



Instruction Manual

Sparrow QE

sewing and quilting machine



INSTRUCTION MANUAL

This sewing machine is intended for household use.

IMPORTANT SAFETY INSTRUCTIONS

When using a sewing machine, basic safety precautions should always be followed, including the following. Read all instructions before using.

DANGER - To reduce the risk of electric shock:

Never leave unattended when plugged in. Always unplug this machine from the electric outlet immediately after using and before cleaning.

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

1. Do not allow to be used as a toy. Close attention is necessary when this sewing machine is used by or near children.
2. 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.
3. 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.
4. 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.
5. Never drop or insert any object into any opening.
6. Do not use out doors.
7. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
8. To disconnect, turn the power switch to the off position (symbol **O**), then remove plug from outlet.
9. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
10. Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
11. Always use the proper needle plate. The wrong plate can cause the needle to break.
12. Do not use bent needles.
13. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
14. Switch the sewing machine off (symbol **O**) when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot.
15. 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.
16. Handle the foot controller with care and avoid dropping it on the floor. Be sure not to place anything on top of it.
17. Use only the handle to lift and move the machine.
18. Do not expose the machine or machine plastic case to sunlight directly. Also, do not keep it in a very warm or damp place.
19. The Appliance is not intended for use by young children or infirm persons without supervision.
20. Young children should be supervised to ensure that they do not play with the appliance.

SAVE THESE INSTRUCTIONS

Servicing should be performed by an authorized service representative.

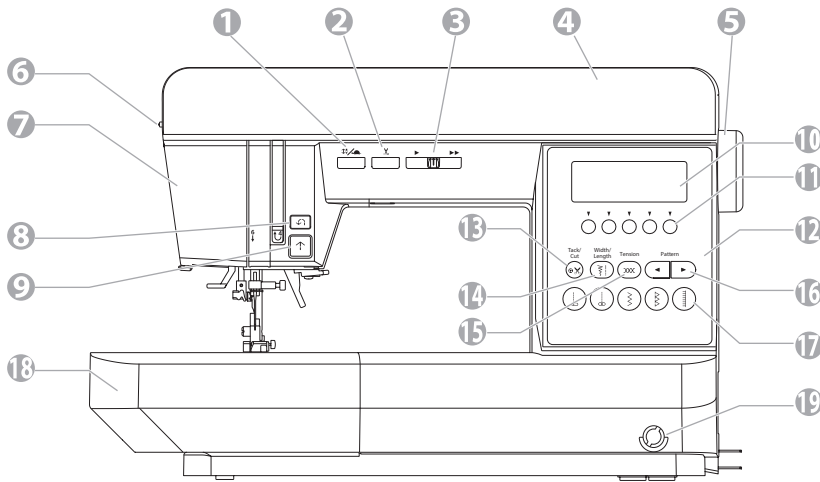
WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

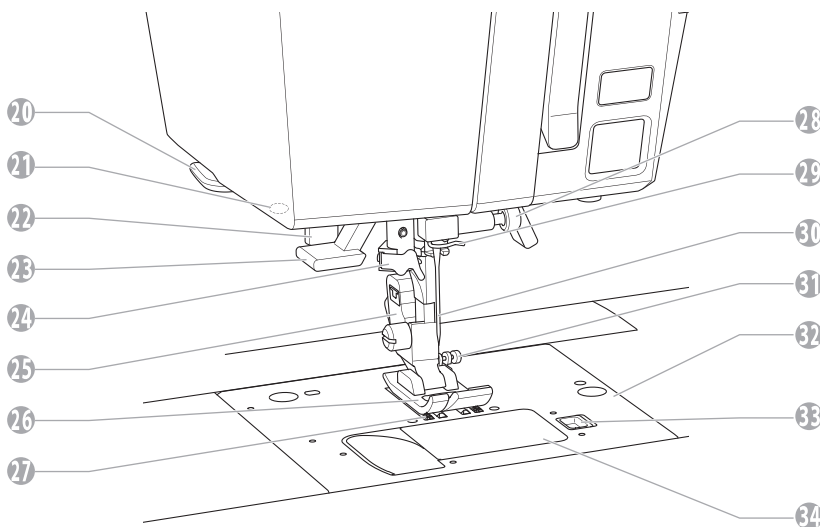
CONTENTS

MAIN PARTS.....	3	STARTING TO SEW.....	23
EXTENSION TABLE.....	5	A. START AND END OF SEAM.....	23
ACCESSORIES.....	5	B. REVERSE STITCHING.....	24
CONNECTING THE MACHINE.....	6	C. AUTO TACK, AUTO TACK & CUT.....	24
FOOT CONTROLLER.....	6	D. TURNING CORNERS.....	25
FUNCTION OF EACH PART.....	7	E. SEWING HEAVY FABRIC.....	25
A. START/STOP BUTTON.....	7	F. SEWING OVER OVERLAPPED AREAS.....	26
B. REVERSE BUTTON.....	7	G. THREAD CUTTER.....	26
C. NEEDLE UP-DOWN/SLOW BUTTON.....	7	H. IF YOU WANT TO DRAW UP THE BOBBIN THREAD...26	
D. THREAD CUTTER BUTTON.....	7	STRAIGHT STITCH SEWING.....	27
E. SPEED CONTROL BUTTON.....	7	ELASTIC STITCH SEWING.....	28
F. PRESSER FOOT LIFTER.....	8	ZIGZAG STITCH SEWING.....	29
G. DROP FEED LEVER.....	8	HAND LOOK QUILTING STITCH.....	29
H. PRESSURE REGULATOR.....	8	MULTI-STITCH ZIGZAG.....	30
HOW TO USE THE NEEDLE PLATE FOR STRAIGHT STITCH.....	9	A. MENDING.....	30
KNEE LIFTER LEVER.....	10	B. ELASTIC BAND SEWING.....	30
DUST COVER.....	10	APPLIQUE.....	30
TO SELECT A PATTERN / ADJUST A PATTERN.....	11	OVERCASTING-OVERLOCKING.....	31
A. TO SELECT A BASIC PATTERN.....	11	A. USING THE OVERCASTING FOOT.....	31
B. TO SELECT OTHER PATTERN.....	12	B. USING THE REGULAR FOOT.....	31
C. TACK/CUT BUTTON.....	13	BLIND HEM STITCHING.....	32
D. ADJUSTING THE STITCH WIDTH AND LENGTH...13		BUTTONHOLE SEWING.....	33
E. NEEDLE POSITION CONTROL.....	13	AUTOMATIC BAR-TACK.....	35
F. TENSION BUTTON.....	13	INSERTING ZIPPERS (CENTERED INSERTION / LAPPED INSERTION).....	36
G. STITCH PATTERN.....	14	A. CENTERED INSERTION.....	36
THREAD TENSION.....	15	B. LAPPED INSERTION.....	37
BOBBIN SETTING.....	16	SCALLOP STITCH.....	38
A. REMOVING THE BOBBIN.....	16	A. SCALLOP HEM.....	38
B. WINDING THE BOBBIN.....	16	B. SCALLOP EDGING.....	38
C. INSERTING THE BOBBIN.....	17	PATCH WORK.....	39
THREADING THE MACHINE.....	18	DECORATIVE STITCHES.....	39
A. PREPARING TO THREAD MACHINE.....	18	PIN TUCK.....	40
B. SETTING SPOOL OF THREAD ON SPOOL PIN...18		FREE ARM SEWING.....	40
C. THREADING THE UPPER THREAD.....	19	MAINTENANCE.....	41
D. THREADING THE NEEDLE EYE.....	20	A. BOBBIN HOLDER.....	41
CHANGING THE PRESSER FOOT.....	21	B. HOOK RACE AND FEED DOG.....	41
A. CHANGING THE PRESSER FOOT.....	21	MESSAGE.....	42
B. REMOVING THE PRESSER FOOT HOLDER.....	21	HELPFUL HINTS.....	43
FABRIC, THREAD AND NEEDLE TABLE.....	22	SETTING OF LCD, LED LIGHT, and BEEP.....	44
INSERTING THE NEEDLE.....	22		

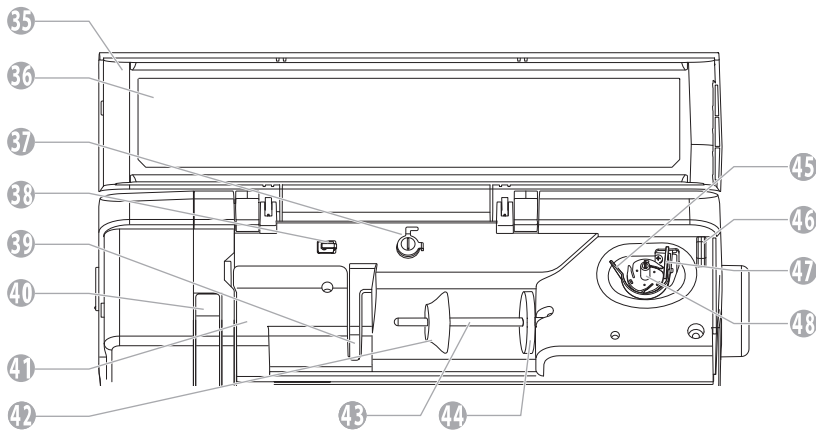
MAIN PARTS



1. Needle Up-Down/Slow Button
2. Thread Cutter Button
3. Speed Control Button
4. Top Cover
5. Hand Wheel
6. Pressure Regulator
7. Light Cover
8. Reverse Button
9. Start/Stop Button
10. LCD
11. Function Buttons
12. Control Panel
13. Tack/Cut Button
14. Width/Length Button
15. Tension Button
16. Pattern Buttons
17. Basic Stitch Buttons
18. Extension Table
19. Knee Lifter Lever Socket

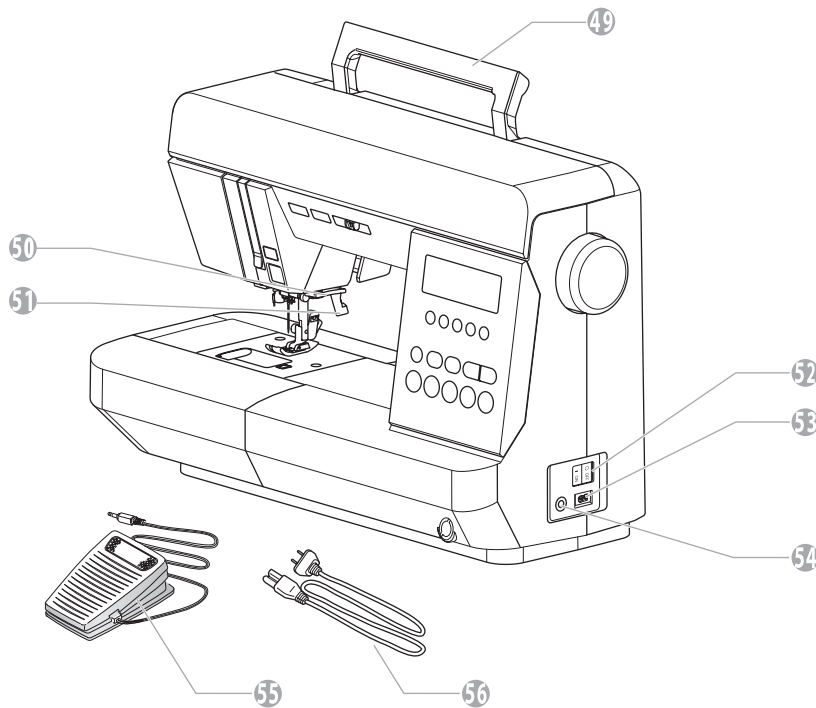


20. Thread Cutter
21. Hole for Loupe (Option)
22. Buttonhole Lever
23. Needle Threader Lever
24. Needle Threader
25. Presser Foot Holder
26. Presser Foot
27. Fabric Feed Dogs
28. Needle Clamp Screw
29. Needle Bar Thread Guide
30. Needle
31. Lock Button
32. Needle Plate
33. Bobbin Cover Latch
34. Bobbin Cover



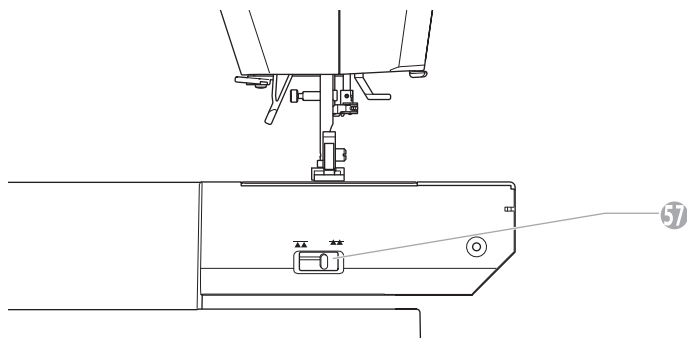
- 35. Inside of Top Cover*
- 36. Pattern Chart
- 37. Bobbin Winder Thread Guide
- 38. Thread Guide
- 39. Thread Guide
- 40. Thread Take-up lever (Inside)
- 41. Thread Tension Regulator (Inside)
- 42. Spool Cap
- 43. Spool Pin
- 44. Felt Washer
- 45. Bobbin Winder Thread Guide
- 46. Thread Cutter
- 47. Bobbin Winder Stop
- 48. Bobbin Winder Spindle

* To open the top cover, lift up the front of cover.



- 49. Handle
- 50. Thread Cutter
- 51. Presser Foot Lifter
- 52. Power Switch
- 53. Terminal Box
- 54. Foot Controller Jack
- 55. Foot Controller
- 56. Power Line Cord

REAR VIEW



- 57. Drop Feed Lever

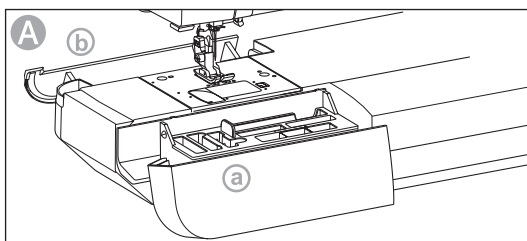
* The Drop Feed Lever is only accessible after the extension table is removed.

EXTENSION TABLE

A. OPENING THE ACCESSORY CASE

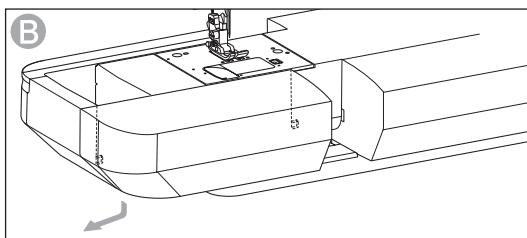
Grasp the front/rear case and pull outwards.

- Ⓐ: Front Case
- Ⓑ: Rear Case



B. REMOVING THE EXTENSION TABLE

Hook your finger to the left bottom side of extension table and slide it to the left. To attach, insert to the right.

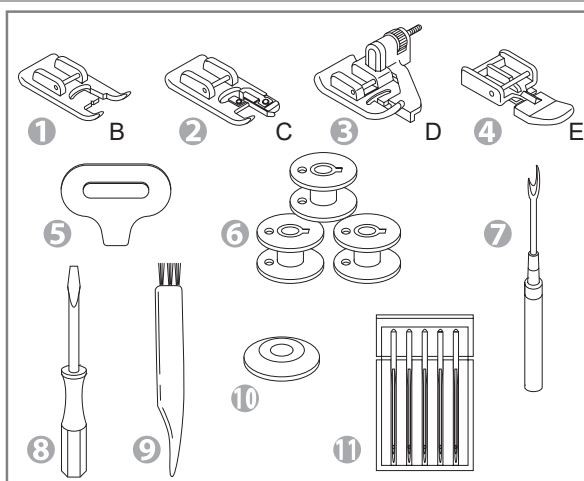


ACCESSORIES

Accessories are provided in the accessory case.

On the accessory tray (Front case)

1. Satin Foot (B)
2. Overcasting Foot (C)
3. Blind Foot (D)
4. Zipper Foot (E)
5. Driver for Needle Plate
6. 4 Bobbins (1 is in the machine)
7. Seam Ripper



Under the accessory tray (Front case)

Lift up the tray by holding the tab. There is a compartment underneath.

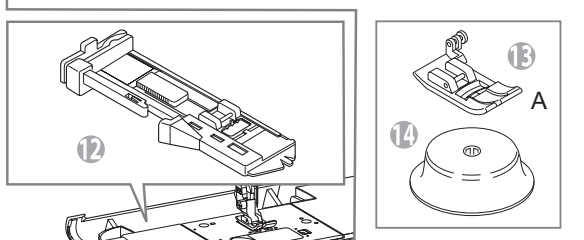
8. Screw Driver
9. Brush
10. Small Spool Cap
11. Needle Pack

In the rear accessory case

12. Buttonhole Foot

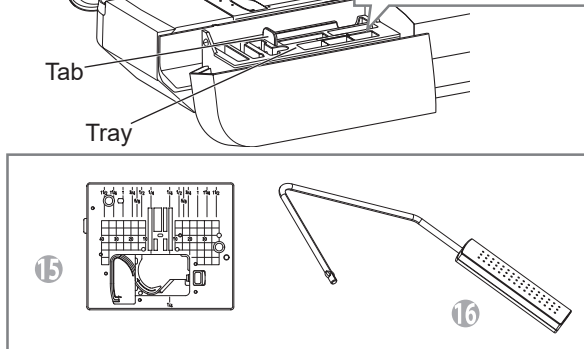
On the machine when delivered

13. Regular Foot (A)
14. Spool Cap



Provided on the top of styrofoam when delivered

15. Needle Plate for Straight Stitch
16. Knee Lifter Lever



CONNECTING THE MACHINE

1. Place machine on stable table.
2. Connect the power line cord to the machine by inserting the 2-hole plug into the terminal box.
3. Connect the power line plug to the electric outlet.
4. Turn on the power switch.

⚠ DANGER: To reduce the risk of electric shock.

Never leave unattended when plugged in. Always unplug this machine from the electric outlet immediately after using and before maintenance.

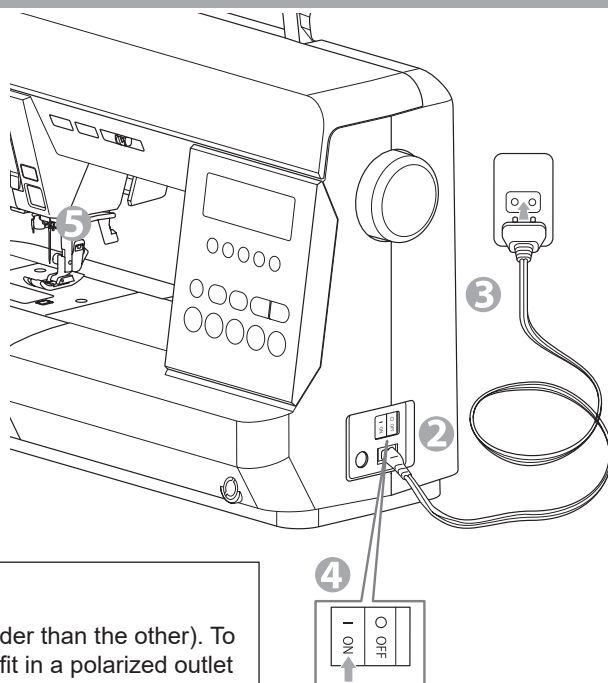
⚠ WARNING: To reduce the risk of burns, fire, electric shock, or injury to persons.

Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.

5. A lamp will light up when switch is turned on.
6. To disconnect, turn the power switch to the off position (Symbol **O**), then remove plug from outlet.

FOR UNITED STATES AND CANADA USERS:
POLARIZED PLUG INFORMATION

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.



FOOT CONTROLLER

Use of foot controller will permit control of start, stop and speed with your foot.

When the foot controller is connected, start/stop button will be deactivated. (See page 7)

1. Turn off the power switch. (Symbol **O**)
2. Push foot controller plug into the jack on machine.
3. Place foot controller at your feet.
4. Turn on the power switch.
5. A lamp will light up when switch is turned on.
6. The harder you press the foot controller, the faster the machine will sew. The machine will stop when foot controller is released.

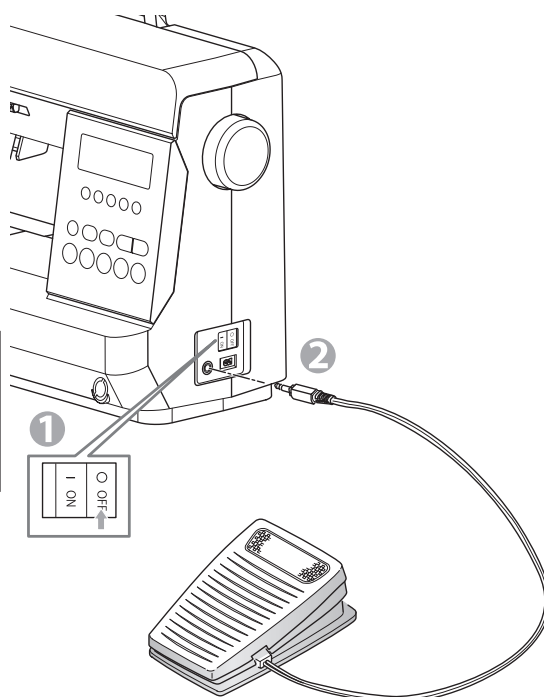
Tap Function

When you press and release the foot controller quickly, the needle position will be changed.

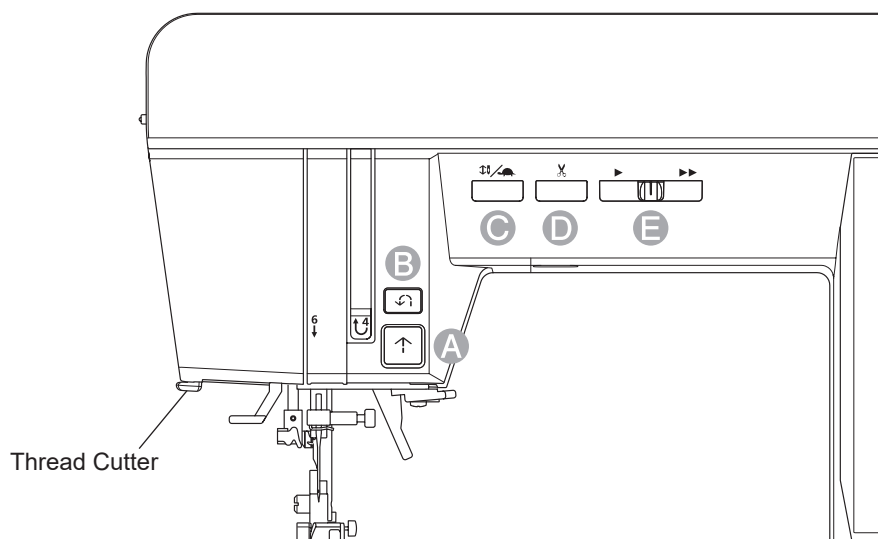
NOTE: Needle stop position will not be changed.

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

1. Turn off the power when connecting the foot controller to the machine.
2. Handle the foot controller with care and avoid dropping it on the floor. Be sure not to place anything on top of it.
3. Use only foot controller provided with this machine. (Type C-9001 manufactured by CHIEN HUNG TAIWAN Ltd))



FUNCTION OF EACH PART



A. START/STOP BUTTON

The machine will start running when start/stop button is pressed and will stop when pressed the second time. The machine will rotate slowly at start of sewing.

MONITOR LAMP

Green Light "ON": Ready to sew or to wind bobbin.

Red Light "ON": Presser foot is not in down position or buttonhole lever is not lowered.

If the red light is on, the machine will not start even when start/stop button is pressed.

If upper thread is not threaded, machine will stop after a few turns. (Upper thread sensor)

NOTE:

When the foot controller is connected, start/stop button will be deactivated.

B. REVERSE BUTTON

The machine will continue to sew in reverse at low speed while this button is pressed and stop when this button is released.

NOTE:

When the foot controller is connected and the pedal is pressed, machine will sew in reverse while this button is pressed. When released, machine will sew forward.

C. NEEDLE UP-DOWN/SLOW BUTTON

While NOT sewing, needle STOP position will be changed up or down by pressing this button.

While sewing, by pressing this button, machine will sew in slow speed. Pressing this button again, the speed will return.

D. THREAD CUTTER BUTTON

Press this button after sewing to cut the upper and lower bobbin threads.

The machine will cut both threads automatically.

CAUTION:

* Do not press this button when there is no fabric in the machine or if there is no need to cut the threads. The thread may tangle, resulting in damage.

* Do not use this button when cutting thread thicker than #30, nylon thread or other speciality threads. In this case, use the thread cutter. See page 26.

E. SPEED CONTROL BUTTON

The machine will sew faster when the button is slid to the right (▶▶), and sew slower when button is slid to the left (▶).

NOTE:

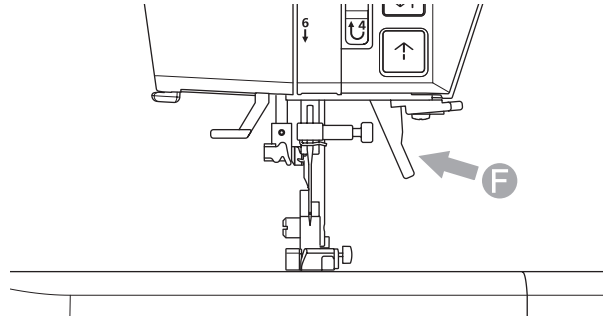
When the foot controller is connected, the speed control is automatically set to the maximum speed.

F. PRESSER FOOT LIFTER

The presser foot is lifted up or down by this lever.

NOTE:

Machine will not start when the presser foot is lifted.
(Except for bobbin winding)



G. DROP FEED LEVER

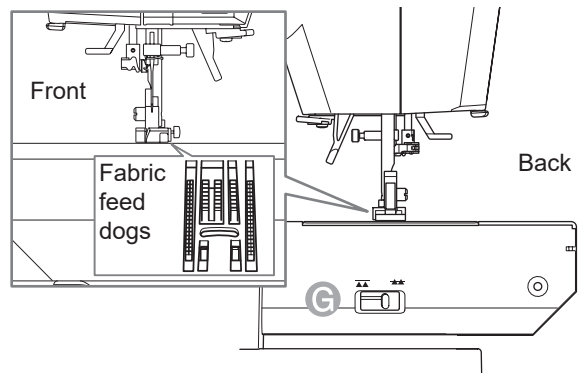
NOTE:

The Drop Feed Lever is only accessible after the extension table is removed.

The fabric feed dogs project up through the needle plate, directly below the presser foot. Their function is to move the fabric being sewn. The drop feed lever controls the fabric feed dogs.

For ordinary sewing, move the lever to the right. This raises feed dogs to their highest position. For most sewing, the lever should be in this position.

For darning or free motion embroidery or whenever fabric is to be moved by hand, move the lever to the left to lower the fabric feed dogs.



H. PRESSURE REGULATOR

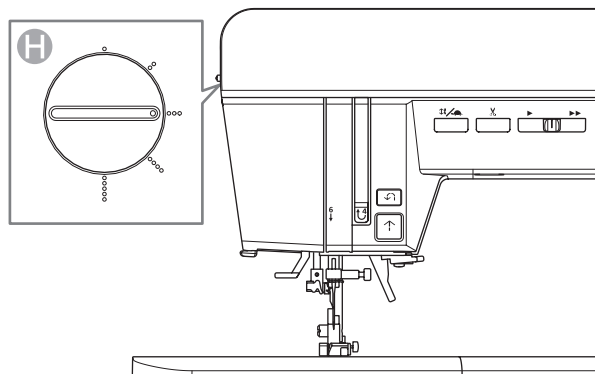
The correct pressure allows fabrics to feed properly while sewing. The setting of the presser foot pressure is determined mainly by the weight of the fabric being sewn.

For lightweight fabrics such as sheers, batiste, voile, etc, the pressure is decreased. For heavyweight fabrics like denim or canvas, the pressure is increased.

To increase the pressure, turn dial to 5. (○○○○○)

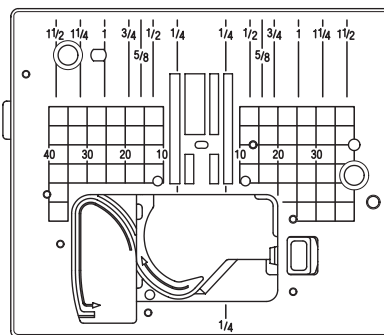
To decrease the pressure, turn dial to 1. (○)

For most fabrics, turn dial to 3. (○○○)



HOW TO USE THE NEEDLE PLATE FOR STRAIGHT STITCH

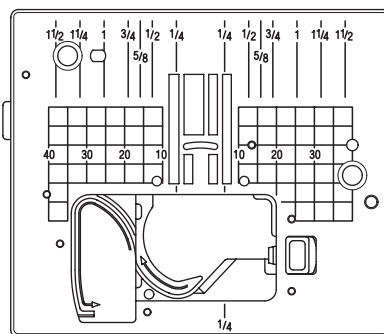
When sewing light-weight fabric you can get beautiful straight stitches without puckering by using the needle plate for straight stitch. This is because the needle plate for straight stitch has a smaller needle hole than the regular needle plate.



Needle Plate for Straight Stitch

CHANGING THE NEEDLE PLATE

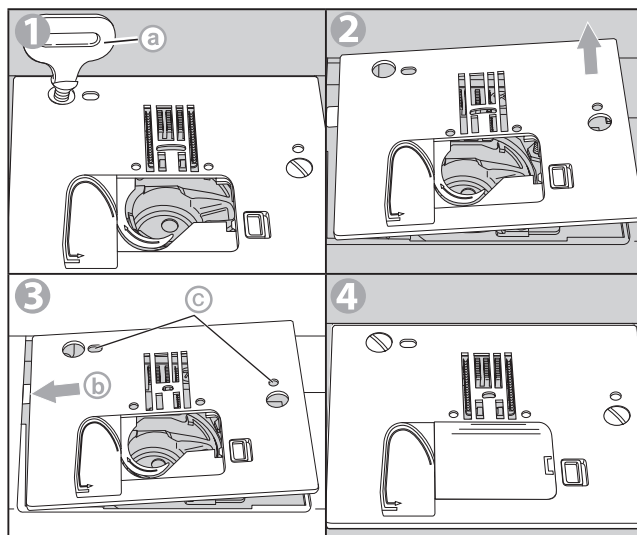
Remove the regular needle plate and attach the needle plate for straight stitch.



Regular Needle Plate
(On the machine when delivered)

CAUTION: To prevent accidents.
Disconnect the power when changing the needle plate.

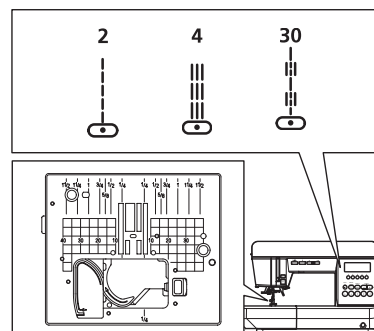
1. Remove the extension table, the needle, the presser foot and the holder. Remove the bobbin cover and bobbin. Remove the screws holding the regular needle plate.
 - Ⓐ: Driver for needle plate
2. Remove the regular needle plate by lifting up the right side of the plate.
3. Place the needle plate for straight stitch inserting the hook (Ⓑ) and holes (Ⓒ) into the machine. Retighten the screws.
4. Replace the bobbin and the bobbin cover, the presser foot and holder. Replace the needle and extension table.



SEWING

Select the straight stitch center needle position (No. 2, 4, 30).

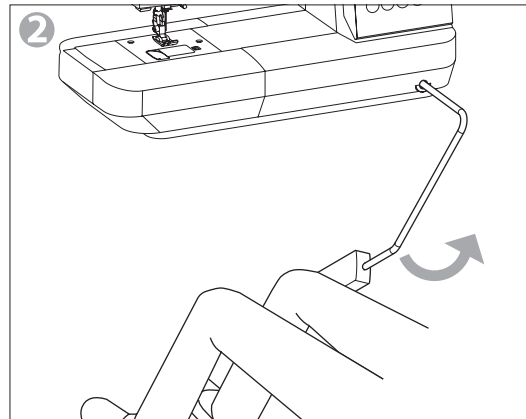
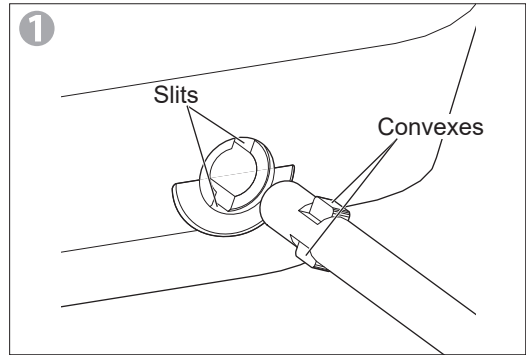
CAUTION: To prevent accidents.
Select stitch numbers 2, 4 and 30 only while using the needle plate for straight stitch. Do not move the needle position from center (3.5). Otherwise, needle hit the needle plate and break.



KNEE LIFTER LEVER

By attaching the knee lifter lever to the machine, you can lift or down the presser foot by your knee.

1. Insert the knee lifter lever into the socket of machine so that the convexes of the lever fit into the slits of the socket.
2. Press the lever to the right to lift up the foot. Release the lever to lower the foot.

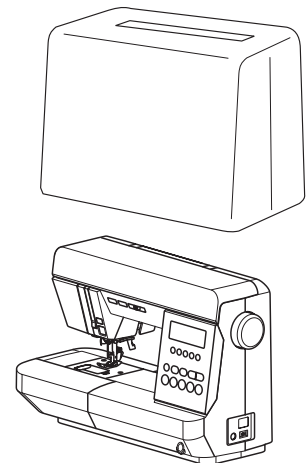


CAUTION: To prevent the accidents.

- Insert the knee lifter lever all the way into the socket. If it is not inserted correctly, it may come off during use.
- DO NOT TOUCH THE KNEE LIFTER LEVER WHILE SEWING. Needle may break or sewing may jam.

DUST COVER

Cover the machine with dust cover when it is not in use.





TO SELECT A PATTERN / ADJUST A PATTERN

This machine has 70 patterns.

(See the pattern chart located inside of the top cover.)

When you turn on the machine, straight stitch (1) will be selected and indicated on the LCD.

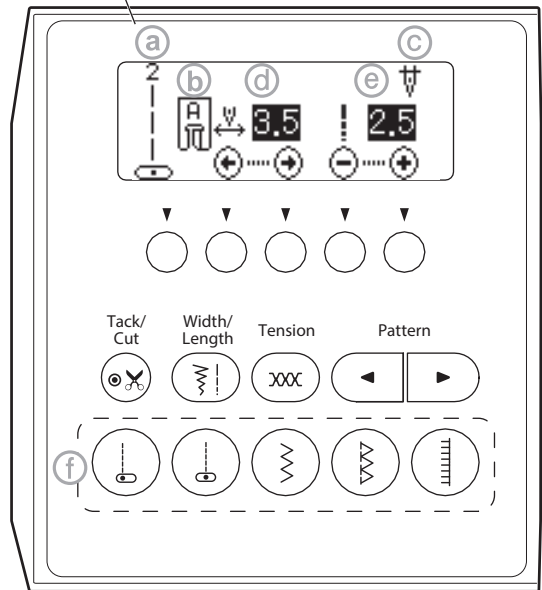
When you select a pattern, the following are indicated on the LCD:

- (a) Pattern Number and Stitch Pattern
- (b) Suitable Presser Foot
The presser foot indicated on the LED is suggested for use for normal sewing.
You can use other presser feet according to the purpose of sewing described in this manual.
- (c) Needle Stop Position
Indicates needle stop position by selecting needle up/down button.
Up position:  Down position: 

When you turn on the machine, needle stop position is set to down position.

- (d) Stitch Width/Needle Position
See page 13.
- (e) Stitch Length
See page 13.
- (f) Basic Stitch Buttons
See the next topic "TO SELECT A BASIC PATTERN".

Control Panel



NOTE:

If the LCD can not be seen well, you can adjust the brightness. (See page 44)

A. TO SELECT A BASIC PATTERN

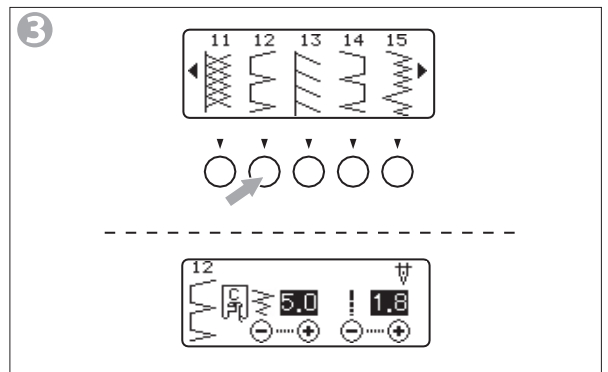
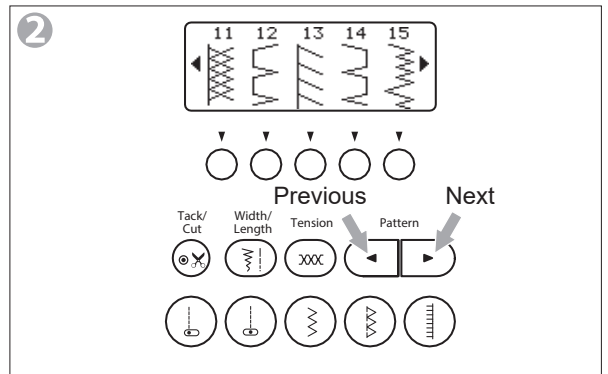
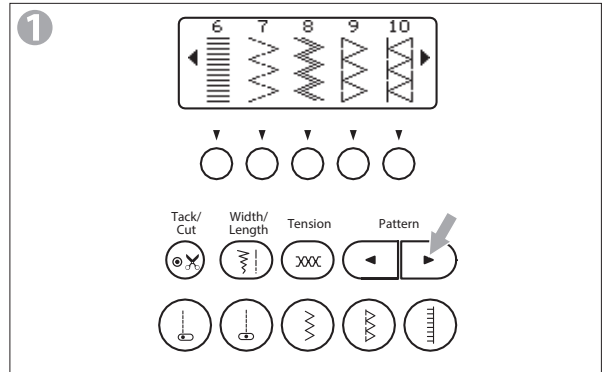
You can select basic stitch by touching these buttons (f) directly. Selected stitch will be indicated in the screen.

