000

IMPORTANT SAFETY INSTRUCTIONS

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

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

This sewing machine is designed and manufactured for household use only.

Read all instructions before using this sewing machine.

DANGER— To reduce the risk of electric shock:

An appliance should never be left unattended when plugged in. Always unplug this sewing 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.
- Use this appliance only for its intended use as described in this owner's manual. Use only attachments recommended by the manufacturer as contained in this owner's 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 this sewing machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.

- 4. Never operate the appliance with any air opening blocked. Keep ventilation openings of this sewing machine and foot controller free from accumulation of lint, dust and loose cloth.
- 5. Never drop or insert any object into any opening.
- 6. Do not use outdoors.
- 7. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- 8. To disconnect, turn all controls to the off ("O") position, 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 this sewing machine off ("O") when making any adjustment in the needle area, such as threading the needle, changing the needle, threading the bobbin or changing the presser foot, and the like.
- 15. Always unplug this sewing machine from the electrical outlet when removing covers, lubricating, or when making any other adjustments mentioned in this owner's manual.

SAVE THESE INSTRUCTIONS



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

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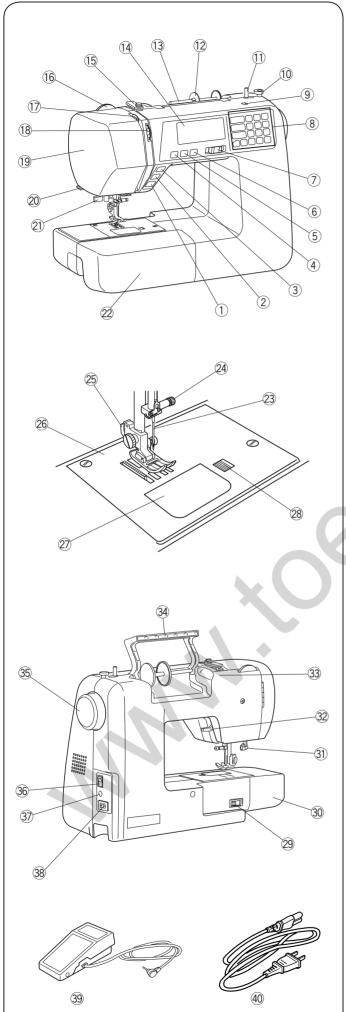
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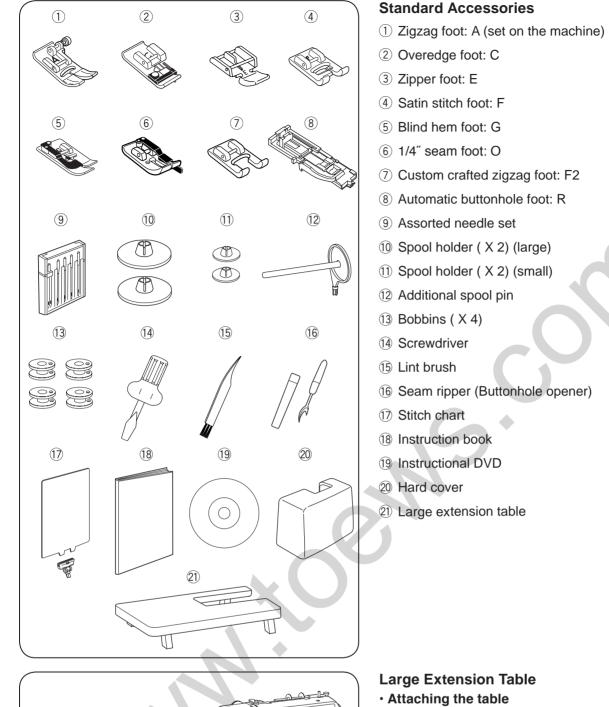


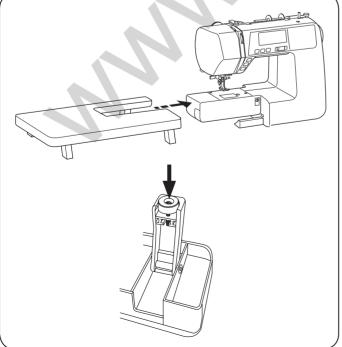
SECTION I. NAMES OF PARTS Names of Parts

- ① Start/stop button
- 2 Reverse stitch button
- ③ Auto-lock button
- ④ Needle up/down button
- (5) Thread cutter button
- 6 Twin needle button
- ⑦ Speed control slider
- (8) Touch panel
- (9) Hole for additional spool pin
- 10 Bobbin winder stopper
- 1 Bobbin winder spindle
- 12 Spool holder (large)
- 13 Spool pin
- 14 LCD display
- 15 Upper thread guide
- 16 Presser foot pressure dial
- 17 Thread take-up lever
- (18) Thread tension dial
- (19) Face cover
- 20 Thread cutter
- 21 Needle threader
- 22 Extension table (Accessory box)
- 23 Needle
- 24 Needle clamp screw
- 25 Foot holder
- 26 Needle plate
- 2 Hook cover plate
- 28 Hook cover release button
- 29 Drop feed lever
- 30 Free-arm
- Buttonhole lever
- ③ Presser foot lifter
- 3 Hole for stitch chart
- 34 Carrying handle
- 35 Handwheel
- 36 Power switch
- Foot control jack
- 38 Machine socket
- 39 Foot control
- ④ Power supply cord

NOTE:

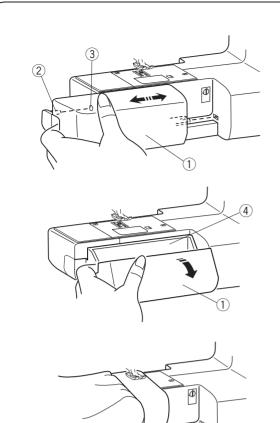
Sewing machine design and specifications are subject to change without prior notice.





Pull the table away from the machine. Spread the legs of large extension table. Holding the table with both hands and slide it gently to the right.

• Adjusting the table height Turn setscrews of the table legs with a screwdriver (optional).



Extension Table

The extension table 1 provides an extended sewing area and can be easily removed for free arm sewing.

- ① Extension table
- 2 Pin
- ③ Hole

• **Detaching the table** Pull the table away from the machine, as illustrated.

Attaching the table

Push the extension table, inserting the pin (2) into the hole (3) until the table snaps into the machine.

Accessory storage

Accessories are stored inside the extension table. Pull the lid towards you to open the accessory storage ④. ④ Accessory storage

Free-arm sewing

Free-arm sewing is useful for darning socks and mending the knee or cuff areas of children's clothes.

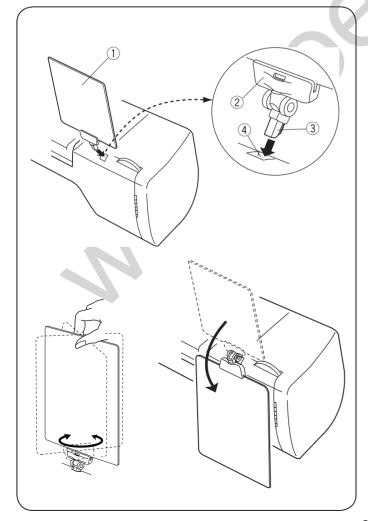


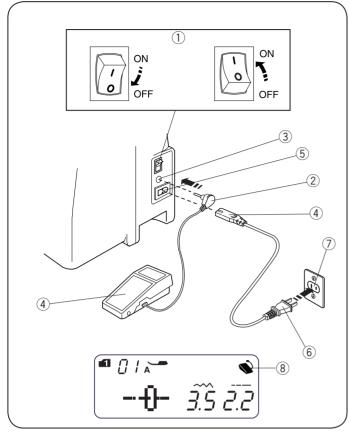
Insert the stitch chart ① into the chart holder ②. Insert the pin ③ into the hole for the stitch chart ④.

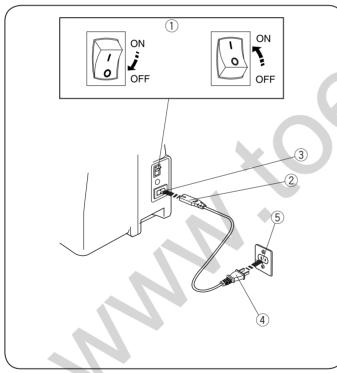
- 1 Stitch chart
- 2 Chart holder
- ③ Pin
- ④ Hole for stitch chart

Both sides of the stitch chart can be referred to by flipping it.

You can also flip the chart to the back of the machine when it is not in use.







Operating Instructions:

The symbol "O" on a switch indicates the "off" position of a switch.

For appliances with 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 it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way (U.S.A. and Canada only).

* Foot control model YC-485EC-1 is used with this sewing machine.

Janome Sewing Machine 4120QDC

SECTION II. GETTING READY TO SEW Connecting the Power Supply

Using the foot control

Turn off the power switch ①. Insert the foot control plug ② into the foot control jack ③. Insert the machine plug ④ into the power inlet ⑤. Insert the power supply plug ⑥ into the wall outlet ⑦. Turn on the power switch ①. The foot control sign ⑧ will be displayed when the foot control is connected to the machine.

- ① Power switch
- 2 Foot control plug
- 3 Foot control jack
- ④ Machine plug
- ⑤ Power inlet
- 6 Power supply plug
- ⑦ Wall outlet
- (8) Foot control sign

• Using the start/stop button Turn off the power switch ①.

Insert the machine plug (2) into the power inlet (3). Insert the power supply plug (4) into the wall outlet (5). Turn on the power switch (1).

- 1 Power switch
- ② Machine plug
- ③ Power inlet
- ④ Power supply plug
- 5 Wall outlet

NOTE:

The start/stop button does not work when the foot control is connected.

\Lambda WARNING:

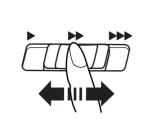
While in operation, always keep your eyes on the sewing area and do not touch any moving parts such as the thread take-up lever, handwheel or needle. Always turn off the power switch and unplug from the power supply:

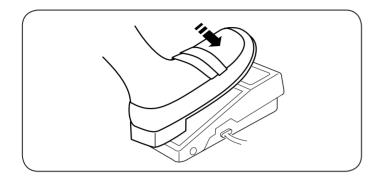
- when leaving the machine unattended.
- when attaching or removing parts.
- when cleaning the machine.

Do not place anything on the foot control, otherwise the machine will run inadvertently.

Before Using Your Sewing Machine

Before using your sewing machine for the first time, place a scrap of fabric under the presser foot and run the machine without thread for a few minutes. Wipe away any oil which may appear.





Speed Control Slider

Sewing speed can be varied by the speed control slider according to your sewing needs.

To increase sewing speed, slide the slider to the right. To decrease sewing speed, slide the slider to the left.

Controlling Sewing Speed

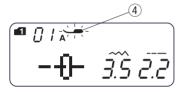
Depress the foot control to start the machine.

The further down you press on the foot control, the faster the machine runs.

The maximum sewing speed can be varied by the speed control slider.

Machine Operating Buttons





0

2

① Start/Stop button

Lower the presser foot lifter.

Press the start/stop button (1) to start the machine. The machine starts running slowly for the first few stitches; it then runs at the speed set by the speed control slider.

Press the start/stop button 1 again to stop the machine.

NOTES:

- The machine runs slowly as long as you press and hold the start/stop button ①.
- The start/stop button ① cannot be used when the foot control is connected to the machine.
- The machine will not run and the presser foot mark ④ will blink if you start the machine with the presser foot in the up position. Lower the presser foot and press the start/stop button.

2 Reverse stitch button

 $\bigcup_{i=1}^{4} \sum_{k=1}^{7} \bigotimes_{k=1}^{8} \sum_{i=1}^{12} \sum_{i=1}^{55} \sum_{i=1}^{56} \sum_{i=1}^{56} \sum_{i=1}^{56} \sum_{i=1}^{56} \sum_{i=1}^{76} \sum_{i=$

Press and hold the reverse stitch button 2 to sew in reverse.

Release the button (2) to sew forward.

Press and hold the button ② when the machine is stopped and foot control is disconnected to sew in reverse slowly.

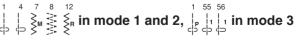
Release the button 2 to stop the machine.

Any other stitches except $\int_{1}^{2} \int_{1}^{3} \int_{1}^{28} \frac{29}{4}$ in mode 1 and 2

Press the reverse stitch button 2 to sew a locking stitch immediately. The machine will automatically stop.

Please refer to pages 24, 40 and 41.

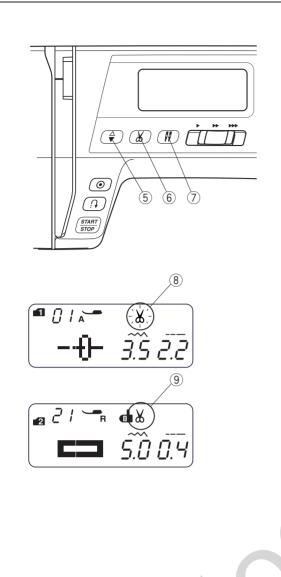
3 Auto-lock button



Press the auto-lock button ③ to sew a locking stitch immediately. The machine will automatically stops.

Any other stitches

Press the auto-lock button (3) to sew a locking stitch at the end of current pattern. The machine will automatically stop.



5 Needle up/down button

Press the needle up/down button (5) to bring the needle up or down.

6 Thread cutter button

Press the thread cutter button (6) to trim the threads after sewing.

The thread cutter mark will blink 8 while the machine cuts the threads.

You can continue sewing without pulling the bobbin thread up after trimming the threads.

To trim the threads automatically after sewing, select the desired stitch pattern, then press and hold the thread cutter button until the thread cutter mark appears (9).

The machine will trim the threads automatically after the locking stitch then stop when the reverse or autolock button is pressed, or a pattern has the auto-lock stitch programmed.

NOTE:

Use the thread cutter on the face cover if the thread is #30 or thicker.

⑦ Twin needle button

Press the twin needle button O when using a twin needle. The twin needle mark O will appear when it is activated.

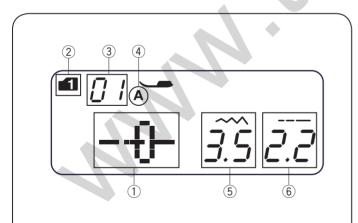
To cancel or finish the twin needle sewing, press the twin needle button twice.

NOTE:

When the twin needle mark is blinking, all the other keys and buttons will not be responding. Press the twin needle button again.

For twin needle sewing, please refer to page 48.

6 2 3 $\overline{7}$ Δ 5 +(5) \sim ≶ (8) 8 q CLR МЕМ MODE (2) (3) (4)



Touch Panel

1 Mode key

When the power switch is turned on, the direct pattern selection (mode 1) is set automatically. Press the mode key to change the mode. Refer to page 18.

2 Clear key

Press the clear key to clear the memorized stitch pattern.

Press and hold the clear key until the buzzer beeps to clear all memorized stitch patterns. Refer to page 56.

③ Flip key

Press the flip key to flip the selected stitch pattern horizontally. Refer to page 52.

④ Memory key

Press the memory key to memorize the selected pattern. Refer to page 50.

- (5) Number keys (Refer to page 18)
 - Direct pattern selection You can select the stitch patterns from 01 to 10 directly in mode 1 (direct pattern selection mode).
 - Numeric pattern selection Enter a 2-digit pattern number to select the desired stitch pattern in mode 2 to 6.
- 6 **Stitch width adjustment key** Press "+" or "-" to change the stitch width. Refer to pages 23 and 26.
- ⑦ Stitch length adjustment key

Press "+" or "-" to change the stitch length. Refer to pages 23 and 26.

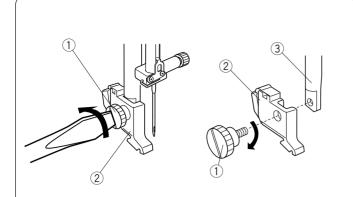
8 Cursor key

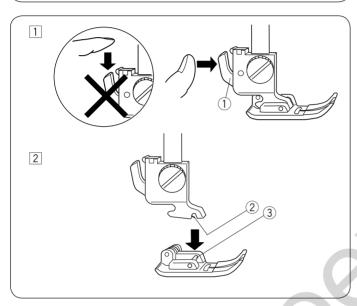
Press " ◀ " or " ▶ " to move the cursor to check or edit the pattern combination. Refer to page 56.

