

creative ambition™ 640

User's Guide



IMPORTANT SAFETY INSTRUCTIONS

Read all instructions before using this household sewing machine.

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

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.

This appliance is intended for use by adults. The appliance can be used with adult supervision by (i) children aged from 8 to 12 years and (ii) persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given instruction concerning use of the appliance in a safe way and understand the hazards involved. Cleaning and user maintenance shall not be made by children without supervision. It is not allowed for anyone to play with the machine. Children up to 8 years are not allowed to use the machine.

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 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.

- The foot control is used to operate the machine. Never place 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.

For Overlock Machines only:

- Never operate without a cutter cover or a securely installed coverstitch table.

SAVE THESE INSTRUCTIONS

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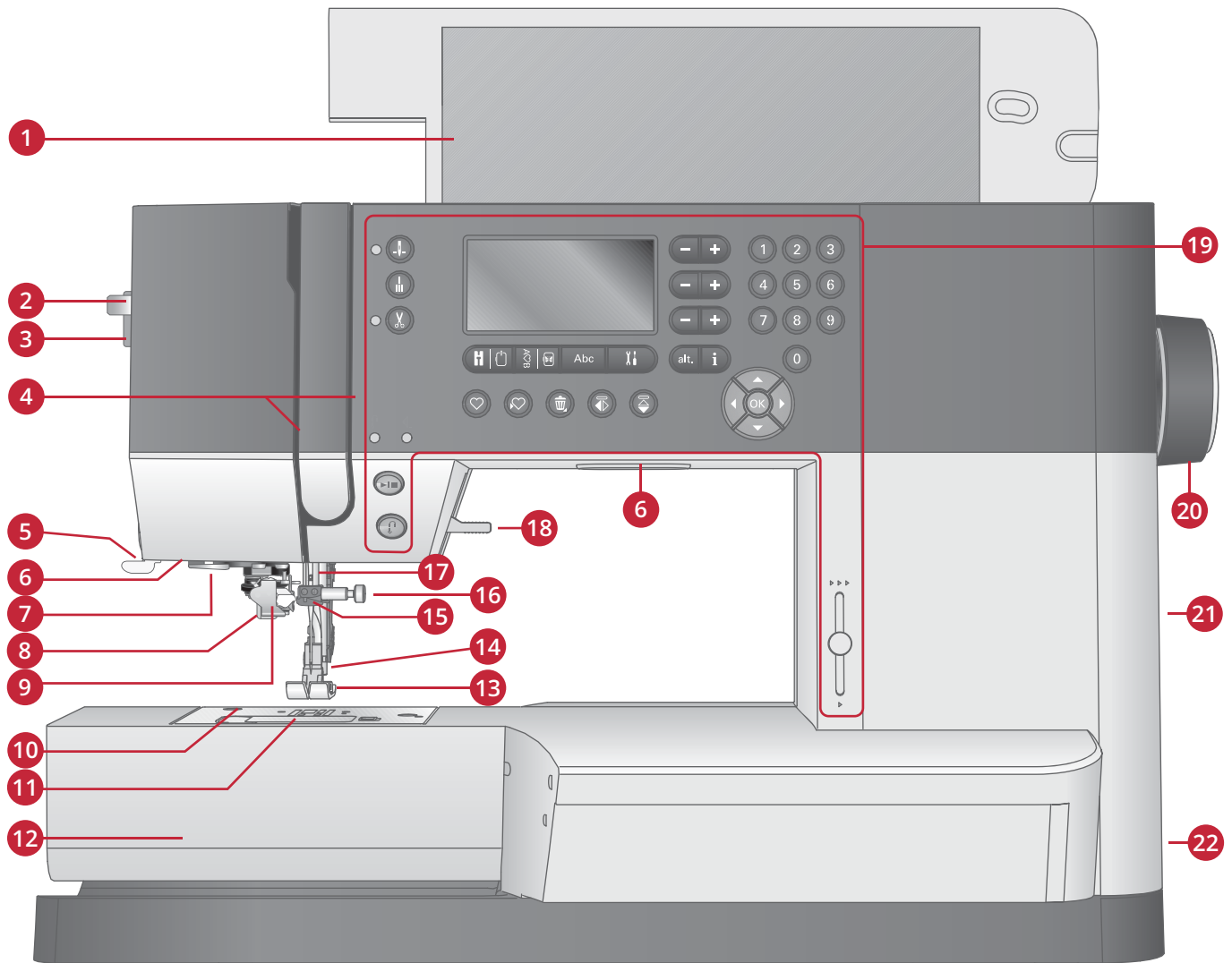
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1 Introduction

