

COMPUTER SEWING MACHINE

HZL-DX series

INSTRUCTION MANUAL



Please read this instruction manual before using the machine as it contains important operational and safety information. Keep this manual accessible so that you may refer to it at anytime while operating the machine.

"IMPORTANT SAFETY INSTRUCTIONS"

When using an electrical appliance, basic safety precautions should always be followed, including the following: Read all instructions before using this sewing machine.

"DANGER _____ To reduce the risk of electric shock:"

- 1. The appliance should never be left unattended when plugged in.
- 2. Always unplug this appliance 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 this appliance to be used as a toy. Close attention is necessary when this appliance is used by or near children. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- 2. Use this appliance only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
- 3. Never operate this appliance if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the appliance to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
- 4. Never operate the appliance with any air openings blocked. Keep ventilation openings of the sewing machine and foot control free from the accumulation of lint, dust, and loose cloth.
- 5. Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- 6. Always use the proper stitch plate. The wrong plate can cause the needle to break.
- 7. Do not use bent needles.
- 8. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- 9. Switch the sewing machine off "O" when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot.
- 10. Always unplug the machine from the electrical outlet when removing covers, when lubricating or when making any other user servicing adjustments mentioned in the instruction manual.
- 11. Never drop or insert any object into any opening.
- 12. Do not use outdoors.
- 13. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- 14. To disconnect, turn all controls to the off "O" position, then remove plug from outlet.
- 15. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- 16. Basically, the machine should be disconnected from the electricity supply when not in use.
- 17. If the power cord of this appliance is damaged, it must be replaced with a special cord by your nearest authorized dealer or service center.
- 18. (Except USA/Canada) This machine is provided with double insulation. Use only identical replacement parts. See instructions for servicing Double-Insulated machine.

"SERVICING DOUBLE-INSULATED PRODUCTS"

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

The symbol 🔲 may also be marked on the product.

"SAVE THESE INSTRUCTIONS"

"This sewing machine is intended for household use only."

Congratulations on your purchase of a JUKI sewing machine.

Please be sure to read safety precautions in "To use the sewing machine safely" in the Instruction Manual before use to fully understand the functions and operating procedures of the sewing machine so as to use the sewing machine for a long time.

After you have read the Instruction Manual, please be sure to keep it together with the warranty so that you can read it whenever necessary.

To use the sewing machine safely

Marks and pictographs included in the Instruction Manual and shown on the sewing machine are used so as to ensure safe operation of the sewing machine and to prevent possible risk of injury to the user and other people.

Warning marks are used for different purposes as described below.

| Indicates that there is a possible risk of death or serious injury if this mark is ignored and the sewing machine is used in a wrong manner. |
|---|
| Indicates the operation, etc. which can cause a possible risk of person- al injury and/or physical damage if this mark is ignored and the sewing machine is used in a wrong manner. |

Pictographs mean the following:

| \bigwedge | Danger warning which is not specified | There is a risk of elec- trical shock | There is a risk of fire | There is a risk of injury to hands, etc. |
|-------------|---|--|--|---|
| \bigcirc | Prohibit- ed matter which is not specified | Disas- sembly/ alteration is prohibited | Do not place fin- gers under the needle | Do not pour oil, etc. |
| 0 | Generally required behavior | Disconnect the power plug | | |

A WARNING

For the combination of the material and the thread and needle, in particular, refer to the explanation table in "Replacement of the needle".

If the needle or thread does not match the material used such as in the case that an extra heavyweight material (e.g., denim) is sewn with a thin needle (#11 or higher), the needle can break resulting in an unexpected personal injury.

Other precautions

Do not put the sewing machine under the direct sunlight or in a humid place.
 Do not wipe the sewing machine with solvent such as thinner.
 When the sewing machine is soiled, put a small quantity of neutral detergent on a piece of soft cloth and carefully wipe off the sewing machine with it.

Be aware that the following state can take place since the sewing machine incorporates semi-conductor electronic parts and precise electronic circuits.

• Be sure to use the sewing machine in the temperature range from 5°C to 40°C.

If the temperature is excessively low, the machine can fail to operate normally.



• The safety device of the sewing machine will work to stop the sewing machine in order to prevent the generation of abnormal heat in the case the sewing machine is continuously engaged in sewing at a low sewing speed for a long time or it is continuously engaged in sewing for a long time under the high temperature environment. In this event, Start and Stop button will not light.

The sewing machine will return to working condition after about 10 minutes.



* The operating temperature of the sewing machine is between 5°C and 40°C. Do not use the sewing machine under the direct sunlight, near the burning things such as a stove and candle, or in a humid place. By so doing, the temperature in the interior portion of the sewing machine can rise or the coating of the power cord can melt, causing fire or electrical shock.