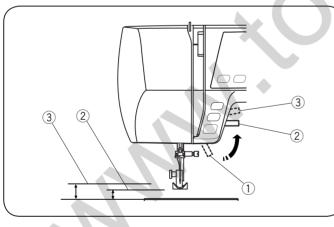
LCD Display

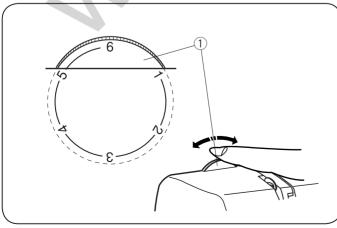
The LCD display shows the following information when the machine is turned on:

- ① Stitch pattern
- 2 Mode
- ③ Stitch pattern number
- ④ Type of presser foot
- 5 Stitch width
- 6 Stitch length









Removing and Attaching the Foot Holder

CAUTION:

Turn OFF the power switch before detaching or attaching foot holder.

• Removing the foot holder Remove the thumbscrew ① by turning it counterclockwise with a screwdriver.

Attaching the foot holder

Align the hole in the foot holder ② with the threaded hole in the presser bar ③. Fit the thumbscrew ① into the hole. Tighten the thumbscrew ① by turning it clockwise with a screwdriver.

- 1 Thumbscrew
- 2 Foot holder
- ③ Presser bar

Changing the Presser Foot

Turn OFF the power switch before changing the foot. Always use the proper foot for the selected pattern. The wrong foot can cause the needle to break.

• Removing the presser foot

Raise the needle to its highest position by turning the handwheel counterclockwise. Raise the presser foot, and press the lever 1 on the back of the foot holder.

Attaching the presser foot

Place the selected presser foot so that the pin (3) on the foot lies just under the groove (2) in the foot holder. Lower the presser bar to lock the foot into the place.

- 1) Lever
- 2 Groove
- ③ Pin

Presser Foot Lifter

The presser foot lifter 1 raises and lowers the presser foot.

You can raise the foot about $1/4^{"}$ (0.6 cm) higher than the normal up position (2) for easy removal of the presser foot, or to help you place thick material under the foot.

- 1 Presser foot lifter
- 2 Normal up position
- ③ Highest position

Presser Foot Pressure Dial

The presser foot pressure dial should be set at "6" for regular sewing.

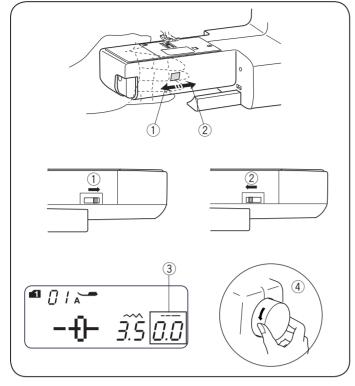
Set the pressure between "3" and "6" for applique, cutwork, drawn work, basting and embroidery. Set the pressure between "1" and "3" when sewing

chiffon, lace, organdy and other fine fabrics.

Velour and knits with a lot of stretch may also require a "1" setting.

Turn the presser foot pressure dial 1 and set the desired number.

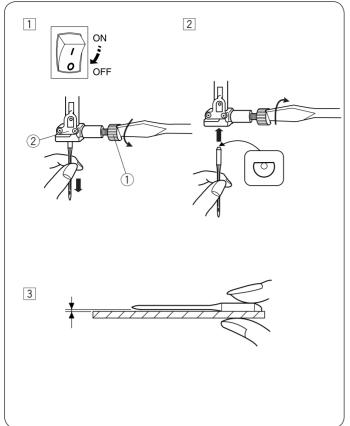
① Presser foot pressure dial



Dropping or Raising the Feed Dog

The drop feed lever is located underneath the free arm bed on the back of the machine.

- (1) To drop the feed dog, push the lever in the direction of the arrow (1). Set the stitch length value at "0.0" (3).
- 2 To raise the feed dog, push the lever in the direction of the arrow 2, as illustrated, and turn the handwheel
 4 toward you. The feed dog must be up for normal sewing.



Changing the Needle

Turn OFF the power switch before changing the needle.

- 1 Turn off the power switch. Raise the needle to its highest position by turning the handwheel counterclockwise, and lower the presser foot. Loosen the needle clamp screw (1) by turning it counterclockwise. Remove the needle from the needle clamp (2).
- Insert a new needle into the needle clamp (2) with the flat side to the rear. When inserting the needle into the needle clamp (2), push it up as far as it will go. Tighten the needle clamp screw (1) firmly by turning it clockwise.
- 3 To see if the needle is in good condition, place the flat side of the needle onto something flat (needle plate, glass, etc.). The gap between the needle and the flat surface should be consistent. Never use a bent or blunt needle.

A damaged needle can cause permanent snags or runs in knits, fine silks and silk-like fabrics.

- 1 Needle clamp screw
- 2 Needle clamp

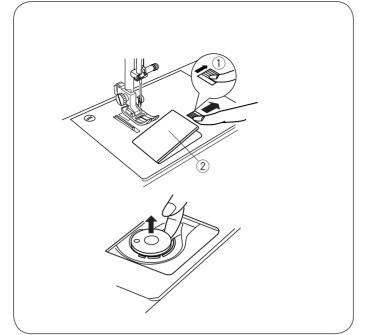
Selecting Thread and Needles

For general sewing, use needle size 11/75 or 14/90. A fine thread and needle should be used for sewing lightweight fabrics, so the fabric will not be marred. Heavy fabrics require a needle large enough to pierce the fabric without fraying the needle thread.

Always test the needle size on a small scrap of the fabric that will be used for actual sewing.

In general, use the same thread for the needle and bobbin. When sewing stretch fabrics, very fine fabrics and synthetics, use a BLUE TIPPED needle. The blue tipped needle effectively prevents skipped stitches.

| Fabric | | Thread | Needle | |
|--------|---|---|--------------------------|--|
| Light | Lawn Georgette Tricot Wool, Polyester | Silk #80-100 Cotton #80-100 Synthetic #80-100 | #9/65–11/75 | |
| Medium | Cotton, Polyester Fine jersey Wool | Silk #50 Cotton #60-80 Synthetic #50-80 Cotton #50 | #11/75–14/90 #14/90 | |
| Heavy | Denim Jersey Coating Quilting | Silk #50 Cotton #40-50 Synthetic #40-50 Silk #30 Cotton #50 | #14/90–16/100 #16/100 | |



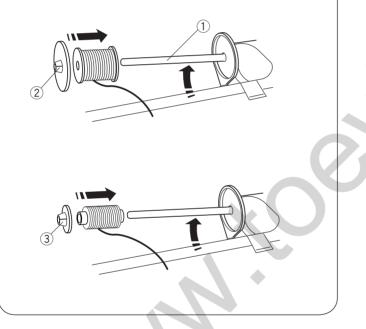
Janome Sewing Machine 4120QDC

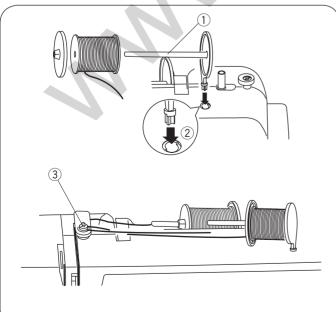
Bobbin Winding

Removing the bobbin

Gently slide the hook cover release button (1) to the right and remove the hook cover plate (2). Lift out the bobbin.

- 1 Hook cover release button
- 2 Hook cover plate





Horizontal spool pin

Lift up the spool pin 1. Place a spool of thread on the spool pin.

Attach the large spool holder ②, and press it firmly against the spool of thread.

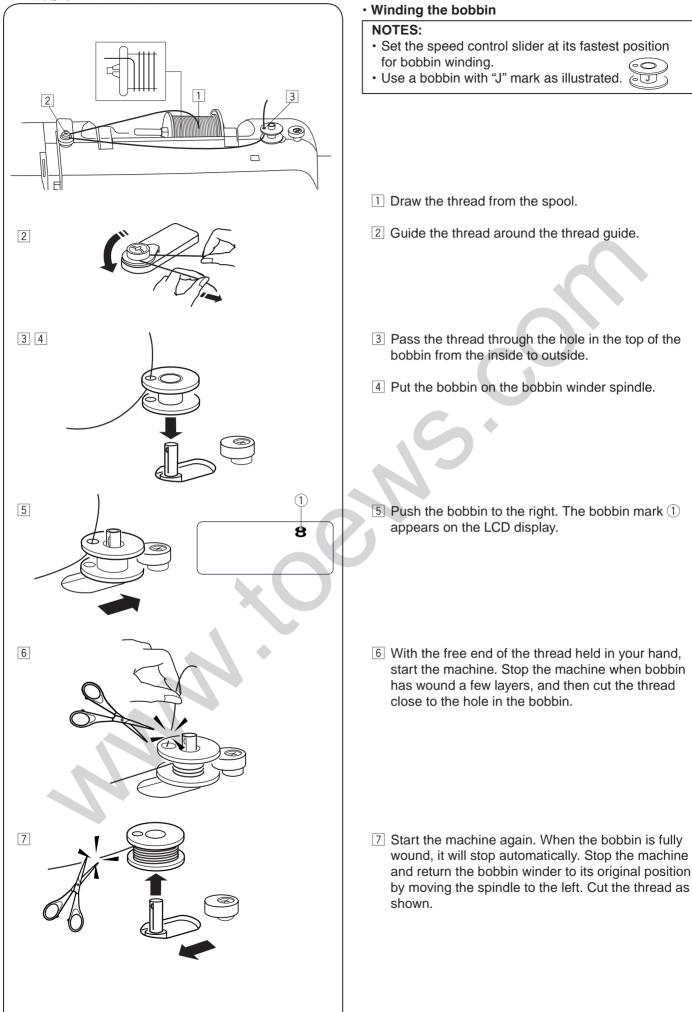
The small spool holder 3 is used with narrow or small spools of thread.

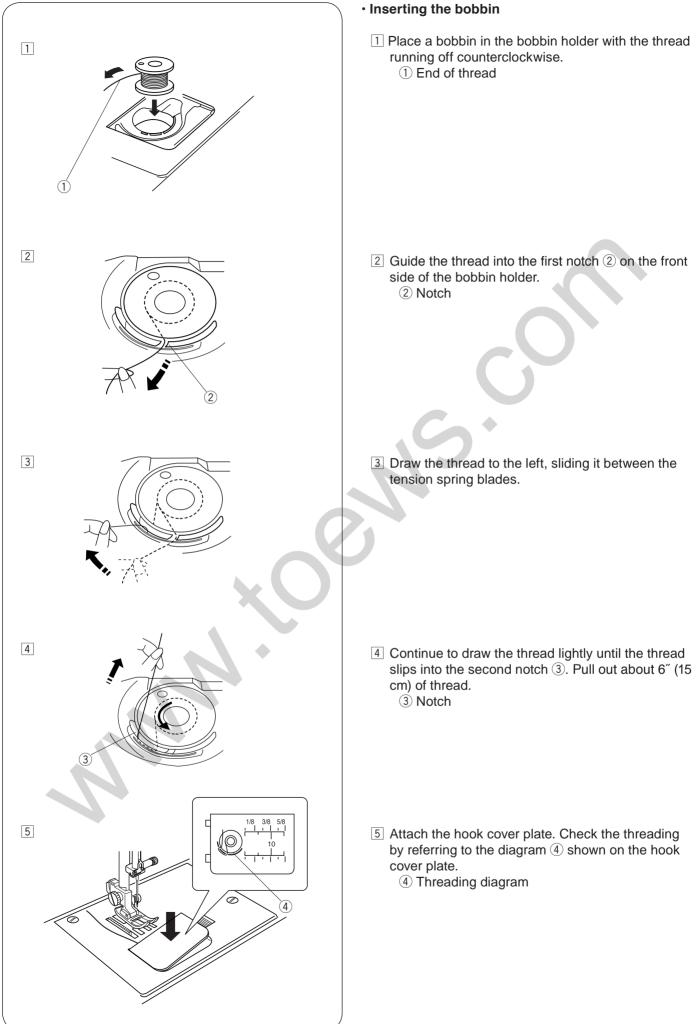
- Lower the spool pin ①.
- ① Spool pin
- 2 Large spool holder
- ③ Small spool holder

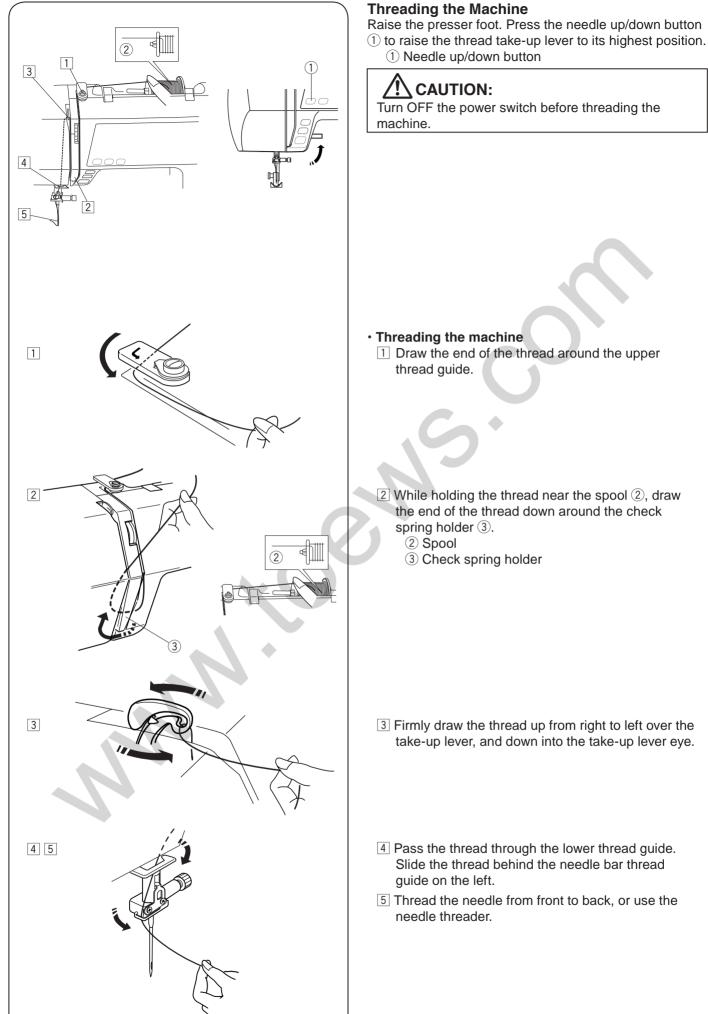
Additional spool pin

The additional spool pin ① is for twin needle sewing, or winding bobbins without unthreading the machine. Insert the additional spool pin ① into the hole ②. The additional spool pin should point to the bobbin winder thread guide ③.

- ① Additional spool pin
- 2 Hole for additional spool pin
- $(\ensuremath{\mathfrak{I}})$ Bobbin winder thread guide







1

2

Needle Threader

Turn OFF the power switch when using the needle threader.

 Lower the presser foot. Raise the needle to its highest position. Pull down the needle threader knob ① as far as it will go. The hook comes out through the needle eye from behind.
 ① Knob

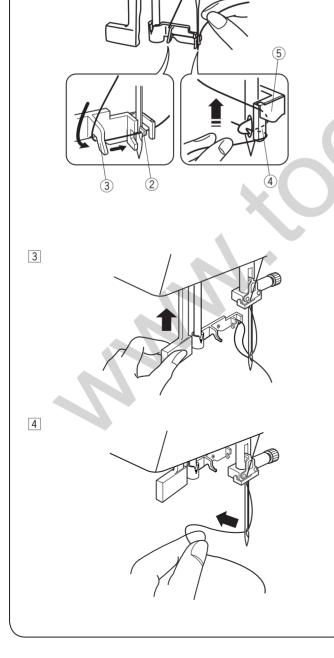
- Draw the thread from guide (a) ③ to guide (b) ④ and under the hook ②. Draw the thread up along the right side of guide (b) ④ and slip the thread in between guide (b) and the holder plate ⑤.
 - 2 Hook
 - 3 Guide (a)
 - ④ Guide (b)⑤ Holder plate

3 Raise the knob in the direction of the arrow, drawing the thread loop through the needle.

4 Pull the thread through the needle eye.

NOTES:

- The needle threader can be used with a #11 to #16 needle or a blue tipped needle. Thread sizes 50 to 90 are recommended.
- The needle threader cannot be used for a twin needle.