NOTE:

Please do not press the buttons strongly.
The buttons in the control panel react by lightly touching with the fingertip.

B. TO SELECT OTHER PATTERN

1. Touch the right or left pattern button.
The 5 patterns including currently selected will be displayed on the LCD.
2. By touching the left pattern button, the previous 5 patterns will be displayed.
By touching the right pattern button, the next 5 patterns will be displayed.
Touch these buttons until the pattern which you want to sew will appear.
3. Touch the function button under the pattern you want to sew.
The LCD screen will indicate the stitch width/needle position and stitch length of the selected pattern.



C. TACK/CUT BUTTON

You can sew tack stitch at the beginning and end of the stitch by touching the tack/cut button. Also, you can cut threads automatically after end tacking. See page 24.

D. ADJUSTING THE STITCH WIDTH AND LENGTH

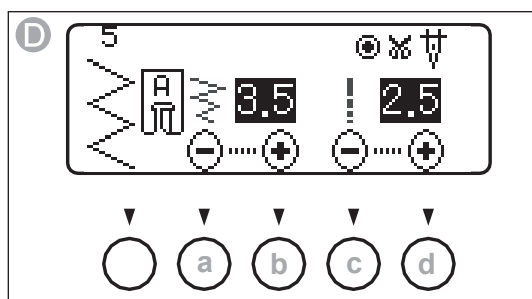
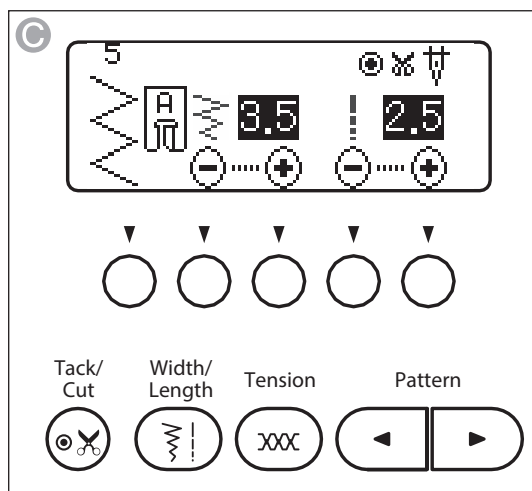
Touching the width/length button, the display changes as illustration (D).

When you select a pattern, stitch width and length are set for suitable width and length automatically and indicated on the screen. You can adjust them manually. If the screen is indicating the thread tension, touch the width/length button to indicate them.

To narrow the stitch width, touch the function button (a).
To widen the stitch width, touch the function button (b).

To shorten the stitch length, touch the function button (c).
To lengthen the stitch length, touch the function button (d).

- * Preset stitch width and length are indicated as a highlighted number.
- * The beep sounds at the maximum or minimum value.
(The maximum or minimum value is different by each pattern. When stitch width or length is not appeared, its pattern cannot change these settings.)



Stitch Width - +

Stitch Length - +

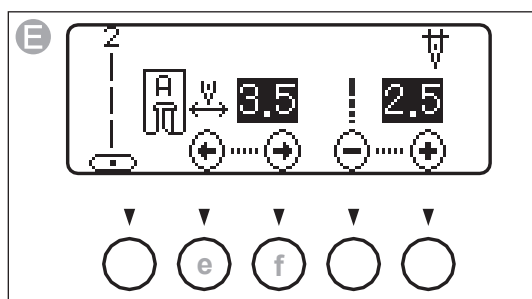
E. NEEDLE POSITION CONTROL

When straight stitch patterns (1, 2, 4, 30) have been selected, stitch width buttons change to adjust the needle position.

To move the needle to the left, touch the function button (e).

To move the needle to the right, touch the function button (f).

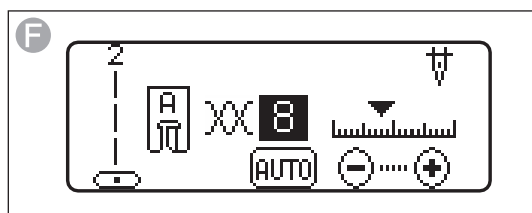
Number	0 - 3.5 - 7.0
Position	Left Center Right



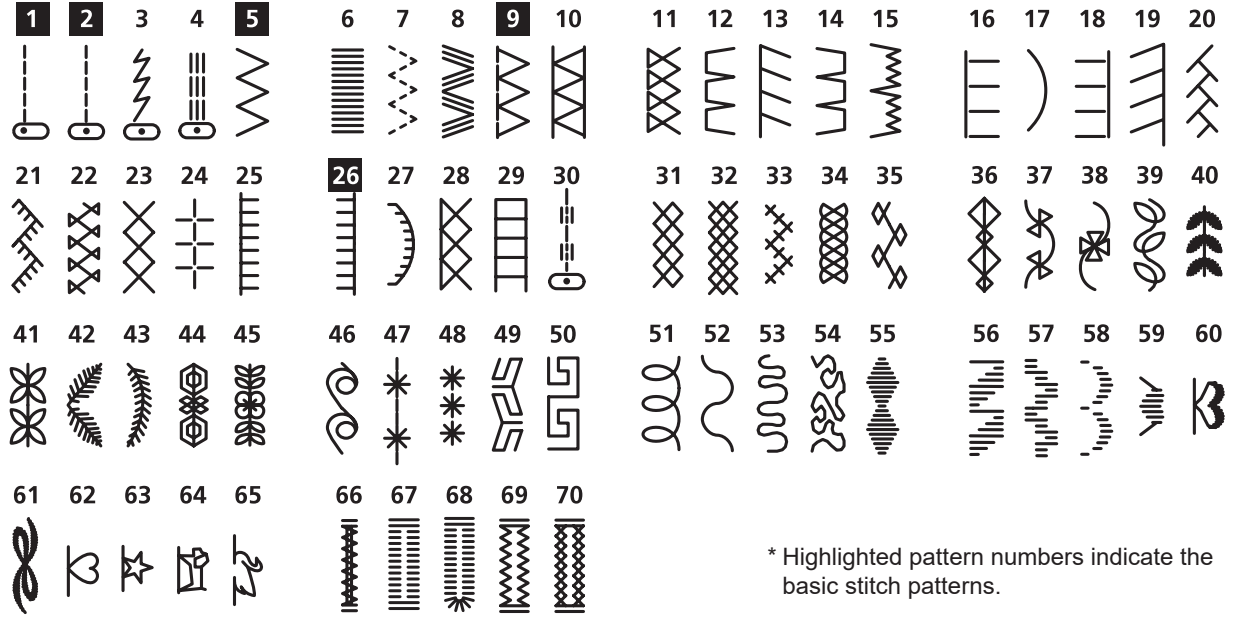
F. TENSION BUTTON

Touching the tension button, the display changes as illustration (F).

The thread is automatically setup to a suitable thread tension. When you touch this button you can adjust it manually. See page 15.



G. STITCH PATTERN



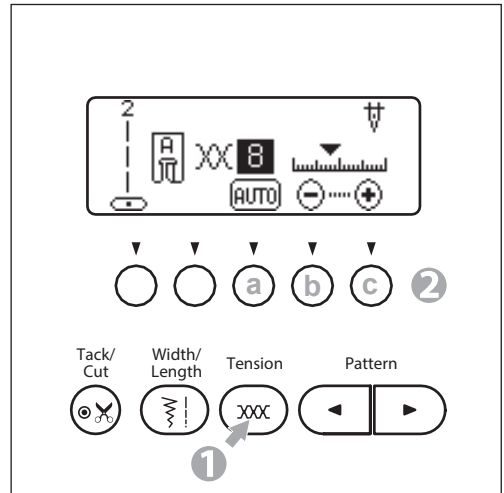
* Highlighted pattern numbers indicate the basic stitch patterns.

THREAD TENSION

This machine adjusts the thread tension automatically when you select a pattern. However, you can change the thread tension as follows.

1. Touch the thread tension button.
The state of thread tension is displayed with numerical value and scale. (Thread tension screen)
2. Change the thread tension with function buttons:
 - To return to default tension, touch the function button (a).
 - To weaker the tension, touch the function button (b).
 - To stronger the tension, touch the function button (c).

- * Preset tension number is highlighted.
- * You can start sewing on this thread tension screen as it is.
- * When you reselect a pattern, tension will return to default.



Thread Tension Guide

Preset thread tension

Upper and bobbin thread will lock appromaximately in the middle of fabric.

When thread tension is decreased.

Upper thread will appear on the bottom side of fabric.

When thread tension is increased.

Bobbin thread will appear on the top side of fabric.

Thread tension except for straight stitch

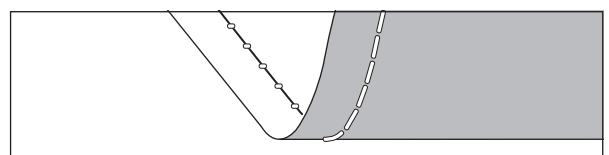
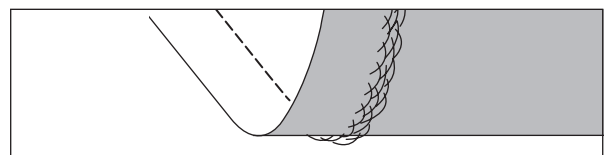
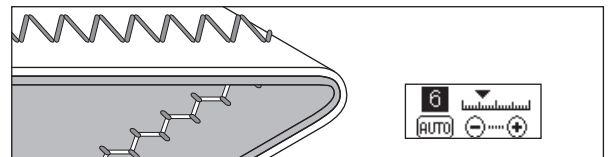
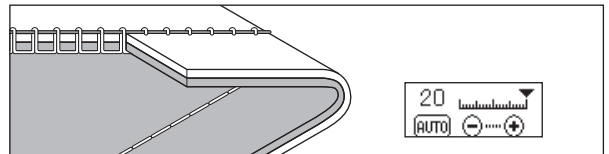
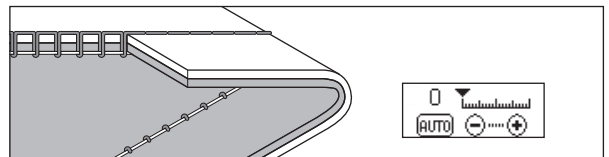
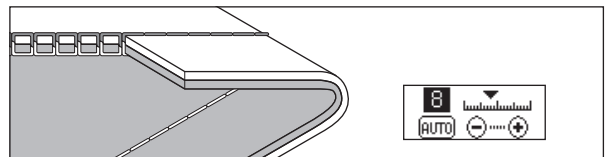
When sewing stitches other than straight stitch, thread tension is automatically adjusted to be weaker than when sewing a straight stitch.

This will cause upper needle thread to appear on the bottom side of fabric, resulting in better stitching.

Helpful Hints

If your sewing appears as shown on the right, (stitches on the top side of fabric are good but bottom side tends to look like a towel), it could be that the upper thread is not threaded correctly. Refer to page 18 for correct threading.

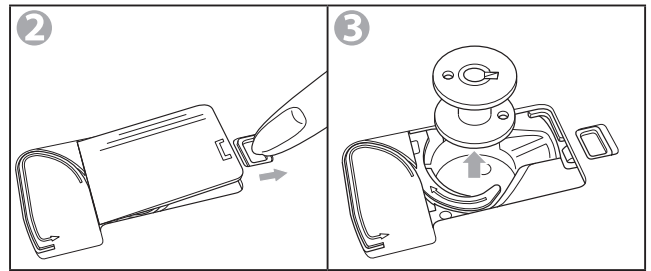
- * Also, if the bobbin thread comes out on the front side of the fabric even though the thread tension is set to the automatic setting value, the way of setting bobbin is wrong. Refer to page 17 and set the bobbin correctly.



BOBBIN SETTING

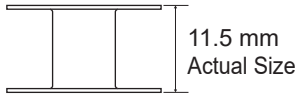
A. REMOVING THE BOBBIN

1. Raise the presser foot lifter.
2. Pull the bobbin cover latch to the right and remove the bobbin cover.
3. Lift up the bobbin from the machine.



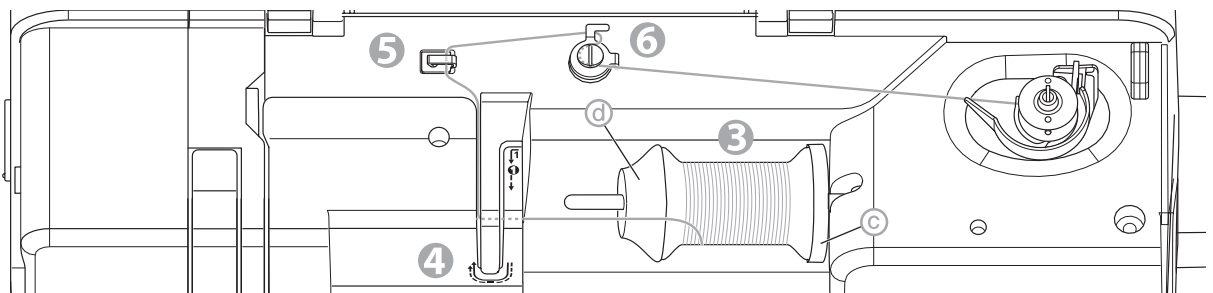
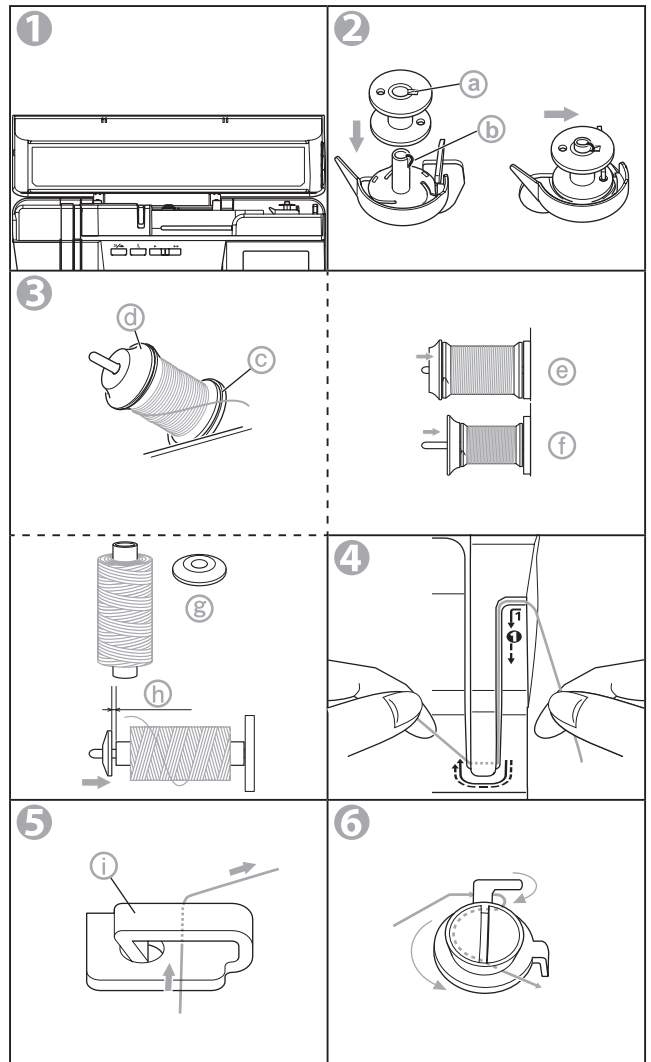
NOTE:

Use the bobbin dedicated to this model.

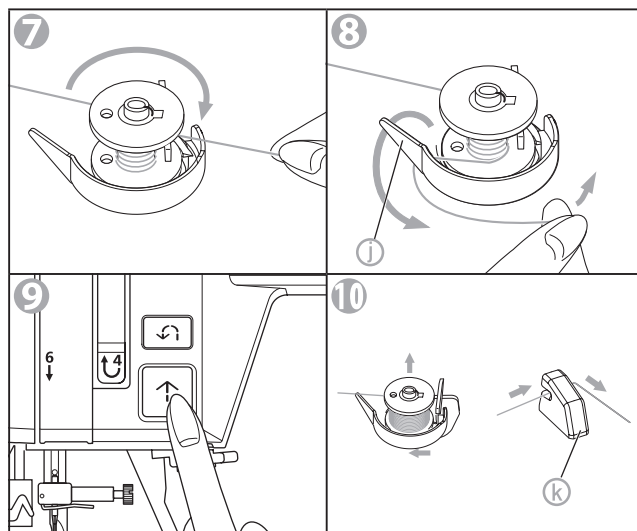


B. WINDING THE BOBBIN

1. Open the top cover.
2. Place the bobbin on the bobbin winder spindle so that the groove (a) on the bobbin fits to the spring (b) on the spindle. Push bobbin to the right to engage bobbin winder. (LCD will indicate the bobbin winder mode.)
3. Set the felt washer (c) to the right side of spool. Set the spool of thread on spool pin so that the thread unrolls from the front of the spool. Set the spool cap (d) on spool pin as far as it will go. Reverse spool cap direction according to the size of spool.
 ⓐ: Large Spool ⓑ: Small Spool
 Use the small spool cap (e) when you use cross wound thread. Leave small opening between cap and spool as illustrated (f) for smooth thread feeding.
4. Hold thread in both hands and hook thread to the guide from rear opening. Bring thread frontward and pass through the thread guide from right to left.
5. Bring thread backward and pass through the thread guide (g) from left to right.
6. Bring thread to the right and pass thread through the thread guide from rear side. Pass thread under tension disc in counter clockwise direction.



7. Hold the thread by your left hand and wind the thread to the bobbin 4-5 times clockwise.
8. Hook the thread under the front wing of the bobbin winder thread guide (ⓓ) from left to right and cut the thread.
9. Start the machine by pressing the start/stop button or pressing the foot controller pedal. The bobbin winding will stop automatically when bobbin is full. (Release the pedal.)
10. Push the bobbin and spindle to the left. Remove the bobbin from the spindle. Hook thread to the thread cutter (Ⓚ) from left-back to right-front.



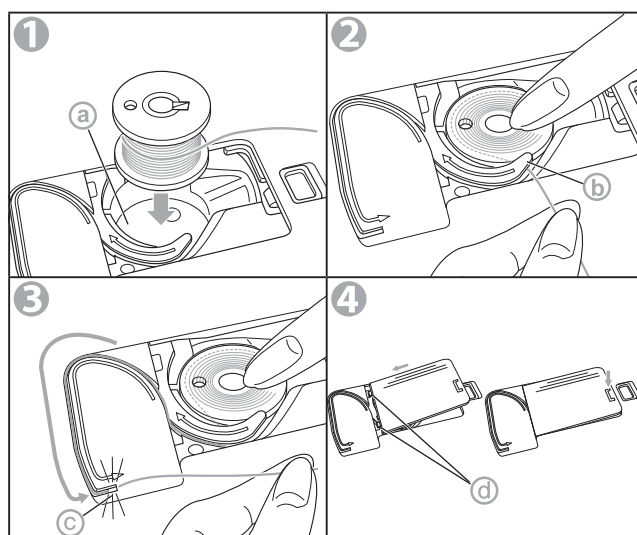
C. INSERTING THE BOBBIN



CAUTION: To prevent accidents.