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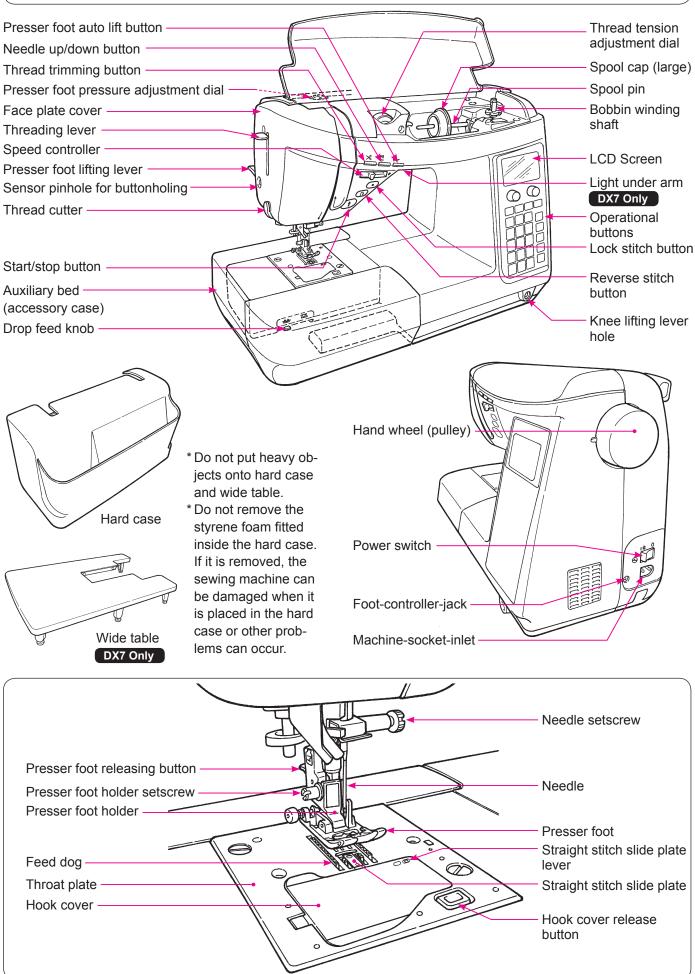
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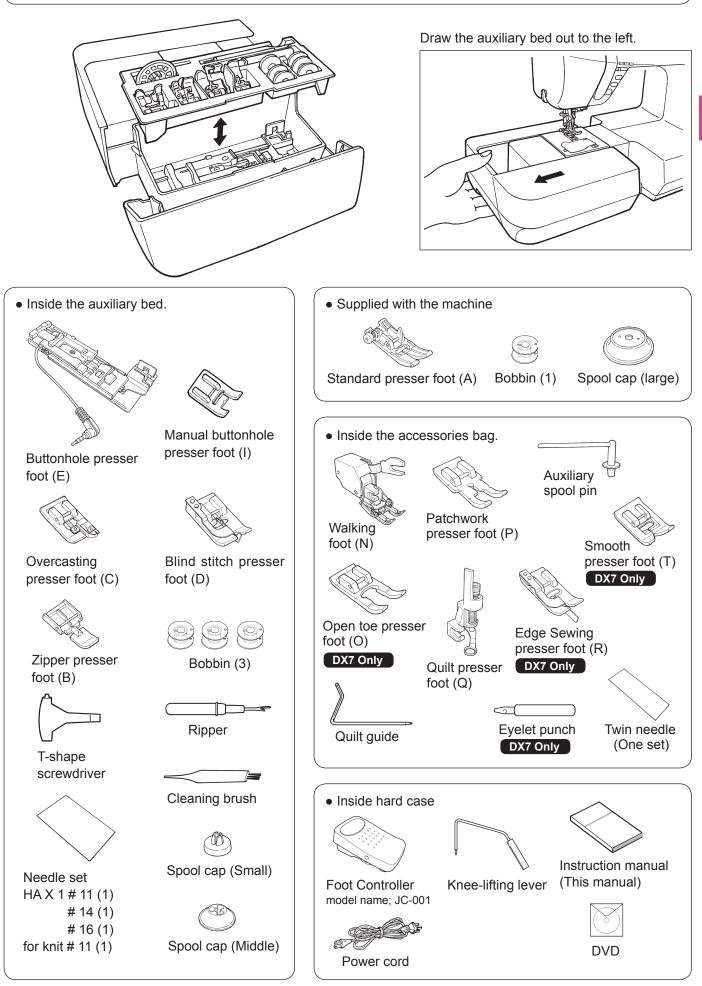
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Principal parts



Accessories



Connecting to the power supply

A WARNING

 Disconnect the plug and turn off the power switch (turn to "O") that always sewing machine is not to use.

Be aware that the presser foot comes down automatically if you turn the power ON with the presser foot lifted.

★ Operating power switch:

Turn OFF the machine, set the power switch to "0" Turn ON the machine, set the power switch to "I"

WARNING (For U.S.A., Canada only)

This appliance has a polarized plug (one blade wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way.

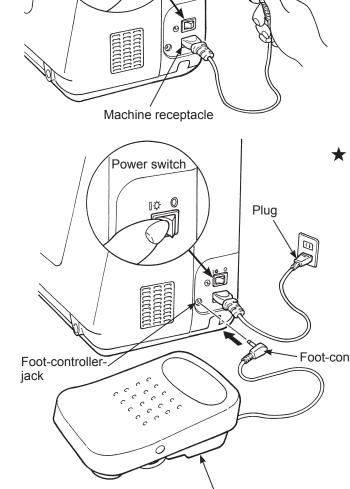
★ Not-using foot-controller that using start/stopbutton:

- 1. Turn OFF the power switch (turn to "O")
- 2. Insert cord-connector into machine-socket-inlet.
- 3. Insert plug into socket-outlet.
- 4. Turn ON the power switch. (Turn to "I")

★ Using the foot-controller: 1. Turn OFF the power switch (turn to "O")

- 2. Insert the foot-controller-plug into the foot-controller-jack.
- 3. Insert cord-connector into machine-socket-inlet.
- 4. Insert plug into socket-outlet.
- 5. Turn ON the power switch. (Turn to "I")
- When the foot controller is plugged in, the start/stop button cannot be used to start sewing. Start button: Can not operate to start sewing. Stop button: Can operate to stop sewing.