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1

2

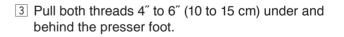
(1)

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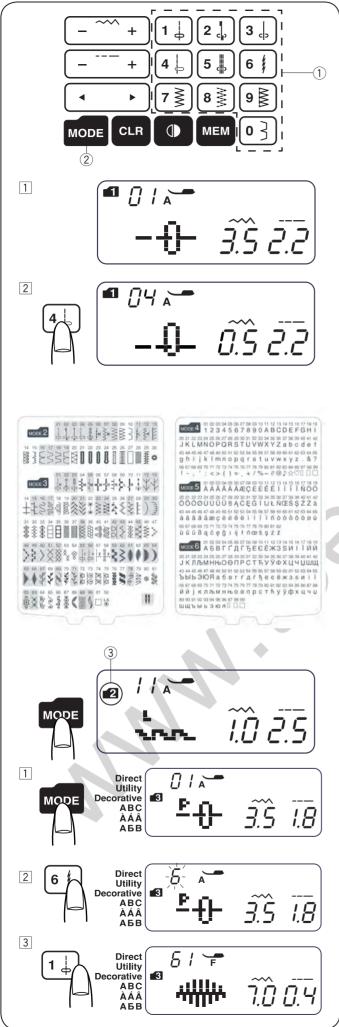
• Drawing up the Bobbin Thread

1 Raise the presser foot. Hold the needle thread lightly with your left hand.

Press the needle up/down button ① twice to lower and raise the needle to pick up the bobbin thread.
 ① Needle up/down button



3



Pattern Selection

• Mode 1

You can select the following stitch patterns directly by pressing the pattern keys ①.

| | | - | | | - | | | | |
|-----|------|---|----|----|----|--------|----|---|--|
| | | | | | 7 | | | | |
| c > | c No | c | Û- | Źм | ≩м | \sim | MM | 3 | |
| | | | | | | | | | |

Example: To select stitch pattern 4 in mode 1

- 1 When the power switch is turned on, the direct pattern selection (mode 1) is set automatically.
- 2 Press the pattern key 4 to select the stitch pattern 4. Now pattern 4 in mode 1 is selected.

• Mode 2 – 6

To select stitch patterns in mode 2-6, first press the mode key 2 to select your desired mode. Each time you press the mode key, the folder 3 indicated on the left side of the screen will change, and the mode changes as follows;

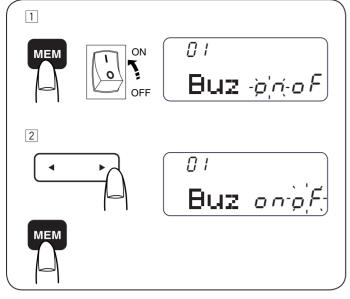
- Mode 1: Direct pattern selection
- Mode 2: Utility stitch pattern selection
- Mode 3: Decorative stitch pattern selection
- Mode 4: Number and letter selection
- Mode 5: European accented letter selection
- Mode 6: Russian (Cyrillic) letters selection

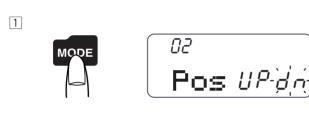
The number on the folder ③ indicates the selected mode number. To refer to the modes and their available stitch patterns for this sewing machine, please check the stitch chart or stitch reference on page 64.

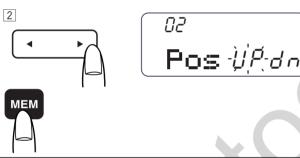
Enter the 2-digit number of the desired stitch pattern with the corresponding number keys.

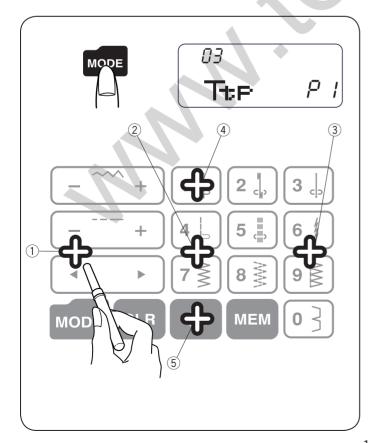
Example: To select stitch pattern 61 in mode 3

- 1 Turn the power switch on. Press the mode key twice to select mode 3.
- 2 Press the number keys on the touch panel. First press key 6 and then press key 1.
- 3 Now pattern 61 in mode 3 is selected.









Setting Mode

To enter the setting mode, press and hold the memory key and turn the power switch on until the setting mode screen appears.

In this mode you can set the following machine functions.

Buzzer sound setting

The buzzer sound can be turned on or off using the buzzer sound setting. The default buzzer sound setting is "ON".

- 1 Enter the setting mode.
- 2 To turn off the buzzer sound, press the cursor key and the "oF" mark will blink. Press the memory key to turn the buzzer sound off.
- * Caution buzzer sound cannot be turned off.

Needle stop position setting

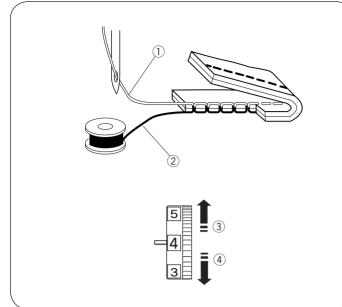
You can set the needle position to up or down when the machine stops.

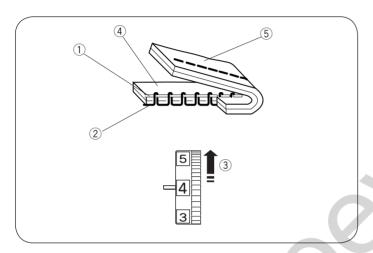
- 1 Enter the setting mode. Press the mode key to enter the up/down needle position setting.
- 2 The default up/down needle position setting is "dn". To change the needle position, press the cursor key and the "UP" mark will blink. Press the memory key to change the up/down needle position to "UP".

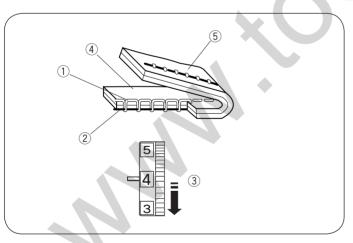
Key position adjustment

You can adjust the key position when you think the key sensor is off from the actual key position.

- 1 Enter the setting mode. Press the mode key twice to enter the key position adjustment.
- 2 The key position adjustment screen appears and "P1" is shown on the right side of the screen. With a buttonhole opener, press ① on the touch panel of your machine.
- "P2" will be shown on the LCD display. Press the
 ② on the touch panel.
- 4 "P3" will be shown on the LCD display. Press the3 on the touch panel.
- 5 "P4" will be shown on the LCD display. Press the④ on the touch panel.
- 6 "P5" will be shown on the LCD display. Press the(5) on the touch panel.
- 7 The screen will back to the Buzzer sound setting screen. Press the memory key to apply the adjustment.







Janome Sewing Machine 4120QDC

Adjusting the Needle Thread Tension for a Straight Stitch

Correct tension

- ① Needle thread (top thread)
- ② Bobbin thread (bottom thread)
- ③ To loosen
- ④ To tighten

The ideal straight stitch has threads locked between two layers of fabric, as illustrated (magnified to show detail).

If you look at the top and bottom of the seam, notice that the stitches are evenly balanced.

When adjusting the needle thread tension, the higher the number, the tighter the needle thread tension.

- Results depend on:
- stiffness and thickness of the fabric
- number of fabric layers
- type of stitch

Tension is too tight

- 1 Needle thread (top thread)
- ② Bobbin thread (bottom thread)
- 3 To loosen tension
- ④ Right side (top side) of fabric
- 5 Wrong side (bottom side) of fabric

The bobbin thread shows through on the right side of the fabric, and the stitch feels bumpy. Turn the dial to a lower tension setting number to loosen the needle thread tension.

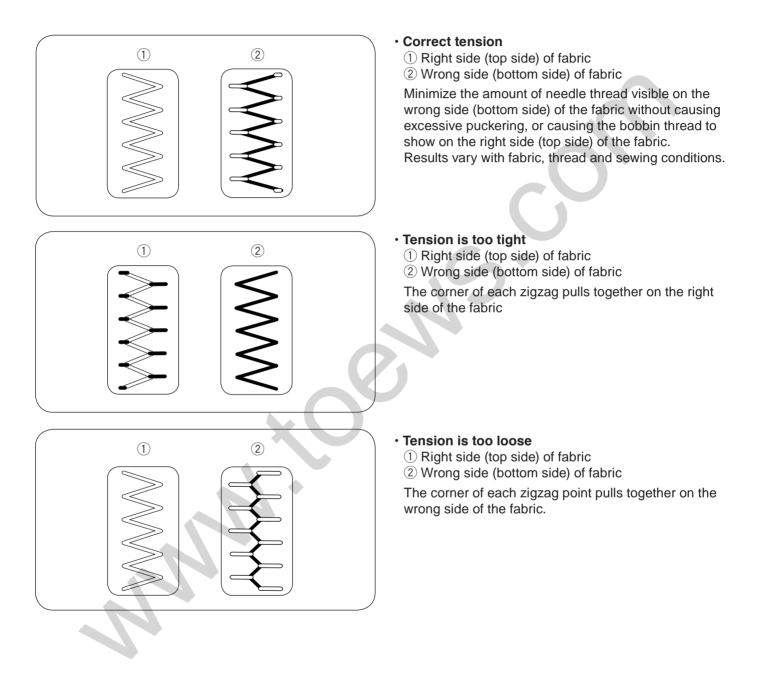
- Tension is too loose
 - ① Needle thread (top thread)
 - 2 Bobbin thread (bottom thread)
 - ③ To tighten tension
 - ④ Right side (top side) of fabric
 - $(\ensuremath{\mathbb{5}})$ Wrong side (bottom side) of fabric

The needle thread shows through on the wrong side of the fabric, and the stitch feels bumpy. Turn the dial to a higher tension setting number to tighten the needle thread tension.

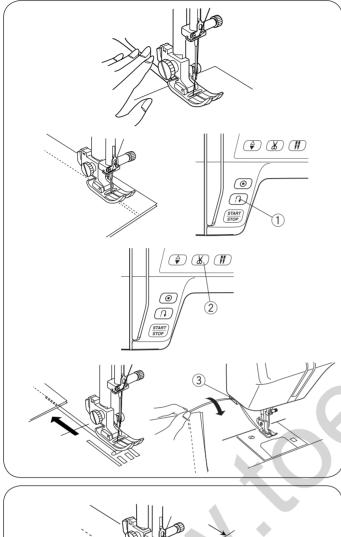
Adjusting the Needle Thread Tension for a Zigzag Stitch

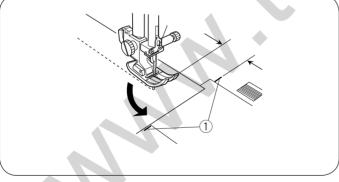
For an ideal zigzag stitch, the bobbin thread does not show on the right side (top side) of the fabric, and the needle thread shows slightly on the wrong side (bottom side) of the fabric.

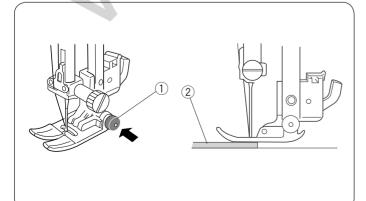
See the illustrations for the correct appearance. To match this appearance, adjust the needle tension as necessary.











SECTION III. BASIC SEWING

Straight Stitch Sewing

1) Stitch pattern

| MODE 1: | 1 |
|-------------|-------------------|
| MODE 2: | 01 |
| 2 to 6 | |
| Zigzag foot | А |
| | MODE 2: 2 to 6 |

· Starting to sew

Raise the presser foot and position the fabric next to a seam quide line on the needle plate (5/8'') (1.6 cm) is most common). Lower the needle to the point where you want to start. Lower the presser foot and pull the threads toward the back. Start the machine. Gently guide the fabric along a seam guide line letting the fabric feed naturally.

· Finishing sewing

To fasten the ends of a seam, press the reverse stitch button 1) and sew several reverse stitches. Press the thread cutter button (2) to cut the threads.

- (1) Reverse stitch button (2) Thread cutter button
- Raise the presser foot. Use the thread cutter (3) on the face plate to cut thicker threads.
- ③ Thread cutter

Turning square corners

To sew at the same distance from the edge when turning a corner with the fabric edge at the 5/8" seam guide, stop the machine when the front edge of the fabric reaches the cornering guide lines (1) and raise the presser foot. Turn the fabric counterclockwise 90°. lower the presser foot and begin stitching in a new direction.

1 Cornering guide

· Sewing from the edge of thick fabric

The black button ① on the zigzag foot locks the foot in the horizontal position.

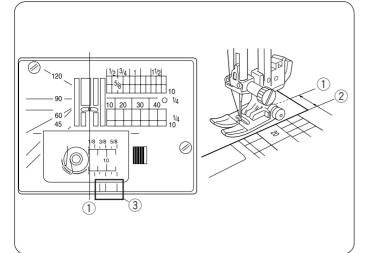
This is helpful when starting to sew from the far edge of thick fabrics 2 or sewing across a hem.

Lower the needle into the fabric at the point where you wish to start sewing.

Lower the foot while pushing in the black button ①. The foot is locked in the horizontal position to avoid slipping.

The button is released automatically after sewing a few stitches.

- (1) Black button
- (2) Thick fabrics



Needle Plate

The seam guides on the needle plate and the hook cover help you to measure seam allowance. The numbers on the needle plate indicate the distance between the center needle position ① and the edge of the fabric ②.

1 Center needle position

2 Edge of the fabric

| Number | 10 | 20 | 30 | 40 | 1/2 | 5/8 | 3/4 | 1 | 1 1/2 |
|--------------------|-----|-----|-----|-----|-----|-----|-----|---|-------|
| Distance (cm) | 1.0 | 2.0 | 3.0 | 4.0 | — | _ | _ | _ | — |
| Distance (inch) | — | — | | — | 1/2 | 5/8 | 3/4 | 1 | 1 1/2 |

The front seam guides (3) are marked at 1/4", 3/8" and 5/8" from the center needle position (1).

③ Front seam guides

Adjusting the stitch length

Press the stitch length adjustment key ----+ to change the stitch length.

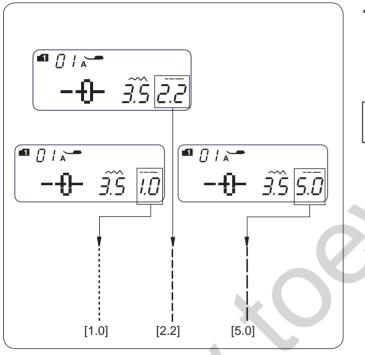
Press "--" to decrease stitch length.

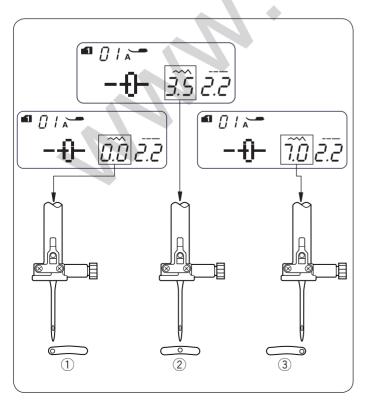
Press "+" to increase stitch length.

The stitch length can be varied from 0.0 to 5.0.

NOTE:

Reverse stitch length cannot be set longer than 4.0.





Adjusting the needle drop position

The needle drop position can be adjusted for straight stitch patterns 01-05 (Mode 1 and 2), and 01-03 (Mode 3).

Press the stitch width adjustment key - + to change the needle drop position. Press "+" to move the needle to the right ③. Press "-" to move the needle to the left ①.

1) Left (0.0)

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- 2 Middle (3.5)
- ③ Right (7.0)

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(2)

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05

Straight Stitch

③ Presser foot:

| 1 Stitch pattern: | Μ |
|--------------------------|---|
| - | Μ |
| ② Needle thread tension: | 2 |

 MODE 1:
 1 or 4

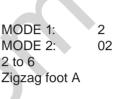
 MODE 2:
 01 or 04

 2 to 6
 Zigzag foot A

For seaming garments, zipper application and more. Pattern 04 is used for seaming fine fabrics.