Turn off the power before carrying out the below operation.

1. Place bobbin into bobbin holder (ⓐ) with the thread unwinding counter clockwise.
2. Draw thread into notch (ⓑ) with holding the bobbin.
3. Pull thread along the groove from up to down. Pull thread to the right to cut the thread (ⓒ).
4. Replace the bobbin cover. Set the left tabs (ⓓ) into the holes in needle plate and push the right side of bobbin cover down until it clicks into place.

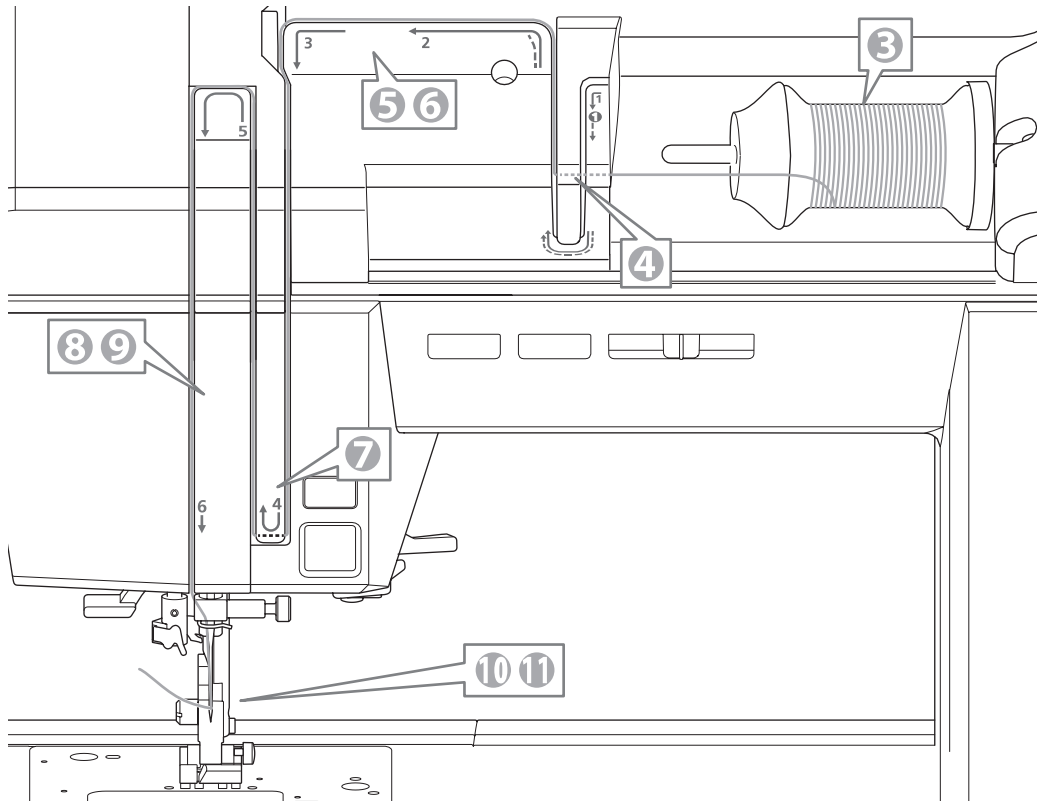


NOTE:

This machine can start to sew without drawing up the bobbin thread.

If you want to draw up the bobbin thread, see page 26.

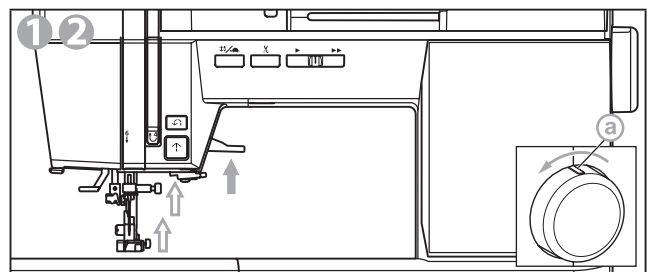
THREADING THE MACHINE



A. PREPARING TO THREAD MACHINE

1. Raise the presser foot lifter.
2. Raise the needle to its highest position by turning the hand wheel toward you.
The mark (a) of hand wheel comes to the top.

(Keep this position until needle eye threading.)



B. SETTING SPOOL OF THREAD ON SPOOL PIN

3. Open the top cover and set spool as below.

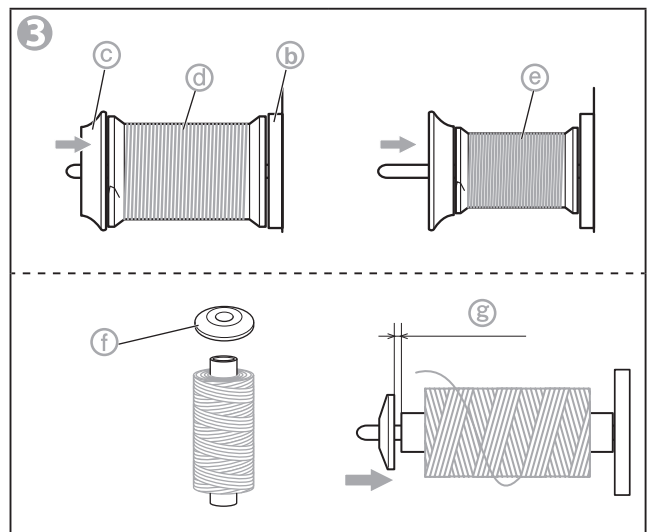
- Pull up the left end of spool pin.
- Set the spool of thread on spool pin so that the thread unrolls from the front of the spool.
- Set the spool cap on spool pin as far as it will go. (See illustration.)

(b): Felt Washer (c): Spool Cap

Reverse spool cap direction according to the size of spool.

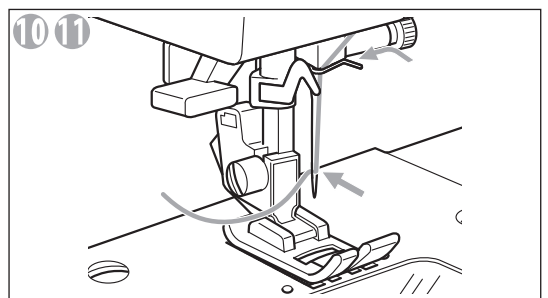
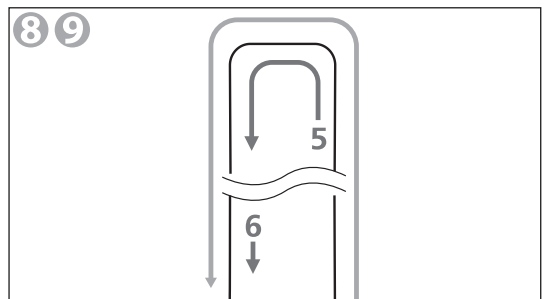
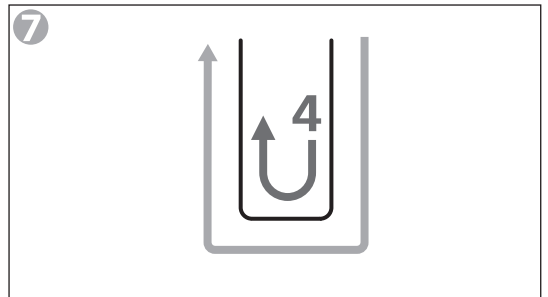
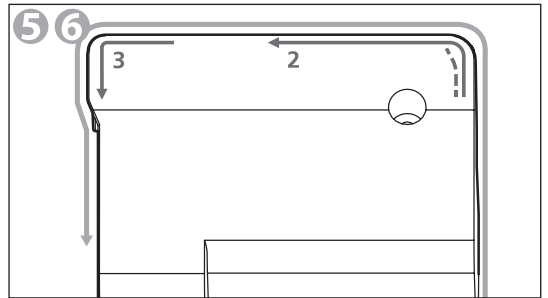
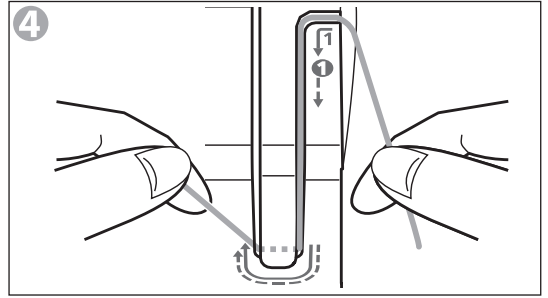
(d): Large Spool (e): Small Spool

Use the small spool cap (f) when you use cross wound thread. Leave small opening between cap and spool as illustrated (g) for smooth thread feeding.



C. THREADING THE UPPER THREAD

4. Hold thread in both hands and pass thread to the guide from rear opening and pass through front opening from right to left.
5. Bring thread backward and pass through from right to left.
6. Bring thread to the left and pull down thread toward you along the slit.
7. Bring thread right to left and pull up thread.
8. To thread the take-up lever, draw thread up and bring thread back down again from right to left along the slit.
9. Pull thread downward along the slit.
10. Draw thread through the needle bar thread guide from right side opening.
11. Pass through needle eye from front to back.
Refer to next page for instructions on how to use needle threader.



D. THREADING THE NEEDLE EYE

NOTE:

The needle threader is used for needle sizes 11/80 - 16/100 and thread sizes 50- 100.



CAUTION: To prevent accidents.

- Do not put your fingers under the needle.
- Do not rotate the hand wheel when threader lever is lowered.

1. Pull thread from needle bar thread guide and continue gently pulling thread downwards until you reach the front of the extension table. Lower the presser foot.

NOTE:

Check that the needle is raised.

If it is not so, raise needle by turning the hand wheel toward you.

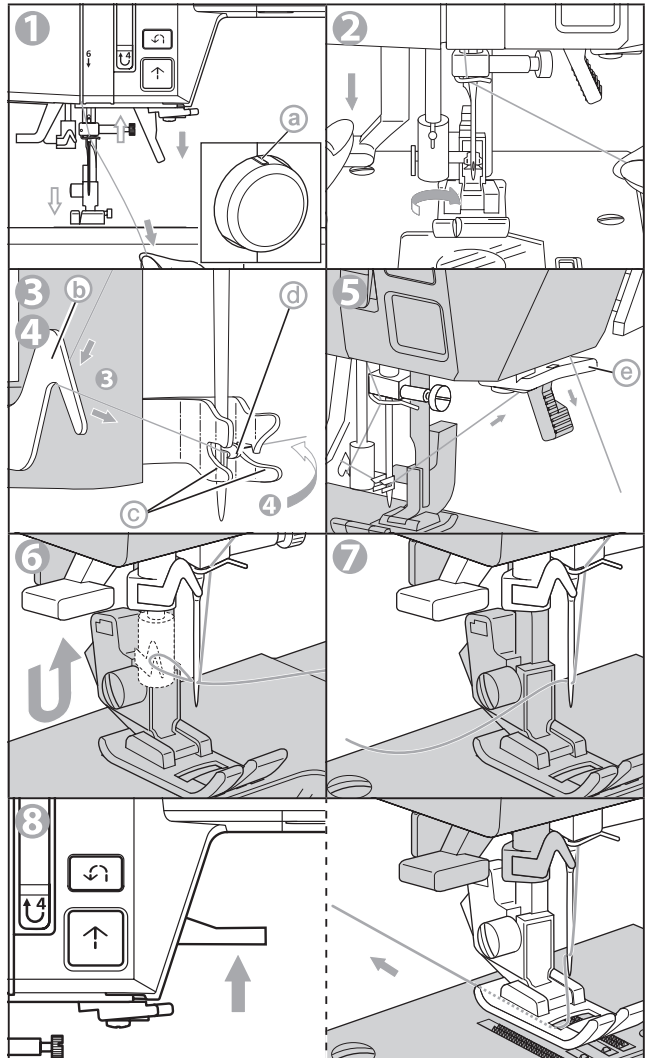
The mark (a) of hand wheel comes to the top.



CAUTION: To prevent accidents.

Turn off the power before carrying out the below operation.

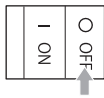
2. Lower the needle threader lever. The lever will stop at lower position. The threader will turn and the hook pin will go through the needle eye.
3. Draw thread through needle threader (b) and pull toward the right.
4. Draw thread into the guide (c). Thread will be hooked to the (d).
5. Hook the thread to the thread cutter (e) from back to front. Pull and cut thread.
6. Lower the lever once more and release the lever. Hook will turn and pass thread through needle eye while making a loop.
7. Pull thread out from needle eye.
8. Raise the presser foot and pull upper thread about 10 cm toward the back of presser foot.



CHANGING THE PRESSER FOOT

The presser foot must be changed according to the stitch you sew, or work you do.

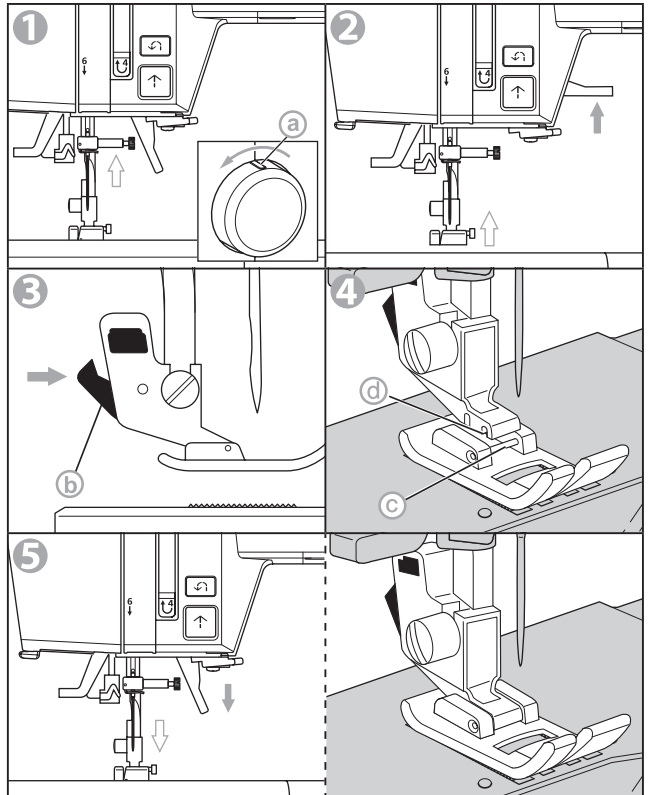
CAUTION: To prevent accidents.
Turn off the power switch before you change the presser foot.



A. CHANGING THE PRESSER FOOT

Use the appropriate presser foot for each sewing pattern or purpose. See page 27, confirm the presser foot for each pattern.

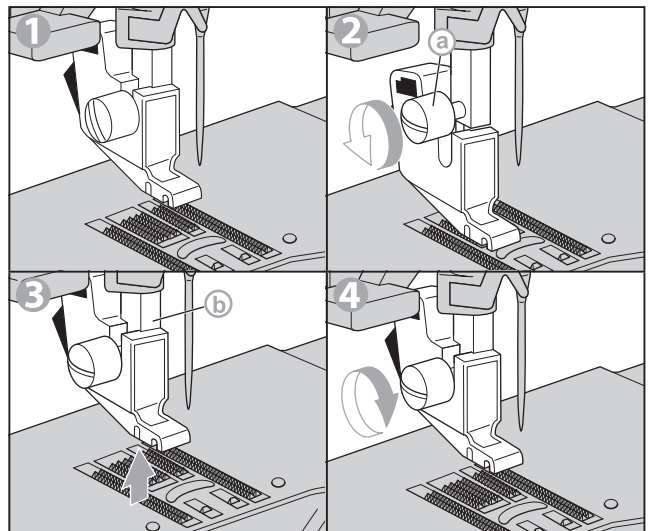
1. Turn the hand wheel toward you until the needle is at its highest point.
The mark (a) of hand wheel comes to the top.
2. Raise the presser foot lifter.
3. Remove the presser foot by pushing the presser foot release lever (b) toward you.
Presser foot will come off.
4. Place desired foot with its pin (c) directly under the slot (d) in presser foot holder.
5. Lower the presser foot lifter and the presser foot will snap into place.
The pin fits in the slot.
If it does not fit completely, try pressing the presser foot release lever.



B. REMOVING THE PRESSER FOOT HOLDER

Remove the presser holder when you clean the machine or attaching extra foot (option).

1. Remove the presser foot.
See the previous topic "CHANGING THE PRESSER FOOT".
2. Loosen the presser foot thumb screw (a) and remove the presser foot holder.
Presser foot holder will come off.
3. To replace the holder, pull up the holder as far as it will go from bottom of presser bar (b).
4. Tighten the thumb screw.



FABRIC, THREAD AND NEEDLE TABLE

Select thread size and needle size according to the type of fabric and thickness.

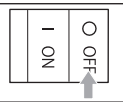
Type of Fabric		Thread Size	Needle Size
Light Weight	thin georgette, organdy, voile, taffeta, silk, etc.	Ctn #80 - 100 Silk 60 - 80 Syn 80 - 100	9/70-11/80
Medium Weight	gingham, pique, linen, cotton, satin, thin corduroy, velvet, etc.	Ctn 50 - 80 Silk 50 Syn 50 - 80	11/80-14/90
Heavy Weight	gabardine, tweed, denim, corduroy, etc.	Ctn 30 - 50 Silk 50 Syn 30 - 60	14/90-16/100
Stretch	double knit, tricot, spandex, jersey, etc.	Syn 50 - 80 Silk 50 Thread for knit	11/80-14/90 Needle for knit and synthetic fabric

Use a Home sewing machine needle.

INSERTING THE NEEDLE

CAUTION: To prevent accidents.

Turn off the power before carrying out the below operation.



Putting a cloth over the needle plate prevents you from dropping the needle into the machine.

1. Turn the hand wheel toward you until the needle is at its highest point.

The mark (a) of the hand wheel comes to the top.

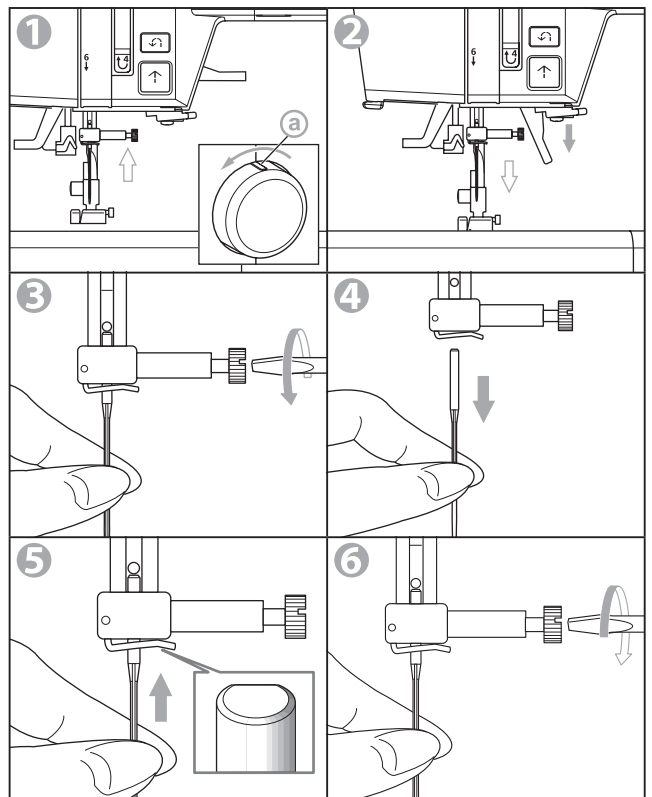
2. Lower the presser foot lifter.
3. Loosen the needle clamp screw.