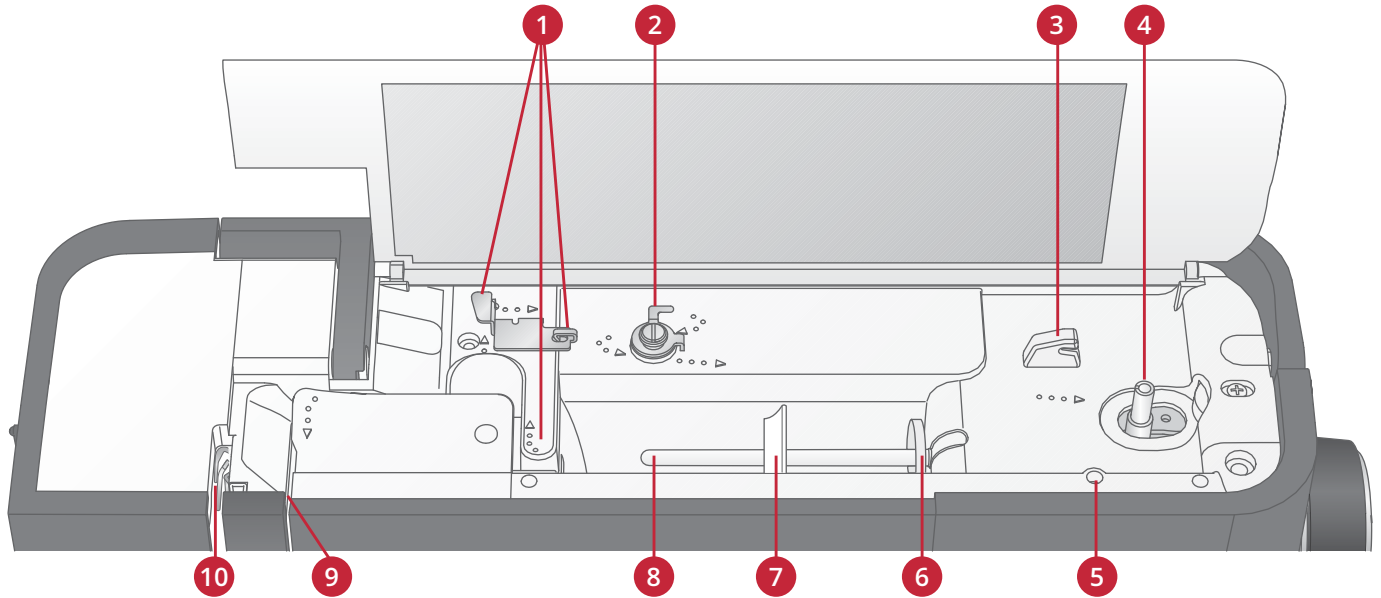
Machine Overview

Front



- | | |
|-------------------------------|---|
| 1. Lid with stitch overview | 13. Presser foot |
| 2. Needle threader lever | 14. Presser foot bar and presser foot holder |
| 3. Presser foot pressure dial | 15. Needle thread guide |
| 4. Threading slots | 16. Needle screw |
| 5. Thread cutter | 17. Needle bar |
| 6. LED lights | 18. Presser foot lift |
| 7. Needle threader guide | 19. Buttons and graphic display |
| 8. Buttonhole lever | 20. Hand wheel |
| 9. Built-in needle threader | 21. USB port |
| 10. Needle plate | 22. Main switch, connectors for power cord and foot control |
| 11. Bobbin cover | |
| 12. Free arm | |

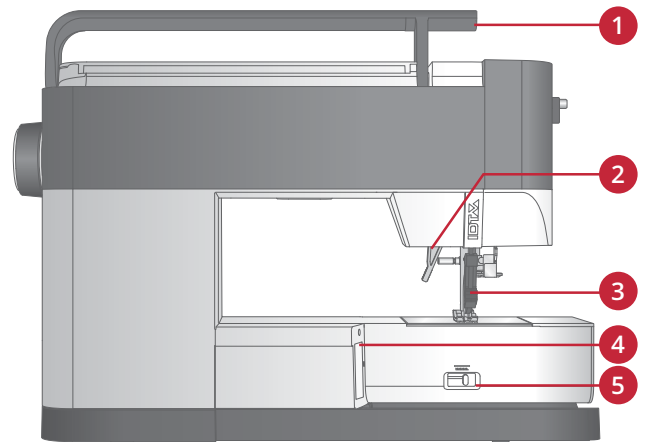
Top Parts



- | | |
|--|-------------------------|
| 1. Thread guides | 6. Felt pad |
| 2. Bobbin winder thread guide and tension disc | 7. Spool cap |
| 3. Bobbin thread cutter | 8. Spool pin |
| 4. Bobbin winder lever and bobbin spindle | 9. Thread tension discs |
| 5. Hole for auxiliary spool pin | 10. Take-up lever |

Rear Side

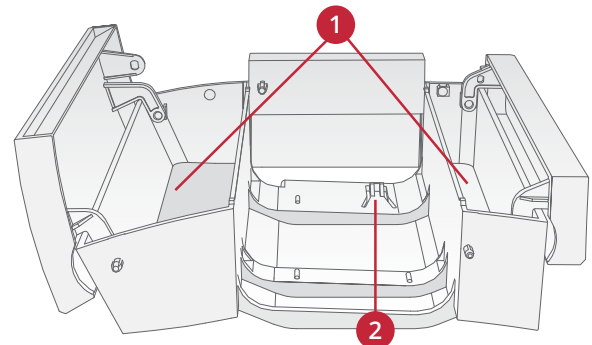
1. Handle
2. Presser foot lift
3. IDT™ system
4. Embroidery unit connection socket
5. Slide for lowering the feed teeth



Accessory Tray

Store the accessories in the tray so they are easily accessible.