Lock-a-Matic Stitch

- ① Stitch pattern:
- (2) Needle thread tension:
- Presser foot:
- (4) Reverse stitch button



Use this stitch to secure the beginning and the end of a seam with backstitching.

When you reach the end of the seam, press the reverse stitch button ④ once. The machine will sew four reverse stitches, four forward stitches, and then stop sewing automatically.

1) Stitch pattern:

| 1 Stitch pattern: | MODE 1: | 3 |
|--------------------------|---------------|----|
| | MODE 2: | 03 |
| ② Needle thread tension: | 2 to 6 | |
| ③ Presser foot: | Zigzag foot A | |
| Devene ettek kutter | | |

(4) Reverse stitch button

This unique stitch is used where an invisible locking stitch is needed.

Lower the needle close to the front edge of the fabric. The machine will sew several locking stitches in place and continue sewing forward.

When you press the reverse stitch button ④ at the end of the seam, the machine will sew several locking stitches in place, then stop sewing automatically.

Triple Stretch Stitch

| MODE 1: | 5 |
|---------------|-------------------|
| MODE 2: | 05 |
| 2 to 6 | |
| Zigzag foot A | |
| | MODE 2: 2 to 6 |

This strong, durable stitch is recommended when both elasticity and strength are necessary in order to ensure comfort and durability. Use it to reinforce areas such as crotch and armhole seams. Also use for extra reinforcement when constructing items such as backpacks.



Stretch Stitch

| (1) 06 11 4m 4 ⊥ | 2 5 4 3 | 3 | a ()5 ~~ vvv | ĩ:Ô 2.5 | Stretch Stitch Stitch pattern: Needle thread tension: Presser foot: | MODE 1: 6 MODE 2: 06 or 11 3 to 6 Zigzag foot A | |
|---|------------------|---|-----------------|-------------------------|--|--|---|
| | | | | | This stitch is a narrow stretch eliminate puckering on knit fa permitting the seam to be pre | brics and bias seams, while | ţ |
| (1) 02 ■ - - - - - | 2 | 3 | | <i>3</i> .5 <i>2</i> .5 | Sculpture Stitch 1) Stitch pattern: 2) Needle thread tension: 3) Presser foot: | MODE 3: 02 3 to 6 Satin stitch foot F | |
| | | | | | For top stitching and outlining Sew slowly at the corners. | g designs. | |
| (1) 03 ■ c ⊃ | 2 | 3 | 03 ¥ • | <u>3.5 4.0</u> | New Sculpture Stitch 1 Stitch pattern: 2 Needle thread tension: 3 Presser foot: | MODE 3: 03 3 to 6 Satin stitch foot F | |
| | | 0 | | | This stitch is used for topstitc enhancing a design's appear | | |

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$\begin{bmatrix} 1 & 2 & 3 \\ 07 & 12 & 5 \\ 8 & 4 & 4 \\ 3 & 3 \end{bmatrix}$

(1)

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Zigzag Stitch

1) Stitch pattern:

③ Presser foot:

(2) Needle thread tension:

| MODE 1: | 7 |
|---------------|----------|
| MODE 2: | 07 or 12 |
| 2 to 6 | |
| Zigzag foot A | |

The zigzag stitch is one of the most useful and versatile stitches.

It is used for overcasting, mending, appliqué, and also used as a decorative stitch.

NOTE:

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3

Use an interfacing when sewing on stretch fabrics such as knit, jersey or tricot.

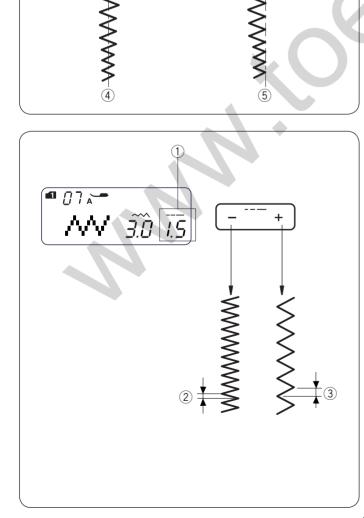
Adjusting the stitch width

Press the stitch width adjustment key - + to change the stitch width 1.

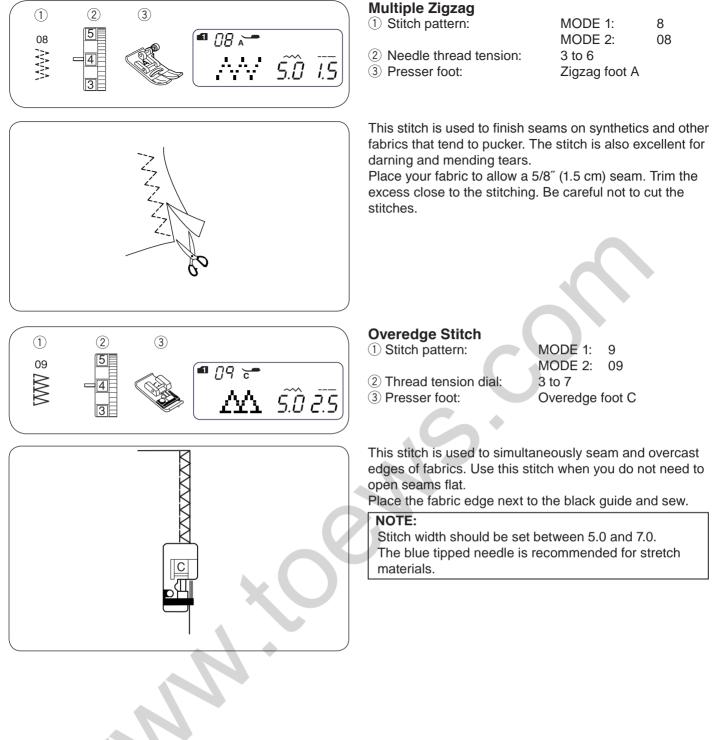
Press "–" to decrease stitch width ②. Press "+" to increase stitch width ③.

The stitch width can be varied from 0.0 to 7.0.

- (4) The stitch width of pattern 07 can be changed without changing its center needle position (M).
- (5) The stitch width of pattern 12 can be changed without changing its right needle position (R).

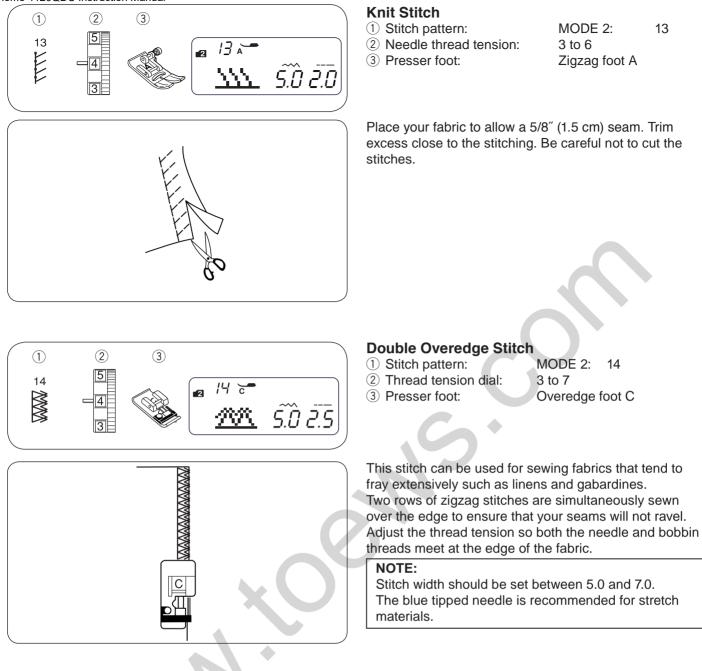


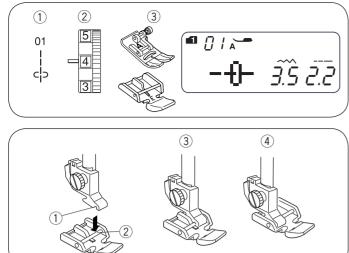
Janome 4120QDC Instruction Manual (2) (3) (1)

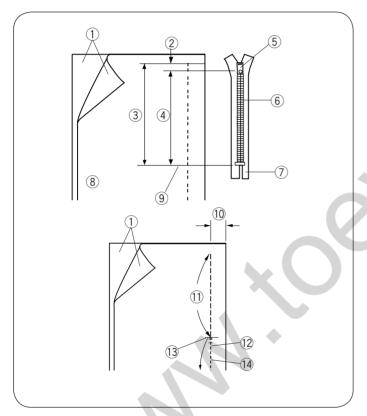


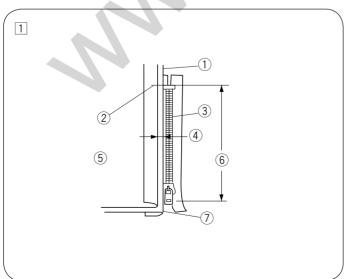
Janome Sewing Machine 4120QDC











Zipper Sewing

- 1) Stitch pattern:
- 2 Needle thread tension:
- ③ Presser foot:

MODE 1: 1 1 to 4 Zigzag foot A Zipper foot E

Attaching the zipper foot

Fit the pin (2) on the zipper foot into the groove (1) in the foot holder.

To sew the left side of the zipper, attach the zipper foot with the right-hand side of the pin \Im .

To sew the right-side of the zipper, attach the zipper foot with the left-hand side of the pin 4.

- 1) Groove
- 2 Pin
- ③ To sew left side
- 4 To sew right side

Fabric preparation

Add 3/8" (1 cm) to the zipper length. This is the overall opening size.

- 1 Right side of the fabric
- 2 3/8" (1 cm)
- ③ Opening size
- ④ Zipper length
- 5 Slider
- 6 Zipper teeth
- ⑦ Zipper tape
- 8 Wrong side of the fabric
- 9 End of the opening

Place the right sides of the fabric together and sew up to the end of the zipper opening, with a 13/16" (2 cm) seam allowance. Reverse the stitch to fasten the seam.

Attach the zigzag foot and baste along the zipper opening with the stitch length 4.5.

- 10 13/16" (2 cm)
- 1 Zipper opening (Basting)
- 12 Reverse stitches
- 13 End of the opening
- 14 Seam

NOTE:

Loosen the thread tension to one (1) for basting.

Start sewing

- Fold up the upper seam allowance. Fold back the bottom seam allowance to form a 1/8" (0.3 cm) fold. Place the zipper teeth next to the fold and pin it in place.
 - 1 Bottom fabric
 - 2 End of the zipper opening
 - ③ Zipper teeth
 - ④ 1/8″ (0.3 cm)
 - (5) Wrong side of the upper fabric
 - 6 Opening size
 - ⑦ Fold

8

(10)

2

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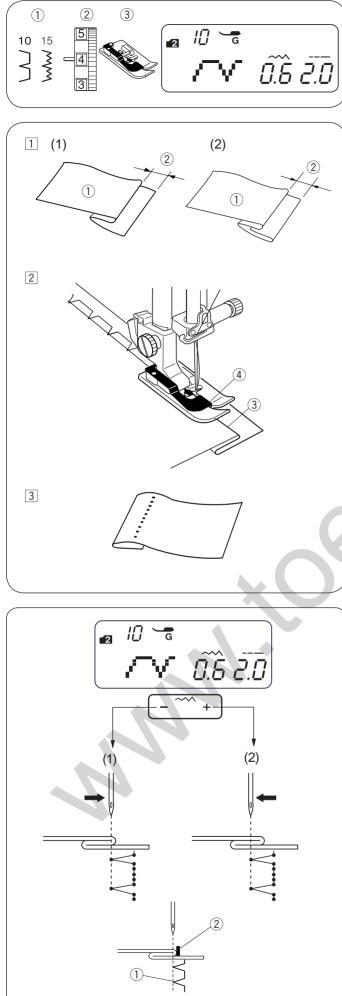
5 6

7

- 2 Attach the zipper foot with the pin on the right. Sew through all the layers from the end of the zipper opening, guiding the zipper teeth along the edge of the foot.
 - 3 Stop the machine 2" (5 cm) before the foot reaches the slider on the zipper tape. Raise the presser foot. Open the zipper then lower the foot and stitch the remainder of the seam.
 - ⑧ Slider
 - 9 2" (5 cm)
 - 4 Close the zipper and open the upper fabric flat over the zipper. Baste the upper fabric and zipper tape together.

10 Basting stitch

- Detach the foot and attach it with the pin on the left.
 Backstitch across the end of the opening to 3/8" (1 cm). Turn the fabric 90 degrees and stitch through the garment and zipper tape.
 (1) Backstitch
- 6 Stop the machine 2" (5 cm) before the foot reaches the slider on the zipper tape. Raise the presser foot. Remove the basting stitches.
 (12) Basting stitches
- Open the zipper, then lower the foot and stitch the remainder of the seam. After finished sewing, remove the basting stitches on the upper fabric.



Blind Hemming

| 1) Stitch pattern: | MODE 1: | 0 |
|------------------------|----------------|----------|
| | MODE 2: | 10 or 15 |
| ② Thread tension dial: | 1 to 4 | |
| ③ Presser foot: | Blind hem foot | G |

- 1 Fold a hem with the wrong side of the fabric up to form a 1/4'' 7/16''' (0.4 0.7 cm) allowance.
 - 1 Wrong side of fabric
 - ② 1/4" 7/16" (0.4 0.7 cm)
 - (1) On heavyweight fabrics that tend to ravel, the raw edge should be overcast first.
 - (2) Fold the hem under the fabric for lightweight fabrics.
- 2 Place the fabric so that the fold is next to the guide on the foot. Lower the presser foot. Adjust the needle drop position if necessary. Sew while guiding the fold along the guide.
 - ③ Fold
 - ④ Guide

3 Open the fabric after sewing is finished.

NOTE:

If the needle pierces too far left, the stitch will show through on the right side of the fabric.

Adjusting the needle drop position

Press the stitch width adjusting key $(-)^{+}$ to move the change the needle drop position.

- (1) Press "-" to move the needle drop position to the right.
- (2) Press "+" to move the needle drop position to the left.

The LCD display shows the distance between the guide and left needle drop position in millimeters. The needle drop position can be varied from 0.0 to 1.2. The value indicates the distance between the left needle position and the guide.

- 1) Left needle drop position
- ② Guide

NOTE:

The needle drop position can be varied, but the stitch width will remain the same.

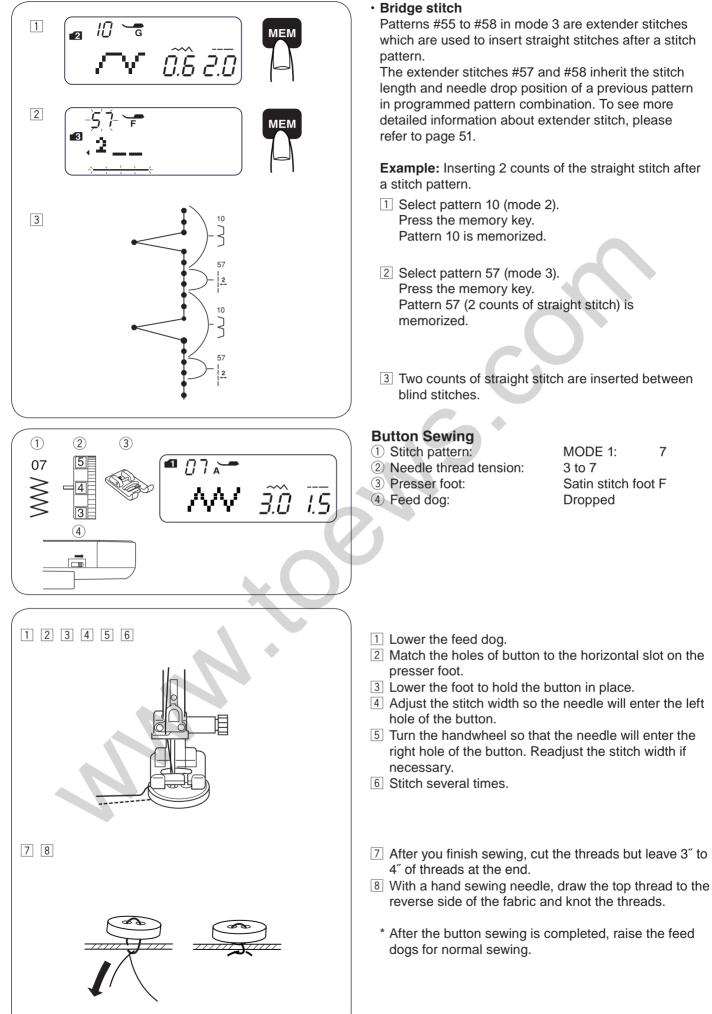
7

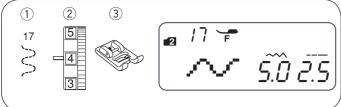
MODE 1:

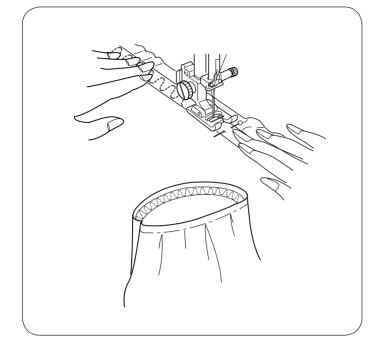
Dropped

Satin stitch foot F

3 to 7







Attaching Elastic

③ Presser foot:

- ① Stitch pattern:
- ② Needle thread tension:

MODE 2: 17 3 to 7 Satin stitch foot F

* Stitch patterns 08 in mode 2 can also be used.

