord and foot control
20. Slide for lowering the feed dogs

Top parts

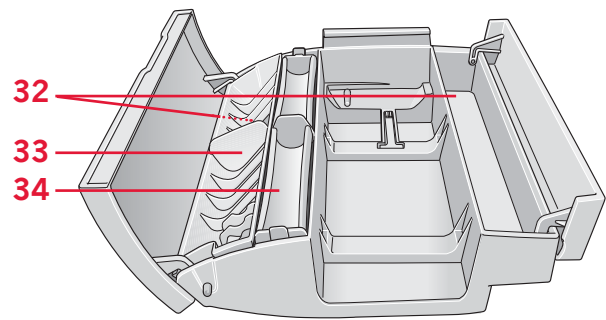
21. Pre-tension disk for threading and bobbin winding
22. Bobbin winder thread guide
23. Thread guide
24. Bobbin thread guides
25. Bobbin thread cutter
26. Bobbin winder lever and bobbin spindle
27. Auxiliary spool pin
28. Spool caps
29. Spool pin
30. Thread tension disk
31. Take-up lever



Accessory tray

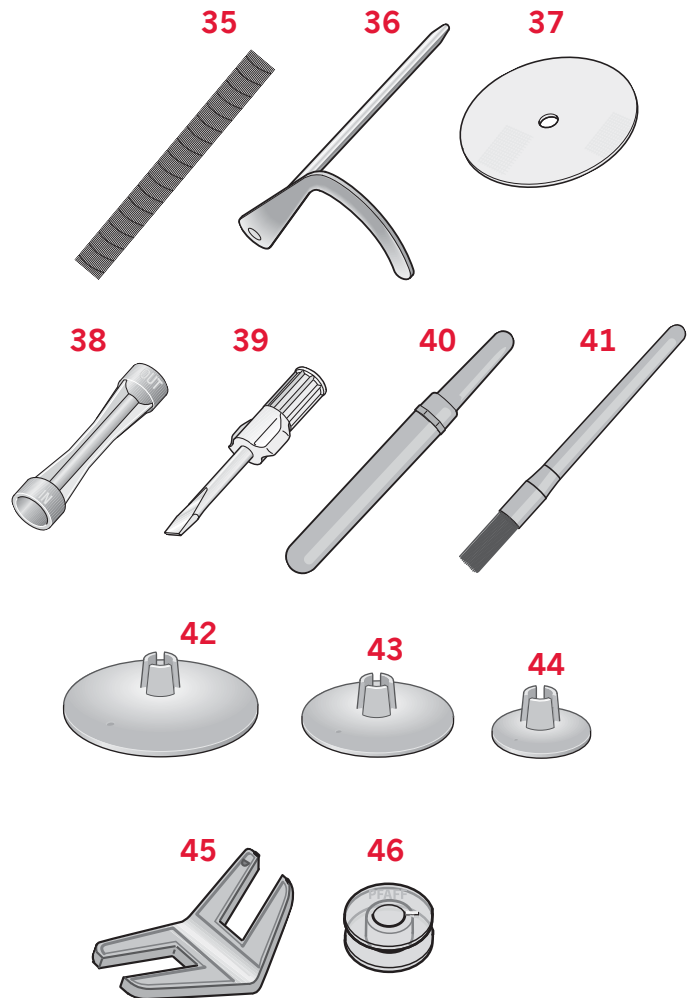
The accessory tray features special compartments for presser feet and bobbins, plus space for needles and other accessories. Store the accessories in the tray so they are easily accessible.

- 32. Space for accessories
- 33. Removable tray for presser feet
- 34. Removable bobbin holder



Included accessories

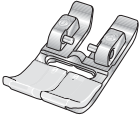


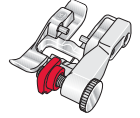

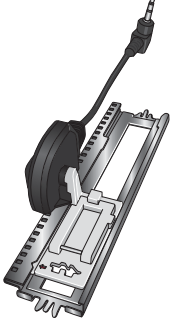
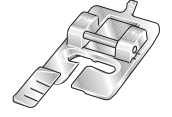
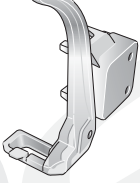
- 35. Thread net
- 36. Edge guide
- 37. Felt pad
- 38. Light bulb remover
- 39. Screwdriver
- 40. Seam ripper
- 41. Brush
- 42. Spool cap, large
- 43. Spool cap, medium
- 44. Spool cap, small
- 45. Multi-purpose tool
- 46. Bobbins



Included accessories not in picture

- Foot control
- Power cord
- Needles





















Presser feet

















	<p>Standard presser foot 0A with 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.</p>
	<p>Fancy stitch foot 1A with 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.</p>
	<p>Fancy stitch foot 2A 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.</p>
	<p>Blindhem foot 3 with 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.</p>
	<p>Zipper foot 4 with 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 the needle position to the right or left to sew closer to zipper teeth.</p>
	<p>Sensormatic buttonhole foot 5A When connected to the machine, the buttonhole is sewn in a suitable length to the button size that has been entered into the machine.</p>
	<p>Manual buttonhole foot 5M 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.</p>
	<p>Free-motion/Darning foot Insert the pin of the foot as far as it will go into the hole at the back of the presser foot holder. The "C-shaped" guide should be positioned around the presser foot bar. The long arm must be behind the needle bar. Tighten the screw.</p>

Important: Make sure that the IDT™ system is disengaged when using presser foot 2A, 5A, 5M and the free-motion/darning foot.

























Stitch overview













Utility stitches

Stitch	Stitch number	Name	Description
	1	Straight stitch	For seaming and topstitching. Select from 37 different needle positions. <i>Note: This stitch makes a stronger tie-off than stitch 37.</i>
	2	Stretch triple straight stitch	Reinforced seam. Topstitching.
	3	Straight stitch reverse	Sew continuous reverse.
	4	Basting stitch	Single stitch used for basting. Touch foot control to sew one stitch. Move fabric manually to desired position and touch foot control again to sew another stitch.
	5	Zigzag stitch	Reinforce seams, clean finish, stretch sewing, lace insertion.
	6	Z-zigzag stitch	Appliqué, couching, eyelets.
	7	Stretch triple zigzag stitch	Elastic stitch for decorative hems or topstitching.
	8	Three-step zigzag stitch	Sewing elastic, darning, patching.
	9	Triple stretch stitch	Sewing elastic, darning, patching and decorative sewing.
	10	Honeycomb stitch	Decorative stitch for stretch fabrics and hems. Also used with elastic thread in the bobbin.
	11	Bridging stitch	Joining fabrics and quilt batting, decorative stitch for quilting, hemstitching.
	12	Foundation elastic stitch	Joining stitch for undergarments, terry cloth, leather, bulky fabrics where overlapping the seams.
	13	Crosshem stitch	Elastic decorative hem for stretch fabrics.
	14	Blindhem stitch	Sewing blindhems on woven fabrics.
	15	Elastic blindhem stitch	Sewing blindhems on stretch fabrics.
	16	Stretch tricot stitch	Sewing seams on stretch fabrics.
	17	Closed overlock	Seam and overcast stretch fabrics in one step.
	18	Closed overlock	Seam and overcast in one step with reinforced edge.
	19	Elastic overcast	Seam and overcast stretch fabrics in one step.
	20	Overlock	Seam and overcast stretch fabrics in one step.

Stitch	Stitch number	Name	Description
	21	Closed overlock	Seam and overcast in one step, patch, hem.
	22	Stretch knit overlock	Seam and overcast stretch fabrics in one step.
	23	Mock cover hem	Create the look of a serger cover hem for stretch fabrics.
	24	Closed overlock blind hem	Create decorative overlock blindhem for stretch fabrics.
	25	Linen buttonhole	Buttonhole for blouses, shirts and linen.
	26	Standard buttonhole	Basic buttonhole for blouses, shirts and jackets. Also for pillowcases.
	27	Rounded buttonhole with pointed tack	Buttonhole for garments.
	28	Eyelet buttonhole with pointed tack	Tailors buttonhole or decorative buttonhole.
	29	Rounded buttonhole	Buttonhole for light garments or jackets.
	30	Bound buttonhole	Foundation stitch for bound buttonhole.
	31	Button sewing	Sew on buttons or tacking.
	32	Eyelet	Heirloom sewing decorative trim.
	33	Programmable darning stitch	Darning holes or damaged fabric.
	34	Programmable reinforced darning stitch	Reinforced darning holes or damaged fabric.
	35	Bartack	Automatically reinforce seams and pockets.
	36	Cross bartack	Automatically reinforce seams and pockets.

Quilt stitches

																							
37*	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60

																						
61	62	63	64	65	66	67	68	69	70	71	72											

* This stitch makes a more decorative tie-off than stitch 1.

Needle art stitches

73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96

97	98	99	100

Decorative stitches

101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124

125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148

149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172

173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192

Optional feet stitches

Stitch	Stitch number	Name	Description
	193	Beading stitch 4mm	For sewing on pearls, beads etc. Requires optional Beading Foot, delivered in a separate package with your PFAFF® expression™ sewing machine.
	194	Beading stitch	For sewing on pearls, beads etc. Requires optional Beading Foot, delivered in a separate package with your PFAFF® expression™ sewing machine.
	195	Candlewicking	Create the look of hand embroidered French knots. Requires optional Candlewicking Foot w/ IDT™ system (Part number 820613-096).
	196	Candlewicking	Create the look of hand embroidered French knots. Requires optional Candlewicking Foot w/ IDT™ system (Part number 820613-096).
	197	Three part decorative stitch	For sewing on yarn and cord. Requires optional Three Hole yarn Foot w/ IDT™ system (Part number 820920-096).
	198	Three part decorative stitch	For sewing on yarn and cord. Requires optional Three Hole yarn Foot w/ IDT™ system (Part number 820920-096).
	199	Edge stitch	Use for edge finish or applique. Requires optional Bi-level Topstitch Foot w/ IDT™ system (Part number 820676-096).
	200	Edge stitch	Use for edge finish or applique. Requires optional Bi-level Topstitch Foot w/ IDT™ system (Part number 820676-096).

Preparations

Unpacking

1. Place the box on a steady, flat surface. Lift the machine out of the box, remove the outer packaging and lift off the machine carrying case.
2. Remove all outer packing material and the plastic bag.
3. Slide off the accessory tray and remove the styrofoam inside.

Note: Styrofoam left in the accessory tray while sewing may affect stitch quality. The styrofoam is for packing purposes only and should be removed.