4. Remove the needle.

5. Insert new needle into needle clamp with the flat side to the back and push it up as far as it will go.

6. Tighten the needle clamp screw.

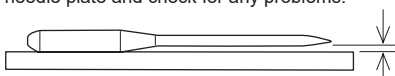
CAUTION: Do not over-tighten with a commercial screwdriver.



CAUTION: To prevent accidents.

Do not use a bent needle or a needle with a collapsed tip.

Before installing the needle, place the needle on a flat surface such as a needle plate and check for any problems.



STARTING TO SEW

Turning on the machine, the straight stitch  (center) is selected.

A. START AND END OF SEAM

1. Check the presser foot [Regular Foot (A)].
Refer to page 21 for changing the presser foot.
2. Raise up the needle by pressing the needle up-down button or turning the hand wheel toward you.
When you raise up the needle with the needle up-down button needle stop position will change to the up position.
3. Place the fabric under the presser foot and lower the presser foot.
The monitor lamp turns on green.
4. Hold back upper thread and press the start/stop button or press the foot controller pedal.
Keep holding thread after sewing a few stitches.
Lightly guide the fabric while sewing.

You can regulate the sewing speed by sliding the speed control button even during sewing. Also, you can reduce the sewing speed by pressing the slow button.

CAUTION: To prevent accidents.

- Pay attention to the point of the needle.
- Do not pull or push strongly as the cloth is automatically sent by the machine.

5. When you reach end of seam, press the start/stop button to stop sewing or release the foot controller pedal.
The needle stop position depends on the setting of the needle up-down button.
6. Press the thread cutter button.
When needle stop position is
- up: the needle down once, cuts the thread and goes up.
- down: the threads are cut and the needle goes up.
At this time, even if the needle rises upwards, the setting of the stop position does not change.

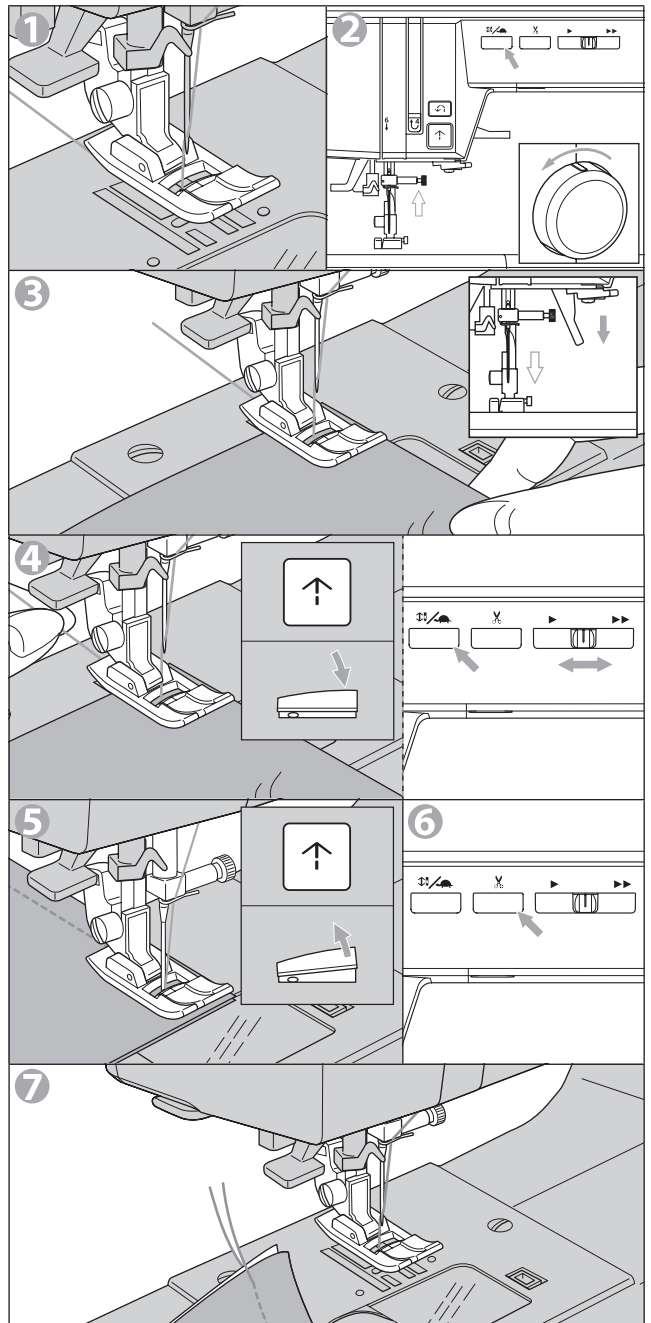
7. Raise the presser foot lifter and remove the fabric.

Upper Thread Sensor

If upper thread is broken or missing, machine will stop automatically and message will appear.
Rethread the upper thread and resume sewing.

CAUTION: To prevent accidents.

- Do not press the thread cutter button when there is no fabric in the machine or no need to cut the threads. The thread may tangle, resulting in damage.
 - Do not use the thread cutter button when cutting thread thicker than #30, nylon thread or other speciality threads.
- In this case, use the thread cutter located on the left side of the machine. (See page 26)



B. REVERSE STITCHING

Reverse stitching is used for reinforcing the beginning and ends of the stitch.

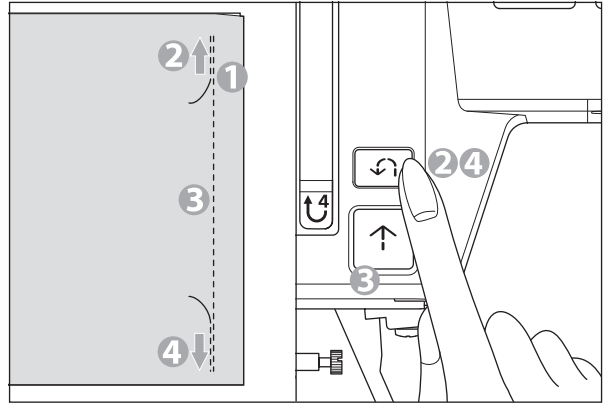
You can sew reverse stitch with the reverse button.

(The machine will continue sewing reverse stitching while you are pressing the button. When you release the button, reverse stitching will stop.)

1. Place the fabric in position where back stitching is to be made and lower the presser foot.
2. Press and hold the reverse button.
Sew 4-5 reverse stitches.
3. Release the reverse button and press the start/stop button (or press the pedal). Machine will change to forward sewing.
4. When you reach the end of seam, press and hold reverse button and sew 4-5 reverse stitches.

NOTE:

When the foot controller is connected and the pedal is pressed, machine will sew in reverse while this button is pressed. When released, machine will sew forward.



C. AUTO TACK, AUTO TACK & CUT

You can sew tack stitch at the beginning and end of the stitch by touching the tack/cut button once.

Also, you can cut threads automatically after the tacking end by touching the tack/cut button twice.

1. Select stitch pattern.
 - a. Touch the tack/cut button once if you want to sew only tacking.
⊗ is displayed on the LCD.
 - b. Touch the tack/cut button twice if you want to sew tacking and cut threads.
⊗ ✂ is displayed on the LCD.
You can cancel them by touching this button again.

2. Start to sew.

The machine will sew tack stitch automatically and start to sew the selected pattern.

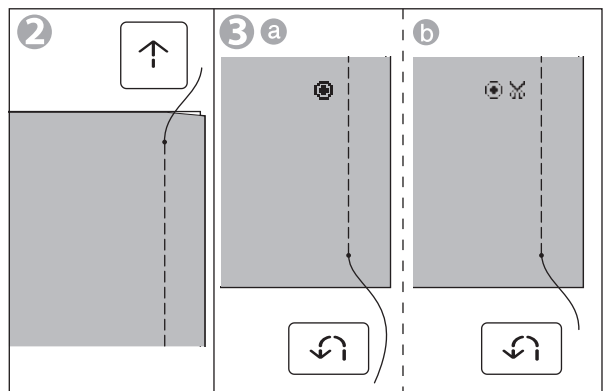
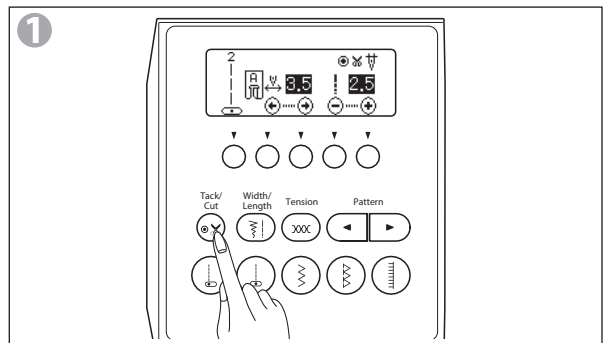
You can interrupt sewing by pressing the start/stop button.

3. When you reach the end of seam, press the reverse button once.
 - a. The machine will sew tack stitch and stop automatically.
 - b. The machine will sew tack stitch, cut the thread and stop automatically.

Stitch No. 66-70 are including the tack stitch.

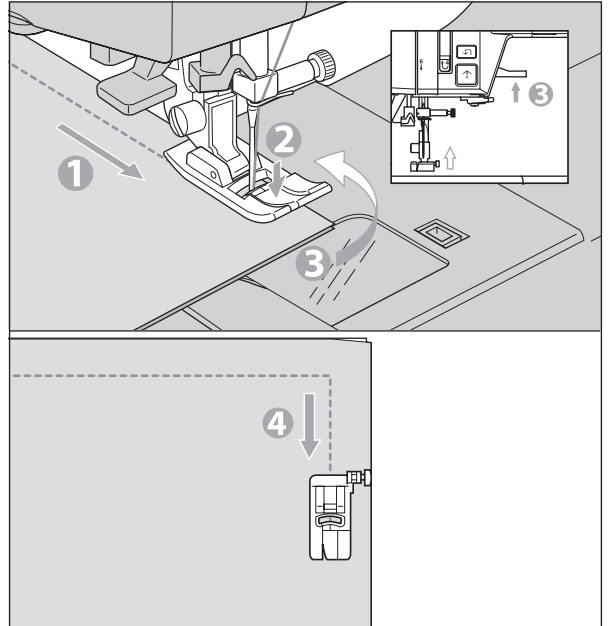
In these case, tack/cut button will be set auto cut only.

See pages 33-35.



D. TURNING CORNERS

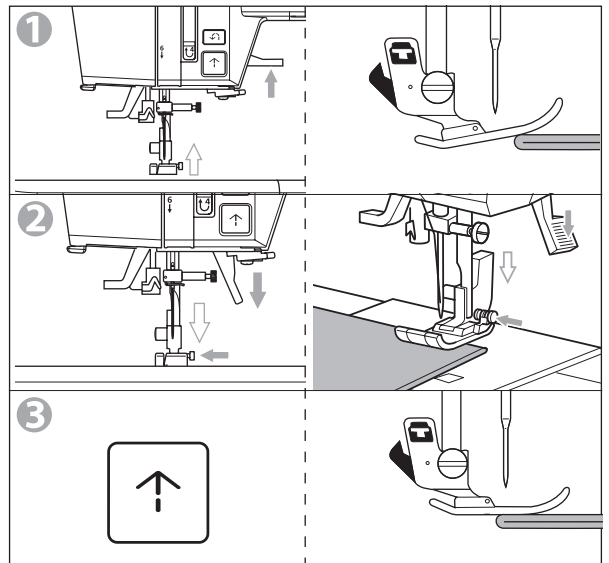
1. Stop the machine when you reach a corner.
2. Lower the needle into the fabric by:
Pressing the needle up/down button or turning hand wheel toward you.
If you lower the needle by pressing the button, the needle stop position will be downward after that.
3. Raise the presser foot.
Use the needle as a pivot, turn fabric and set toward you want to sew.
4. Lower the presser foot and resume sewing.



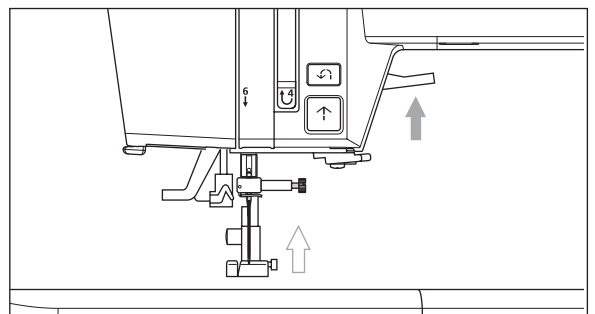
E. SEWING HEAVY FABRIC

When sewing heavy fabrics, the toe end of presser foot tends to lift up and sewing cannot be started smoothly. In such case, set as follows.

1. Raise the presser foot.
2. Push the lock button located on the right side of regular foot and lower the foot.
3. Start sewing.
As presser foot hinge is locked, fabric will be fed smoothly.
As sewing progresses, it will be unlocked automatically.

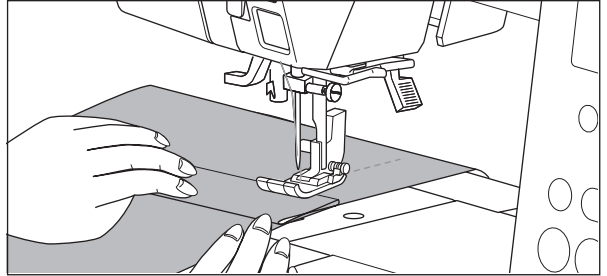


If you raise the presser foot lifter further and raise the foot further one step, you can easily sew a thick cloth.



F. SEWING OVER OVERLAPPED AREAS

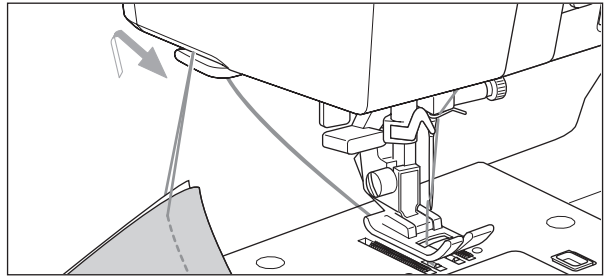
Guide the fabric with your hand when sewing over overlapped areas.



G. THREAD CUTTER

After sewing, if you do not use the thread cutter button, you can cut threads using the thread cutter.

1. Raise the presser foot and bring fabric and threads backward after sewing.
2. Hook the threads to the thread cutter from back to front.
3. Pull fabric and cut threads.

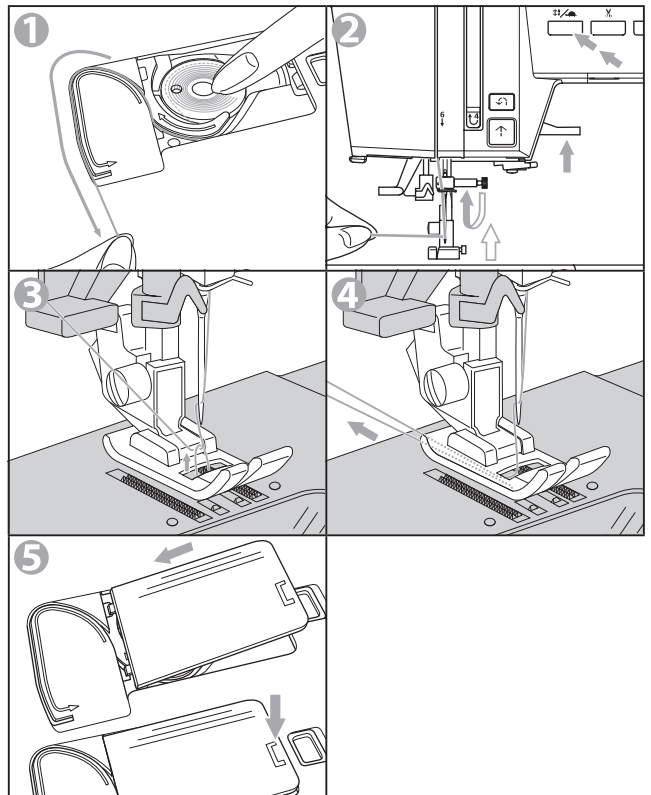


H. IF YOU WANT TO DRAW UP THE BOBBIN THREAD

This machine can start to sew without drawing up the bobbin thread.

If you want to start sewing with longer bobbin thread, draw up the bobbin thread as follows.

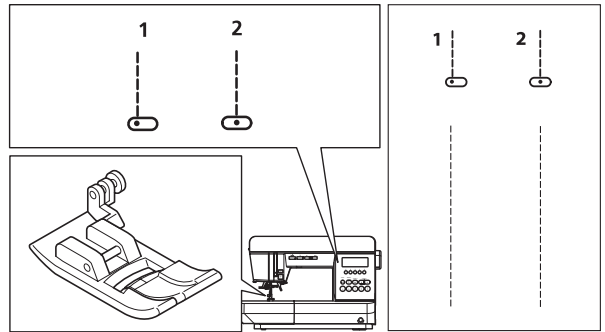
1. Insert the bobbin into the bobbin holder and pass thread as instructed on page 17. But do not cut the thread.
2. Raise the presser foot.
Hold thread loosely and press the needle up-down button twice from up position.
The hand wheel will make one revolution toward you.
3. Pull upper thread lightly. Bobbin thread will come up in a loop.
4. Pull both upper and bobbin threads about 10 cm toward the back of presser foot.
5. Replace the bobbin cover. (See page 17)



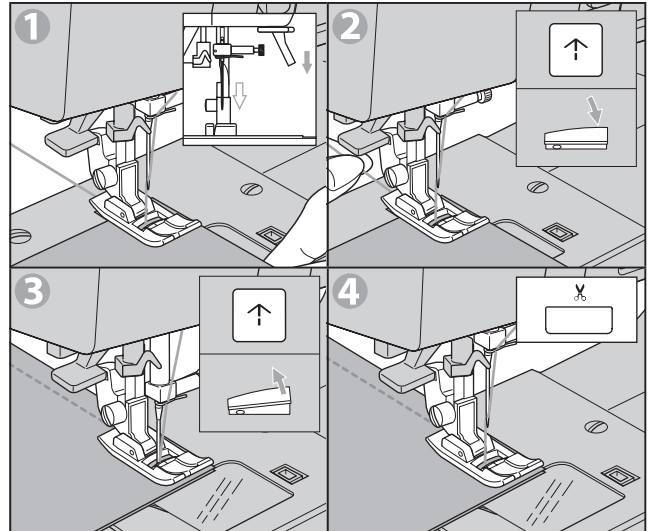
STRAIGHT STITCH SEWING

Straight stitch patterns should be selected to suit the type of fabric being sewn.

Stitch	Presser Foot
1 Straight stitch (Left needle position)	Regular Foot (A)
2 Straight stitch (Center needle position)	



1. Position the fabric under the presser foot.
Lower the presser foot.
2. Hold the upper thread loosely and start sewing.
Place hand lightly on the fabric while sewing.
3. When you reach the end of seam, stop sewing.
4. Press the thread cutter button.