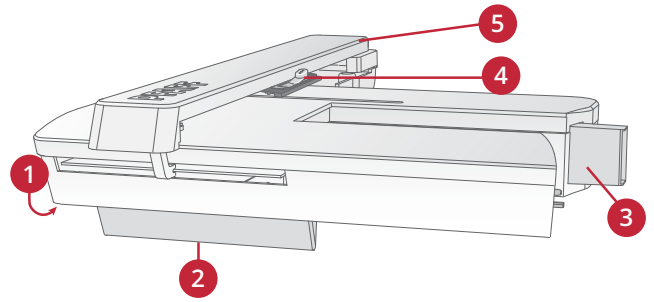
1. Space for accessories
2. Hook



Parts of the Embroidery Unit

(type EU-3P)

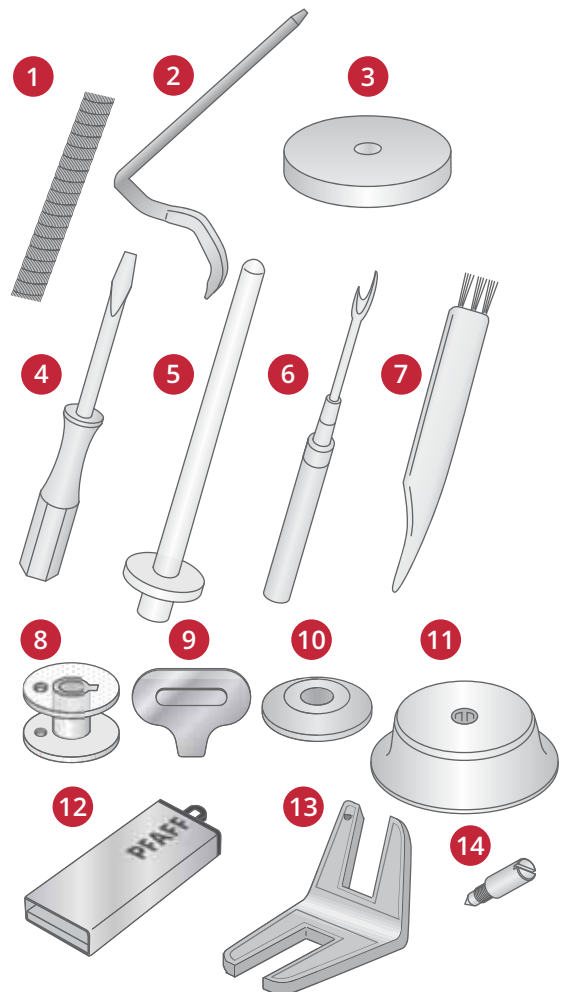
1. Embroidery unit release button
2. Level adjusting feet
3. Embroidery unit socket
4. Embroidery hoop connection assembly
5. Embroidery arm



Accessories

Included Accessories

1. Thread net
2. Edge guide
3. Felt pad (2)
4. Screwdriver
5. Auxiliary spool pin
6. Seam ripper
7. Brush. Use the sharp edge of the brush to clean the area around the feed teeth.
8. Bobbins (5, one is on the machine)
9. Screwdriver for needle plate
10. Spool cap, small
11. Spool cap, large
12. USB embroidery stick with embroidery designs and PFAFF® **creative™ ambition 640** embroidery collection booklet
13. Multi-purpose tool
14. Long needle clamp screw for zig-zag free-motion sewing

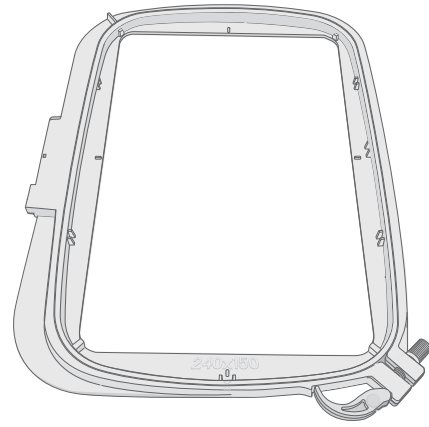


Included Accessories not in Picture

- Foot control
- Power cord
- Needles
- Cover to use when storing the machine

Included Hoop

creative™ MASTER HOOP (240x150 mm)



Presser Feet



0A - 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.



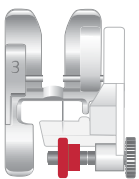
1A - Fancy Stitch Foot for IDT™ System

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.



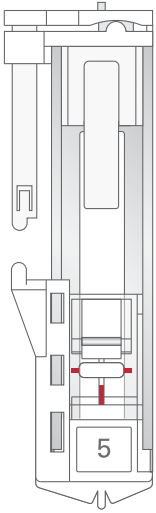
3 – Blindhem Foot for IDT™ System

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 the needle position to the right or left to sew closer to zipper teeth.



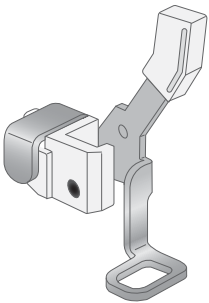
5 – One Step Buttonhole Foot

This foot has a space in the back for a button used to set the size of the buttonhole. The machine will sew a buttonhole to fit that button size. Used to sew buttonholes up to 25mm.



5M - Manual Buttonhole Foot

This foot is used for sewing manual buttonholes longer than 25 mm. Use the markings on the foot to position the garment edge. The finger on the back of the foot holds cording for corded buttonhole.























6 – Embroidery/Free-Motion Foot


















This foot is used for embroidery and free-motion sewing. This foot can also be used for darning.

Note: When free-motion sewing using zigzag, replace the short needle clamp screw with the long needle clamp screw found in the included accessories.