Connect to the power supply

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).

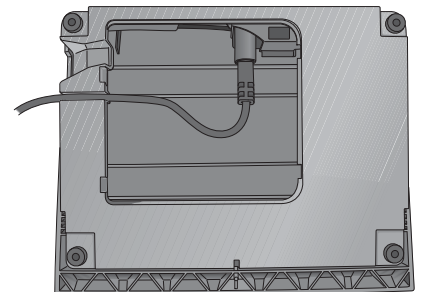
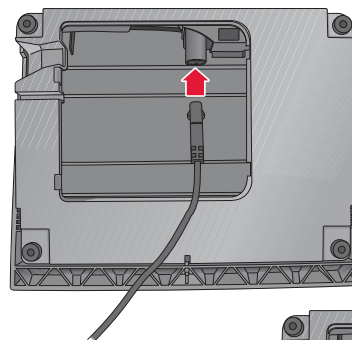
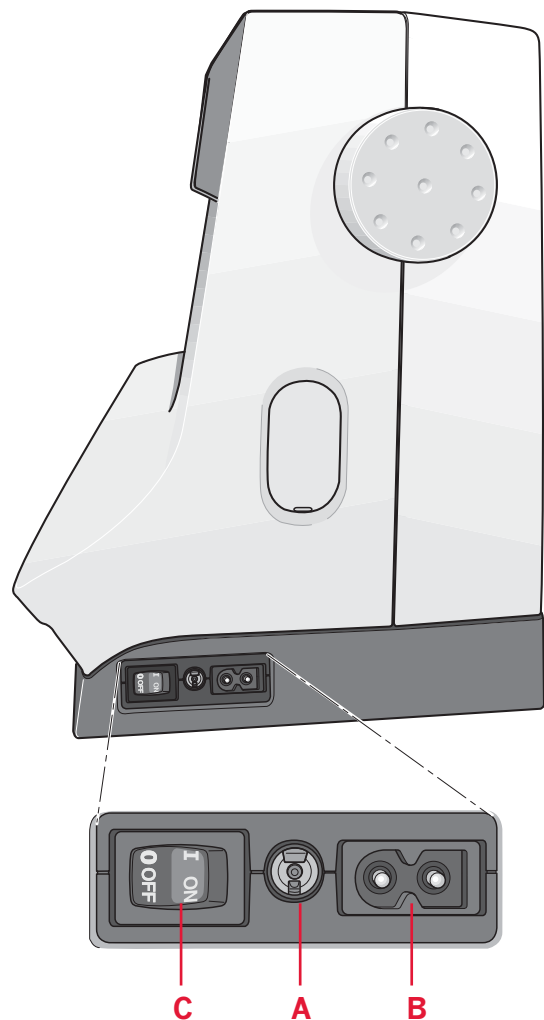
1. Take out the foot control cord. Turn the foot control over. Connect the cord to the socket inside the space of the foot control. Push firmly to make sure it is properly connected. Lay the cord in the slot on the underside of the foot control.

Note: Connecting the foot control cord to the foot control is only necessary the very first time you are going to use the machine.

2. Connect the foot control cord to the front socket on the bottom right side of the machine (A).
3. Connect the power cord to the rear socket on the bottom right side of the machine (B). Plug the cord into the wall socket.
4. Press the ON/OFF switch to ON to turn on power and light (C).

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

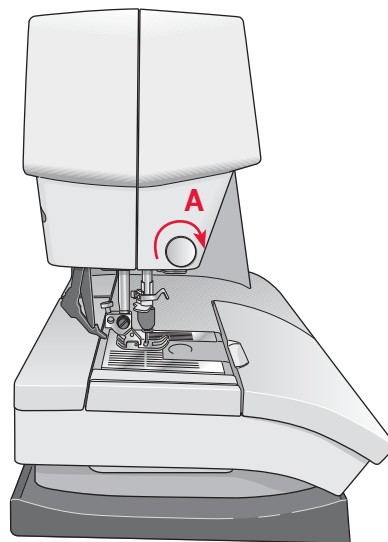
1. Switch the main switch off.
2. Unplug the cord from the wall socket and then from the machine.
3. Unplug the foot control cord from the machine. Wind the cord around the foot control for easy storage.
4. Place all accessories in the accessory tray. Slide the tray on to the machine around the free arm.
5. Place the foot control in the space above the free arm.
6. Put on the hard cover.

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.

Thread cutter

To use the thread cutter, pull the thread from back to front as shown (A).



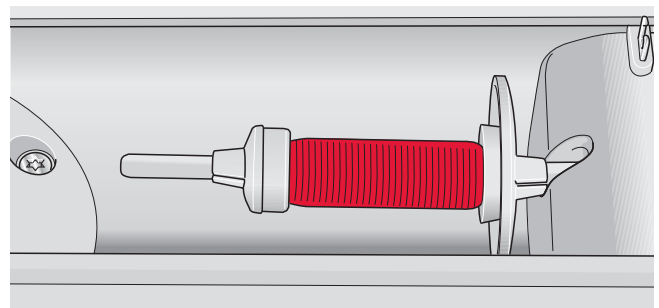
Spool pins

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. The main spool pin is adjustable and can be used both in a horizontal position (the thread reels off the spool) and a vertical position (the thread spool rotates). Use the horizontal position for normal threads and the vertical position for large spools or specialty threads.

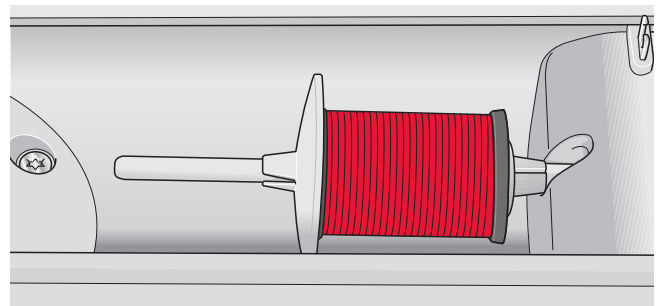
Horizontal position

Place a spool cap and the thread spool on the spool pin. Make sure that the thread reels over the top and slide on a second spool cap.

Use a spool cap slightly larger than the thread spool. For narrow thread spools, use a smaller spool cap in front of the spool. For large thread spools, use a larger spool cap in front of the spool. 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.



Small spool cap



Large spool cap

Vertical position

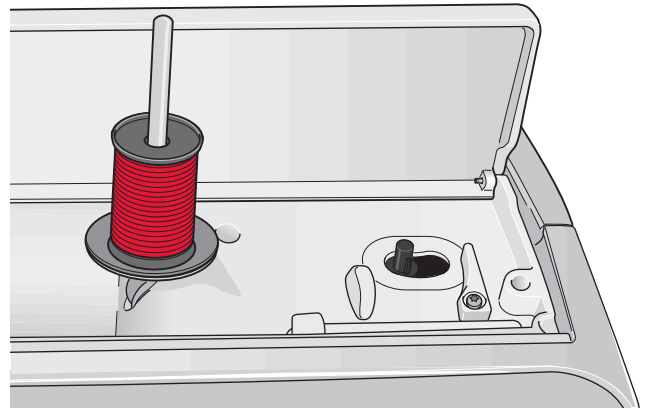
Raise the spool pin to the vertical position. Slide on the large spool cap and place a felt pad under the thread spool. This is to prevent the thread from reeling off too fast.

Do not place a spool cap on top of the spool pin as that would prevent the spool from rotating.

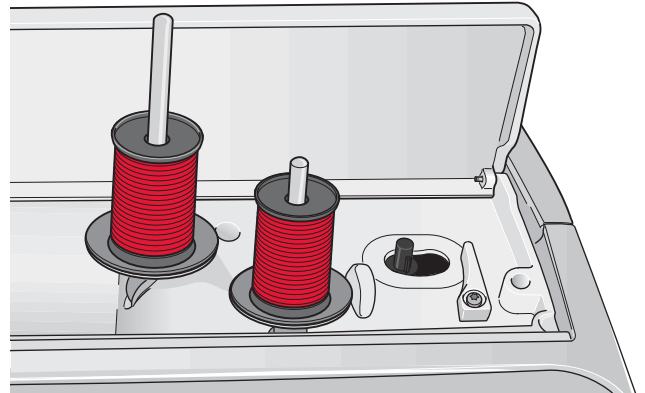
Auxiliary spool pin

The auxiliary spool pin is used when winding a bobbin thread from a second spool of thread or for a second spool when sewing with a twin needle.

Raise the auxiliary spool pin. Slide on a large spool cap and place a felt pad under the thread spool.



Main spool pin in vertical position

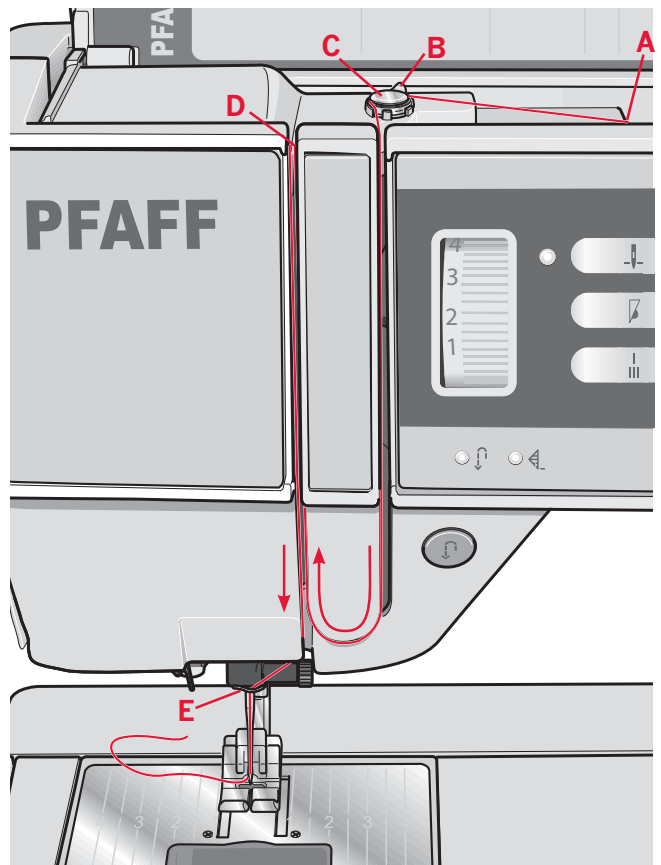
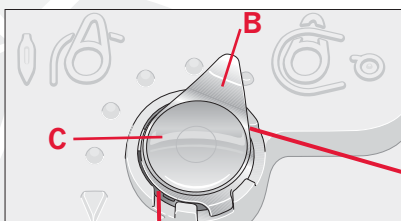


Auxiliary spool pin and main spool pin in vertical position.