ELASTIC STITCH SEWING

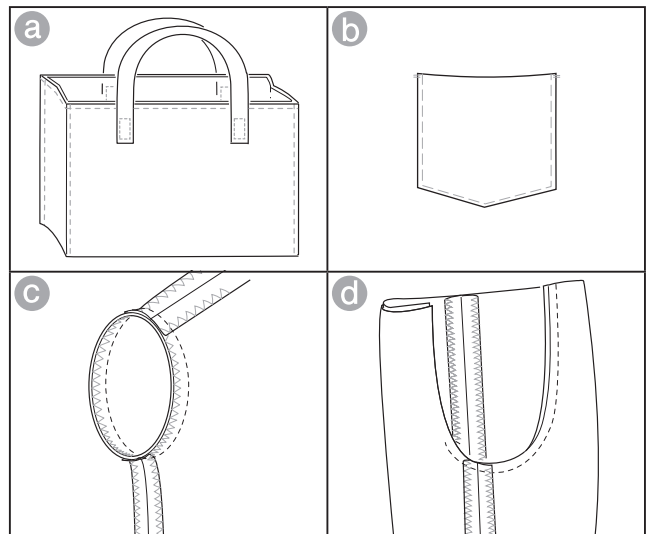
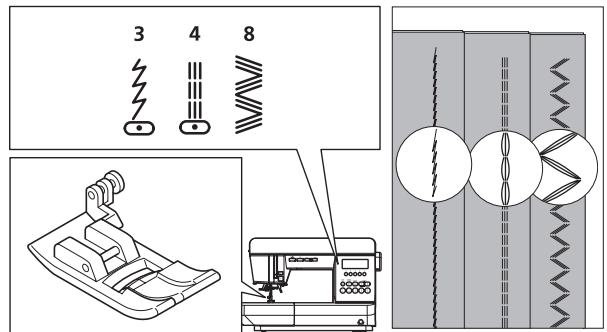
It assures you of a stitch that is strong and flexible and will give with the fabric without breaking. Good for easy to ravel and knit fabrics. It is good for joining durable fabrics such as denims.

Stitch		Presser Foot
3	Stem stitch for stretch fabrics	Regular Foot (A)
4	Straight stretch stitch (Center needle position)	
8	Rick-rack Stitch	

We recommend that you use a needle for knit and synthetic fabrics to prevent stitch skippings and thread breakages.

Examples of items that commonly use these fabrics are:

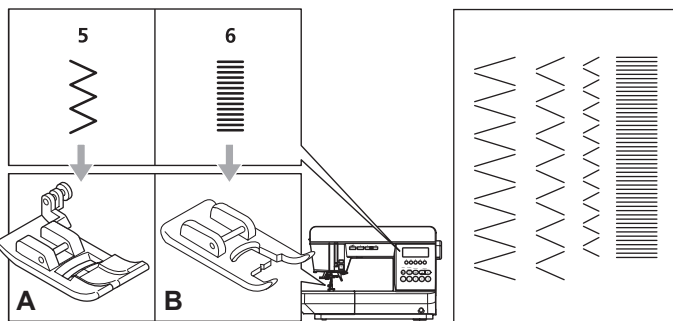
- a. Bag
- b. Pocket
- c. Jacket
- d. Trousers



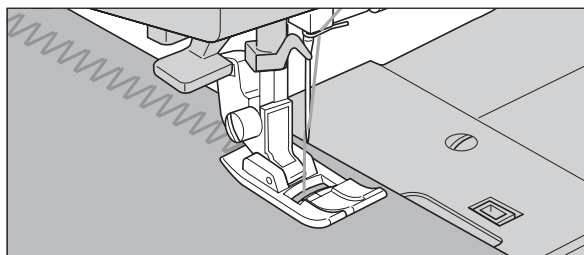
ZIGZAG STITCH SEWING


This machine can sew zigzag stitches of various widths and lengths by changing the settings of the stitch width and stitch length.

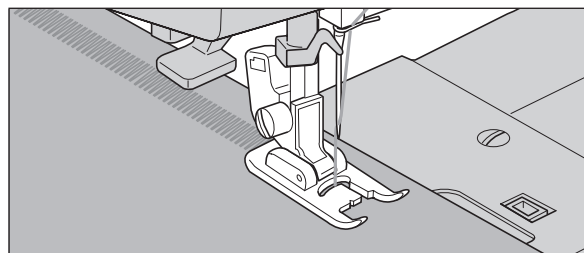
Stitch		Presser Foot
5	Zigzag Stitch	Regular Foot (A)
6	Satin Stitch	Satin Foot (B)



Zigzag stitches are suitable for joining two pieces of fabrics, overcasting and sewing various decorative patterns. See page 31 for overcasting.



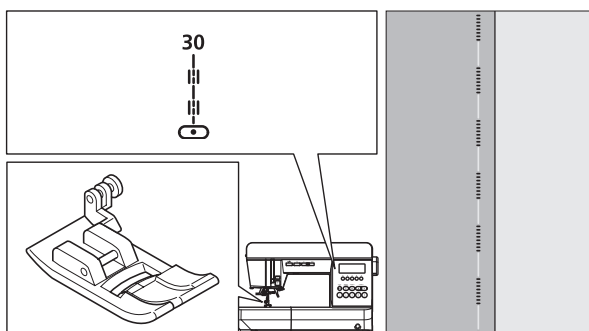
When you sew the satin stitch (), it will preset to closer stitches than the normal zigzag stitch. Attach the satin foot for this stitch.



HAND LOOK QUILTING STITCH

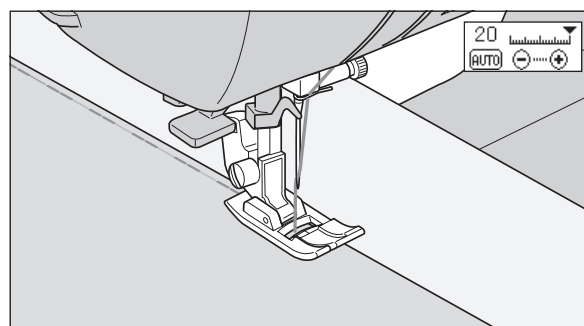
When using the hand look quilting stitch, use invisible nylon thread or very lightweight thread for the upper thread. For bobbin thread, use the thread of color scheme matches the fabric.

Stitch		Presser Foot
30	Hand look Quilting Stitch (Center Needle Position)	Regular Foot (A)



NOTE:

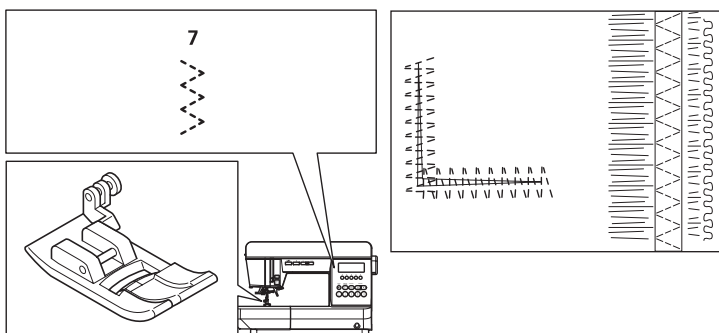
Use only for medium or heavy weight fabric because thread tension is strong.



MULTI-STITCH ZIGZAG

This stitch pattern is used to mend a broken fabric or to sew elastic bands.

Stitch	Presser Foot
7 Multi-Stitch Zigzag	Regular Foot (A)

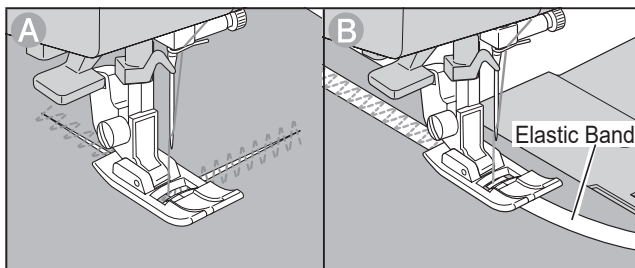


A. MENDING

Shorten the length of the stitch and sew.

B. ELASTIC BAND SEWING

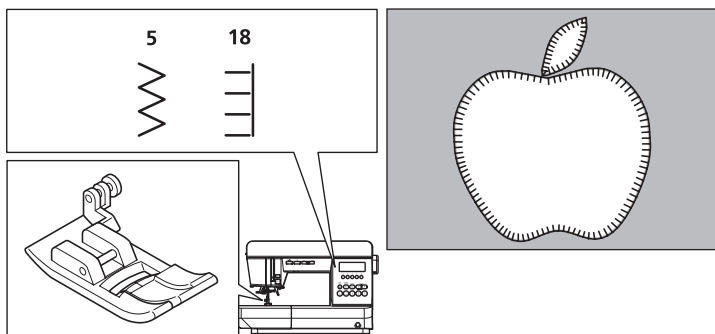
Pull elastic band in front and back of needle while sewing.



APPLIQUE

Sew firmly a commercially available or self-made applique on the cloth.

Stitch	Presser Foot
5 Zigzag Stitch	Regular Foot (A)
18 Applique Stitch	

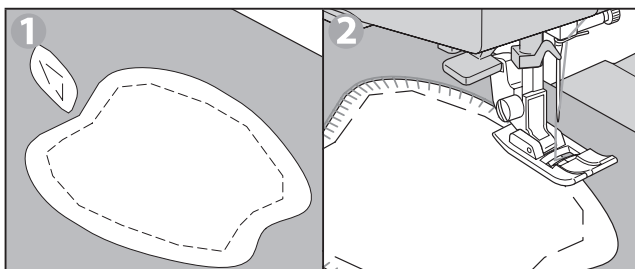


1. Fix applique on fabric.

With fabric glue, fusible iron-on or basiting stitches.

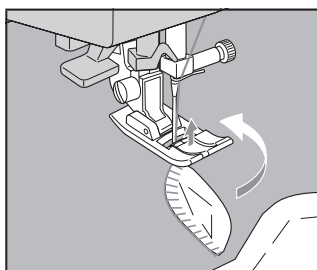
2. Sew the edge of the applique to the fabric like overcasting sewing.

When the angle is steep, narrow the width of the stitch.



When sewing sharp angles

Bring needle to lowest position and raise the presser foot. Use the needle as pivot and turn fabric.



OVERCASTING-OVERLOCKING

Prevents fraying of the raw edge of all fabrics.

Stitch	Presser Foot
5, 9 - 13 (width: or over the default settings)	Overcasting Foot (C)
5(width: narrow), 7	Regular Foot (A)



CAUTION: To prevent accidents.

Overcasting foot should be used for sewing above patterns (5, 9 - 13) only and do not change the stitch width narrower than 5.0.

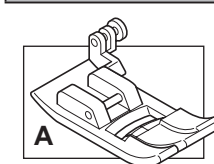
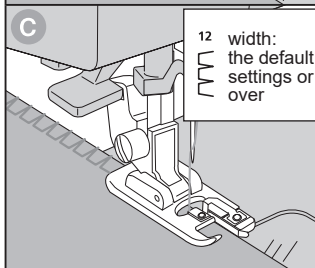
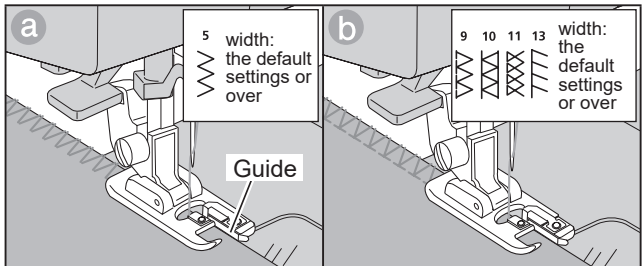
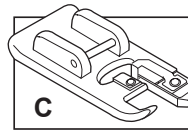
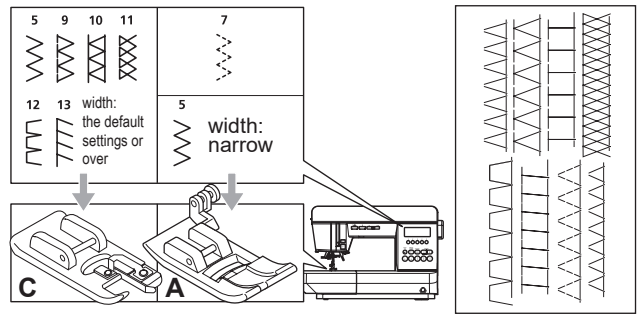
Before sewing, turn the hand wheel toward you and confirm the needle does not hit the presser foot.

The needle may hit the presser foot and break when sewing other patterns and width.

A. USING THE OVERCASTING FOOT

Press fabric against the guide plate of the overcasting foot so that needle falls near the edge of seam.

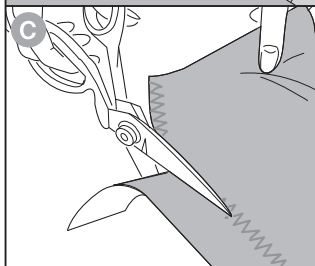
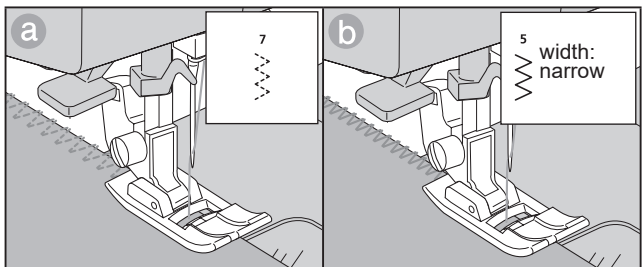
- Use as a fray stopping method.
- These patterns can sew overcasting and regular stitches at the same time. Use the regular foot for towel cloth or knitted fabric as the claw of the overcasting foot may get caught in the cloth.
- The overcasting foot is suitable to prevent fraying of light-weight or medium-weight fabrics.



B. USING THE REGULAR FOOT

Place fabric so that needle will fall nearest to edge of fabric when using the regular foot.

- Use for thick or stretch cloth.
- Use for narrow zigzag width.
- You can also cut off the excess material after sewing the inside of fabric.



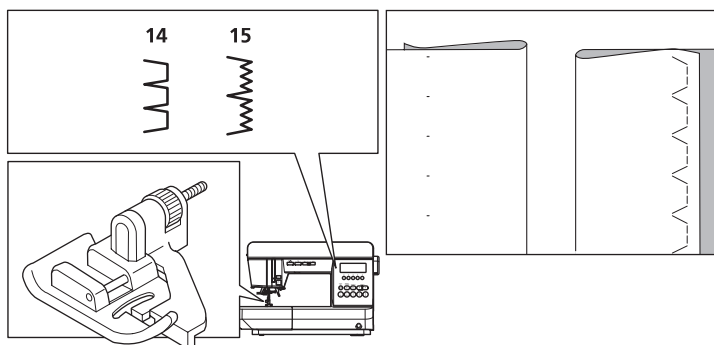
NOTE:

Be careful not to cut the sewn thread when cutting excess materials.

BLIND HEM STITCHING

We use this pattern for hemming the skirts and pants.

Stitch		Presser Foot
14	Blind hem for regular fabric	Blind Foot (D)
15	Blind hem for regular or stretch fabric	



1. Fold the fabric as shown on the right.

- Ⓐ: Medium, Heavy weight fabric
- Ⓑ: Light weight fabric
- Ⓒ: Wrong side of fabric
- Ⓓ: Overcasting

Be careful that the right and wrong side of the finished product to be correct.

2. Set the fabric so that the guide (Ⓔ) of the blind foot follows the fold line of the fabric. The guide (Ⓔ) is adjusted by turning the adjusting screw (Ⓕ).

3. Adjust the position of guide so that the needle sticks slightly into the fold line of the fabric when it comes to the most left side of fabric.

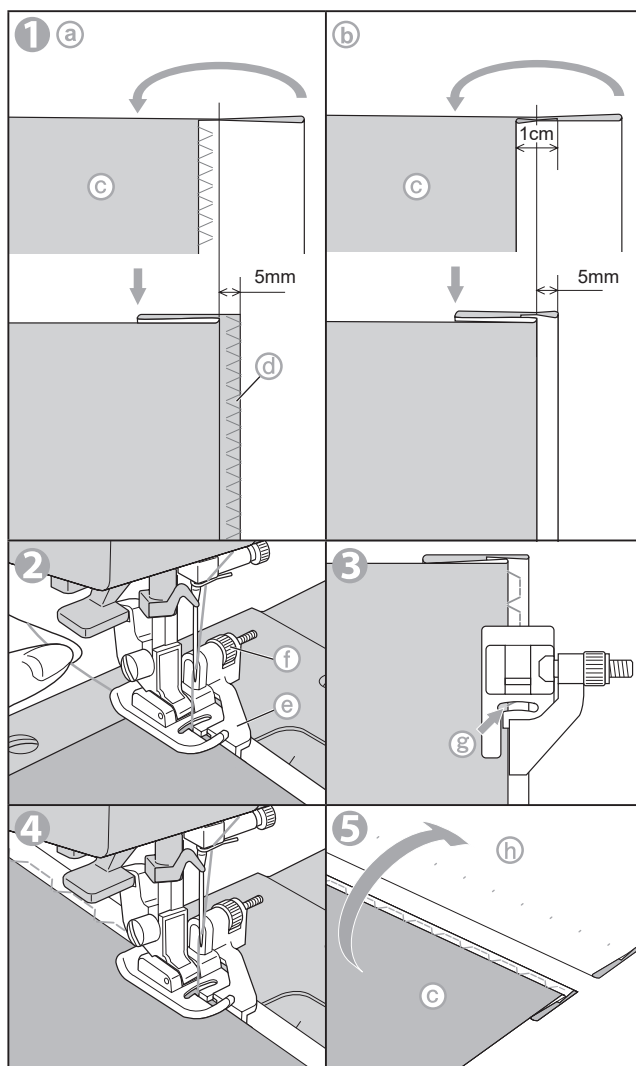
When you turn the screw toward you, the guide will move to the right, turning it to the far side moves the guide to the left.

If select a pattern when the needle position is up, the needle comes to the most left side of fabric.

4. Sew edge along the guide.

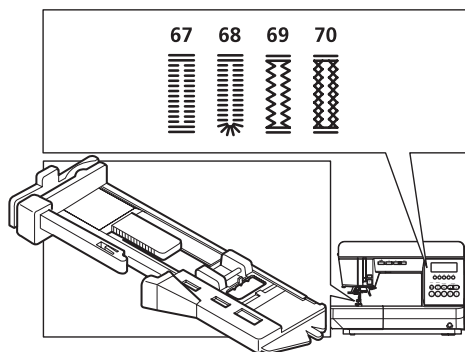
5. Turn the fabric over when you have completed sewing.

- Ⓒ: Wrong side of fabric
- Ⓗ: Right side of fabric



BUTTONHOLE SEWING

You can sew 4 types of buttonholes.
 You can change the width of each buttonhole in 3 steps.
 The buttonhole foot is stored on the back side of the extension table.



Stitch		Presser Foot
67	Bar-tack Buttonhole for light to medium weight fabrics	Buttonhole Foot
68	Round Ended Buttonhole for light to medium weight fabrics	
69	Stretch Buttonhole	
70	Heirloom Buttonhole	

1. Mark position and length of buttonhole on fabric.

2. Set button on the base.

* If button does not fit on the base, adjust slide on base to diameter of button plus thickness of button.