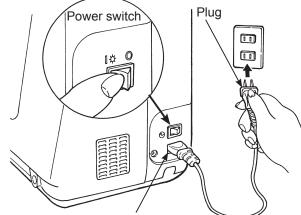
Foot-controller-plug



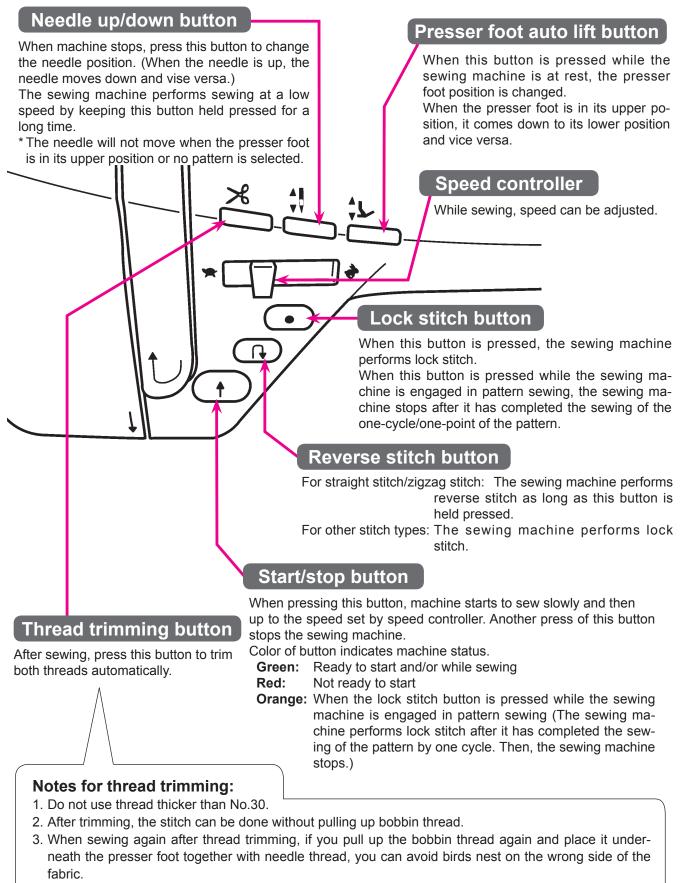
Foot controller







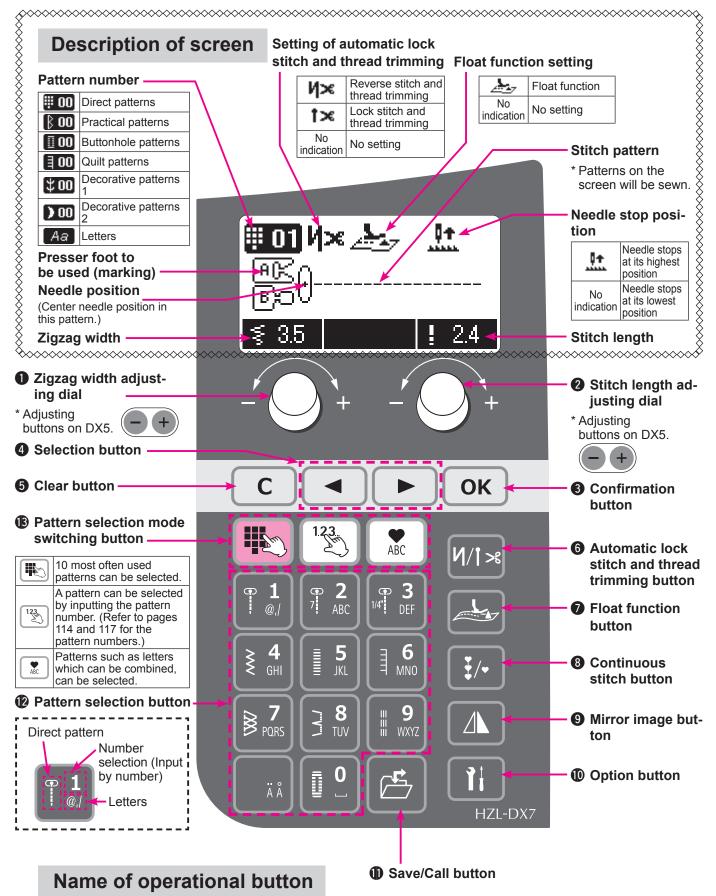
Function of operational buttons



4. Regularly clean the machine (refer to page 111), as dust in the area of the thread trimming unit may cause malfunction.

Name and function of other operational buttons

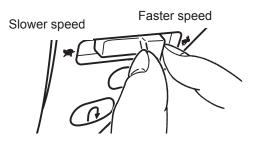
Operational buttons and screen



| • | | Zigzag width adjustment dial | This is used to change the zigzag width and the needle position. |
|----|--|--|--|
| U | - 9 + | * Adjusting buttons of | on DX5+ |
| 2 | | Stitch length adjustment dial | This is used to change the stitch length. In the case of the free motion, this dial is used for adjusting the presser foot height. |
| U | | * Adjusting buttons of | on DX5+ |
| 3 | ОК | Confirmation button | This is used to confirm the selected stitch pattern and/or settings. |
| 4 | | Selection button | This is used to move the cursor. |
| 5 | С | Clear button | This is used to delete the selected stitch pattern and to cancel each setting. When pressing the button continuously, all the saved stitch patterns will be deleted. |
| 6 | И/1> в | Automatic lock stitch and thread trimming button | When this button is pressed, $H \times$ or $f \times$ is displayed on the screen. The machine will automatically lock stitches at sewing-start and sewing-end and then trim both threads. |
| 7 | | Float function button | When this button is pressed, is displayed on the screen. When using the float function, the sewing machine performs sewing with its presser foot slightly lifted. This function is used in the case of sewing materials such as velvet or sewing quilt- ing that is likely to cause cloth slippage between two layers. Another press on this button cancels this function. (Refer to page 92 for more details.) |
| 8 | ¥/• | Continuous stitch button | This button is valid only when " (Continuous stitch with large intervals) is displayed on the screen. When this button is pressed again, (Continuous stitch with small intervals) is displayed on the screen. (The interval between letters and figures cannot be changed.) The machine will sew the selected stitch patterns continuously. When it is pressed again, the machine will cancel this function. * When it is pressed while sewing, the machine will stop after the selected patterns are sewn completely. |
| 9 | | Mirror Image button | After selecting a stitch pattern, press this button to make a mirror image of the selected pattern. * There are some patterns that can not make a mirror image. * For the symmetric pattern, the sewing start position is changed and ▼ is displayed. |
| D | Ĩi | Option button | Optional functions (19 functions) can be set. * Optional functions vary from stitch pattern to stitch pattern. (Refer page 83 for more details.) |
| 0 | | Save/call button | This is used to save and/or call a pattern. The machine can save maximum 10 patterns. (Refer to page 80 for more details.) |
| 12 | IF 1/1 IF 2/2 IF 3/2 IE 0/1 IE 5/2 IE 0/0 IE 5/2 1/2 IE 0/0 IE 5/2 1/2 IE 0/0 IE 1/2 1/2 1/2 0/0 IE 1/2 1/2 1/2 0/0 IE 1/2 1/2 1/2 0/0 | Pattern selection button | A stitch pattern can be selected. * Usage of the buttons varies by pattern selecting mode. (Refer to page 31 and 34 for more details.) |
| B | 123 ABC | Pattern selection mode switching button | When the pattern selection mode needs to be changed, press the desired button. The selected button will be illuminated. |