Threading the machine

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

1. Place the thread on the spool pin and fit a spool cap of the right size.
2. Pull the thread into the thread guide (A) from the front to the back. Pull the thread from the right underneath the bobbin winder thread guide (B) on the pre-tension disc (C).
3. Thread down through the right-hand threading slot and then upwards through the left-hand threading slot.
4. Bring the thread from the right into the take-up lever (D) and down in the left-hand threading slot to the needle thread guide (E).
5. Thread the needle.

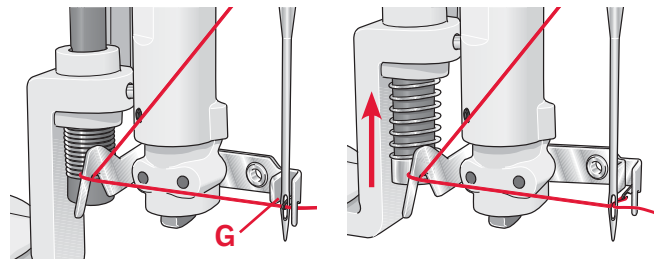
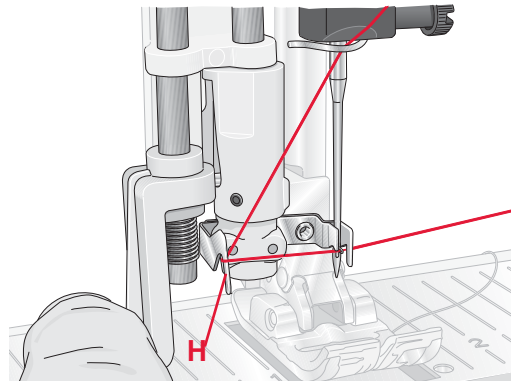


Needle threader

The needle threader allows you to thread the needle automatically. The needle must be in the up position to use the built-in needle threader. We also recommend lowering the presser foot.

1. Use the handle to pull the needle threader all the way down. The threader hook (G) swivels through the needle eye.
2. Place the thread from the back over the hook (H) and under the thread hook (G).
3. Let the needle threader gently swing back. The hook pulls the thread through the needle eye and forms a loop behind the needle. Pull the thread loop out behind the needle.

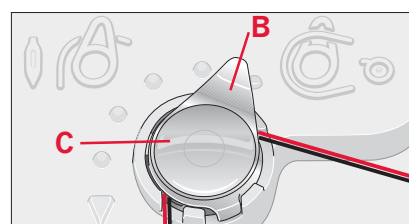
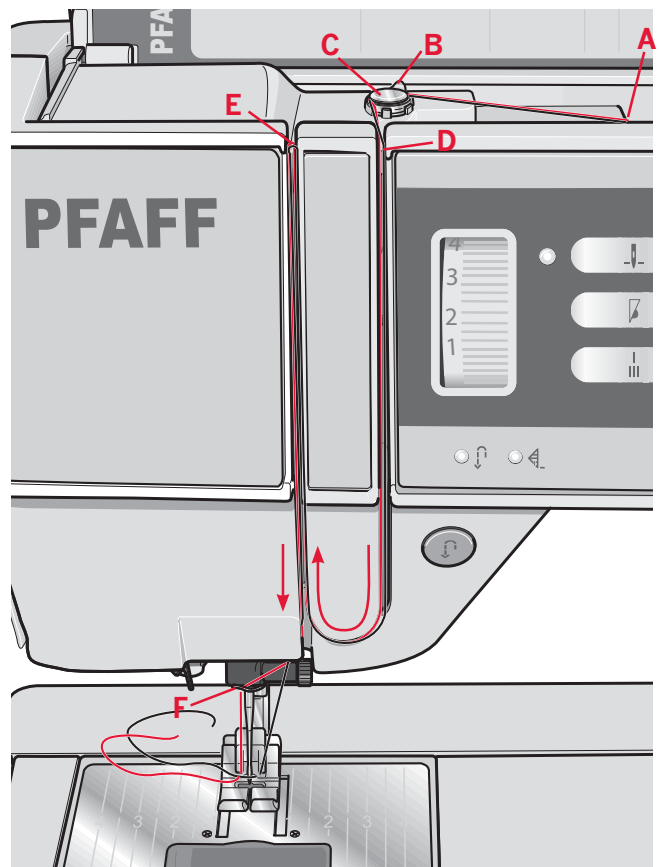
Note: The needle threader is designed to be used for size 70-120 needles. You cannot use the needle threader for size 60 needles or smaller, a wing needle, twin needle or triple needle. There are also some optional accessories that require manual threading of the needle.

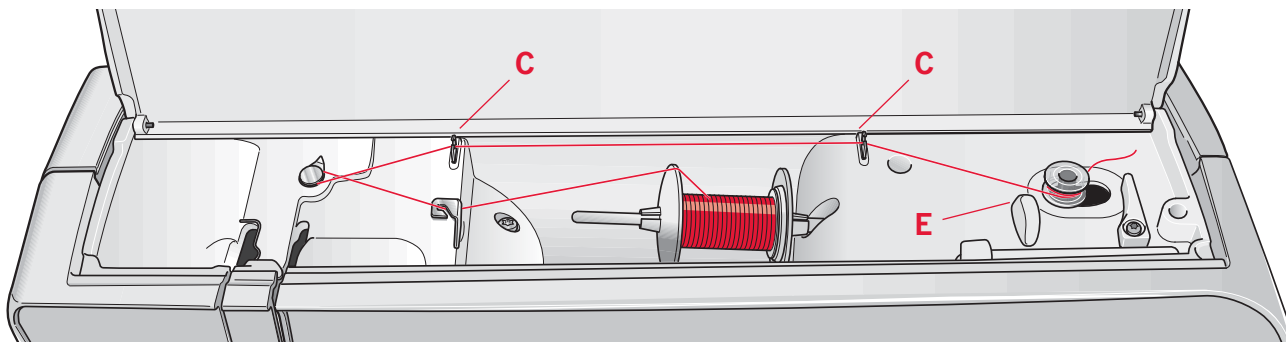


Threading for twin needle

Replace the sewing needle with a twin needle. Make sure that the presser foot is raised and the needle is in the up position.

1. Place the thread on the spool pin and fit a spool cap of the right size. Raise the auxiliary spool pin. Slide on a large spool cap and a felt pad. Place the second thread on the spool pin.
2. Pull the threads into the thread guide (A) from the front to the back. Pull both threads from the right underneath the bobbin winder thread guide (B) on the pre-tension disc (C).
3. Thread down through the right-hand threading slot and then upwards through the left-hand threading slot. Make sure that you pass one thread to the left and one thread to the right sides of the tension disk (D).
4. Bring the threads from the right into the take-up lever (E) and down in the left-hand threading slot. Make sure that one thread is inside the needle thread guide (F) and the other one outside. Make sure that the threads do not become twisted together.
5. Thread the needles.





Bobbin winding

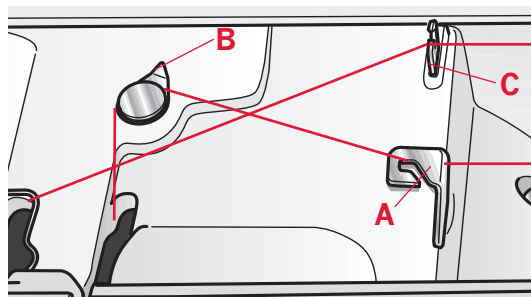
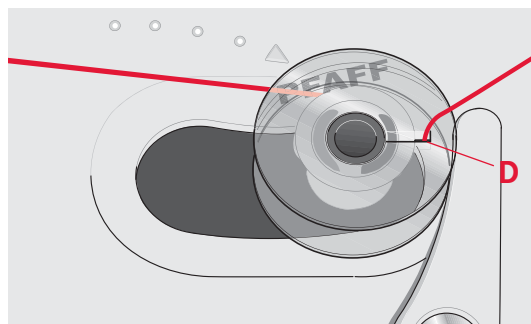
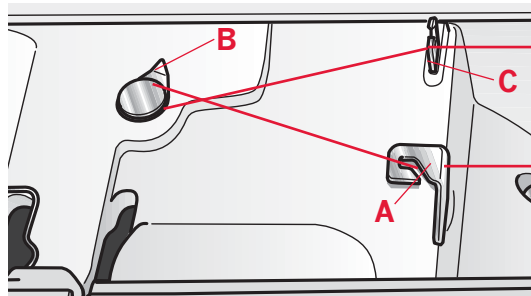
Winding from horizontal position

1. Place an empty bobbin on the bobbin spindle, with the logo facing up. Use only the original PFAFF® bobbins approved for this model.
2. Place the thread spool on the spool pin in horizontal position. Slide a spool cap tightly against the spool.
3. Place the thread into the thread guide (A) from front to back. Pull the thread counter-clockwise above the bobbin winder thread guide (B) and then through the bobbin thread guides (C) at the rear.

Note: Make sure the thread is pulled securely inside the pre-tension device for correct thread tension.

4. Thread through the hole in the bobbin (D) from the inside to the outside.
5. Push the bobbin lever to the right to wind. A pop-up appears on the screen to inform you that bobbin winding is active. Press the foot control to start winding the bobbin.

When the bobbin is full, the bobbin winding will slow down and stop automatically. The pop-up closes. Remove the bobbin and cut the thread using the bobbin thread cutter (E).



Winding through the needle

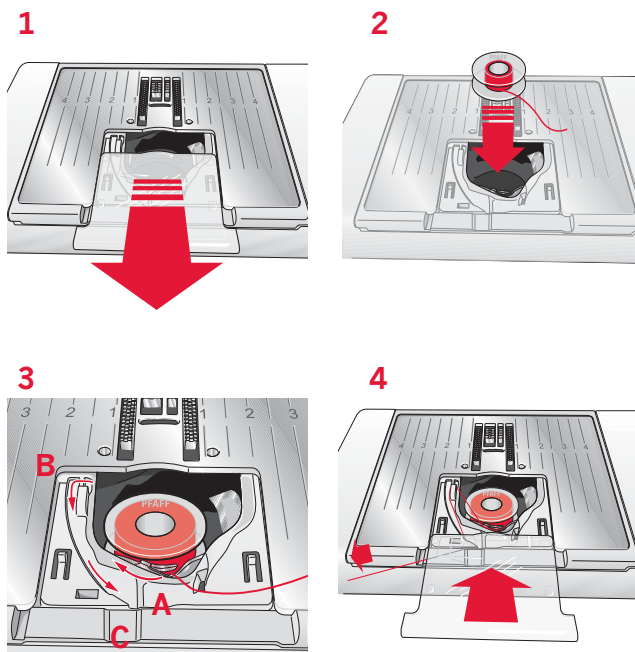
Make sure that the presser foot and the needle are in the up position. Only wind through the needle if using a metal presser foot.