Stitch Overview

Utility Stitches


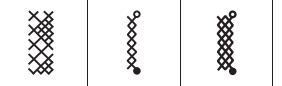
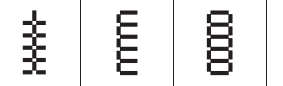
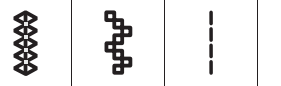

Stitch	No	Name	Description
	1	Straight stitch	For seaming and topstitching. Select from 29 different needle positions.
	2	Stretch triple straight stitch	Reinforced seam. Topstitching.
	3	Straight stitch reverse	Sew continuous reverse.
	4	Zigzag stitch	Reinforce seams, clean finish, stretch sewing, lace insertion.
	5	Zigzag stitch, right or left needle position	Reinforce seams, clean finish, stretch sewing.
	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	Elastic stitch	Sewing elastic, darning, patching.
	10	Triple stretch stitch	Sewing elastic, darning, patching and decorative sewing.
	11	Honeycomb stitch	Decorative stitch for stretch fabrics and hems. Also used with elastic thread in the bobbin.
	12	Bridging stitch	Joining fabrics and quilt batting, decorative stitch for quilting, hemstitching.
	13	Foundation elastic stitch	Joining stitch for undergarments, terry cloth, leather, bulky fabrics where overlapping the seams.
	14	Crosshem stitch	Elastic decorative hem for stretch fabrics.
	15	Blindhem stitch	Sewing blindhems on woven fabrics.
	16	Elastic blindhem stitch	Sewing blindhems on stretch fabrics.
	17	Stretch tricot stitch	Sewing seams on stretch fabrics.
	18	Closed overlock	Seam and overcast stretch fabrics in one step.
	19	Closed overlock	Seam and overcast in one step with reinforced edge.
	20	Elastic overcast	Seam and overcast stretch fabrics in one step.

Stitch	Nº	Name	Description
	21	Overlock	Seam and overcast in one step, patch, hem.
	22	Closed overlock	Seam and overcast in one step, patch, hem.
	23	Stretch knit overlock	Seam and overcast stretch fabrics in one step.
	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 pillow cases.
	27	Rounded buttonhole with lengthwise tack	Buttonhole for garments.
	28	Eyelet buttonhole with pointed	Tailors buttonhole or decorative buttonhole.
	29	Eyelet buttonhole with lengthwise tack	Tailors buttonhole for jackets and trousers.
	30	Rounded buttonhole	Buttonhole for light garments or jackets.
	31	Stretch buttonhole	Buttonhole for stretch fabrics.
	32	Button sewing	Sew on buttons or tacking.
	33	Eyelet	Heirloom sewing decorative trim.
	34	Programmable darning stitch	Darning holes or damaged fabric.
	35	Programmable reinforced darning stitch	Reinforced darning holes or damaged fabric.
	36	Bartack	Automatically reinforce seams and pockets.
	37	Denim bartack	Automatically reinforce seams and pockets decoratively.


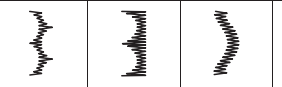
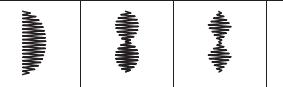
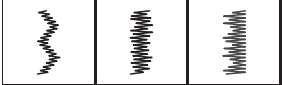
Quilt Stitches

														
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



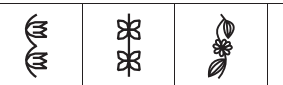

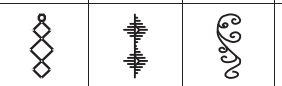
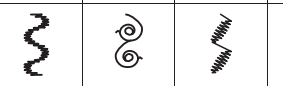
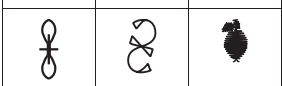
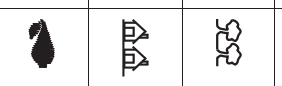
Needle Art Stitches

	68	69	70	71		72	73	74	75		76	77	78		79	80	81	82
	83	84	85															

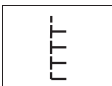

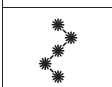
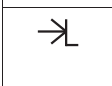

Satin Stitches

	86	87	88	89	90		91	92	93	94	95		96	97	98	99	100
	101	102	103	104	105												

Decorative Stitches

	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						

Optional Feet Stitches

	146	Beading stitch, 4-6mm	For sewing on pearls, beads etc. Requires optional Beading foot (part number 820605-096)
	147	Candlewicking	Create the look of hand embroidered French knots. Requires optional Candlewicking Foot for IDT™ system (part number 820613-096).
	148	Candlewicking	Create the look of hand embroidered French knots. Requires optional Candlewicking Foot for IDT™ system (part number 820613-096).
	149	Joining and edging stitch	For joining two pieces of fabric. Requires optional Join and Fold Edging Foot for IDT™ system (part number 820931-096).
	150	Joining and edging stitch	For joining two pieces of fabric. Requires optional Join and Fold Edging Foot for IDT™ system (part number 820931-096).

Alphabets

Block

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
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Cyrillic

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1234567890&?!'@.,- _

2 Preparations

Unpacking

1. Place the box on a steady, flat surface. Lift the machine out of the box and remove the outer packaging.
2. Remove all outer packing material and the plastic bag.

Note: Your PFAFF® creative™ ambition 640 machine is adjusted to provide the best stitch result at normal room temperature. Extreme hot and cold temperatures can affect the sewn result.

Note: Some fabrics have a lot of excess dye which can cause discoloration on other fabric but also on your sewing machine. This discoloring may be very difficult or impossible to remove. Fleece and denim fabric, especially red and blue, often contain a lot of excess dye. If you suspect that your fabric/ready-to-wear garment contains a lot of excess dye, always pre-wash it before sewing to avoid the discoloring.