Ⓐ: Length of button + thickness

3. Pass upper thread through the hole of buttonhole foot and bring upper thread to the left.

4. Position fabric under presser foot so that the center line mark is in the center of the buttonhole foot. Lower the foot.

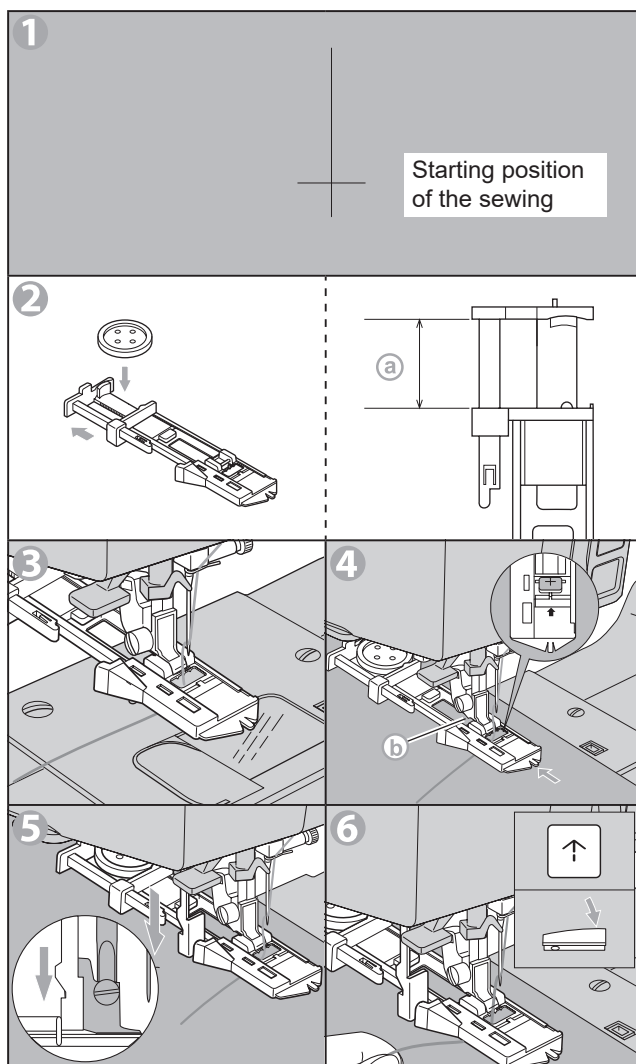
Ⓑ: Push the frame of the presser foot to the backward so that there is no space between the frame and the presser foot.

5. Lower the buttonhole lever completely.

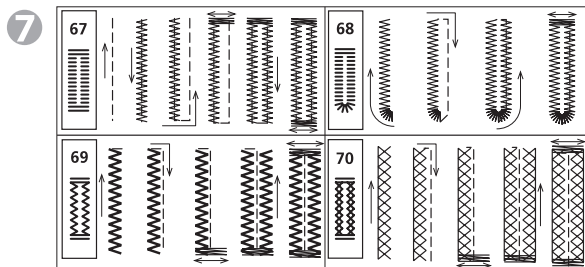
NOTE:

If you do not lower the buttonhole lever properly, the monitor lamp lights red, it sews 2 or 3 stitches and stops.

6. Hold upper thread lightly and start the machine.




7. The machine will sew the buttonhole in the order as shown and stop automatically after sewing.

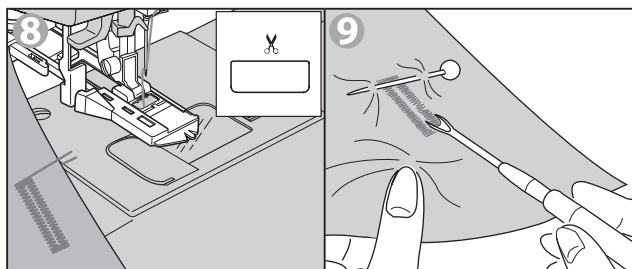


8. Press the thread cutter button and raise the presser foot to remove the fabric.
To sew over the same buttonhole, raise presser foot to return to original position.


NOTE:

If you touch the tack/cut button before start sewing, machine will cut threads automatically at the end of seam. (LCD indicates  mark)

9. Cut center of buttonhole being careful not to cut stitches on either side. Use a pin as a stopper.

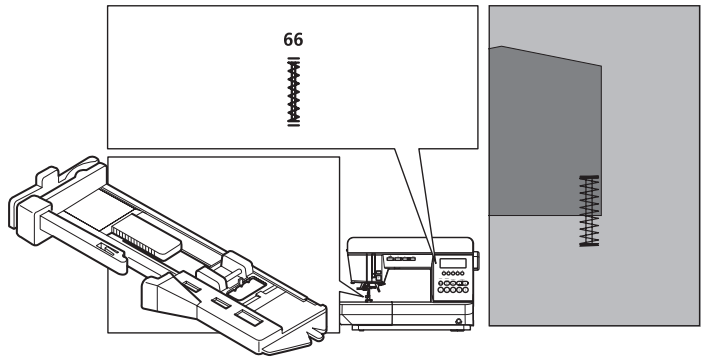


No.69, 70: Cut and remove the thread of center (jump-stitch).

 **CAUTION: To prevent accidents.**
When using seam ripper, do not put your finger in the path of ripper.

AUTOMATIC BAR-TACK

Stitch	Presser Foot
66 Bar-tack, to reinforce areas that will be subject to strain, such as pocket corners.	Buttonhole Foot



1. Adjust slide on base according to the length of bar-tack.

(a) = Length of bar-tack

2. Pass upper thread through the hole of buttonhole foot and bring upper thread to the left.

3. Position fabric under presser foot so that the starting point comes this side.
Lower the foot.

* When you sew bar-tack on the edge of thick fabrics such as a pocket, place some fabric of the same thickness or a piece of cardboard beside the fabric.

4. Lower the buttonhole lever completely.


NOTE:

If you do not lower the buttonhole lever properly, the monitor lamp lights red, it sews 2 or 3 stitches and stops.

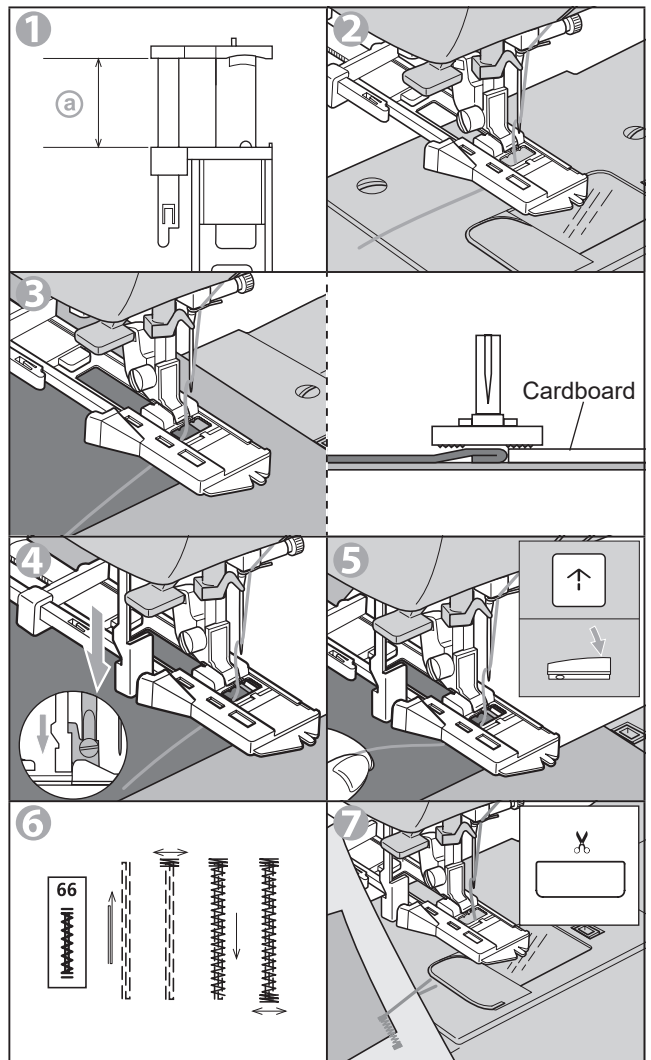
5. Hold upper thread lightly and start the machine.

6. The machine will sew bar-tack as shown.
And machine will stop automatically.

NOTE:

If you touch the tack/cut button before start sewing, machine will cut threads automatically at the end of seam. (LCD indicates  mark)

7. Press the thread cutter button and raise the presser foot to remove the fabric.

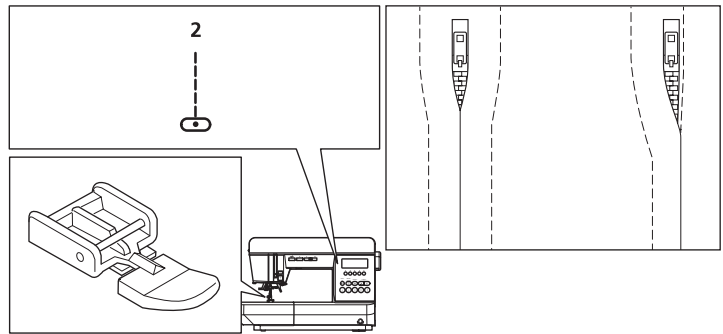


INSERTING ZIPPERS (CENTERED INSERTION / LAPPED INSERTION)

Stitch	Presser Foot
2 Straight stitch (center needle position)	Zipper Foot (E)

NOTE: What is “baste”?

Before sewing the fabric with a sewing machine, temporarily sew it with long and loose stitches so that the fabric does not shift.



A. CENTERED INSERTION

1. Baste the front sides of the fabrics so they face each other. Sew until end of opening.

- Ⓐ: Top stitch
- Ⓑ: End of opening
- Ⓒ: Basting
- Ⓓ: Wrong Side of fabric

2. Press open the seam allowance.

Baste the zipper tape.

- Ⓓ: Wrong Side of fabric
- Ⓔ: Wrong Side of zipper

Place the zipper face down on the seam allowance. Match the center of the zipper with the seam line and baste it. Pull the slider toward you.

3. Attach the zipper foot.

Attach the left side of the presser foot pin to the presser foot holder when sewing the right side of the zipper, and right side of the presser foot pin to the holder when sewing the left side of the zipper.

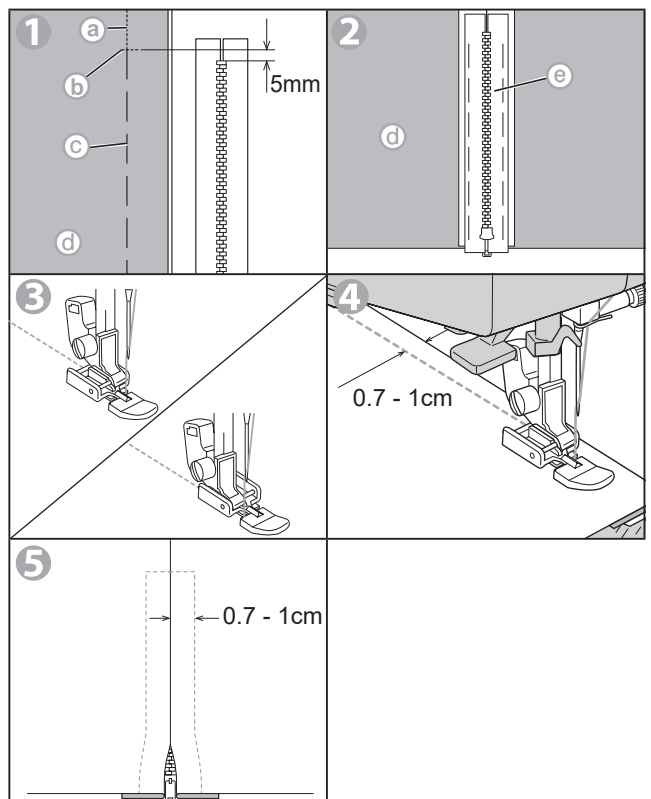
4. Stitch left side of the zipper from crotch end.

Sew a distance of 0.7 - 1.0 cm from the seam.

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

Remove the basting and press.

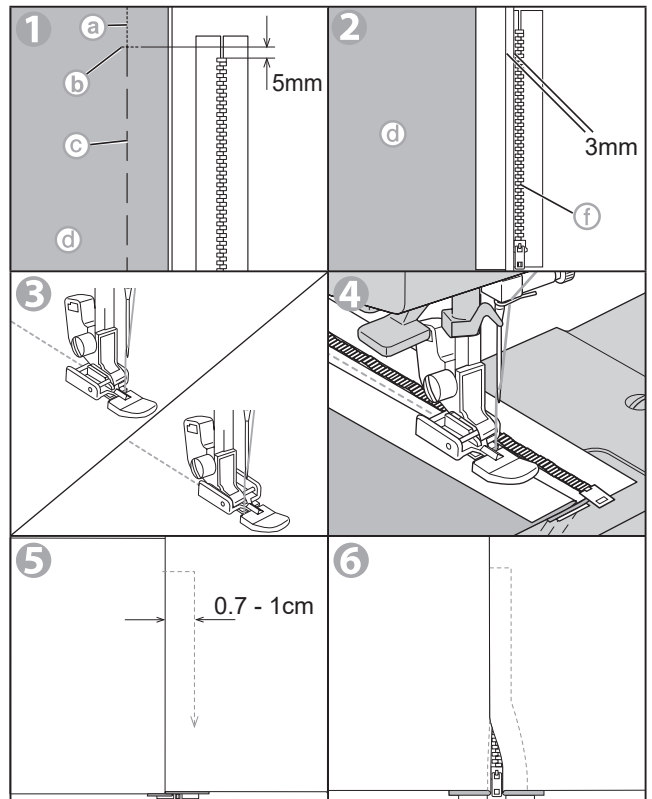
Sew not only the left side but also the right side.



CAUTION: To prevent accidents.
Zipper foot should be used for sewing center needle position straight stitch only. It is possible that needle could hit the presser foot and break when sewing other patterns.

B. LAPPED INSERTION

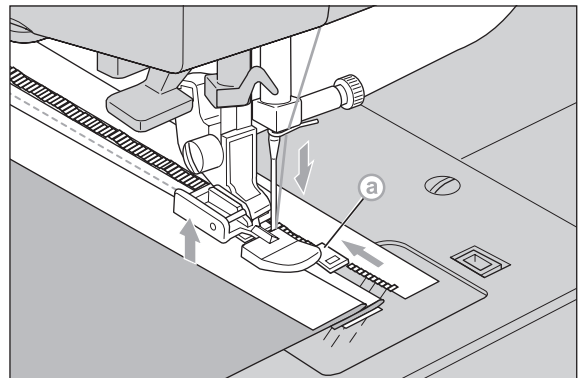
1. Baste the front sides of the fabrics face so they each other. Sew until end of opening.
2. Fold back to the left seam allowance. Turn under the right seam allowance to form a 3 mm fold.
3. Attach the zipper foot. Attach the left side of the presser foot pin to the presser foot holder when sewing the right side of the zipper, and right side of the presser foot pin to the holder when sewing the left side of the zipper.
4. Stitch left side of the zipper from end of opening. Sew so that the zipper foot does not hit teeth (f) of zipper.
5. Open the upper cloth, sew the lower end and the right side. On the right side, sew a distance of 0.7 - 1.0 cm from fold of the cloth.
6. Stop about 5 cm from the top of zipper. Remove the basting and open the zipper. Stitch the remainder of the seam.



TO OPEN THE ZIPPER WHILE STITCHING

1. Stop stitching before you reach the slider.
2. Lower the needle and stick into fabric.
3. Raise the presser foot and open the zipper.
4. Lower the presser foot and continue stitching.

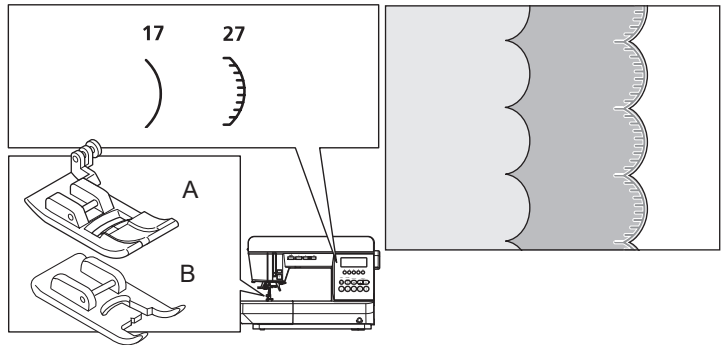
Ⓐ: Slider



SCALLOP STITCH

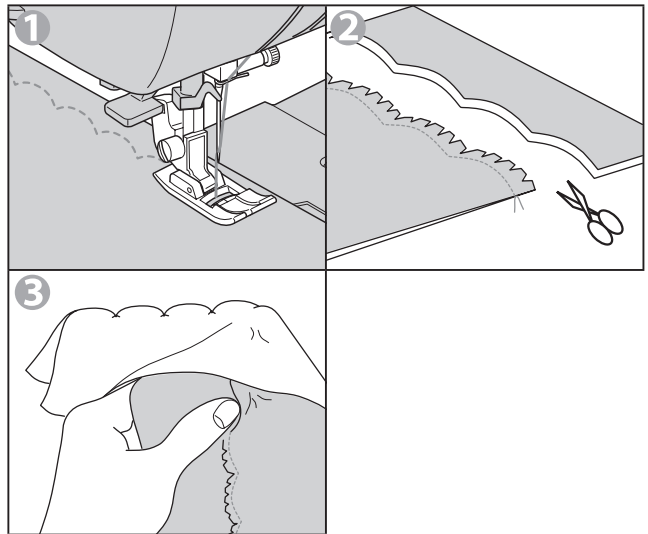
This stitch is used to sew edges on blouse collars and table cloths.

Stitch		Presser Foot
17	Scallop hem	Regular Foot (A) Satin Foot (B)
27	Scallop edging	



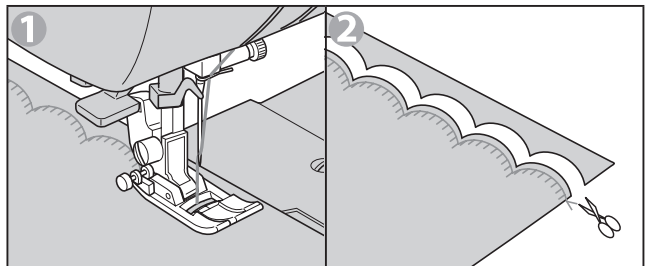
A. SCALLOP HEM


1. Fold the fabric so that the right side is inward and sew the fabric along folded edge.
2. Cut the fabric along the seam leaving an allowance of 3 mm (1/8") for seaming. Notch the allowance.
3. Turn fabric over, push out the curved seam to the surface and arrange by ironing.



B. SCALLOP EDGING

1. Sew on hem line.
Leave the edge of fabric so that the pattern is not over the edge.
2. Trim fabric close to stitching taking care not to cut the thread.