Bring the thread up from the needle, under the presser foot, upward through the left-hand threading slot and through the bobbin thread guides (C). Then follow step 4 and 5 above.

Inserting the bobbin

1. Remove the bobbin cover by sliding it towards you.
2. Place the bobbin in the bobbin case with the logo facing up and the thread unreeling from the left of the bobbin. The bobbin will then rotate counter-clockwise when you pull out the thread.
3. Place your finger on the bobbin to keep it from turning as you pull the thread firmly to the right and then to the left into the tension spring (A) until it “clicks” into place.
4. Continue threading around (B) and to the right of the thread cutter (C). Replace the cover. Pull the thread to the left to cut.

Note: The bobbin cover can be used as a magnifying glass.



IDT™ system (integrated dual feed)

For sewing any fabric precisely PFAFF® expression™ sewing machine provides the ideal solution: the integrated dual feed, IDT™ system. As on industrial machines, the IDT™ system feeds the fabric from the top and bottom at the same time. The material is fed precisely. On light fabrics such as silk or rayon the dual feed prevents puckering of the seam. The even feeding action also ensures perfect matching of checked and striped fabrics. The IDT™ system keeps all layers of quilt projects aligned to prevent shifting of the top layers.

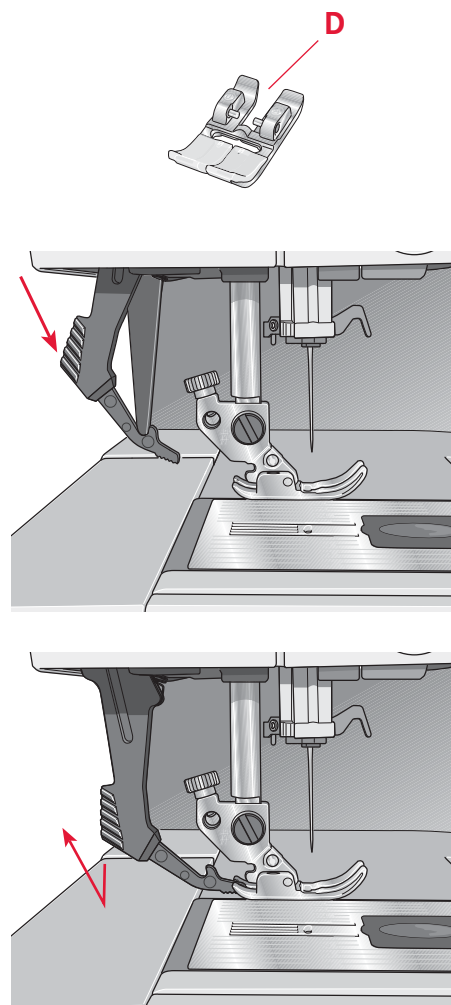
Engaging the IDT™ system

Important: For all work with the IDT™ system, use presser feet with the center back cut-out (D).

Raise the presser foot. Press the IDT™ system down until it engages.

Disengaging the IDT™ system

Raise the presser foot. Hold the IDT™ system with two fingers at the ribbed ankle. Pull the IDT™ system down, then pull it away from you to release the IDT™ system slowly upward.



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.

Universal needle (B)

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 (C)

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. Marked with a yellow band.

Embroidery needle (D)

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 embroidery and decorative sewing. Marked with a red band.

Denim needle (E)

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

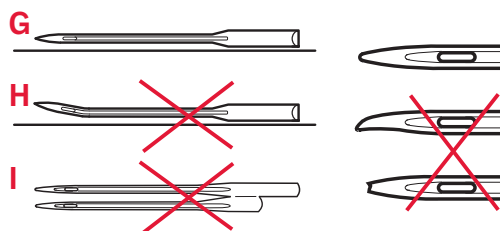
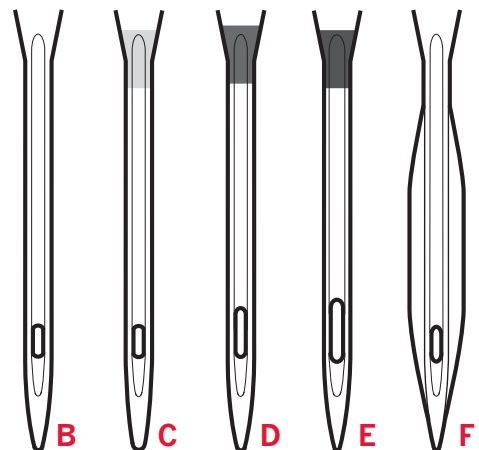
Wing needles (F)

The Wing Needle has wide wings on the side of the needle to poke holes in the fabric when sewing entredoux and other hemstitches on natural fiber fabrics. Decrease the stitch width for best results.

Note: Change the needle often. Always use a straight needle with a sharp point (G).

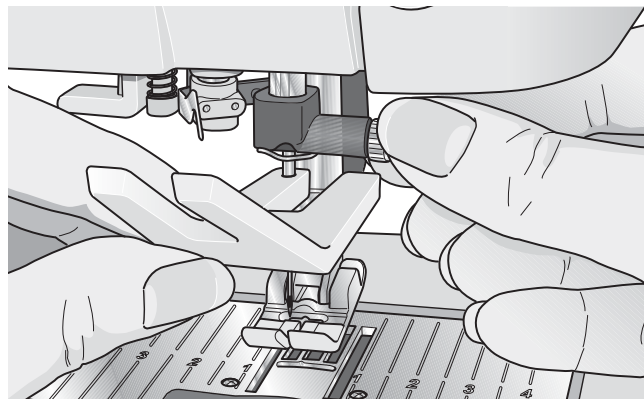
A damaged needle (H) can cause skipped stitches, breakage or snapping of the thread. A damaged needle can also damage the stitch plate.

Do not use asymmetrical twin needles (I), since it may damage your sewing machine.



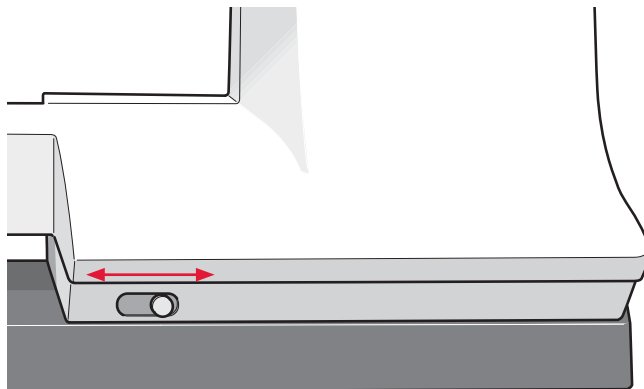
Changing the needle

1. Use the hole in the multi-purpose tool to hold the needle.
2. Loosen the needle screw. Use the screw driver if necessary.
3. Remove the needle.
4. Insert the new needle, using the multi-purpose tool. Push the new needle upwards with the flat side away from you until it will go no further.
5. Tighten the needle screw as tight as it will go.



Lowering feed dogs

You can lower the feed dogs by moving the switch on the front of the sewing machine to the left. Move the switch to the right if you wish to raise the feed dogs.



Changing the presser foot

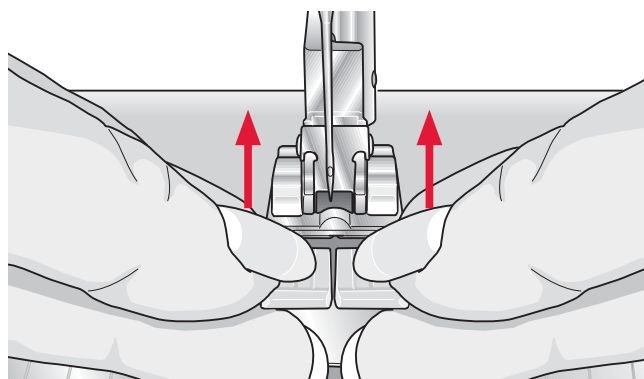
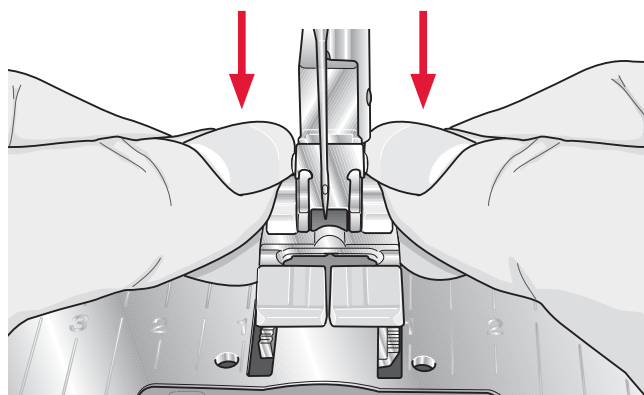
Remove presser foot

Press the presser foot downwards until it disengages from the presser foot holder.