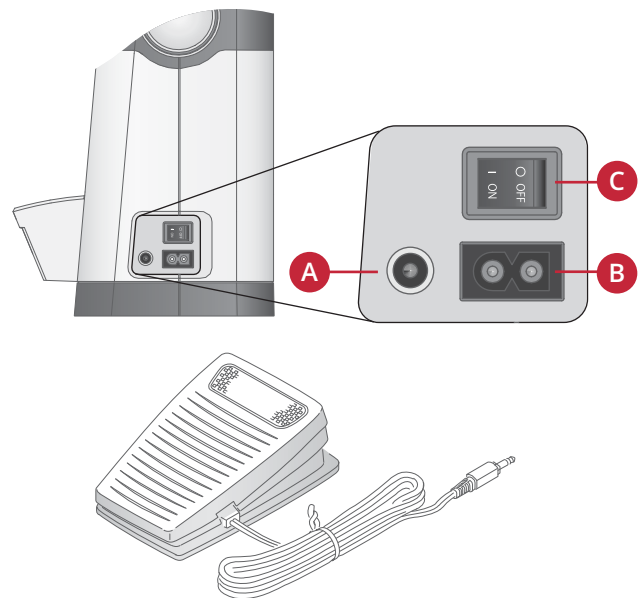
Connect the Power Cord and Foot Control

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

Note: Consult a qualified electrician if in doubt as how to connect the machine to the power source. Unplug the power cord when the machine is not in use.

For this sewing machine, foot control model C-9000 manufactured by CHIEN HUNG TAIWAN Ltd must be used.

1. Connect the foot control cord to the front socket on the bottom right side of the machine (A).
2. Connect the power cord to the rear socket on the bottom right side of the machine (B). Plug the cord into the wall socket.
3. 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 cover.

LED Lights

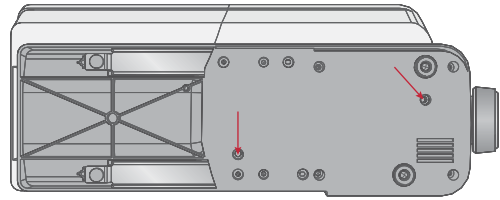
Your machine has LED lights which distribute the light evenly over the sewing area and eliminates shadows.

Free Arm

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

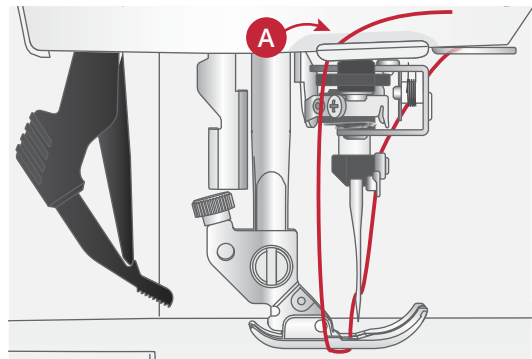
Mounting Machine in Sewing Cabinet

There are two holes on the underside of the machine designed for mounting the machine into a sewing cabinet. Attach the machine with M6 screws.



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

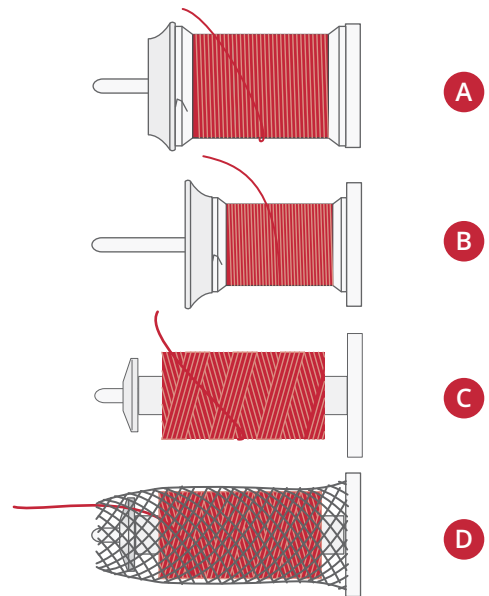
Place a felt pad and the thread spool on the spool pin. Make sure that the thread reels off from the front of the spool (A) and slide on a spool cap.

Note: Not all thread spools are manufactured in the same way. If you experience problems with the thread, turn the spool so that the thread reels off in the opposite direction or place the thread in the vertical position.

Depending on the size of thread spool, reverse the direction of the spool cap (B).

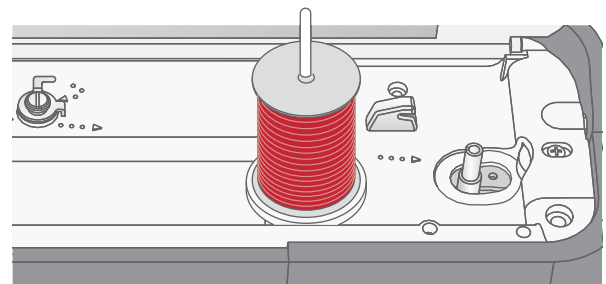
Use the small cap when you use cross wound thread (C).

Set the thread net over the spool if thread unrolls easily (D).



Vertical Position

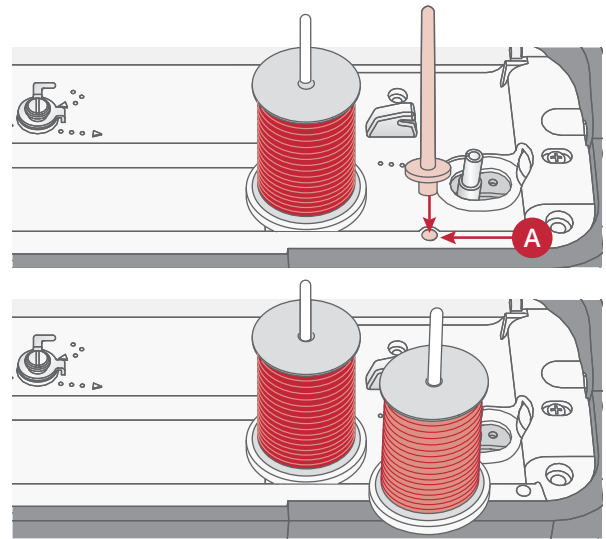
Raise the spool pin to the vertical position. Place a felt pad under the thread spool. This is to prevent the thread from reeling off too fast. Do not place a spool cap on top of the spool pin as that would prevent the spool from rotating.