Speed control

How to adjust the speed:



★ Speed controller

Maximum sewing speed can be freely set by the speed controller.

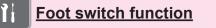
★ Foot controller

To run the machine, press the foot controller. The harder you press, the faster the machine sews. Speed controller will set the maximum sewing speed.

Pressing harder \rightarrow faster speed Pressing weaker \rightarrow slower speed

* Always clean the foot controller.

It is important that you do not place any objects on the foot controller as it may cause injury to the user and may cause malfunctions.



The sewing machine can be set to carry out one of the following operations when the front section of the foot controller is depressed:

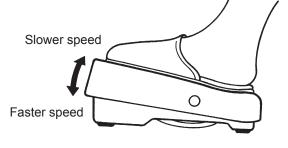
- 1 Reverse stitch
- 2 Lock stitch3 Half stitch sewing

④ One stitch sewing

(Refer to page 89)

- (5) Presser foot lift(6) Thread trimming
- 7 No function

This function has been factory-set to "① Reverse stitch" at the time of shipment.



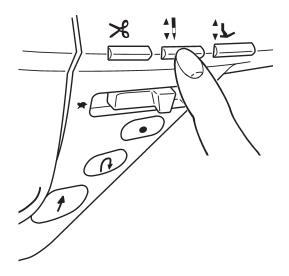


★Adjustable starting stitch speed



The sewing speed at the start of sewing can be increased by using the option button.

(Refer to page 95)



★Low-speed inching sewing

When the needle up/down switch is held pressed, the sewing machine performs sewing at a low speed.



★Adjustable reverse stitch speed



The reverse stitch speed can be increased by using the option button.

(Refer to page 96)

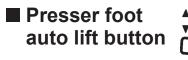
Lifting/lowering of the presser foot

Automatic presser foot of the sewing machine automatically goes up slightly when the sewing machine stops. (Presser foot pivot function) When the sewing machine is re-started, the presser foot comes down automatically to allow the user to start sewing with no additional operation. When the thread trimming button is pressed, the presser foot automatically goes up af-

ter the completion of thread trimming.

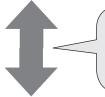
This function can be set to OFF using the option button.

In addition, when the needle stop position is set to "Stop with its needle up", the presser foot pivot function is automatically set to OFF.



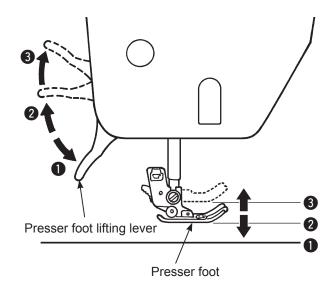
The presser foot can be lifted/lowered by pressing the presser foot auto lift button.

(Refer to page 9)



The presser foot auto lift button and the presser foot lifting lever are interoperable. When the presser foot lifting lever is once lifted to position ③ after the presser foot has been lifted with the presser foot auto lift button, the presser foot lifting lever can be used for lifting/lowering the presser foot.

Presser foot lifting lever



The presser foot is lifted/lowered with the presser foot lifting lever.

The presser foot can be lifted higher than the ordinary lift position. This feature is useful when placing a heavy-weight material on the sewing machine.

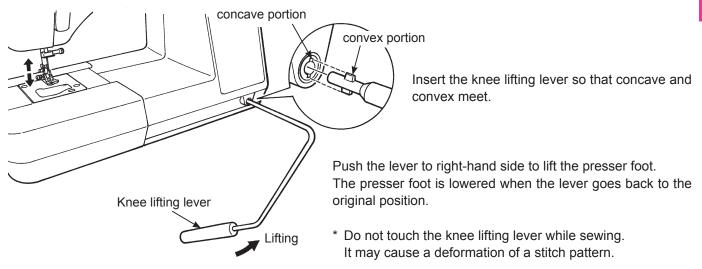
Even after the presser foot has been lifted with the presser foot lifting lever, the presser foot can be lowered with the presser foot auto lift button.

| Lowered position Presser foot should be lowered |
|---|
| when sewing. |
| Ordinary lift position This position is used for fabric |
| removal and/or changing the |
| presser foot. |
| Sextra lift position This position is used to put heavy |
| materials underneath the presser |
| foot. |

* Be careful that the presser foot and the needle should not interfere when the needle is in down position and the presser foot is raised to the extra lift position.

■ Installation of knee lifting lever

The knee lifting lever is useful when a guilt is being sewn and for other projects that require the use of both hands. With the knee lifting lever, you are able to control the position of the presser foot without using your hands.