Mark the elastic into quarters. Match those to the center front, center back and side seams, and pin the elastic to the fabric.

Place the elastic under the foot and stitch into place while stretch the elastic evenly.

(2) 22

3 23

(4)

(5)

(6)

24

25

26

(7) 27

Various Kinds of Buttonholes and Their Uses

① Square Buttonhole

This square buttonhole is widely used on medium to heavy fabrics. The buttonhole size is automatically determined by placing a button in the foot.

(2) Round-end Buttonhole

This buttonhole is used on fine to medium weight fabrics, especially for blouses and children's clothes.

③ Fine Fabric Buttonhole

This buttonhole is rounded at both ends and is used on fine, delicate fabrics such as fine silk.

(4) Keyhole Buttonhole

The keyhole buttonhole is widely used on medium to heavy fabrics. It is also suitable for larger and thicker buttons.

5 Stretch Buttonhole

This buttonhole is suitable for knit fabrics. It can also be used as a decorative buttonhole.

6 Antique Buttonhole

Resembles a "Hand Worked" buttonhole ideal on fine fabrics featured in Heirloom sewing or for couture fashions.

⑦ Welted Buttonhole (Bound Buttonhole)

This is a template pattern for the hand-sewn welted buttonhole.

NOTES:

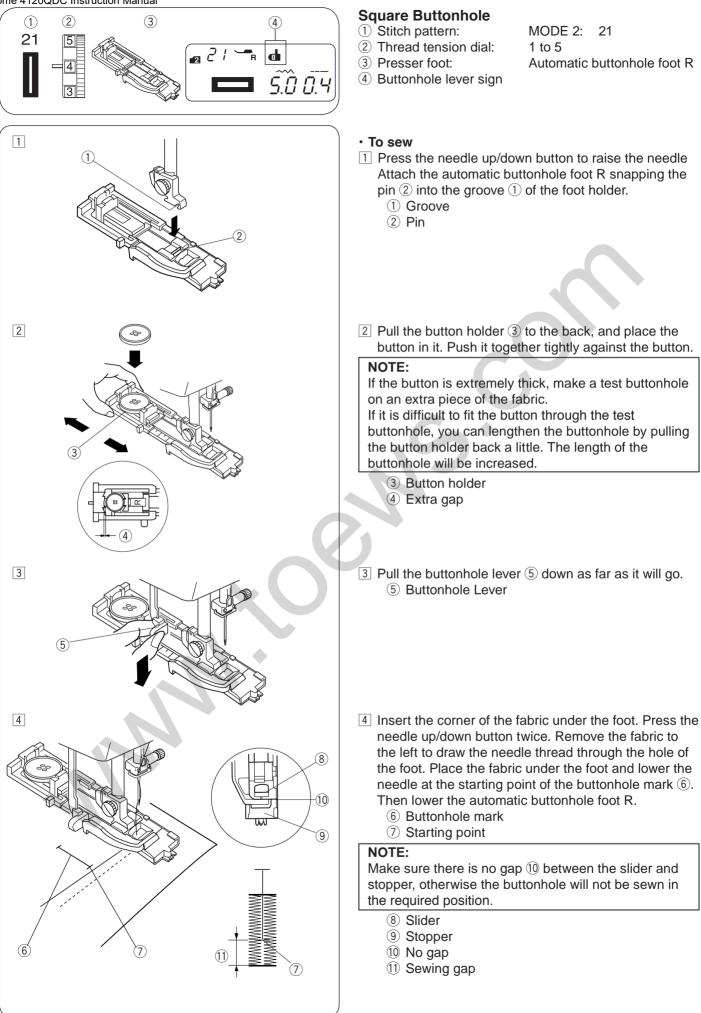
- To sew the buttonholes 21 to 27, follow the same procedure as Square BH (See page 35 to 36).
- The size of a buttonhole is automatically set by placing a button in the rear of the automatic buttonhole foot R.
- The button holder of the foot takes a button size of up to 1" (2.5 cm) in diameter.
- It is sometimes necessary to change buttonhole size to match certain heavy or specific materials and threads.
- Make a test buttonhole on an extra piece of the fabric to check your setting.
- Place the button on the fabric and mark the top and bottom to determine the position of the buttonhole on the fabric.
- Use an interfacing on stretch fabrics.

Automatic buttonhole foot R

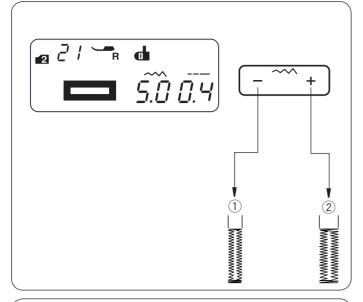
MODE 2: 21

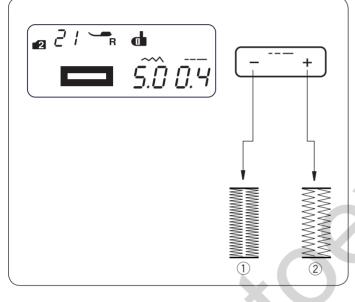
1 to 5

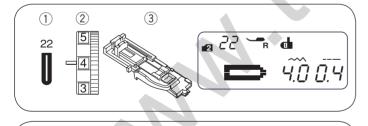
Janome 4120QDC Instruction Manual

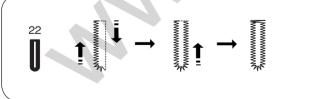


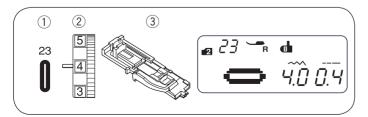
5 5 Start the machine to sew the buttonhole. The buttonhole will be automatically sewn. The machine will sew the left row first. 6 6 The machine will sew the back bartack and the right row. VVVVVVVVVVVVVVVVVVVVVVVV 7 7 The machine will sew the front bartack, then it stops automatically with the needle in the up position. The machine will trim the threads at the end of sewing if the thread cutter sign is indicated on the LCD display. (12) NOTE: 🝙 bl If you start sewing the buttonhole without lowering the buttonhole lever, the LCD display will show "bL" \Box message and the buttonhole lever sign 12 will blink. Lower the buttonhole lever, then restart the machine. 8 8 Remove the fabric and place a pin (1) just below the bartack to prevent accidentally cutting stitches. Cut the opening with the seam ripper 14. (13) Pin (14) Seam ripper 9 9 When buttonhole sewing is finished, push the buttonhole lever (15) upward as far as it will go. 15 Buttonhole lever (15)











Adjusting the Stitch Width and Density for Buttonholes

• Adjusting the stitch width Press the stitch width adjustment key -----+ to

change the stitch. Press the "-" button to decrease buttonhole width (1). Press the "+" button to increase buttonhole width (2). The stitch width can be varied from 2.5 to 7.0 depending on the selected buttonhole. The default setting is "5.0".

Adjusting the stitch density
 Press the stitch length adjustment key - --- + to
 change the stitch density.

 Press the "-" button to make the buttonhole stitch
 denser ①.

Press the "+" button to make the buttonhole stitch less dense 2.

The stitch density can be varied from 0.3 to 0.8 depending on the selected buttonhole. The default setting is "0.4".

Round-End Buttonhole

- 1) Stitch pattern: MODE 2:
- $\overline{(2)}$ Thread tension dial: 1 to 5
- ③ Presser foot: Automatic buttonhole foot R

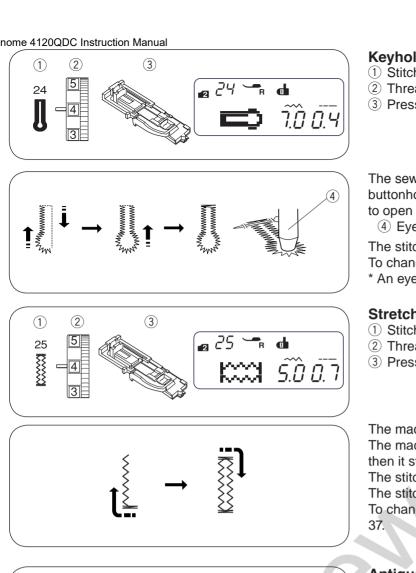
The sewing procedure is the same as the square buttonhole. The stitch width can be varied from 2.5 to 5.5. To change the stitch width or stitch density, refer to the section above.

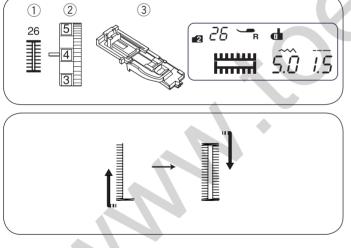
Fine Fabric Buttonhole

- 1 Stitch pattern: MODE 2: 23
- 2 Thread tension dial: 1 to 5
- ③ Presser foot: Automatic buttonhole foot R

The sewing procedure is the same as the square buttonhole. The stitch width can be varied from 2.5 to 5.5. To change the stitch width or density, refer to the section above.

22





Keyhole Buttonhole

- 1) Stitch pattern:
- (2) Thread tension dial:
- ③ Presser foot:

MODE 2: 24 1 to 5 Automatic buttonhole foot R

25

26

The sewing procedure is the same as the square buttonhole. Use the seam ripper and an eyelet punch (4)to open the buttonhole.

④ Eyelet punch

The stitch width can be varied from 5.5 to 7.0.

To change the stitch width or density, refer to page 37. * An eyelet punch is an optional item.

Stretch Buttonhole

- 1) Stitch pattern: MODE 2:
- (2) Thread tension dial: 1 to 5
- ③ Presser foot:
- Automatic buttonhole foot R

The machine will sew the front bartack and left row first. The machine will sew the back bartack and right row, then it stops automatically.

The stitch width can be varied from 2.5 to 7.0. The stitch density can be varied from 0.5 to 1.0. To change the stitch width or stitch density, refer to page

Antique Buttonhole

- 1) Stitch pattern: MODE 2:
- 2 Thread tension dial: 1 to 5
- ③ Presser foot: Automatic buttonhole foot R

The machine will sew the front bartack and left row first. The machine will sew the back bartack and right row, then it stops automatically.

The stitch width can be varied from 2.5 to 7.0.

The stitch density can be varied from 0.5 to 2.5.

To change the stitch width or stitch density, refer to page 37.

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1 Use the same procedure as the square buttonhole procedure. Set the stitch width to match the thickness of the cord used. With the buttonhole foot raised, hook the filler cord on the spur (1) at the back of the buttonhole foot.

Bring the ends toward you under the buttonhole foot, clearing the front end. Hook the filler cord into the forks (2) on the front of the automatic buttonhole foot to hold them tight.

Lower the needle into the garment where the buttonhole will start, and lower the foot.

- 1 Spur
- (2) Forks

Corded Buttonhole

(2) Thread tension dial:

(1) Stitch pattern:

③ Presser foot:

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2 Start the machine and sew the buttonhole. Each side of the buttonhole and the bartacks will be sewn over the cord.

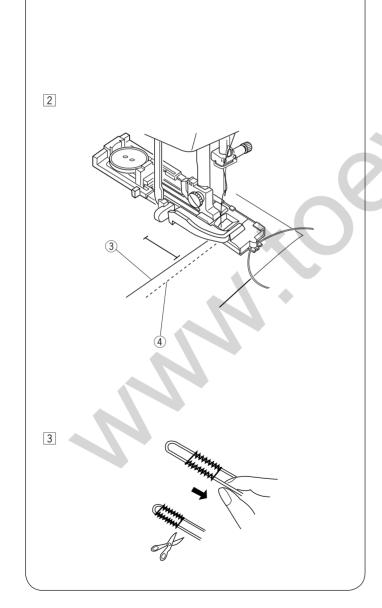
Remove the fabric from the machine, and cut the sewing threads only.

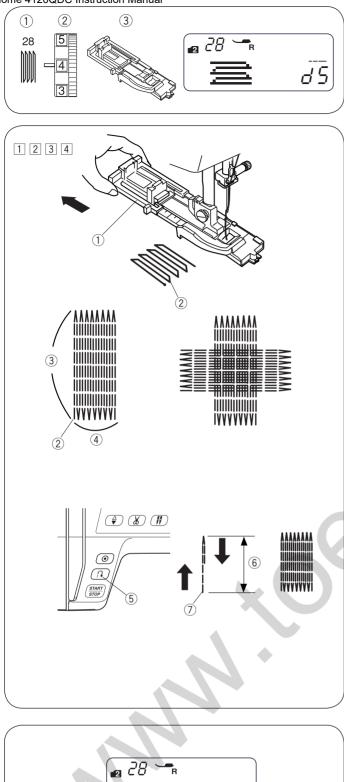
- ③ Needle thread (top thread)
- ④ Bobbin thread (bottom thread)

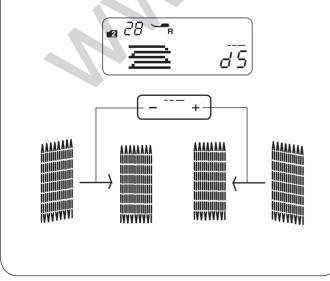
3 Pull the loose ends of the filler cord to tighten it. Thread the each end of the cord through a handsewing needle. Then draw the both ends to the wrong side of the fabric and knot.

NOTE:

Cut the filler cord at both ends, if the filler cord is stitched on the fabric and cannot be pulled.







Darning Stitch

- 1) Stitch pattern:
- MODE 2:
- 2 Thread tension dial: 3 to 6
- ③ Presser foot: Automatic buttonhole foot R

Starting to sew

- $\fbox{1}$ Pull the button holder $\fbox{1}$ to the back.
- 2 Place the garment under the foot. Press the needle up/down button twice. Move the fabric to the left to draw both threads under the foot.
- 3 Lower the foot. Start the machine. The machine will sew locking stitch, 16 rows of darning, locking stitch again and stop automatically.
- 4 Turn the fabric and repeat sewing in different direction.

The machine will trim the threads at the end of sewing automatically if the thread cutter sign is indicated on the LCD display (see page 7).

- 1 Button holder
- ② Starting point
- ③ 3/4″ (2 cm)
- ④ 9/32" (0.7 cm)

Sewing a shorter darning

To sew a darning shorter than 3/4'' (2 cm), first stop the machine after sewing the required length (6), then press the reverse stitch button (5).

The required length (6) has been determined. Start the machine again and continue sewing until the machine stops automatically.

- (5) Reverse stitch button
- 6 Required length
- ⑦ Starting point

Sewing a same-sized darning

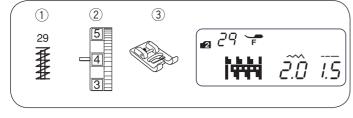
Simply start the machine to sew another darning at the same size.

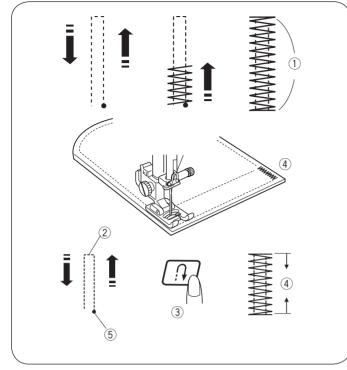
Adjusting the evenness of the darning

side, press "-" to make the darn even.