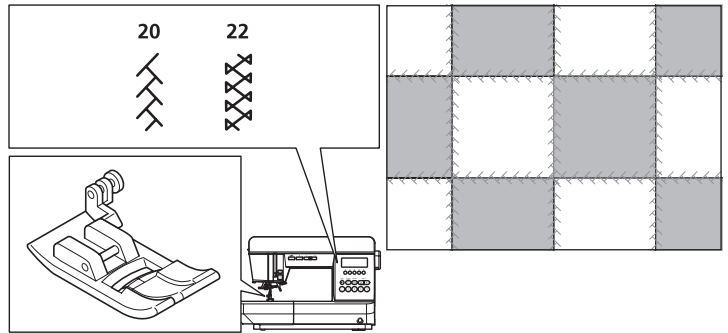
You can also sew scallop pattern with pattern . In this case, use the satin foot.

58

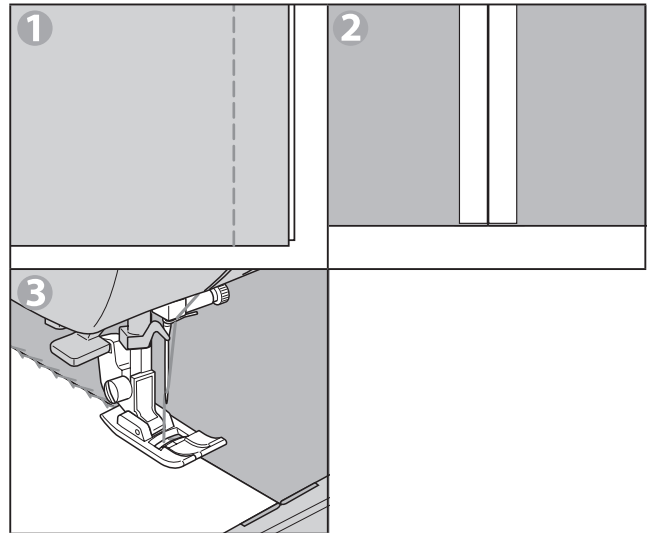
PATCH WORK

Patch work is used to seam various fabrics and decorate them.

Stitch	Presser Foot
20, 22	Regular Foot (A)



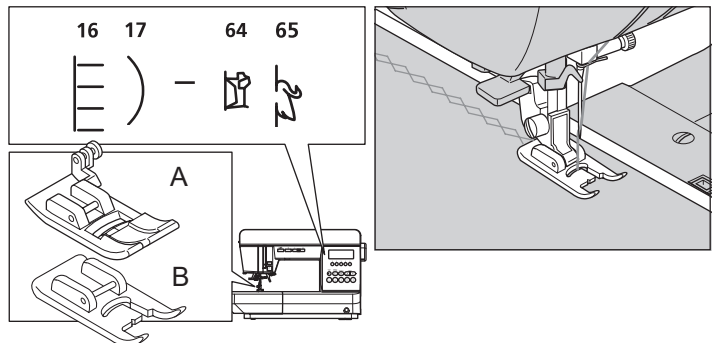
1. Face the two fabrics with their right sides facing each other and sew them.
2. Press open the seam allowance.
3. Sew so that the pattern extends over the both fabrics.



DECORATIVE STITCHES

Use for decorative stitching.
When sewing thin or elastic fabrics, use an interlining cloth.

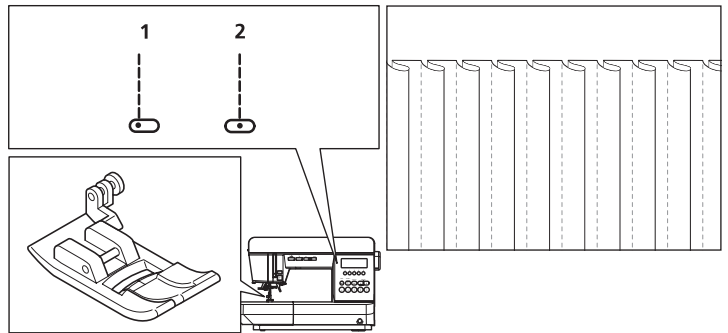
Stitch	Presser Foot
16 - 65	Regular Foot (A)
	Satin Foot (B)



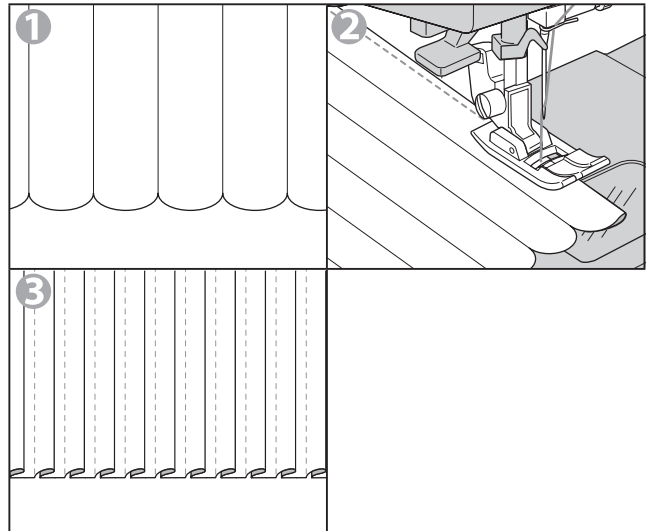
PIN TUCK

This pattern is used for decorate blouses etc.

Stitch	Presser Foot
1 Straight stitch (Left needle position)	Regular Foot (A)
2 Straight stitch (Center needle position)	



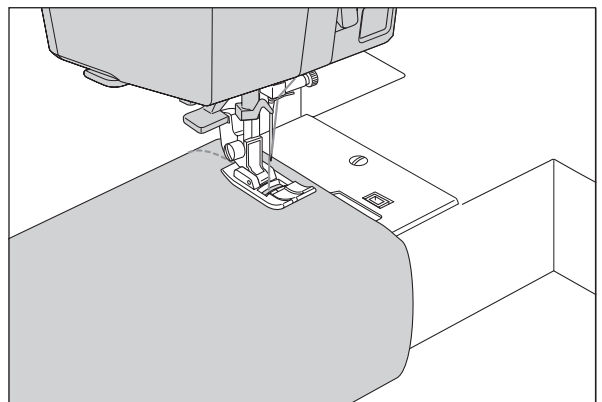
1. Arrange the fold of pin tuck by ironing.
2. Sew a pin tuck so as not to smooth out the fold.
3. Lay the folds in one direction by ironing.



FREE ARM SEWING

For free arm sewing, just remove the extension table. You can use this machine as a free arm machine. You can easily sew armhole, lower sleeve edge and hem of trousers etc.

- Refer to page 5 for "REMOVING THE EXTENSION TABLE".
- Refer to page 32 for "BLIND HEM STITCHING".



MAINTENANCE

⚠ DANGER: To reduce the risk of electric shock.

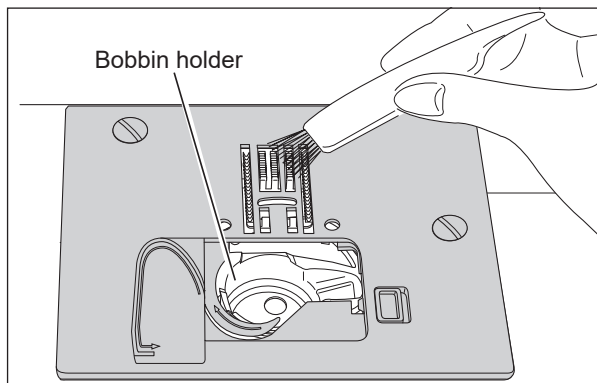
Disconnect the power line plug from electric outlet before carrying out any maintenance.

NOTE:

- * This machine is using LED light to light up stitching area. If it is not light up, call your dealer.
- * There is no need to lubricate this machine.
- * If the machine gets dirty, soak a soft cloth with a small amount of mild detergent and wipe well. Don't use thinner and benzene.

A. BOBBIN HOLDER

Remove the bobbin cover and the bobbin, and clean them with the accessory brush.



B. HOOK RACE AND FEED DOG

Remove the needle plate and clean the hook race and the fabric feed dock regularly.

⚠ CAUTION: To prevent accidents.

There is a thread cutter device at the lower left of the fabric feed dogs under the needle plate. Pay attention because sharp parts are there. Do not touch the thread cutter device directly.

1. Remove the extension table, the needle, presser foot and holder. Remove the bobbin cover and bobbin. Remove the screws holding the needle plate.

Ⓐ: Driver for needle plate

2. Remove the needle plate by lifting up the right side of the plate.

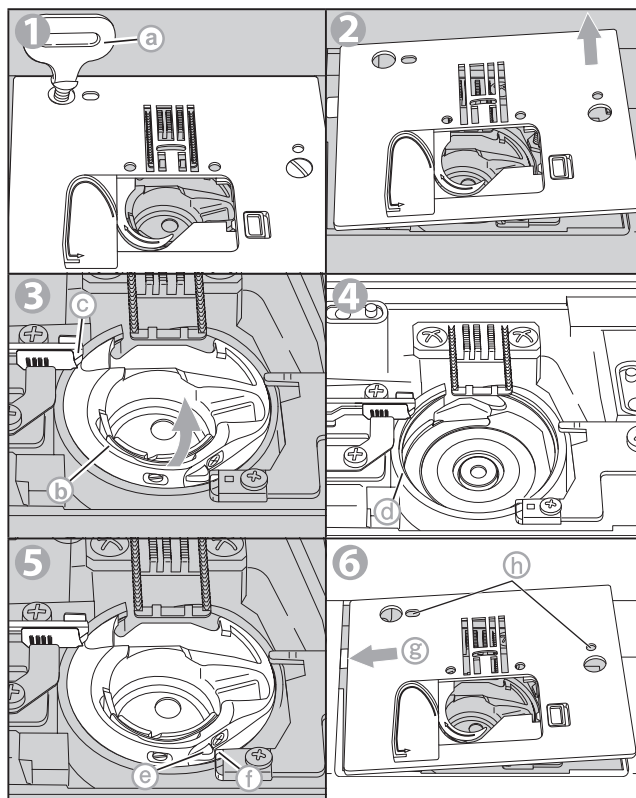
3. Lift up the bobbin holder (Ⓑ) and remove it.

Ⓒ: Thread cutter device

4. Clean the hook race (Ⓓ), feed dogs and bobbin holder. Also clean them, using a soft, dry cloth.

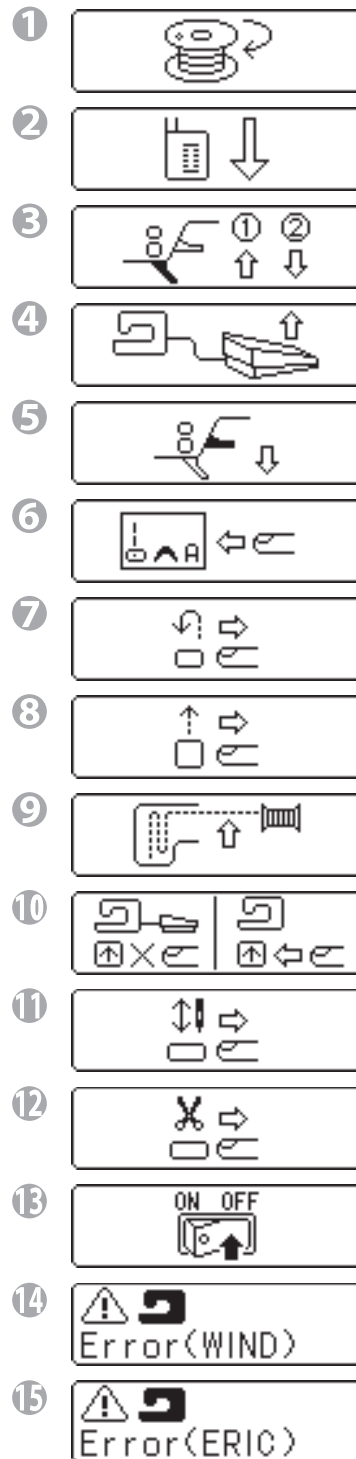
5. Replace the bobbin holder into the hook race so that the tip (Ⓔ) fits to the stopper (Ⓕ) as shown.

6. Replace the needle plate inserting the hook (Ⓖ) and holes (Ⓗ) into the machine. Retighten the screws.



MESSAGE

1. Winding the bobbin.
2. Lower the buttonhole lever.
3. After sewing buttonhole, raise the presser foot lifter and set the frame of buttonhole foot to starting position.
4. Release the foot controller pedal.
5. Lower the presser foot.
6. Select a pattern.
7. Release the reverse button.
8. Release the start/stop button.
9. Rethread the upper or bobbin thread.
10. Foot controller is connected.
11. Release the needle up-down/slow button.
12. Release the thread cutter button.
13. Turn off the power switch and rethread the machine.
14. System error. The thread winding switch inside the sewing machine is damaged. (Contact customer support)
15. System error. (Contact customer support)



HELPFUL HINTS

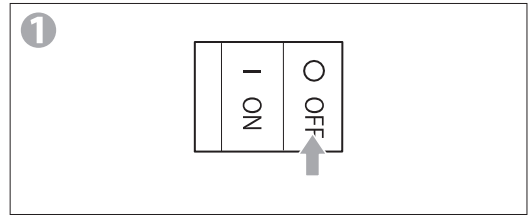
Before calling for Service or returning the machine, check the following items. If the problem still persists, contact the EverSewn customer support at: service@eversewn.com or call 1-844-EVERSEW (1-844-383-7739)

PROBLEM	CAUSE	CORRECTION	PAGE	
Upper thread breaks	Machine not properly threaded.	Re-thread machine.	18	
	Thread entwined around bobbin.	Remove entwined thread.	41	
	Needle inserted incorrectly.	Re-insert needle.	22	
	Thread tension too tight.	Readjust thread tension.	15	
	Thread of incorrect size or poor quality.	Choose correct thread.	22	
Bobbin thread breaks	Bobbin threaded incorrectly.	Re-thread the bobbin.	17	
	Bobbin wound unevenly or too full.	Rewind the bobbin.	16	
	Dirt on the bobbin holder.	Clean the holder.	41	
Machine skips stitches	Needle inserted incorrectly.	Re-insert needle.	22	
	Bent or blunt needle.	Insert new needle.	22	
	Incorrect size of needle. (on stretch fabric)	Choose correct size needle for fabric. (use stretch needle)	22	
Fabric puckers	Machine not properly threaded.	Re-thread machine.	18	
	Bobbin threaded incorrectly.	Re-thread the bobbin.	17	
	Blunt needle.	Insert new needle.	22	
	Thread tension too tight.	Readjust thread tension.	15	
Machine makes loose stitches or loops	Bobbin threaded incorrectly.	Re-thread the bobbin.	17	
	Machine not properly threaded.	Re-thread machine.	18	
	Tension not adjusted properly.	Readjust thread tension.	15	
Stitch pattern is misformed	Presser foot is not suited for the pattern.	Attach correct foot.	27- 15	
	Thread tension is not balanced.	Adjust the thread tension.		
Threader does not thread needle eye	Needle is not raised.	Raise the needle.	7	
	Needle inserted incorrectly.	Re-insert needle.	22	
	Bent needle.	Insert new needle.	22	
Machine does not feed properly	Feed dogs are lowered.	Raise the feed dogs.	8	
	Stitch length not suitable for fabric.	Regulate stitch length.	13	
	Lint and dust accumulated around feed dogs.	Clean the feed dogs area.	41	
Needle breaks	Fabric pulled while sewing.	Do not pull fabric.	23	
	Needle is hitting the presser foot.	Select correct foot and pattern.	27-	
	Needle inserted incorrectly.	Re-insert needle.	22	
	Incorrect size needle or thread for fabric being sewn.	Choose correct size needle and thread.	22	
Machine runs with difficulty	Dirt or lint accumulated in the hook race and feed dogs.	Remove the needle plate and bobbin holder and clean the hook race and feed dogs.	41	
Machine will not run	Cord not plugged into electrical outlet.	Insert plug fully into outlet.	6	
	Power switch is not turned on.	Turn on the switch.	6	
	Upper thread or bobbin thread has broken or missing.	Rethread the upper thread or bobbin thread.	17,18	
	Monitor lamp ...Green Light	Bobbin winder spindle is pushed to the right.	Push spindle to the left.	16
	...Red Light	Presser foot is not lowered.	Lower the foot.	8
	...Red Light	Buttonhole Sewing Mode; - Buttonhole lever is not lowered completely.	Lower the buttonhole lever.	33
		- Buttonhole foot is not attached.	Attach the buttonhole foot.	33

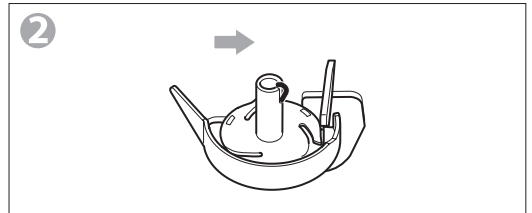
SETTING OF LCD, LED LIGHT, and BEEP

You can adjust the brightness of the LCD screen when it is hard to see. Also, you can switch LED light on and off. By setting off of the beep, you can operate the machine without beep.

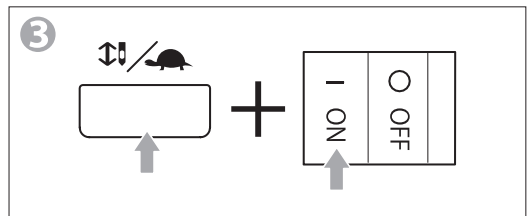
1. Turn off the power switch. (Symbol **O**)



2. Push the bobbin winder spindle to the right.



3. While touching the needle up-down/slow button, turn on the power switch. (Symbol **I**)
The setting screen for LCD, LED light and beep is displayed.



4. Set each function as below.

a: LED light

Every time touching the function button (a), LED light switches on or off.

ON : LED light turns on.

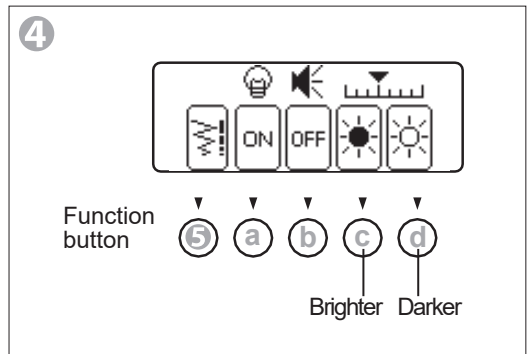
OFF: LED light turns off.

b: Beep

Every time touching the function button (b), beep switches on or off.

ON : Beep sounds.

OFF: Beep doesn't sound.



c, d: LCD

Every time touching the function button (c) or (d), ▼ of the scale will move and the brightness changes.

: Touch the function button (c), if you want to make the brightness of the screen brighter.

: Touch the function button (d), if you want to make the brightness of the screen darker.

5. When you finish setting, press the function button on the left end ().

After the setting screen of "winding the bobbin" will appear, push the bobbin winder spindle to left and continue operating.

If you want to keep setting, you have to touch the function button on the left end () before turning off the power switch.

CAUTION: To prevent accidents.

- If you turn off beep, the warning sound will not sound when you operate the machine incorrectly. Pay attention to operation.
- When call this function, do not press the button other than the needle up-down/slow button. It may cause malfunction.



LOVE AT FIRST STITCH

www.eversewn.com