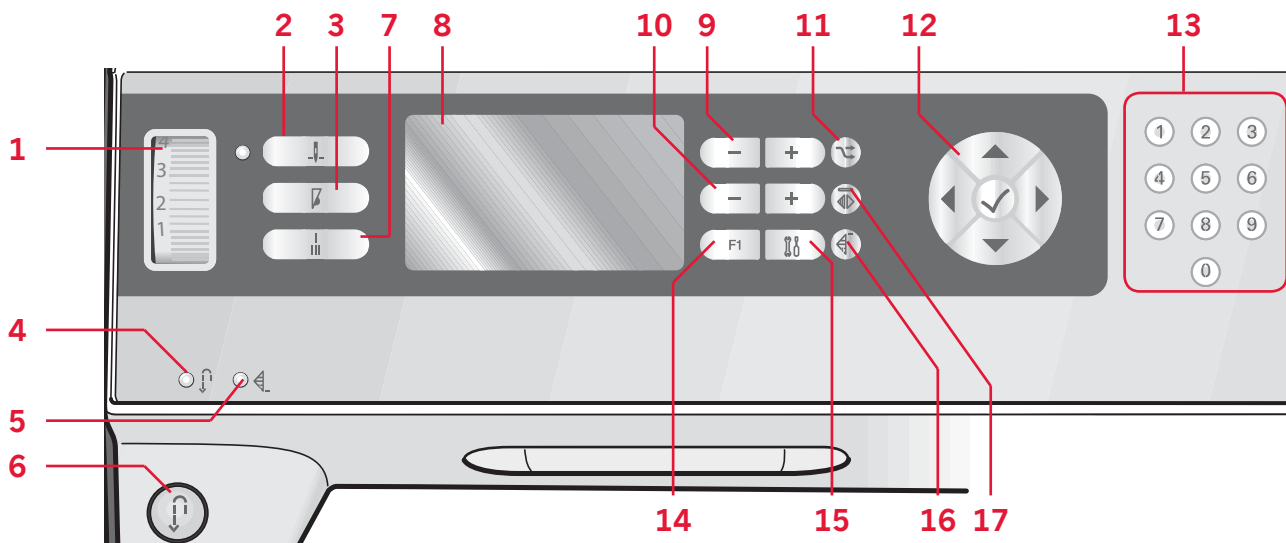
Attach presser foot

Place the presser foot under the presser foot holder, so that when the presser foot is lowered, the pins of the foot engage in the presser foot holder.

Note: Check that the presser foot is properly attached by raising the presser foot.



Buttons



Thread tension dial (1)

If needed, adjust the top thread tension using the markings on the tension dial.

Needle up/down with indicator (2)

Press this button to move the needle up or down. The setting of the needle stop position is changed at the same time. When needle down is activated, the indicator is lit, the needle will stop in the down position.

You can also tap the foot control to raise or lower the needle.

Speed control (3)

Press the speed button to reduce the sewing speed by half. An icon on the graphic display will indicate that your machine is set to half speed. Press the speed button again to resume full speed.

Reverse (6) with indicator (4)

For permanent reverse, press the button before starting to sew. The reverse indicator (4) will be lit and the machine sews in reverse until you press the button again to cancel.

If you press the reverse button while sewing, the machine sews in reverse for as long as you keep the button pressed. The reverse indicator is lit when the reverse button is pressed.

Reverse is also used when sewing buttonholes, programmed tie-off end and darning stitches to step between the parts of the stitch.

Programmed tie-off indicator (5)

The programmed tie-off indicator is lit to indicate that one or several tie-off options are activated. The indicator stays lit until the tie-off options are no longer in use.

Immediate tie-off (7)

Press the tie-off button while sewing and your machine sews a few tie-off stitches and stops automatically.

Graphic display (8)

The graphic display lets you view all your selections and options. Stitches are shown in real size.

Stitch width or stitch positioning (9)

Increase or decrease the stitch width using the + and - buttons.

Press the alternatives button (11) to view the stitch positioning for the selected stitch. Use the + and - buttons to change the stitch position.

Stitch length or stitch density (10)

Increase or decrease the stitch length using the + and - buttons.

Press the alternatives button (11) to view the density setting for satin stitches. Use the + and - buttons to change the density for the selected stitch.

Alternatives (11)

When you select a decorative stitch, the width and length settings will be shown on the graphic display. By pressing the alternatives button, the stitch positioning will be shown instead of the stitch width setting and the density will be shown instead of the length setting.

Wheel (12)

Use these buttons to move around the graphic display. The wheel has up and down arrow buttons, left and right arrow buttons and the wheel center icon is a checkmark for OK.

They have several functions, for example stepping between stitches, setting the size of a buttonhole and moving between options in the settings menu. Confirm your selections with the wheel center icon for OK.

Direct selection (13)

By pressing one of, or a combination of, the 0 to 9 buttons, you select the stitch represented by that number immediately.

F1 - Function 1 (14)

The F1 button is used to activate the tie-off options. It is also used to repeat buttonholes and to deactivate repeat for darning stitches. All selections will be shown on the graphic display.

Settings menu (15)

Press this button to open the menu for machine settings.

Stitch restart (16)

When having stopped sewing in the middle of a stitch, press restart to start sewing at the beginning of the stitch again without having to reset any special settings you have made.

If pressing the stitch restart button while sewing, the stitch will be finished and the machine will then stop.

Mirror side to side (17)

For mirroring stitches side to side.

Settings menu


In the settings menu, you can override default settings and make manual adjustments to the machine settings, sound settings and screen settings.


Open the menu by pressing the settings menu button and select the setting you wish to adjust by pressing the up and down arrow buttons on the wheel.

Use the left and right arrow buttons to adjust the values and activate settings or open a list of choices by pressing OK. A filled box means it is activated, an empty box means it is not activated.

Note: If a setting cannot be combined with a previously selected setting, the outlines of that box will be dashed.

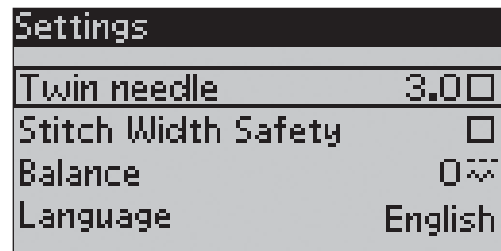
There are two icons which are shown next to some of the setting alternatives.

 This icon shows you that the setting will be kept until you select another stitch.

 This icon shows you that the setting will be kept until you switch your machine off.


No icon means that this setting is kept until you deactivate it.

Press the settings menu button again to leave the settings menu.



Twin needle

Activate the twin needle program and use the left and right arrow buttons on the wheel to set the twin needle width. When a twin needle size is selected, the width of all stitches is limited for that needle size to prevent needle breakage.

 In sewing mode the twin needle recommendation icon will be shown.

The setting is kept until you deselect the twin needle setting.

Note: Twin needle and stitch width safety cannot be used at the same time.

A warning pop-up will be shown if you select a stitch that is too wide for the set twin needle size.

Stitch width safety

Select this function when using a straight stitch needle plate or a straight stitch presser foot to lock the center needle position for all stitches to prevent damage to the needle, presser foot or needle plate.

 In sewing mode the stitch width safety icon will be shown.

When turning on the machine with this setting activated and for every stitch selection that is not a straight stitch, a pop-up informs you that it is set to straight stitch. Deselect stitch width safety to go back to normal sewing.

Note: Twin needle and stitch width safety cannot be used at the same time.

Balance

When sewing on special fabrics or doing a special technique, the balance may need to be adjusted. Start by sewing a stitch on a piece of scrap fabric. Use the left and right arrow buttons to balance the stitch between -7 and 7. When you sew again, the balance will be adjusted.

The changes only affect the selected stitch. The setting will go back to default when you select another stitch.

Language

Use the left and right arrow buttons to change the language of all text in your machine.

Audible alarm

Turn all alarm sounds of the machine on or off. Default setting is on.

Contrast

Adjust the contrast of the graphic display by using the left and right arrow buttons. The value can be set between -20 to 20 in steps of 1.

Software version

Check the software version for your sewing machine.

Sewing

Sewing mode is the first view on the graphic display after you turn on the machine. Your selected stitch will be shown in real size in the stitch field. Here you will find all the basic information you need to start sewing. This is also the menu where you adjust the settings of your stitch. Straight stitch is selected by default.

Sewing mode - overview

1. Selected stitch number
2. Stitch field
3. Stitch width/stitch positioning
4. Stitch length/density
5. Tie-off options
6. Needle recommendation/setting



Set for twin needle



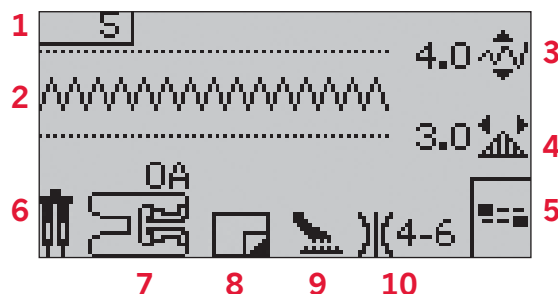
Wing needle recommended



Set for stitch width safety

7. Presserfoot recommendation
8. Stabilizer recommended
9. Feed dog/IDT™ system recommendation
10. Recommended tension

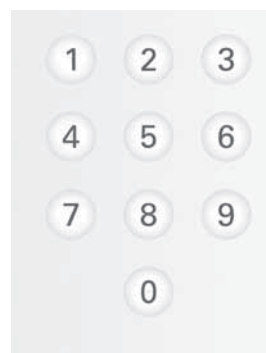
Note: All symbols and options will not be shown at the same time.



Select a stitch

By pressing one of the direct selection buttons, you select that stitch number immediately. Press two or three digits in quick succession to select a stitch from 10 and up. If the stitch number does not exist, you will hear a beep and the first entered digit will be selected as a stitch.

Use the up and down arrow buttons on the wheel to step between stitches.



Stitch adjustments

Your machine will set the best settings for each selected stitch. You can make your own adjustments on the selected stitch.

The setting changes only affect the selected stitch. Your changed settings will be reset to default when selecting another stitch. The changed settings are not automatically saved when turning your machine off. The set stitch width and the stitch length are shown next to the icons for each adjustment. When trying to exceed minimum or maximum settings for width and length, a warning sound will be heard.

Note: The numbers are highlighted when the setting is changed.

Stitch width (1)

Increase or decrease the stitch width using + and -.

Stitch length (2)

Increase or decrease the stitch length using + and -. If lengthening a zigzag stitch or a decorative stitch, the entire stitch will be longer. If lengthening a satin stitch where the density can be adjusted, the entire stitch will be longer but the density will remain the same.

Stitch positioning (3)

Press the alternatives button to show the stitch positioning instead of the stitch width. Use the + and - buttons to move the stitch to the left or right.

Note: This is only possible when using a stitch that is narrower than 9 mm. You can decrease the stitch width to make the stitch narrower if necessary.

Stitch density (4)

Press the alternatives button to show the density setting instead of the stitch length for satin stitches. Now the stitch length + and - buttons adjust the density. The stitch density does not affect the actual length of the entire stitch.

Note: This is often used with specialty threads and when a less dense satin stitch is desired. If you have selected a buttonhole, the graphic display will by default show the density setting instead of the stitch length setting.