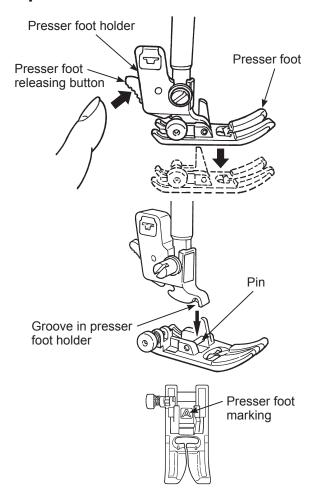
■ Foot switch function

Optional function can be set so that the presser foot can be lifted/lowered by depressing the front part of the foot controller.

(Refer to page 89)

Changing the presser foot

Removing and installing the presser foot



Attention

Turn OFF the power before replacing presser foot.

⁵ Do not lift the presser foot with the presser foot auto lift button before turning the power OFF.

★ Removing presser foot

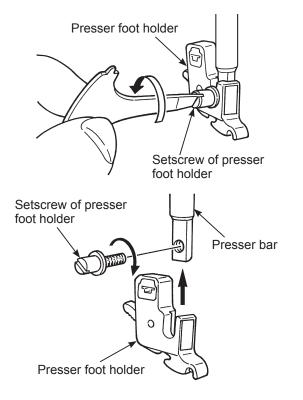
- 1. Raise the needle and presser foot.
- 2. Press the presser foot releasing button to remove the presser foot.

★ Installing presser foot

Align the pin of the presser foot and the groove in the presser foot holder. Then lower the presser foot holder with the presser foot lifting lever.

* Each presser foot has a marking. Use the appropriate presser foot for the stitch pattern to be sewn.

Removing and installing presser foot holder



★ Removing presser foot holder

- 1. Lift the needle and presser foot lifting lever.
- 2. Loosen the setscrew of the presser foot holder to the left and remove the presser foot holder.

★ Installing presser foot holder

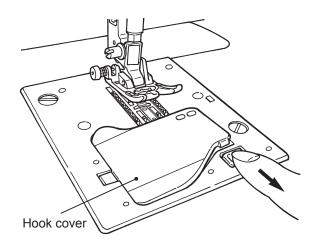
Align the screw hole at the presser bar with the hole of presser foot holder (long groove). Tighten the setscrew firmly by turning it to the right side.

■ The type and application of the presser foot

| Marking of presser foot | | | | |
|-------------------------|---|---|---|--|
| 2 | Standard presser oot | A | This is used mainly for straight stitch and zigzag stitches. Use this presser foot especially when sewing heavy-weight materials. | |
| z | Zipper presser foot | В | This is used to attach zippers. | |
| | Overcasting presser oot | С | This presser foot is used exclusively for overcasting to prevent the cut edge of fabrics from fraying. | |
| | Blind stitch presser oot | D | This presser foot is used for blind stitch on hems of trousers and skirts, or sleeves. | |
| - | Buttonhole presser oot | Ε | This presser foot is used for automatic buttonholing. | |
| | Manual buttonhole presser foot | I | This is used for sewing decorative stitches, letters and bartacks. Also for manual buttonhole (pattern No. 03). | |
| | Walking foot | N | In general, this presser foot is used for difficult-to-feed" materi- als such as knits, jersies, vinyl, artificial leather and leather or quilting. | |
| | Patchwork presser oot | Ρ | This presser foot is used for patchwork stitches. There are two seam lines, 1/4-inch and 1/8-inch from center needle position. | |
| | Smooth presser oot DX7 Only | т | This presser foot is used for non-slippery materials like vinyl and satin stitches. | |
| | Dpen toe presser oot DX7 Only | 0 | This is used for the applique and decorative stitches. (Front part of the presser foot is open for better visibility.) | |
| C | Quilt presser foot | Q | This is used for the quilt stitch. (Machine setting: Straight Stitch and Center needle position) Refer to page 72 for more details. | |
| | Edge Sewing presser foot DX7 Only | R | This is used for patchwork, sewing center line of joined materials by using the center guide of the presser foot. * Fine tune the needle position by zigzag width adjustment dial. | |

Bobbin thread preparation

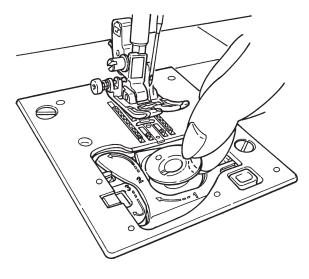
Taking out the bobbin



Attention

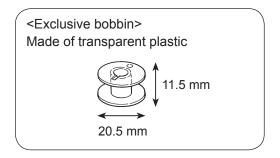
When the bobbin is taken out and/or put into the bobbin case, turn off the power (turn to "O").

Open the hook cover.

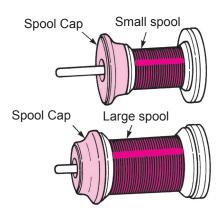


2 Take out the bobbin.

- * If the bobbin has too little thread, do not use it as the thread will get tangled.
- * Use only the designated bobbin. Other bobbins may cause malfunction.