Main spool pin in vertical position.

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. Insert the auxiliary spool pin into the hole at the top of the machine (A). Place a felt pad under the thread spool.



Auxiliary spool pin and main spool pin in vertical position.

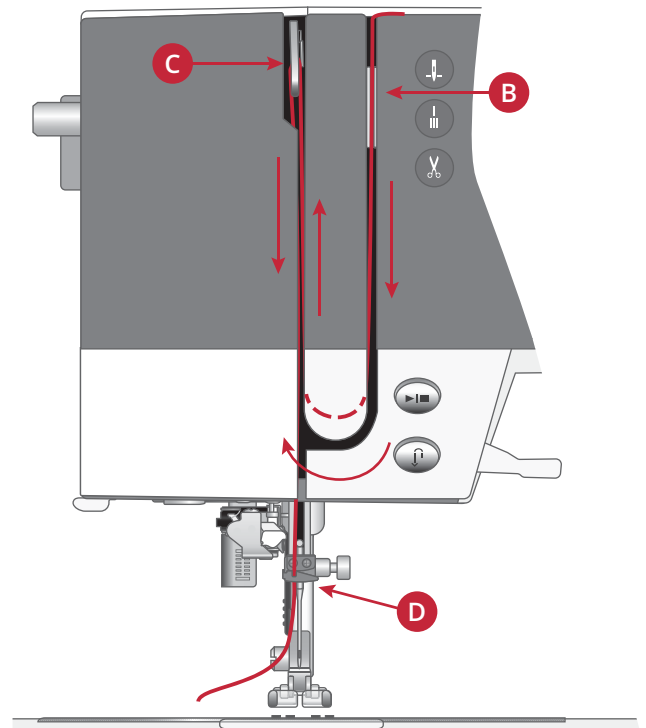
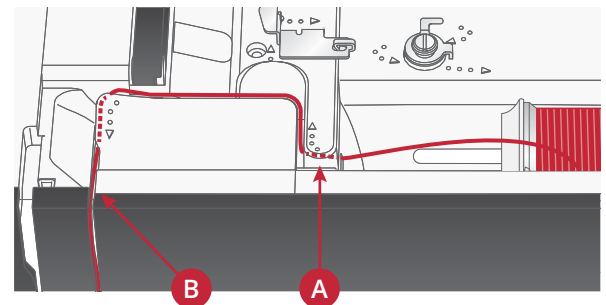
Threading the Machine

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

1. Place a felt pad and the thread spool on the spool pin and fit a spool cap of the right size and direction.

Note: Hold thread with both hands to prevent it from slacking while threading. This ensures that the thread will be positioned properly in the threading path.

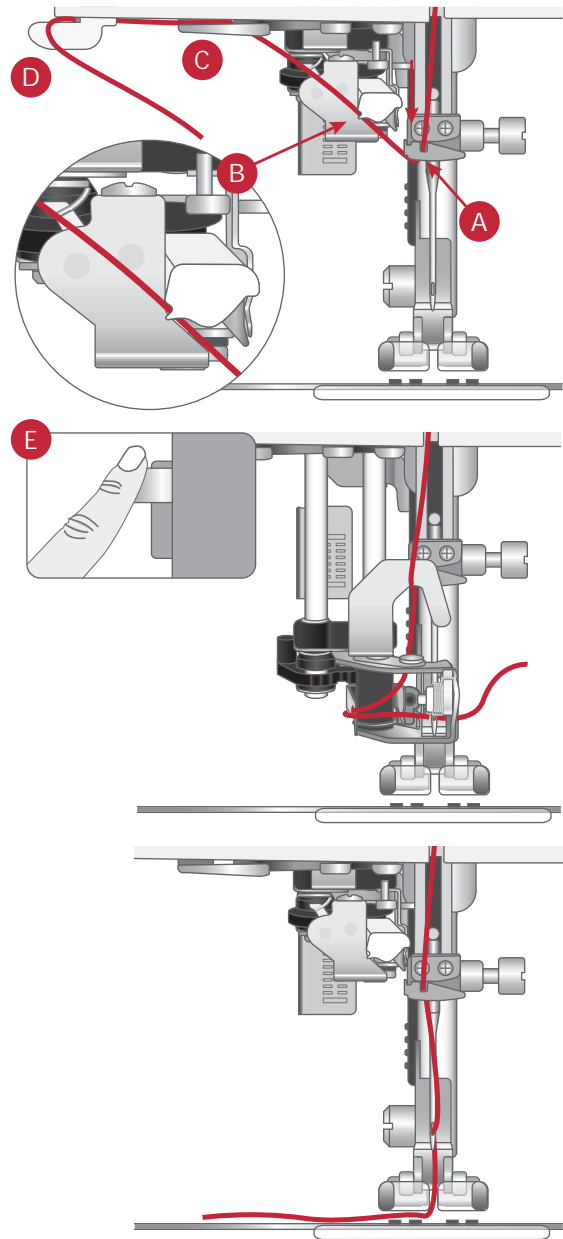
2. Pull the thread under the thread guide (A) from the right to the left.
3. Pull the thread from the right to left along the slot.
4. Pull the thread between the tension discs (B).
5. Thread down through the right-hand threading slot and then upwards through the left-hand threading slot.
6. Bring the thread from the right into the take-up lever (C) and down in the left-hand threading slot into the needle thread guide (D).
7. Thread the needle from front to back. See instructions below how to use the needle threader.