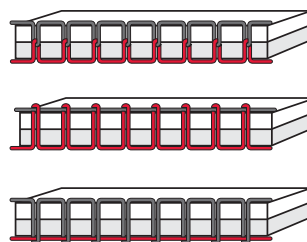
Thread tension

For the best stitch appearance and durability, make sure the needle thread tension is correctly adjusted, i.e. for general sewing, the threads evenly meet between the two fabric layers.

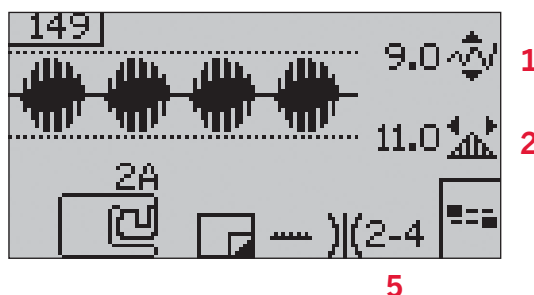
If the bobbin thread is visible on the top side of the fabric, the needle thread tension is too tight. Reduce the needle thread tension.

If top thread is visible on the underside of the fabric, the needle thread tension is too loose. Increase the needle thread tension.

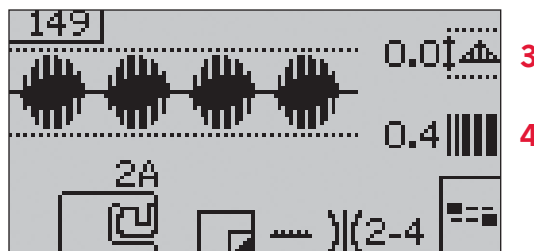
For decorative stitches and buttonholes, the top thread should be visible on the underside of the fabric.



Use the recommended thread tension setting given on the graphic display (5). Turn the numbered tension dial to set the tension.

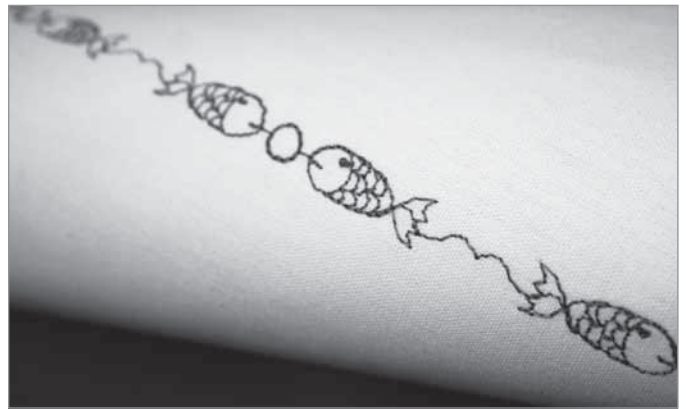


Press the alternatives button to view stitch positioning and density



Mirroring

To mirror stitches side to side, press the mirror side to side button.

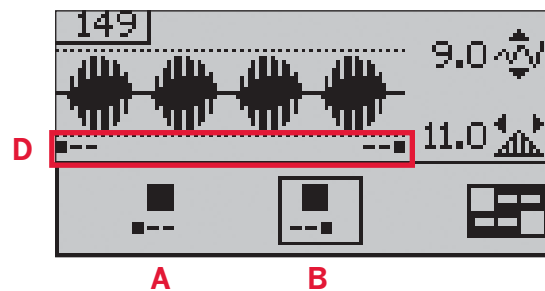


Tie-off options

The tie-off options let you program tie-offs both at the beginning (A) and the end (B) of the stitch.

1. Press the F1 button to open the tie-off options view.
2. Use the wheel to step between the options and press OK to select which functions you want to use.
3. When you have made your selections, close the view by pressing the F1 button again. Tie-off mini icons (D) will be shown on the graphic display, indicating which tie-off functions are selected. The selections will remain until you deselect them.

Note: For immediate tie-off, use the tie-off button, found on the front of the machine.



Sewing with tie-off options selected

1. The tie-off beginning (A) will be performed as soon as you start to sew.
2. Press the reverse button to activate tie-off end (B). The programmed tie-off indicator will be lit. The machine will finish the stitch and do a tie-off.

Note: Stop sewing and press the reverse button twice to activate reverse sewing. The reverse indicator will be lit. No tie-off will be performed.

Press the reverse button when sewing in reverse to activate tie-off end. Both the reverse indicator and the programmed tie-off indicator will be lit.

To go back to sewing forward, stop sewing in reverse and press the reverse button. No indicators will be lit and no tie-off will be performed.

3. To deactivate the tie-off options, use the wheel to step between the options and press OK for each one to deselect.

Mainmotor overload

If you are sewing on very heavy fabric or if the machine is blocked when sewing, the mainmotor can get overloaded and the machine will stop sewing. The pop-up message will close when the mainmotor and power supply are secure.



Sewing techniques

Quilting

A quilt usually consists of three layers, two layers of fabric with a layer of batting sandwiched between.

To sew three layers together, you have a wide variety of stitches and techniques to choose from.

Crazy quilt stitching

Embellish your quilt with decorative stitches. The stitches can be sewn in a coordinating or contrasting color. Decorative threads like rayon embroidery or heavy cotton threads are sometimes used.

Handlook quilting

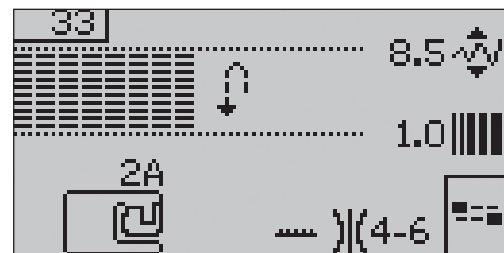
1. Baste the completed quilt top to the batting and backing.
2. Thread the needle with an invisible (monofilament) thread. Use contrasting or matching rayon or cotton thread in the bobbin.
3. Snap on the recommended foot shown in the sewing recommendations view.
4. Engage the IDT™ system.
5. When you sew the stitch you should only see your bobbin thread. Increase the needle tension as needed to produce the desired effect.



Darning

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

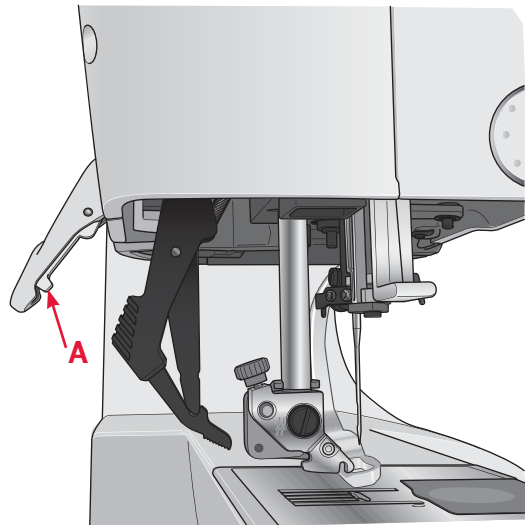
1. Place your garment with stabilizer in position under the presser foot.
2. Select a darning stitch.
3. Start sewing above the hole and over it.
4. Once you have sewn across the hole, press the reverse button to set the length of the stitch. Your sewing machine will automatically complete the stitch.
5. By default, the machine will be set to repeat the same size darning square, just continue sewing. The repeat icon will be highlighted, indicating that repeat is activated. Repeat is active until another stitch is selected.



Free-motion position

When using the free-motion/ darning foot, the presser foot needs to be in the free-motion position.

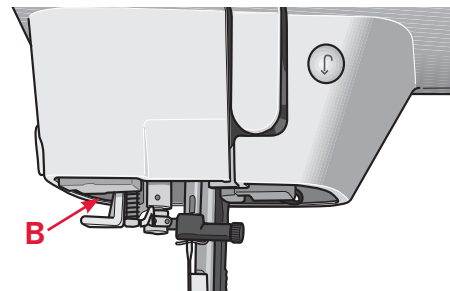
1. Disengage the IDT™ system and lower the feed dogs.
2. Attach the free-motion/ darning foot and select a stitch.
3. To engage the free-motion position, move the presser foot lift up and push the switch (A), on the underside of the lift, towards you until it snaps into place. Release the lift and it will be set in the free-motion position.
4. Test sew on a scrap piece of the fabric with the batting or stabilizer you will use. If necessary, increase thread tension for your desired result.
5. Start to sew.
6. To disengage the position, push the lift slightly upwards and the switch (A) away from you until it snaps into place.



Buttonholes

To sew a buttonhole, first attach the correct foot, then select your buttonhole. Make sure that the IDT™ system is disengaged. To ensure good results, start by sewing a test sample on a scrap piece of the fabric with the stabilizer you will use.

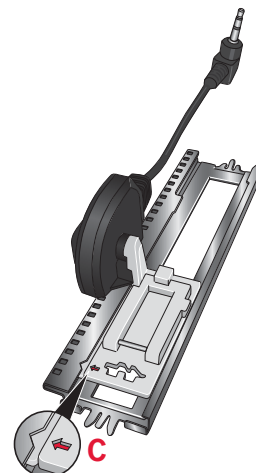
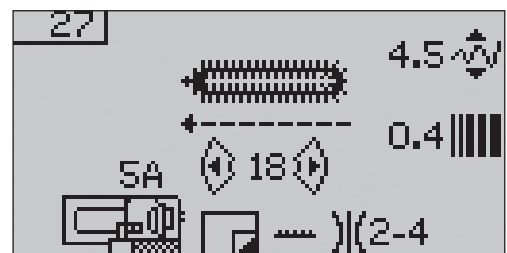
The direction of the stitches being sewn will be indicated on the screen by an arrow next to the buttonhole.



Sensormatic buttonhole

When you sew a buttonhole with the sensormatic buttonhole foot, adjust the slit length so that it is slightly larger than the size of the button.

1. Snap on the sensormatic buttonhole foot 5A.
2. Plug the cord into the socket (B) found to the left underside behind the light bulb.
3. Use the ruler on the lid to measure your button. Set the slit length using the left and right arrow buttons on the wheel.
4. Make sure that the red arrow lines up with the marking on the foot (C).
5. Start sewing by pressing the foot control.
6. The arrows on the graphic display will show when each part of the buttonhole is sewn and in which direction. The columns will be sewn in the same direction.
7. The buttonhole will be completed automatically. You can repeat the buttonhole as many times as you wish by pressing the foot control.