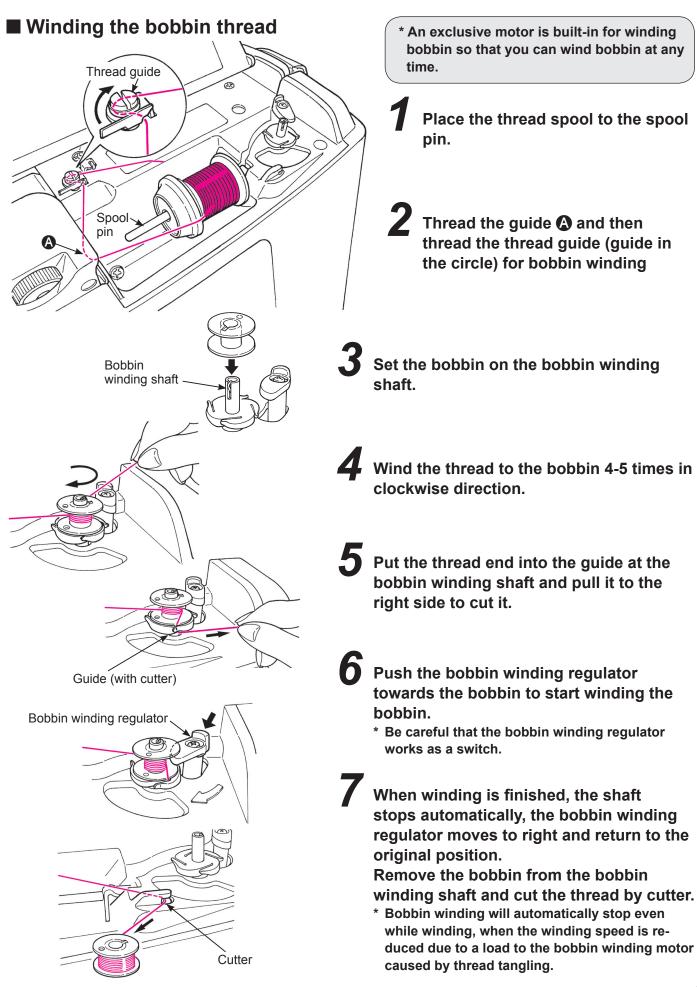
Setting thread spool



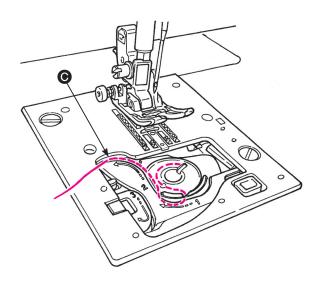
Place a thread spool to spool pin and a spool cap onto the spool pin.

* Be aware that a spool with a small remaining amount of thread can cause tangling or slip-off of thread.

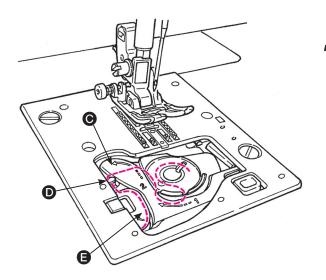
There are three types of the spool caps, large, medium and small. Choose the size of spool cap according to the thread spool to be used.



Setting the bobbin When the bobbin is taken out and/or put into the bob-**Attention** bin case, turn off the power (turn to "O"). Put the bobbin in the bobbin case. \bigcirc * Place the bobbin so that thread winds counterclockwise. f 2 Thread groove (A) and (B) by pulling the thread end. * It will be easier to thread grooves when you press the bobbin lightly with your finger. B



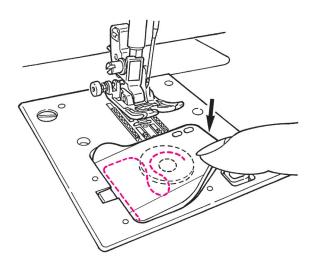
Thread guide **O** by pulling the thread to left side.



4 Thread to guide **●** and **ອ** leave the thread underneath. (Thread guide **ອ** first and it will thread to guide **●** as well.)

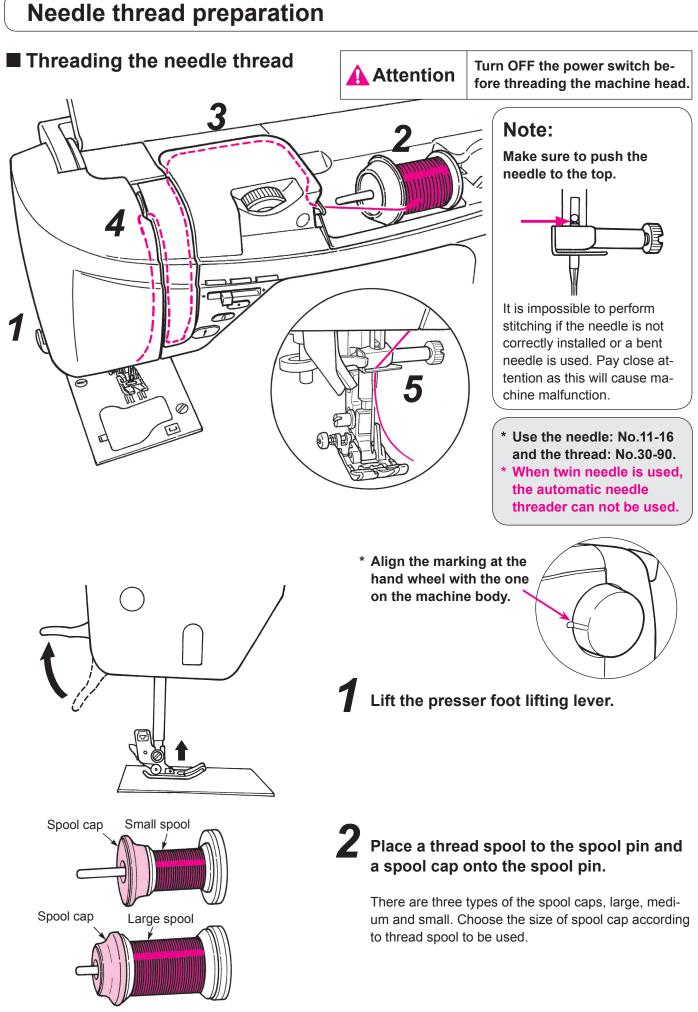
* When pulling bobbin thread, bobbin rotates counterclockwise. If bobbin rotates clockwise, put the bobbin upside down.