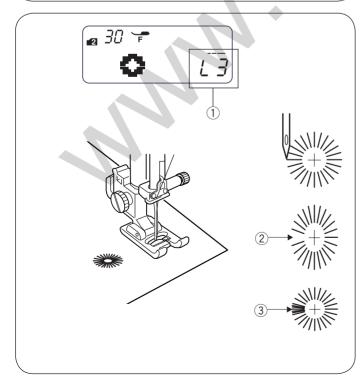
Correct the evenness of the darning as follows: Press the stitch length adjustment key $\boxed{---+}$ to adjust the evenness.

When the right side of the darn is lower than the left side, press "+" to make the darn even. When the left side of the darn is lower than the right









Tacking (1

| 1) Stitch pattern: | MODE 2: |
|------------------------|---------|
| ② Thread tension dial: | 3 to 6 |
| | |

③ Presser foot:

Satin stitch foot F

Tacking is used to reinforce pockets, crotch seams and belt carriers where extra strength is needed.

Start sewing

Start the machine and sew until the machine stops automatically. The machine will sew a tacking 5/8" (1.5 cm) long.

1) 5/8" (1.5 cm)

The machine will trim the threads at the end of sewing automatically if the thread cutter sign is indicated on the LCD display (see page 7).

· Sewing a shorter tacking

* Set the speed control slider at low speed setting.

To sew a tacking shorter than 5/8" (1.5 cm), first stop the machine after sewing the required length 2, then press the reverse stitch button 3.

The tacking length (4) has been determined. Start the machine again and continue sewing until the machine stops automatically.

- 2 Required length
- (3) Reverse stitch button
- (4) Tacking length
- 5 Starting point
- · Sewing a same-size tack Simply start the machine to sew another tacking at the same size.

Eyelet

- 1) Stitch pattern:
- MODE 2: 30 1 to 4
- (2) Needle thread tension: ③ Presser foot:
- Satin stitch foot F
- The eyelet is used for belt holes etc.

· Starting to sew

Attach the satin stitch foot F. Start the machine. The machine will stop automatically when completed.

The machine will trim the threads at the end of sewing automatically if the thread cutter sign is indicated on the LCD display (see page 7).

Open the eyelet with an awl, eyelet punch or pointed scissors.

· Adjusting the shape of an eyelet Correct the shape of the eyelet as follows:

Press the stitch length adjustment key -+ to adjust the shape.

If the eyelet gap opens 2, press "-" to correct the evelet shape. (L1-L2)

If the eyelet overlaps ③, press "+" correct the eyelet shape. (L4–L5)

NOTE:

The shape can be adjusted within L1 to L5 (default setting is L3).

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SECTION IV. DECORATIVE STITCHING

Shelltuck Stitch

- 1) Stitch pattern:
- (2) Needle thread tension:
- ③ Presser foot:
- MODE 2: 16 6 to 8 Satin stitch foot F

Use a lightweight fabric (tricot, for example). Fold the fabric as shown and stitch on the fold. Allow the needle to just clear the folded edge to create a shelled edge. You may need to increase the needle thread tension slightly. If you sew rows of shell stitches, space the rows at least 5/8" (1.5 cm) apart. You can also sew shell stitches on knits or soft silky woven fabrics, in any direction.

Applique

- 1) Stitch pattern:
- (2) Needle thread tension:
- (3) Presser foot:
- (4) Presser foot pressure dial:

MODE 3: 04 1 to 4 Satin stitch foot F

Place an applique on the fabric and baste or pin it in place.

Reduce the foot pressure.

Sew while guiding the fabric so the needle falls along the outer edge of the applique.

3

- 1 Applique
- 2 Outer edge

When turning around a corner, stop the machine with the needle at the outer edge of applique.

Raise the presser foot and pivot the fabric around the needle to change the sewing direction.

Adjusting the stitch width

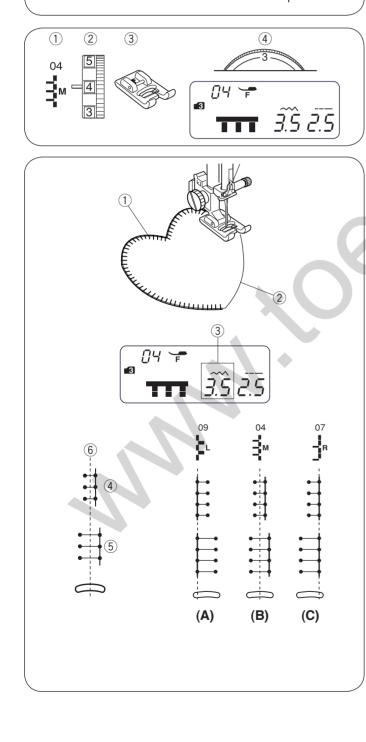
Select pattern 04 in mode 3. Press the stitch width adjustment key - - + to change the stitch width.

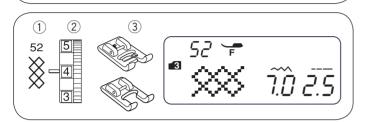
Press "-" to decrease the stitch width (4).

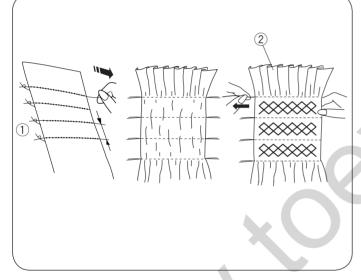
Press "+" to increase the stitch width (5).

The stitch width will be varied base on the centered needle drop position 6.

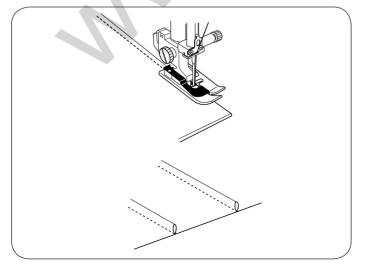
- 3 Stitch width (3.5)
- (4) Stitch pattern 04 (stitch width decreased)
- (5) Stitch pattern 04 (stitch width increased)
- 6 Center needle drop position
- (A) The stitch pattern 09 has a fixed left needle drop position. When you change the stitch width, the right needle drop position will change.
- (B) The stitch patterns 04, 05 and 06 have a fixed center needle drop position. The stitch width changes symmetrically.
- (C) The stitch patterns 07, 08 and 10 have a fixed right needle drop position. When you change the stitch width, the left needle drop position will change.











Janome Sewing Machine 4120QDC

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Scallop Stitch

- Stitch pattern:
 Thread tension dial:
- Presser foot:

3 to 6 Zigzag foot A

MODE 3:

* Stitch patterns 29 or 64 in mode 3 can also be used.

Sew the stitches approximately 3/8" (1 cm) inside the edge of the fabric.

Trim the outside of the stitches as shown. Make sure not to cut the thread.

MODE 3:

Smocking

- ① Stitch pattern:
- 2 Thread tension dial:
- ③ Presser foot:

3 to 6 Satin stitch foot F Custom crafted zigzag foot F2

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Smocking is a delicate decorative treatment used on children's clothes or women's blouses.

Choose a soft and lightweight fabric such as batiste, gingham or challis. Cut the fabric three times wider than the projected width. Set stitch length at "5.0", loosen the thread tension to 0 and sew rows of straight stitches 3/8'' (1.0 cm) apart across the area to be smocked.

NOTE:

Pull up the bobbin thread and draw a 4" to 6" thread tail to the back before start sewing.

Knot the threads along one edge (1). From the other edge, pull the bobbin threads (bottom threads) to distribute the gathers (2) evenly.

Sew the smocking stitches between the gathered rows. Remove the straight stitches by pulling them out.

- 1 Knotted edge
- 2 Gathers

1) Stitch pat

| h pattern: | MODE 1: |
|------------|---------|
| | MODE 2: |

| 2 | Thread | tension | dial: | 1 to 4 |
|---|--------|---------|-------|--------|
| | | | | |

③ Presser foot: Blind Hem stitch foot G

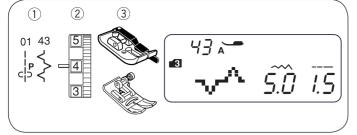
Fold the fabric with the wrong sides together. Place the folded fabric under the blind hem foot. Align the edge of the fold with the guide on the foot, and lower the foot.

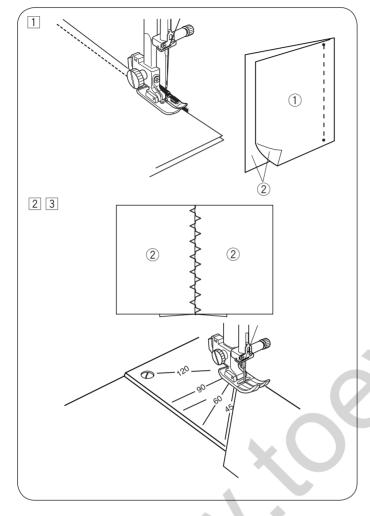
Sew while guiding the edge of the fold along the guide.

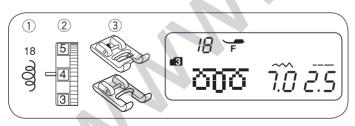
Open the fabric and press the tuck to one side.

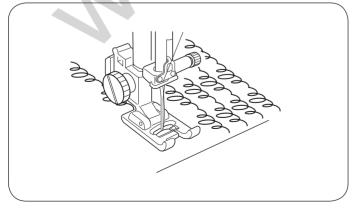
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Janome 4120QDC Instruction Manual









Patchwork Piecing

- 1) Stitch pattern:
- (2) Thread tension dial: 3 to 6

③ Presser foot

1/4" seam foot O Zigzag foot A

MODE 3:

- Place the patchwork pieces right sides together. Select stitch pattern 01 in mode 3. Sew while guiding the edge of the fabric along the guide on the foot to keep a precise 1/4["] seam allowance.
 - ① Wrong side of fabric
 - 2 Right side of fabric
- 2 Select stitch pattern 43 in mode 3. Replace the presser foot to Zigzag foot A.
- 3 Press the seam allowance to open. Sew stitch pattern 43 on the right side of the garment centering over the seam line.
- * Stitch patterns 12, 13, 14, 15, 20 or 21 in mode 3 can also be used.

• Angle scale on the needle plate

You can easily seam patchwork pieces at the desired angles without marking, by using the unique angle scales on the needle plate. The angle scales are marked at 45, 60, 90 and 120 degrees.

Stippling Stitch

- 1) Stitch pattern: Mode 3:
- 2 Thread tension dial: 3 to 6
- ③ Presser foot: Satin stitch foot F
 - Custom crafted zigzag foot F2

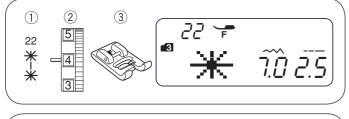
18

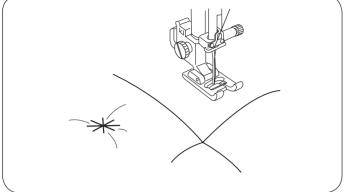
* Stitch patterns 16, 17 or 19 in mode 3 can also be used.

A pre-programmed stippling stitch is a fast and easy method to quilt small areas.

Place a batting (wadding) between quilt top and backing fabric.

45





You can secure guilt layers and batting using the clasp stitch.

Clasp Stitch

1) Stitch pattern:

③ Presser foot:

(2) Thread tension dial: 3 to 6

1 Select stitch pattern 22 (mode 3). Press the memory key.

Mode 3:

Satin stitch foot F

2 Select stitch pattern 92 (mode 3). Press the memory kev.

Mode 3:

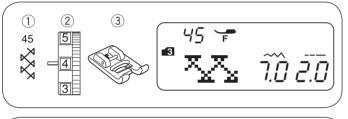
* Stitch patterns 46 in mode 3 can also be used.

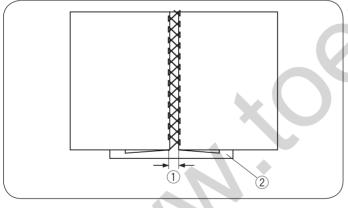
Use this stitch to join two pieces of fabric to create an open work appearance and add design interest.

Fold under each fabric edge 5/8" (1.5 cm) and press. Pin the two edges to paper or tear away backing 1/8" (0.3 to 0.4 cm) apart. Sew slowly, guiding the fabric so the needle

Satin stitch foot F

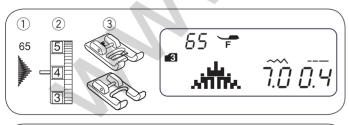
3 Start sewing. The machine will automatically stop after sewing one unit of the pattern.

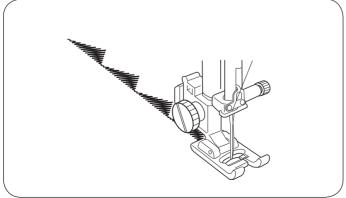




After finishing the sewing, tear away the paper. (1) 1/8" (0.3 to 0.4 cm) 2 Paper

catches the folded edge on each side.





Satin Stitches

- Mode 3:
- ③ Presser foot:

Satin stitch foot F

Custom crafted zigzag foot F2

65

* Stitch patterns 59 to 66 in mode 3 can also be used.

For better sewing results, stabilizer should be used on the wrong side of the fabric when you use stretch or elastic fabrics.

Press the auto-lock button to finish the end of the pattern.

(1) Stitch pattern:

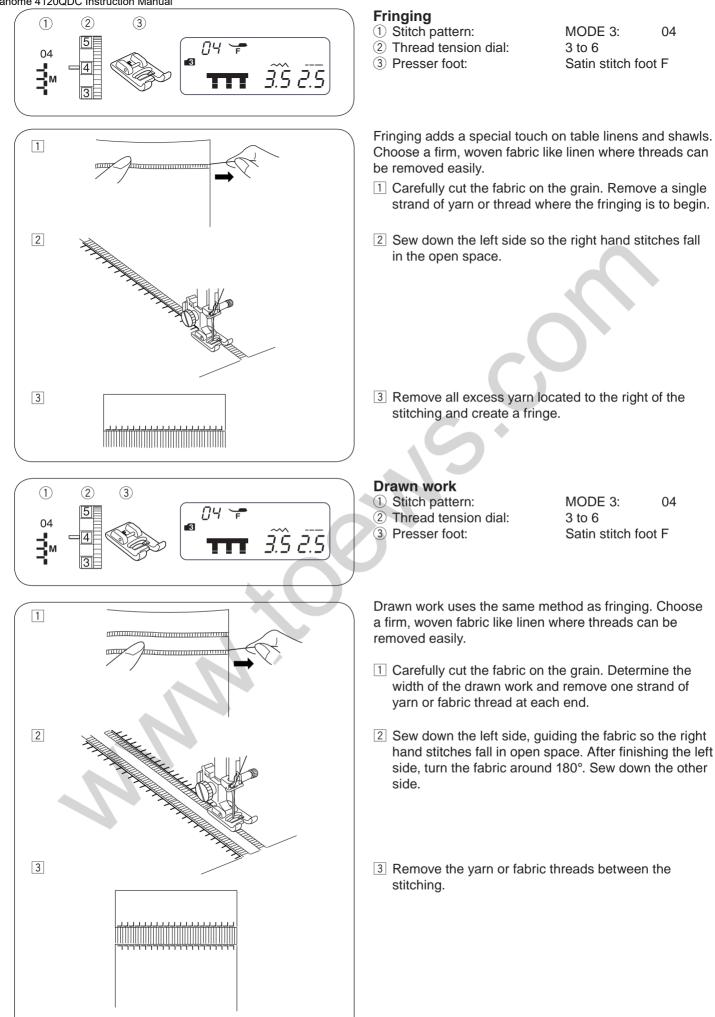
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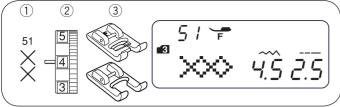
1 Stitch pattern:

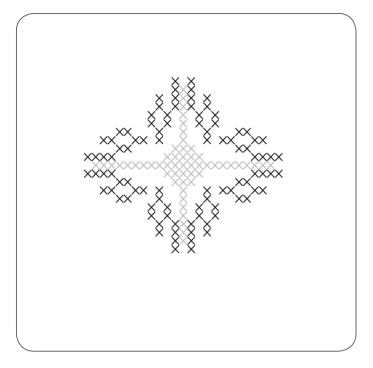
③ Presser foot:

(2) Thread tension dial: 3 to 6

(2) Thread tension dial: 3 to 6









- Stitch Pattern:
- 2 Thread tension dial: 3 to 6

③ Presser foot:

Mode 3: 51 3 to 6

- Satin stitch foot F
 - Custom crafted zigzag foot F2

You can make cross stitch designs with these patterns in half the time it would take if embroidered by hand.