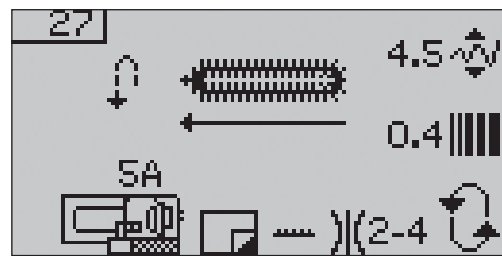
Manual buttonhole

1. To sew a manual buttonhole in four steps, use presser foot 5M.
2. The first column will be sewn backwards. Sew the first column as long as you want the buttonhole. The graphic display will show the part and sewing direction of the buttonhole that is being sewn.
3. Press the reverse button. The machine sews the bartack and the second column. When the columns are aligned, press the reverse button again to sew the second bartack.

Note: The repeat icon will be highlighted, showing you that repeat is activated. You can repeat the buttonhole as many times as you wish by pressing the foot control.

The machine will stop automatically when the buttonhole is complete.

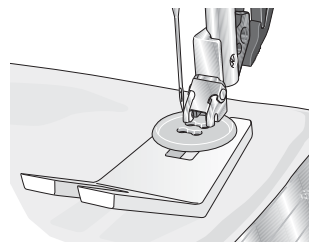
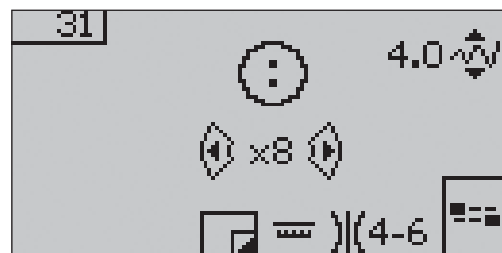
Press the F1 button to deactivate repeat.



Sew on a button

1. To sew on a button, remove the presser foot and select the button sewing stitch.
2. Lower the feed dogs.
3. Place the button under the presser foot holder. Use the mirroring function to make sure the holes in the button are aligned with the swing of the needle and the width is appropriate for the actual button. If necessary change the width between holes with the width + and - buttons.
4. You can increase or decrease the number of stitches that will fasten the button on the fabric in steps of two, using the left and right arrow buttons on the wheel.
5. Start to sew. The machine will sew the program for you and then tie-off and stop.

Note: Use the multi-purpose tool to create a thread shank for your button. You can also use the Sew-on Button Foot, available as an optional accessory.



Optional presser feet

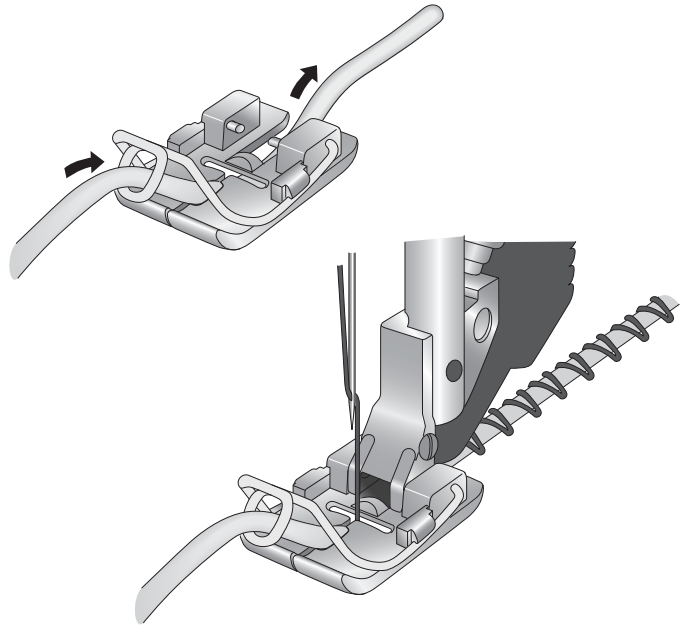
The limited edition accessory foot package is packed in the box with your PFAFF® expression™ sewing machine. The package contains the following optional presser feet:

Couching/Braiding foot

You can create beautiful trims when you use the Couching/Braiding Foot and your machine's decorative stitches to sew over yarn, cords, narrow satin ribbon, soutache braid, etc.

1. To attach cords, use matching, invisible or decorative embroidery thread.
2. Insert the cording or tape from the front of the foot into the eyelet-type guide and pull it through the front hole, underneath and to the back of the sewing foot.
3. Engage the IDT™ system.
4. Select stitch, i.e. zigzag, blind hem or decorative. Sew the design by following the pre-marked design lines. Or, sew random lines and waves for a decorative textured effect.

TIP: Try several smaller cords and yarns, twist them together to create texture and combine colors.

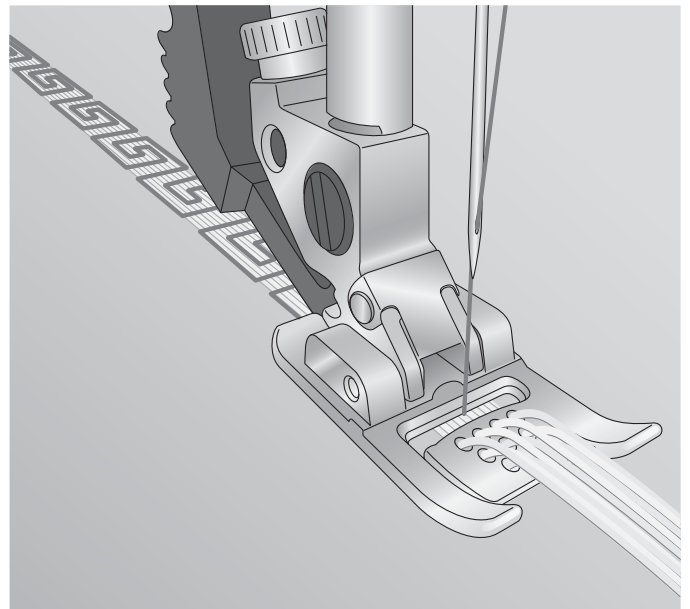


7/9 hole cord foot

Wonderful decorative embellishments are easy with this special foot. You can sew up to nine different lengths of embroidery floss, pearl cotton or high sheen threads in place with your choice of a decorative or utility stitch.

1. Cut your cords to the desired length. Thread the cords through the holes in the foot from the top to the bottom. Lead the cords under the presser foot and out the back. Leave the thread tails extending about 1 1/2 inches to 2 inches (4 - 5 cm) at the back.
2. Attach the 7/9 Hole Cord Foot.
3. Choose a decorative stitch to sew over the 7 or 9 cords.

TIP: Pearl thread or embroidery twist works well.



Beading foot, 4 mm

For that extra touch, highlight any sewing project with strings of pearls or beads. The beads will run smoothly through the groove under the foot while you sew for beautiful results.

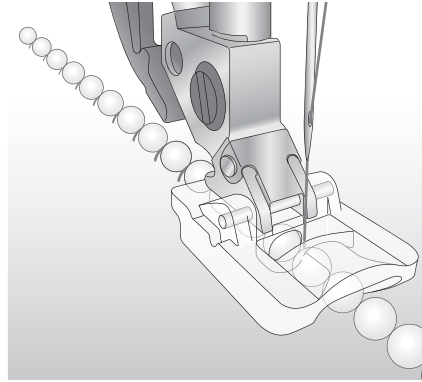
1. Snap on the Beading Foot.
2. Thread your machine with invisible thread in the needle and regular sewing thread that matches the fabric in the bobbin.
3. Select either the zigzag stitch or the blindhem stitch with the following settings:

Zigzag stitch: length 3.5, width 4.0

Blindhem stitch: length 1.0, width 4.5

4. Lower the needle thread tension to achieve a beautiful stitch.
5. Place stabilizer under the fabric and position both under the foot.
6. Place the bead string under the foot in the groove on the underside of the beading foot. Lower the presser foot.
7. Turn the hand wheel to create manual stitches to set the beads in place.
8. Stitch slowly.

Note: Stitch the bead string to a scrap piece of fabric first to test thread tension, stitch length and stitch width according to the beads and the fabric. Make adjustments as needed.

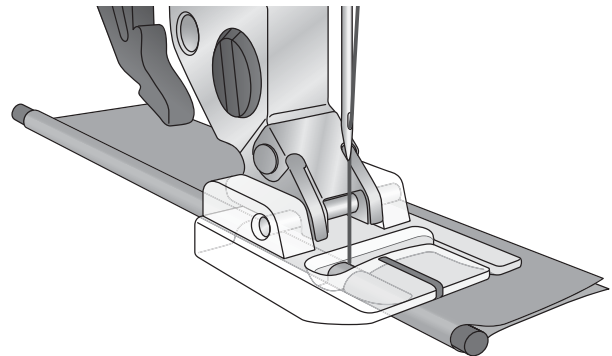


Piping foot

Insert packaged piping into seams and edges for a tailored finish. Cover cord with fabric for specialty piping.

To stitch piping into a seam:

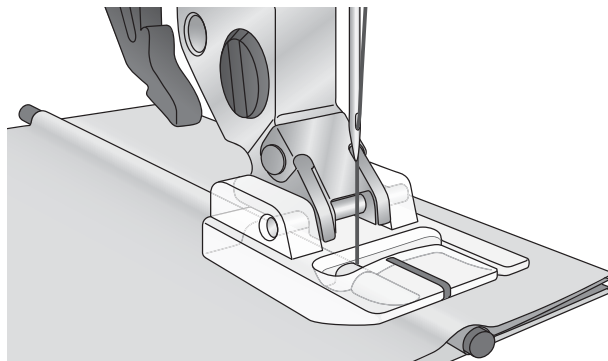
1. Snap on the Piping Foot
2. Place piping along the seam line on right side of fabric. Place second piece of fabric on top with right sides together.
3. Put fabric and piping layers under Piping Foot with the piping in the groove on the underside of the foot. Sew with a straight stitch, length 2.5. The groove on the underside of the foot will guide the piping as you sew.



To make piping from your fabric:

1. Cut bias or crosswise grain strips, wide enough to cover the cording plus seam allowances.
2. Lay the cording on the wrong side of the fabric strip and wrap the fabric over the cord.
3. Place the fabric and cord under the Piping Foot with the cord in the groove on the underside of the foot.
4. Stitch. The groove will guide the cord so the fabric covers evenly.

TIP: When you sew this piping into a garment, adjust the needle position so it stitches one setting closer to the cord to cover the first stitching.