Needle Threader

The needle threader allows you to thread the needle automatically. The needle and presser foot must be in its highest position to use the built-in needle threader. Press the needle up/down button to make sure the needle is fully raised.

1. Make sure the thread is threaded into the needle thread guide (A).
2. Bring the thread to the left, under the thread guide on the needle threader (B). Make sure the thread "clicks" into place.
3. Place the thread from right to left in the next thread guide (C).
4. Bring the thread from back to front into the thread cutter (D).
5. Push the needle threader lever (E) all the way down. The needle threader will go down, encasing the needle and a small hook will pass through the needle eye and catch the thread.
6. Release the lever allowing the needle threader to gently swing back. The hook pulls the thread through the needle eye.
7. Place the thread under the presser foot.



The needle threader is designed to be used with needles size 70-100. You cannot use the needle threader with needles size 65 or smaller, wing needles, twin needles or triple needles.

Specialty threads such as invisible and other stretchy threads, metallic or flat metallic threads, and some heavy weight threads should be threaded manually.

When threading the needle manually, make sure that the needle is threaded from front to back.

*The automatic needle threader cannot be used with all optional accessories available for your **creative™ ambition 640** machine. To avoid damage to the needle threader and/or optional accessory we recommend using the automatic needle threader before attaching the accessory or thread the needle manually.*

Threading for Twin Needle

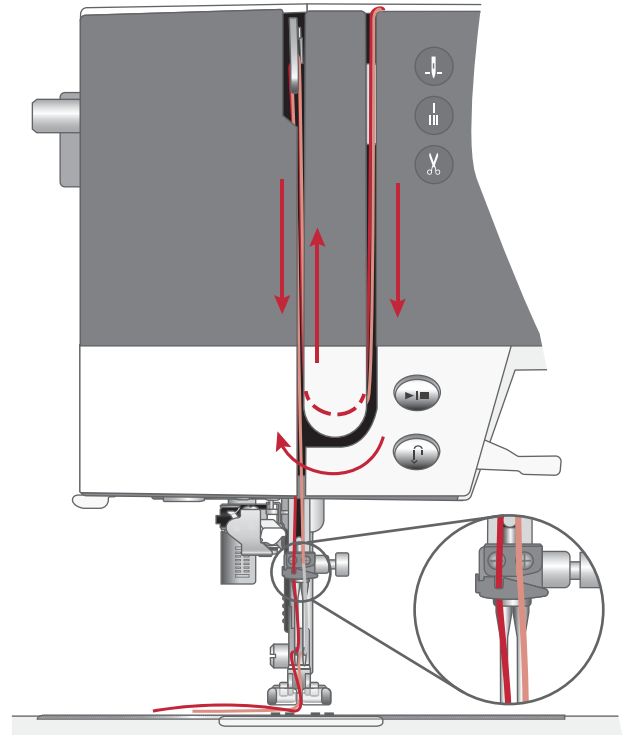
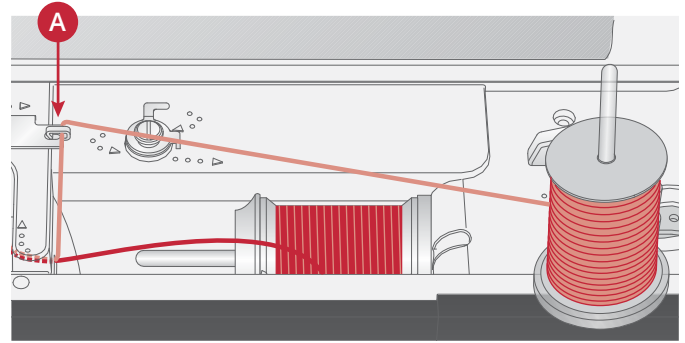
Replace the sewing needle with a twin needle. Make sure that the presser foot is raised and the needle is in its highest position.

1. Thread the first thread as described on previous page.
2. Thread the needle eye by hand from front to back.
3. Insert the auxiliary spool pin and slide on a felt pad. Place the second thread on the spool pin.
4. Bring thread to the left and pull thread into the thread guide (A) from back to front.
5. Thread the second thread the same way as the first.
6. Make sure that one thread is inside the needle thread guide and the other one outside.
7. Thread needle eye by hand from front to back.

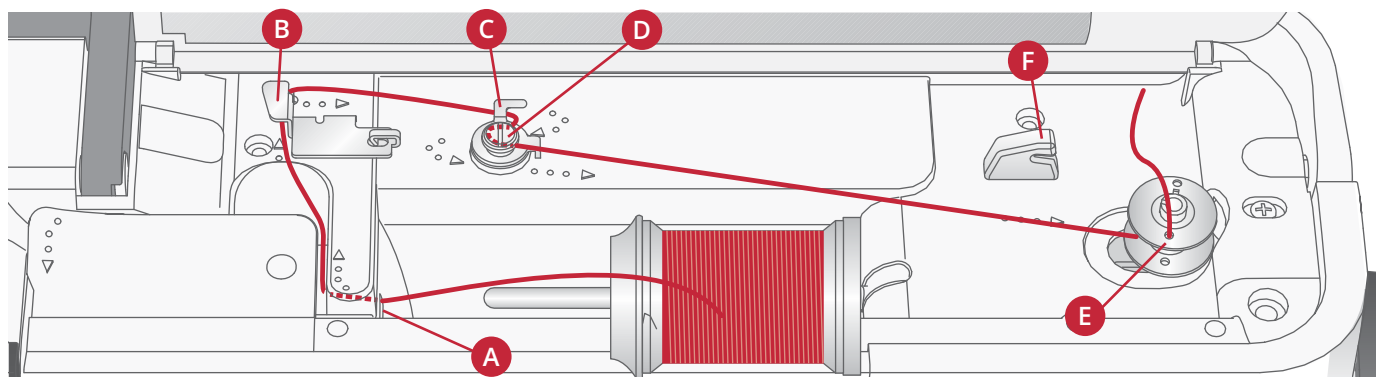
Note: The weight and irregular surface of specialty threads, like metallics, can cause increased tension on the thread. Reducing the tension will prevent needle breakage.