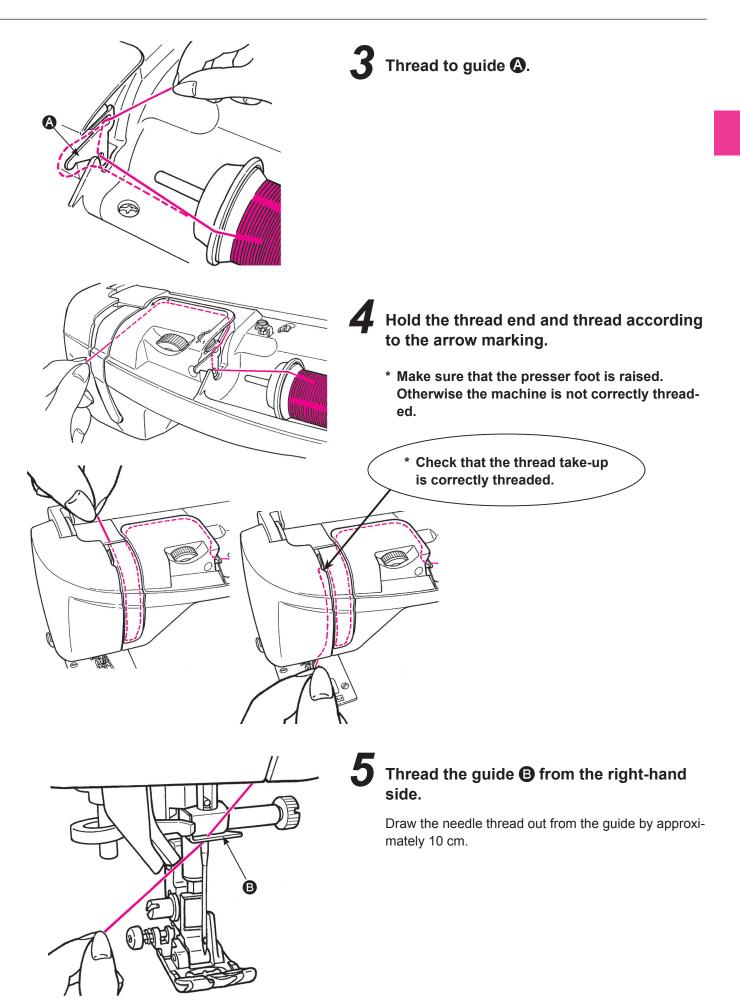
5 Cut the thread with the built-in cutter **•**.

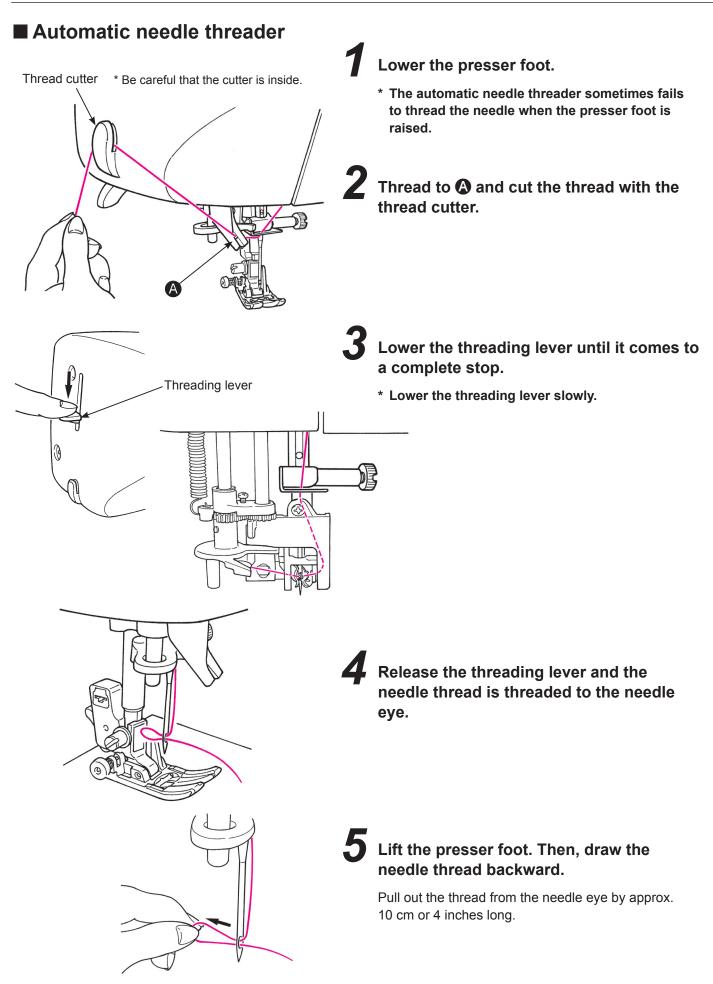


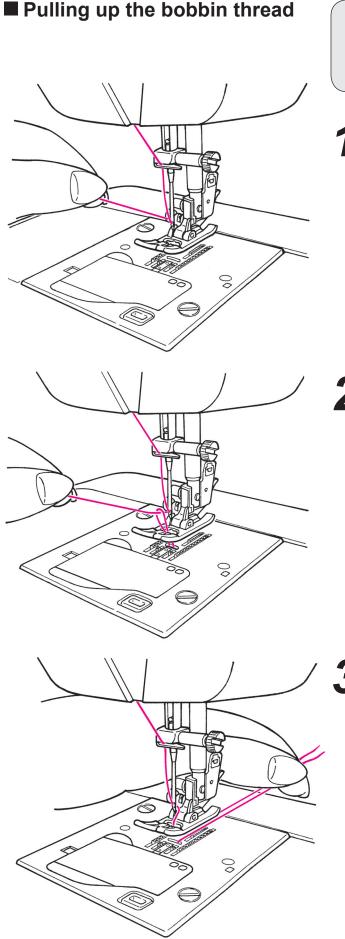
6 Close the hook cover.