* If you press the auto-lock button before sewing, the machine will sew one unit of the cross stitch and stop automatically.

Choose a plain close weave fabric such as linen or wool flannel for the background fabric. If you choose light weight fabric, use a tear away backing for support. Adjust the stitch width and length as you desire to match the pattern.

Find the center of the design, or if the design is a border, choose a starting point.

Count the cross stitches from the center up and program the number. Use auto-lock button to begin and end.



- Stitch Pattern:
- 2 Thread tension dial: 3 to 6
 3 Presser foot: Sating

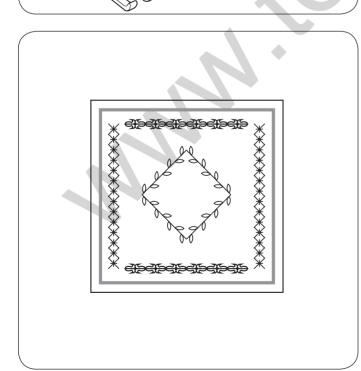
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- Satin stitch foot F
 - un Suich Iool F
- Custom crafted zigzag foot F2 * Stitch patterns 68 to 90 in mode 3 can also be used.

For the best sewing results, carefully align and guide the fabric when you sew with decorative stitches. Use a tear-way backing if necessary.

Mode 3:



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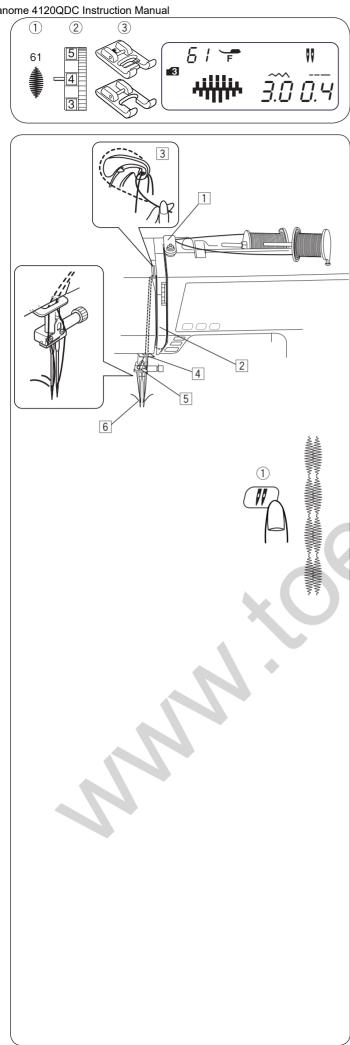
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Twin Needle Sewing

- 1) Stitch pattern: Mode 3: (2) Thread tension dial: 3 to 6
 - 61 (example)
- ③ Presser foot: Satin stitch foot F
 - Custom crafted zigzag foot F2

NOTES:

- · When you sew patterns with the twin needle, test the stitches before you begin to sew.
- Use zigzag foot A or satin stitch foot F for twin needle sewing.
- Turn off the machine before changing the needle.
- Replace the twin needle with a single needle when twin needle sewing is finished.

Starting to sew

Use the extra spool pin for twin needle sewing. Place two spools of thread as shown.

Draw both threads from the spools and thread them through the points from 1 to 6.

Make sure that the two strands of thread do not get tangled.

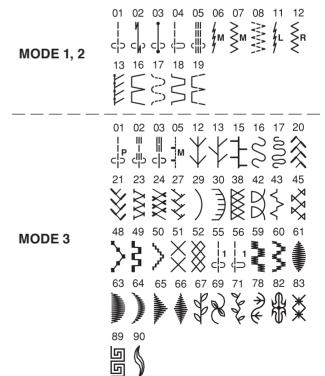
Turn the power switch on and select the desired pattern.

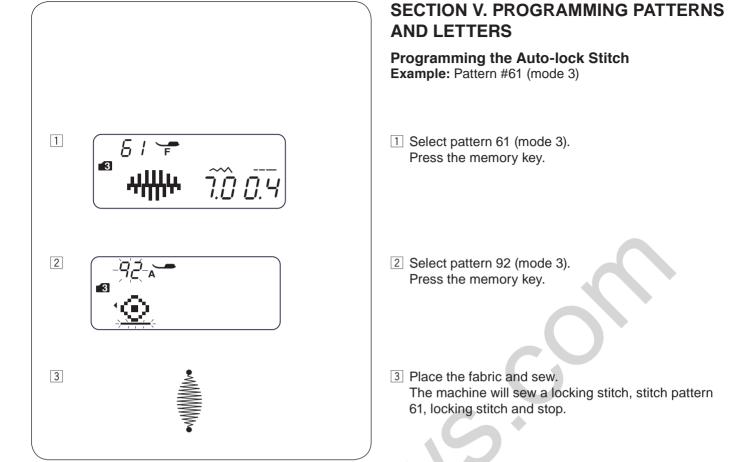
Press the twin needle button (1), draw the both threads to the back or left of the foot.

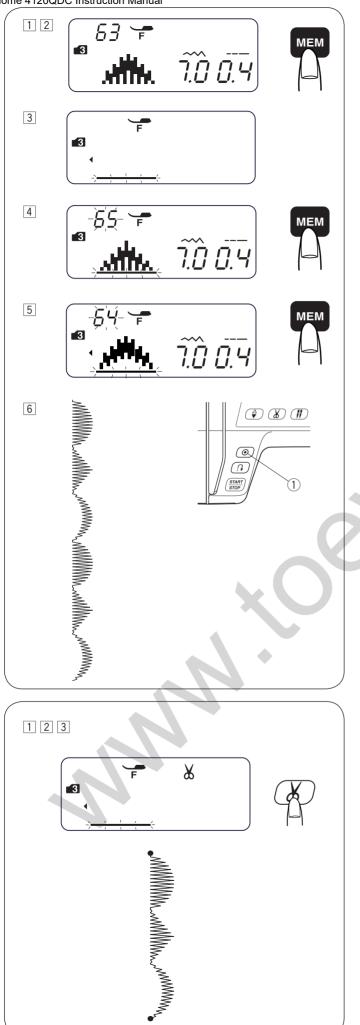
NOTES:

- When changing the sewing direction, raise the needle and turn the fabric.
- When you select stitch patterns not for twin needle sewing and press the twin needle button, the twin needle mark will blink on the LCD display and the caution buzzer sound.
- Stitch patterns cannot be memorized in the twin needle mode.
- Use the thread cutter on the face cover when trimming threads.
- Use thin threads #60 or larger number for the twin needle sewing.

Stitch Patterns for Twin Needle Sewing







Programming the Pattern Combination

Example: Patterns #63, #65 and #64 (mode 3)

- 1 Select pattern 63 (mode 3).
- 2 Press the memory key, and the stitch pattern 63 is memorized.
- 3 The LCD display shows only 1 character at a time. The memorized stitch pattern is shifted to the left side of the display and the cursor blinks.
- 4 Select pattern 65 (mode 3). Press the memory key.
- 5 Select pattern 64 (mode 3). Press the memory key.
- 6 A pattern combination series will be sewn. If you press the auto-lock button ① while the machine is sewing, the machine will sew the current pattern and locking stitch, then stop automatically.

NOTE:

Stitch patterns can be memorized up to 50 patterns.

Programming Auto-thread Cutting Example: Auto-thread Cutting with Patterns #63, #65 and #64 (mode 3)

- 1 Refer to procedure 1 to 5 on "Programming the Pattern Combination" above to enter the stitch patterns 63, 65 and 64.
- Press and hold the thread cutter button until the thread cutter mark appears on the LCD display.
- 3 Start sewing. A pattern combination series will be sewn and the machine will trim the threads automatically after locking stitch.

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- 3

Bridge Stitches

Patterns #55 to #58 ($\frac{1}{2} \frac{1}{2} \frac{1}{2}$) in mode 3 are bridge stitches which are used to insert straight stitches between stitch patterns.

The bridge stitches #57 and #58 use the stitch length and needle drop position of the previous pattern in the programmed pattern combination.

The needle drop position and stitch length of patterns $#55\frac{6}{4}$ (mode 3) and $#56\frac{6}{4}$ (mode 3) can be adjusted.

However, the needle drop position and stitch length of patterns #57 $\frac{5}{2}$ (mode 3) and #58 $\frac{5}{2}$ (mode 3) cannot be adjusted. The needle drop position and stitch length remain same as the previous pattern.

NOTE:

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Use bridge stitch patterns #55 or #56 when the stitch length of the previous stitch pattern is too fine (such as satin stitches).

Example: Patterns #22 and #57 (mode 3)

- 1 Select pattern 22 (mode 3).
- 2 Press the memory key.
- 3 Select pattern 57 (mode 3).
- 4 Press the memory key.

5 Start sewing. Two counts of straight stitch ① are inserted between the stitch pattern 22.

- To insert a space between patterns Example: Patterns #64 and #91
 - Select pattern 64 (mode 3).
 - 2 Press the memory key.
 - 3 Select pattern 91 (mode 3).
 - 4 Press the memory key.
 - 5 Start sewing. A 5 mm space will be inserted between the patterns.

| Spaces (Default stitch length) | | |
|--------------------------------|--|--|
| 5 mm | | |
| 2.5 mm | | |
| 3.5 mm | | |
| 5 mm | | |
| | | |

NOTE:

The space can be varied from 0.5 to 5.0 by adjusting its stitch length.

| | - | |
|--|---|--|
| | | |
| | | |
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Programming a Mirror Image Example: Patterns #64 (Mode 3) and its mirror image

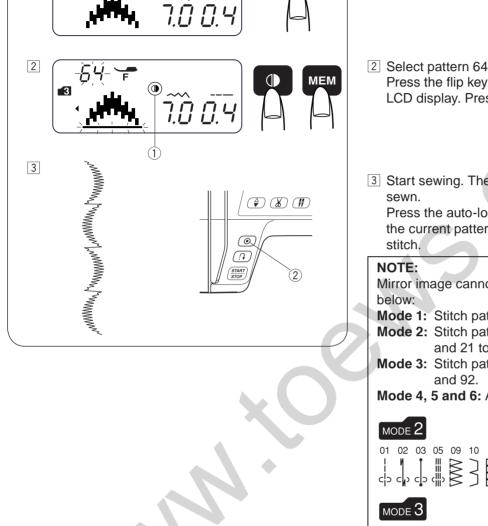
- 1 Select pattern 64 (Mode 3). Press the memory key.
- 2 Select pattern 64 (Mode 3). Press the flip key. The flip mark (1) will appear on the LCD display. Press the memory key.
- 3 Start sewing. The pattern combination series will be sewn.

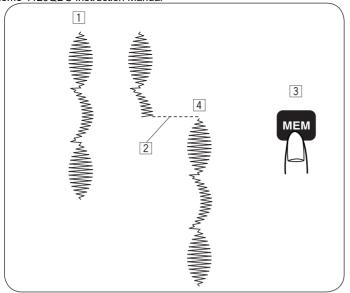
Press the auto-lock button 2. The machine will sew the current pattern and stop sewing with a locking

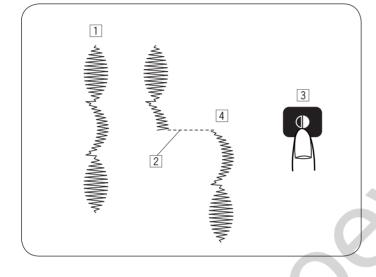
Mirror image cannot be applied to stitch patterns

- Mode 1: Stitch patterns 1, 2, 3, 5, 9 and 0.
- Mode 2: Stitch patterns 01, 02, 03, 05, 09, 10, 14, 15 and 21 to 30.
- Mode 3: Stitch patterns 01, 02, 03, 11, 55, 57, 58, 91 and 92.
- Mode 4, 5 and 6: All stitch patterns.

| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
|---|
| MODE 3 01 02 03 11 55 57 58 91 92 |
| $ \begin{array}{c c} & & \\ c $ |
| All stitch patterns. |







Sewing a Pattern Combination from the Beginning

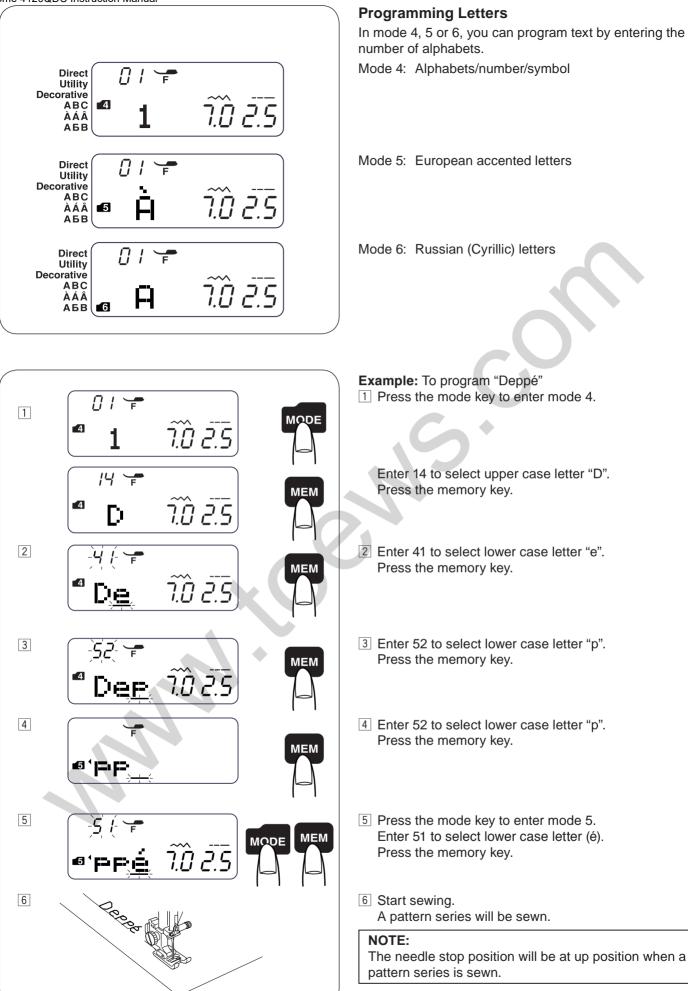
If you have to stop sewing a pattern combination and wish to sew it over again, press the memory key to sew the pattern combination from the beginning.

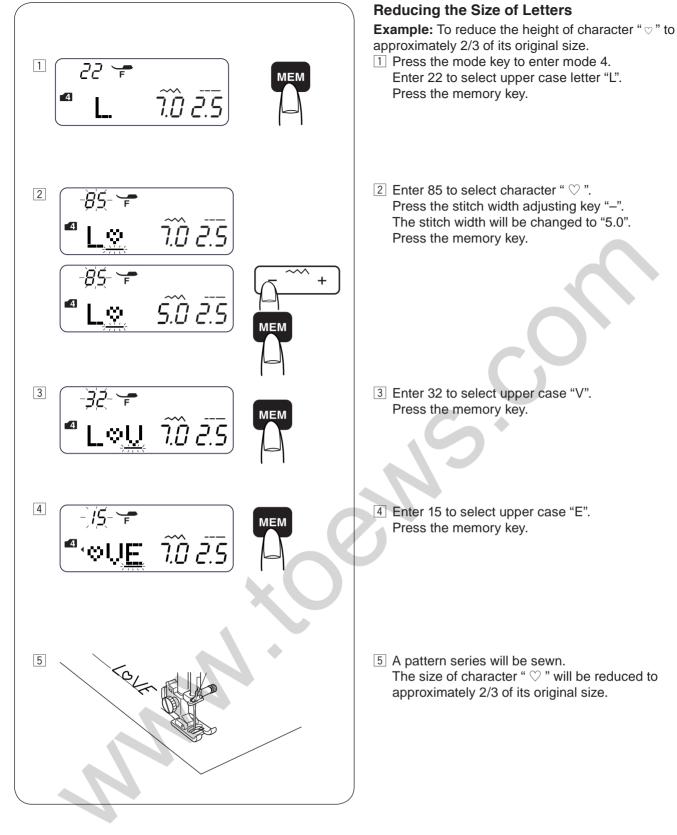
- 1 Programmed pattern combination.
- 2 Stop sewing.
- 3 Press the memory key.
- 4 Machine sews the pattern combination from the beginning.