Note: Activate twin needle and select the correct twin needle width in the settings menu. This will limit the width of all stitches for that needle size to prevent damage to presser foot and needle.

Note: Do not use asymmetrical twin needles, since they may damage your sewing machine.



Bobbin Winding



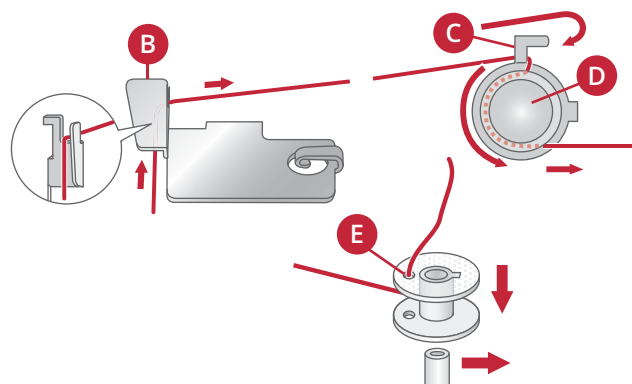
Winding From Horizontal Position

1. Place the felt pad and thread spool on the spool pin in horizontal position. Slide on a spool cap of the right type and direction.
2. Place the thread under the thread guide (A) from right to left. Pull the thread to the rear and around the thread guide (B) from left to right.
3. Pull thread to the right and then through the thread guide (C) from back to front. Pass thread under tension disc (D) in counter clockwise direction.

Note: Make sure the thread is pulled securely inside the tension disc for correct thread tension.

4. Thread through the hole in the empty bobbin (E) from the inside to the outside.
5. Place the bobbin on the bobbin winder spindle.
6. 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 or the start/stop button to start winding the bobbin. Hold the end of the thread firmly when starting to wind.

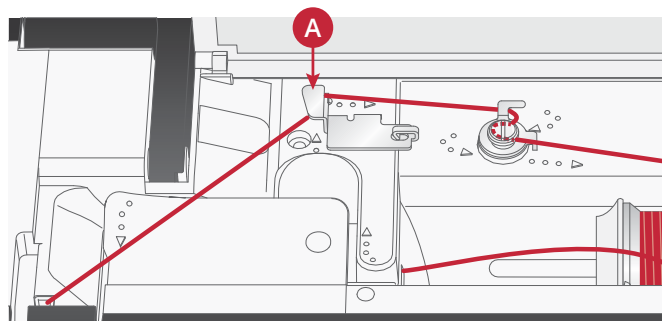
When the bobbin is full, release the foot control or press the start/stop button again to stop. Push the bobbin lever to the left. The pop-up closes. Remove the bobbin and cut the thread using the bobbin thread cutter (F).



Winding Through the Needle

Make sure that the presser foot is raised and the needle is in its highest position. Bring the thread up from the needle, under the presser foot, upward through the left-hand threading slot and through the bobbin thread guide (A). Then follow step 3 to 6 in above.

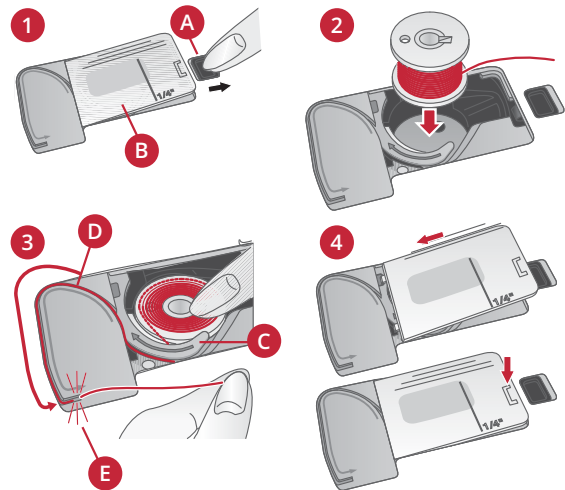
Note: Use a metal presser foot when bobbin winding from the needle.



Inserting the Bobbin

Make sure that the needle is fully raised and the machine is turned off before inserting or removing the bobbin.

1. Open the bobbin cover by pushing the release button to the right (A). Remove the cover (B).
2. Insert the bobbin in the bobbin case with the thread running in a counterclockwise direction.
3. With a finger held gently on top of the bobbin, pull the thread into notch (C). Then pull the thread at arrow markings into the needle plate thread guide from (C) to (D). Pull the thread at the arrow markings into the needle plate thread guide from (D) to (E). To cut off excess thread, pull thread to the right over the blade (E).
4. Replace the bobbin cover.



IDT™ System (Integrated Dual Feed)

For sewing any fabric precisely, the PFAFF® **creative™ ambition 640** 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, eliminating puckering on seams in light weight fabrics such as silk and rayon. The dual feed action of the IDT™ system prevents layers from shifting while sewing, keeping quilt layers aligned and ensuring a more perfect match when sewing plaid or striped fabrics.

Engaging the IDT™ System

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

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.