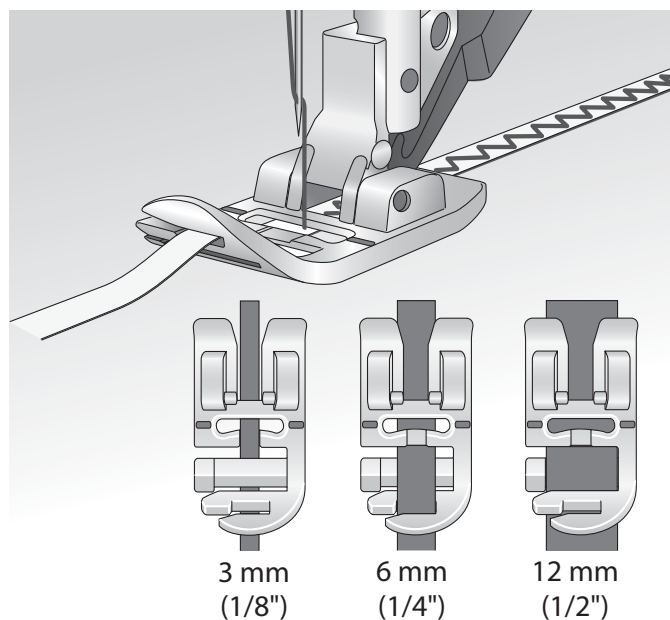
Decorative trim foot

Embellish your project with different types of trims by using the Decorative trim foot. This foot will easily guide the trims through the opening at the front and through the groove under the presser foot.

1. Thread your machine with a regular sewing thread or decorative thread on top and regular sewing thread in the bobbin.
2. Select a straight stitch, zigzag stitch or decorative stitch. Avoid using stitches with too much back and forth motion.

Tip: For the 6mm wide trims, you can also use a 6mm twin needle. Select a straight stitch and it will sew at the edges of the trim.

3. Place the trim in the presser foot as the picture shows.
4. Snap on the Decorative Trim Foot.
5. Engage the IDT™ system.
6. Sew carefully, not too fast. (You might need stabilizer underneath the fabric)
7. The best result is achieved if you use flat trims, such as silk, velvet, satin or cotton ribbons.



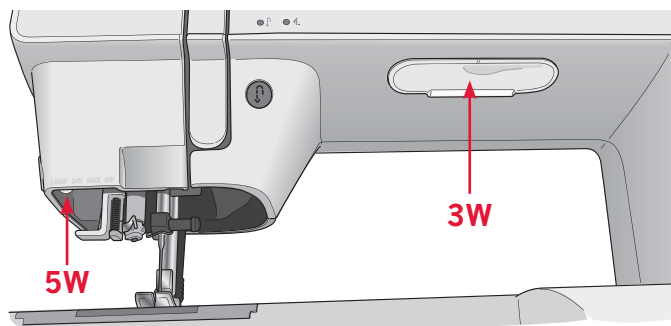
Maintenance

Changing the light bulbs

Your sewing machine is equipped with two light bulbs. One is placed under the sewing head and one above the free arm. Light bulbs are available at your authorized PFAFF® dealer. Change the light bulbs as described below.

 *Turn off the main switch.*

- 1 Place the light bulb remover with the deep hole, marked OUT, around the bulb. Do not turn the bulb, just pull it out to remove it.
- 2 When inserting a new light bulb place the remover with the shallow hole, marked IN, around the new bulb. Insert the new bulb by pushing it up.

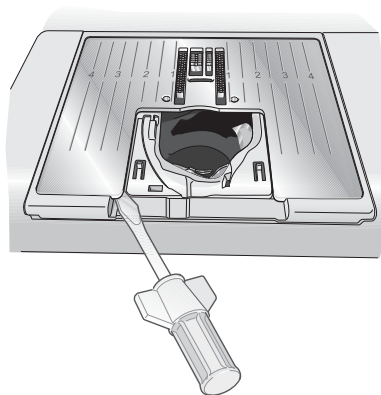


Cleaning the machine

To keep your sewing machine operating well, clean it often. No lubrication (oiling) is needed.

Wipe the exterior surface of your machine with a soft cloth to remove any dust or lint built up.

Wipe the graphic display with a clean, soft and damp cloth.



Cleaning the bobbin area

 *Note: Lower the feed dogs and turn off the machine.*

Remove the presser foot and slide off the bobbin cover. Place the screwdriver under the stitch plate as shown on the picture, and gently turn the screwdriver to pop off the stitch plate. Clean the feed dogs with the brush found with the accessories.

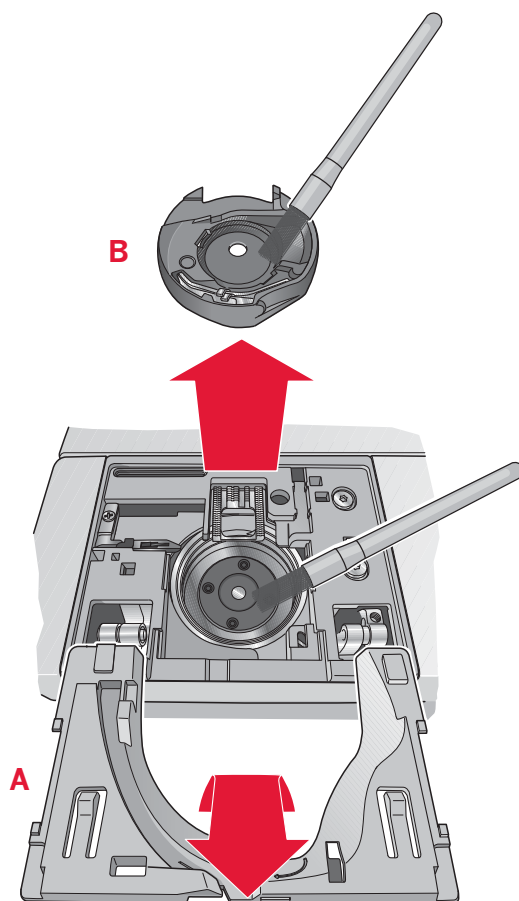
Cleaning under the bobbin area

Clean the area under the bobbin case after sewing several projects or any time you notice an accumulation of lint in the bobbin case area.

Remove the bobbin case holder (A), covering the front part of the bobbin case, by lifting it up. Remove the bobbin case (B) by lifting it up. Clean with the brush.

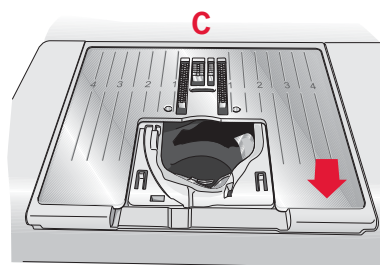
Put the bobbin case and the bobbin case holder back in place.

Note: Do not blow air into the bobbin case area. The dust and lint will be blown into your machine.



Replacing the stitch plate

With the feed dogs lowered, place the stitch plate with the knob fitting into the notch at the back (C). Press the stitch plate down until it clicks into place. Slide on the bobbin cover.



Troubleshooting

In this troubleshooting guide you will find solutions to the problems you may have with your machine. For further information please contact your local authorized PFAFF® dealer who will be happy to help you.

Problem/cause	Remedy
General problems	
Fabric does not move?	Make sure that the feed dogs are not lowered.
Wrong stitch, irregular or narrow stitch?	Deactivate twin needle or stitch width safety in the settings menu.
The needle breaks?	Insert needle correctly as described. Attach correct needle for the fabric.
The machine will not sew?	Check that all plugs are securely plugged into the machine and into the wall socket. Check that the foot control cord is securely plugged into the foot control. Push bobbin winder lever to sewing position.
The sewing machine function buttons do not respond to touch?	The sockets and function buttons on the machine can be sensitive to static electricity. If the buttons do not respond to touch, turn the machine OFF and then ON again. If the problem persists, contact your local authorized PFAFF® dealer.

The machine skips stitches	
Did you insert the needle properly?	Insert needle correctly as described.
Did you insert a wrong needle?	Use needle system 130/750 H.
Is the needle bent or blunt?	Insert a new needle.
Did you thread the machine properly?	Check how the machine is threaded.
Is the correct presser foot used?	Attach correct presser foot.
Is the needle too small for the thread?	Make sure the needle is correct for the thread and fabric.

Needle thread breaks	
Did you insert the needle properly?	Insert needle correctly as described.
Did you insert a wrong needle?	Use needle system 130/750 H.
Is the needle bent or blunt?	Insert a new needle.
Did you thread the machine properly?	Check how the machine is threaded.
Is the needle too small for the thread?	Change the needle to the proper size for the thread.
Are you using poor thread with slubs or thread which has become dry?	Change to a new higher quality thread purchased from an authorized PFAFF® dealer.
Is a correct spool cap used?	Attach a spool cap of the right size for the actual thread spool.
Is the best spool pin position used?	Try a different spool pin position (vertical or horizontal).
Is the stitch plate hole damaged?	Change the stitch plate.

Bobbin thread breaks	
Did you insert the bobbin properly?	Check the bobbin thread.
Is the stitch plate hole damaged?	Change the stitch plate.
Is the bobbin area clean?	Clean lint from bobbin area and use only the original PFAFF® bobbins approved for this model.
Is the bobbin wound correctly?	Wind a new bobbin.

The seam has uneven stitches	
Is the thread tension correct?	Check needle thread tension and the threading.
Are you using too thick or slubbed thread?	Change the thread.
Is the bobbin thread evenly wound?	Check bobbin winding.
Is a correct needle used?	Insert a proper needle correctly as described.

The machine does not feed or feeds irregularly	
Did you thread the machine properly?	Check how the machine is threaded.
Has sewing lint collected between the feed dogs?	Remove the stitch plate and clean the feed dogs with a brush.

Have your sewing machine serviced regularly by your local authorized PFAFF® dealer!

If you have followed this trouble shooting information and still have problems, take your sewing machine to your dealer. If there is a specific problem, it is a great help to test sew with your thread on a scrap of your sewing fabric and bring it to your dealer. A sewing sample will often give much better information than words.

Non-original parts and accessories

The warranty does not cover any defect or damage caused by use of non-original accessories or parts.

We reserve the right to change the machine equipment and the assortment of accessories without prior notice, or make modifications to the performance or design.
Such modifications, however, will always be to the benefit of the user and the product.

Intellectual Property

Patents protecting this product are listed on a label positioned underneath the Sewing Machine.

PFAFF, EXPRESSION and IDT (image) are trademarks of KSIN Luxembourg II, S.ar.l.



Please note that on disposal, this product must be safely recycled in accordance with relevant National legislation relating to electrical/electronic products. If in doubt please contact your retailer for guidance.



150th
anniversary 

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