Sewing the Current Pattern from the Beginning

If you have to stop sewing a pattern combination and wish to sew from the incomplete pattern, press the memory key to sew from the beginning of the pattern last sewn.

- 1 Programmed pattern combination.
- 2 Stop sewing.
- 3 Press the flip key.
- 4 Machine sews the pattern combination from the beginning.





[∎]∙U

7<u>.0</u> 7<u>.5</u>

(2)

<u>5.0</u>2.5

1.0 2.5

7.0 2.5

7.0 2.9

4

1

2

1

2

3

4

קח

82

our.

NUF

קח

Viewing a Long Text

The LCD display shows up to 3 characters at a time. If the entire text is not displayed, press the cursor keys to scroll the text.

- 1 Pressing the cursor key shifts the cursor and scrolls the text to the left.
- 2 Pressing the cursor key shifts the cursor and scrolls the text to the right.

NOTE:

The triangle marks (1) (2) indicate that there are remaining characters in that direction.

Deleting and Inserting a Letter (pattern)

- **Example:** To delete " \heartsuit " from "L \heartsuit VE" and insert "O" instead of " \heartsuit "
- $\fbox{1}$ Press the cursor key to move the cursor under the letter " \circlearrowright ".
- 2 Press the clear key.
- 3 Select pattern 25 "O".
- 4 Press the memory key. "O" is inserted between "L" and "V".

МЕМ

 Π

כח

4

4

1

2

Duplicating a Letter (pattern) Example: To duplicate "2" from characters "123"

4

МЕМ

7.0

2.5

25

۲

- 1 Move the cursor under the character "2".
- 2 Press the memory key to duplicate the character "2".

1 2 3 7.0 7.5 3 7.D 2.S 4 7.0 2.5 5 + - 3 7.0 2 3 2 6 6 (3) (4) 2

Stitch Adjustment of Programmed Patterns

The stitch width and length of the programmed stitch pattern can be altered uniformly or individually.

Example: To alter the stitch width uniformly.

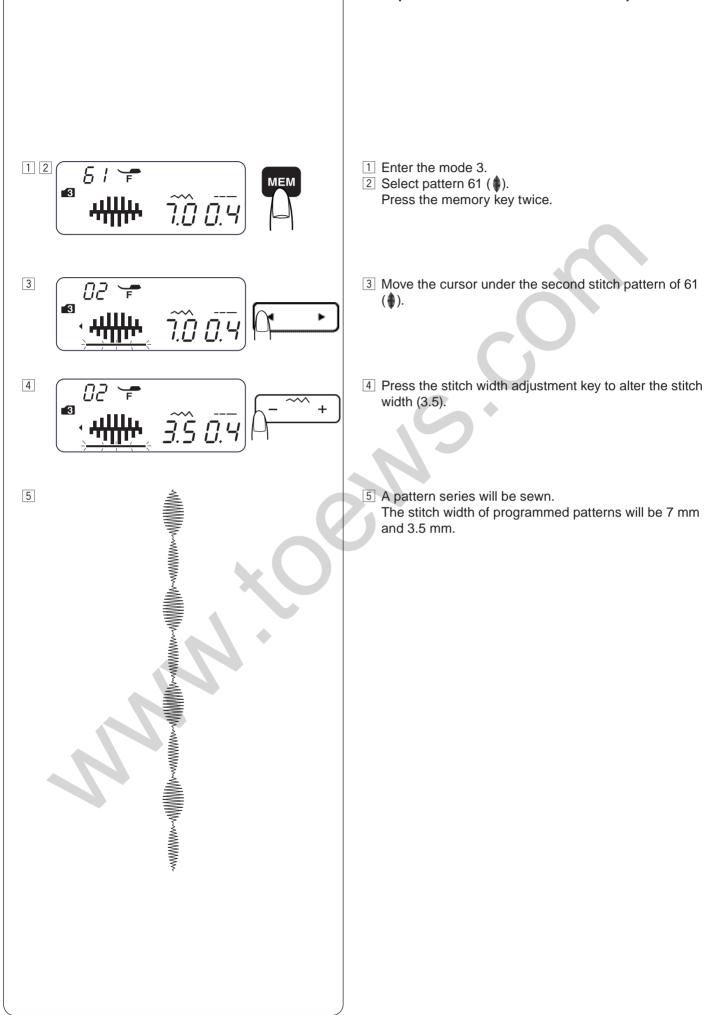
- 1 Enter the mode 3. 73
- 2 Select pattern 73 ([⊗]_☉). Press the memory key.
- 3 Select pattern 73 ($\bigotimes_{k=1}^{73}$).
- Press the flip key.Press the memory key.
- Move the cursor to the right of the last programmed pattern.
 Press the stitch width adjustment key to alter the stitch width (5.0).
- 6 A pattern series will be sewn. The stitch width of programmed patterns will be uniformly altered.

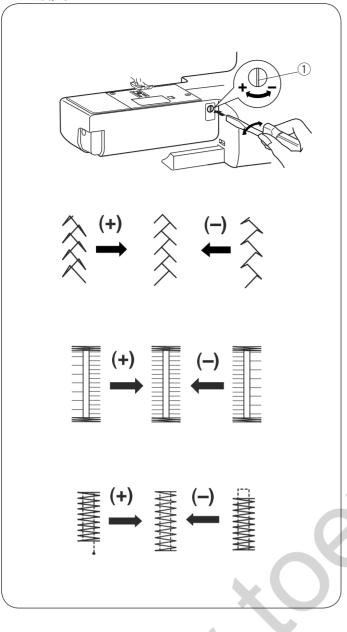
Unified needle drop position

The needle drop position of the programmed patterns will vary depending on the combination:

- (1) Unified to the left when combining the patterns with the left needle position $(\overset{73}{\textcircled{0}})$ and the center needle position $(\overset{73}{\textcircled{0}})$.
- (2) Unified to the right when combining the patterns with the right needle position ($\overset{\circ}{\&}$ flipped) and the center needle position ($\overset{\circ}{\&}$).
- ④ Unified to the center when combining the patterns with the left (
 [™]), right (
 [™]) flipped) and center needle positions (
 [™]).

Example: To alter the stitch width individually





Correcting Distorted Stitch Patterns

The sewing results of the stretch patterns may vary depending upon the sewing conditions, such as sewing speed, type of fabric, number of layers etc.

Always test sew on a scrap piece of the fabric that you wish to use.

If stretch patterns are distorted, correct them with the feed balancing dial.

1 Feed balancing dial

• Stretch stitch pattern (Example: stitch pattern 20 If the pattern is compressed, turn the feed balancing dial in the direction of "+".

If the pattern is drawn out, turn the feed balancing dial in the direction of "--".

Stitch balance of buttonhole 26

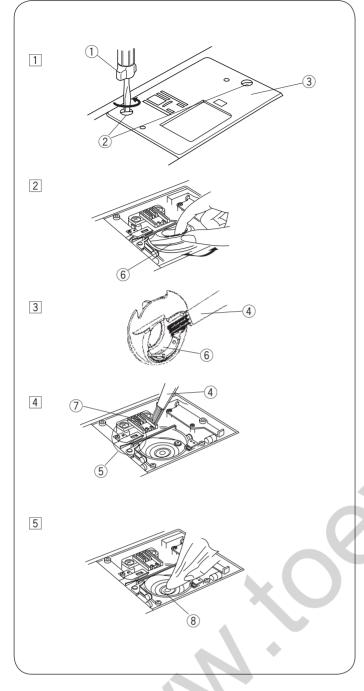
If the right row is denser, turn the feed balancing dial in the direction of "+".

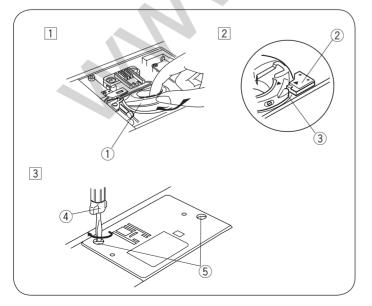
If the left row is denser, turn the feed balancing dial in the direction of "-".

Evenness of tacking

If the stitch does not meet the start position, turn the feed balancing dial in the direction of "+".

If the stitch does not meet the return position, turn the feed balancing dial in the direction of "–".





SECTION VI. CARE OF YOUR MACHINE Cleaning the Hook Race and Feed Dog

•Turn the power switch off and unplug the machine before cleaning.

•Do not dismantle the machine other than as explained in this section.

Do not store the machine in a high-humidity area, near a heat radiator, or in direct sunlight.

NOTE:

Clean the outside of the machine with a soft cloth and neutral soap.

After cleaning the machine, make sure the needle and presser foot are attached.

Press the needle up/down button to raise the needle, then unplug the sewing machine. Remove the needle and presser foot.

- 1 Remove the setscrews 2 on the left hand side of the needle plate 3 with the screwdriver 1 supplied with the machine. Remove the needle plate 3.
- 2 Remove the bobbin. Lift up the bobbin holder (6) and remove it.
- $\fbox Clean the bobbin holder \textcircled{6} with a lint brush \textcircled{4}.$
- Clean the feed dog ⑦, thread cutter mechanism ⑤ and hook race ⑧ with the lint brush.
- 5 Clean the center of the hook race with a dry cloth.
 - ① Screwdriver
 - 2 Setscrews
 3 Needle plate
 - Weedle pla
 (4) Lint brush
 - 5 Thread cutter mechanism
 - 6 Bobbin holder
 - 7 Feed dog
 - ⑧ Hook race
- * You may also use a vacuum cleaner.

Installing the Bobbin Holder

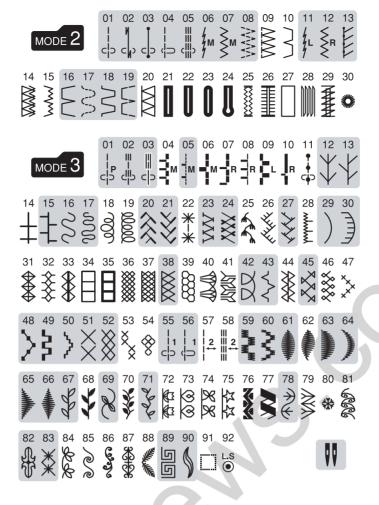
- $\fbox{1}$ Insert the bobbin holder $\fbox{1}$ so that the knob 3 fits next to the stopper 2 on the hook race.
- 2 Insert the bobbin.
- 3 Attach the needle plate with the setscrews 5. After cleaning the machine, make sure the needle and presser foot are attached.
 - 1) Bobbin holder
 - 2 Stopper
 - ③ Knob
 - (4) Screwdriver
 - (5) Setscrews

| Cause | Try this |
|--|---|
| The machine will not sew with the start/stop button because the foot control is connected. | Disconnect the foot control and start the machine. |
| The machine will not sew because the presser foot is not lowered. | Lower the presser foot lifter and restart the machine. |
| A buttonhole is sewn without lowering the buttonhole lever. | Lower the buttonhole lever and restart the machine. |
| The bobbin winder spindle is moved to the right. | Move the bobbin winder spindle to the left. |
| The machine is restarted too soon after it has halted due to the overload. | Wait for at least 15 seconds to restart. If threads are jamming, remove the jammed threads. |
| Auto thread cutting error due to a problem in the electronic components or tangled in hook area. | Remove the jammed threads in the hook area. If the error occurs again after cleaning the hook area, contact the service center or the store from where the machine was purchased. |
| | The machine will not sew with the start/stop button because the foot control is connected. The machine will not sew because the presser foot is not lowered. A buttonhole is sewn without lowering the buttonhole lever. The bobbin winder spindle is moved to the right. The machine is restarted too soon after it has halted due to the overload. Auto thread cutting error due to a problem in the electronic components or tangled in hook |

| Audible signal | The buzzer sounds when: |
|----------------|-----------------------------|
| Pip | Normal operation |
| Pip-pip-pip | Invalid operation |
| Pip-pip-peep | Buttonhole sewing completed |
| Реер | Malfunction |

| Condition | Cause | Reference |
|--------------------------|--|--------------------------|
| The needle thread | 1. The needle thread is not threaded properly. | See page 15, 16 |
| breaks. | 2. The needle thread tension is too tight. | See page 20, 21 |
| | 3. The needle is bent or blunt. | See page 11 |
| | 4. The needle is incorrectly inserted. | See page 11 |
| | 5. The needle thread and the bobbin thread are not set under the | See page 17 |
| | presser foot when start sewing. | |
| | 6. The threads were not drawn to the rear after sewing. | See page 22 |
| | The thread is either too heavy or too fine for the needle. | See page 11 |
| | | |
| The bobbin thread | 1. The bobbin thread is not threaded properly in the bobbin holder. | See page 14 |
| breaks. | Lint has collected in the bobbin holder. | See page 61 |
| broaks. | 3. The bobbin is damaged and doesn't turn smoothly. | Replace the bobbin. |
| | 4. The thread is wound loosely on a bobbin. | See page 13 |
| The needle breaks. | 1. The needle is incorrectly inserted. | See page 11 |
| | 2. The needle clamp screw is loose. | See page 11 |
| | 3. The threads were not drawn to the rear after sewing. | See page 22 |
| | 4. The needle is too fine for the fabric being used. | See page 11 |
| | 5. The presser foot is not appropriate for the stitch pattern being sewn. | Change the presser |
| | | foot. |
| | 4. The people is incompatibly incomford, how to a blue t | |
| Skipped stitches | 1. The needle is incorrectly inserted, bent or blunt. | See page 11 |
| | 2. The needle and/or threads are not suitable for the work being sewn. | See page 11 |
| | 3. A Blue Tipped needle is not being used for sewing stretch, very fine | See page 11 |
| | fabrics and synthetics. | |
| | 4. The needle thread is not threaded properly. | See page 15, 16 |
| | 5. A poor quality needle is used. | Change the needle. |
| | | |
| Seam puckering | 1. The needle thread tension is too tight. | See page 20, 21 |
| 1.1.1 | 2. The needle thread is not threaded properly. | See page 15, 16 |
| | 3. The needle is too heavy for the fabric being sewn. | See page 11 |
| | 4. The stitch length is too long for the fabric. | Make the stitches shorte |
| | XU | |
| The cloth is not feeding | The feed dog is packed with lint. | See page 61 |
| smoothly. | 2. The stitches are too fine. | Make the stitches longer |
| | 3. The feed dog is not raised after "drop feed" sewing. | See page 10 |
| Stitches form loops | 1. The needle thread tension is too loose. | See page 20, 21 |
| below the works. | 2. The needle is either too heavy or too fine for the thread. | See page 11 |
| The machine does not | | |
| work. | 1. The machine is not plugged in. | See page 4 |
| WOIK. | 2. Thread has been caught in the hook race. | See page 61 |
| | 3. The bobbin winder spindle is not returned to the left after bobbin | See page 13 |
| | winding. | |
| Buttonhole sewing is not | 1. The stitch density is not suitable for the fabric being sewn. | See page 37 |
| sewn properly. | 2. Suitable interface material has not been used for the stretch or | Use an interfacing. |
| | synthetic fabric. | |
| The machine does not | 1. Thread has been caught in the hook race. | See page 61 |
| run smoothly and is | 2. Lint has built up in the hook race or bobbin holder. | See page 61 |
| | | |

Stitch Chart



MODE 4 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 J K L M N O P Q R S T U V W X Y Z a b c d e f 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 g h i j k l m n o p q r s t u v w x y z . & ? 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 97 98 99 ! - , ': <> () = $+ / \% \sim // @ \downarrow \% \%$

MODE 5 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 **A** A A A A A A A A E C E E E E I I I I N O O20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 **O** O O O U U U U B A C E G I IJ L N CE S Z Z a43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 a a a a a e c e e e i I I I n O O O O O O O U66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 U U U B a c e g I IJ L N CE S Z Z

МОДЕ 6 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 АБВГҐДЃЂЕЄЁЖЗЅИІЇЙЙЙ 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 ЈКЛЉМНЊОӨПРСТЋУЎФХЦЧЦШЩ 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 ЪЫЬЭЮЯабвгґд́т, всёжз сиії 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 ййјклљмнњоепрстћуўфхцчц 89 90 91 92 93 94 95 96 97 98 99 ШЩЪЫЬЭЮЯІ www.

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