You can start to sew in this condition (without pulling up the bobbin thread), however, if you want to sew with the bobbin thread pulled out, refer to "Pulling up the bobbin thread" in the page 25.









Basic operation:

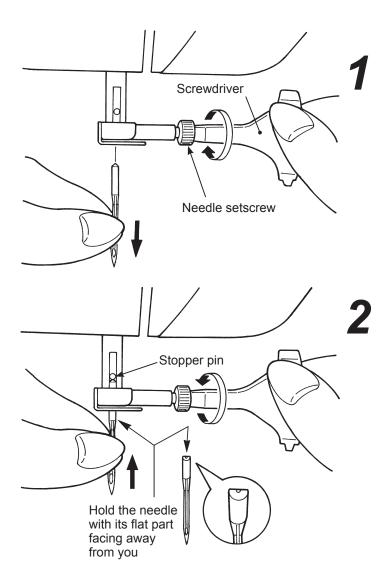
You can start to sew without pulling up the bobbin thread, however, if you want to sew with the bobbin thread pulled out, follow the directions below.

Lift the presser foot and lightly hold the end of the needle thread.

2 Turn the hand wheel towards you to move the needle up and down. Loop of bobbin thread will be pulled out when you will pull the needle thread lightly.

Pull out both needle and bobbin threads by approx. 10 cm (4 inches) long and pass them under the presser foot towards the back of the machine.

Attaching the needle



A Warning

When changing the needle, turn off the power.

Removing needle

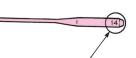
- 1. Turn the hand wheel towards you until the needle comes to the highest position and lower the presser foot.
- 2. Turn the needle setscrew towards you 1-2 times and remove the needle.

2 Attaching the needle (The needle cannot be inserted unless it is correctly positioned.)

Hold the needle with its flat part facing away from you, and insert it fully until it touches the stopper pin. Securely tighten the needle setscrew.

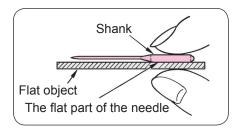
Needles to be purchased

When purchasing spare needles, specify HA X 1 (130/705H) or HA X 1 SP (needle for knits) .



Needle size: The larger the number, the thicker the needle.

Checking the needle



Check the needle for its straightness occasionally. Any bent needle would cause skipped stitches, thread breakage or damage to materials.

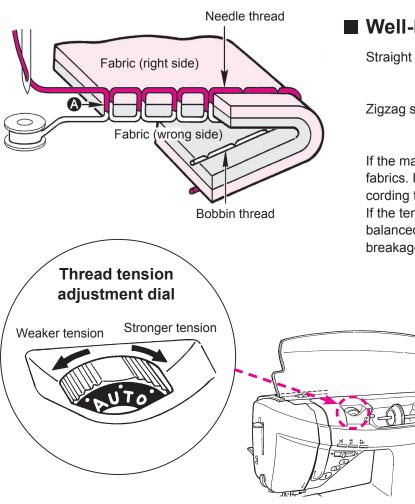
Attention: If the needle is not properly installed or a bent needle is used, needle breakage can be caused. It will cause damage to the machine.

Fabric, thread and needle table

| | Fabric | Thread | Needle HA×1 |
|----------------------------|-------------------------------------|--|-------------------------|
| Light-weight materials | Lawn | Silk thread No.80,90 | No.11 |
| APPO | Georgette | Spun thread No.80,90 | NO. H |
| | Tricot | Spun thread No.60-90 | Knit needle No.11 |
| | Wool and synthetic fabrics | Silk thread No.80 Spun thread No.60-90 | No.11-14 |
| Medium-weight materials | Cotton and synthetic fabrics | Spun thread No.50, 60 | No.11-14 |
| | Light jersey | Silk thread No.50 Spun thread No.50, 60 | Knit needle No.11 |
| | Ordinary wool and synthetic fabrics | Silk thread No.50 Spun thread No.50, 60 | No.11-14 |
| Heavy-weight materials | Denim | Spun thread No.30-50 | No.14-16 |
| | Jersey | Silk thread No.50 Spun thread No.50, 60 | Knit needle No.11-14 |
| | Coat | Silk thread No.50 | No.11-14 |

- * In general, the same thread is used for both needle and bobbin threads.
- * Thin thread and needle will be used for light-weight fabrics and thick thread and needle will be used for heavyweight materials.
- * Check that the combination of needle and thread is OK by trial sewing on the material which will be sewn.
- * Knit needle is good for stretchy fabrics (such as knits) and synthetic fabrics.
- * Use thread No. 30 90.
- * When it is difficult to go over an overlapped section, guide the fabric by hand.
- * When sewing "quilt patterns", "decorative patterns" or "letters" (refer to pages 31 to 36), better finish will be ensured by using a knit needle.

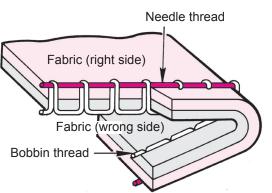
How to adjust thread tension



Well-balanced thread tension

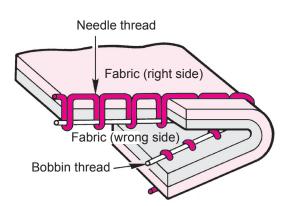
Straight stitch: Needle and bobbin threads interlace with each other at the middle of the fabric thickness. (()) Zigzag stitch: Needle thread is pulled a little bit to the wrong side of the fabric.

If the machine is set to "Auto", it is suitable for most fabrics. However, adjustment may be necessary according to fabrics and sewing applications. If the tension is not correctly set, it will cause imbalanced stitch formation, puckering, and/or thread breakage.



When the needle thread is too strong:

The bobbin thread will be pulled to the front side of the fabric. Turn the thread tension adjustment dial towards "-1" to "-3".

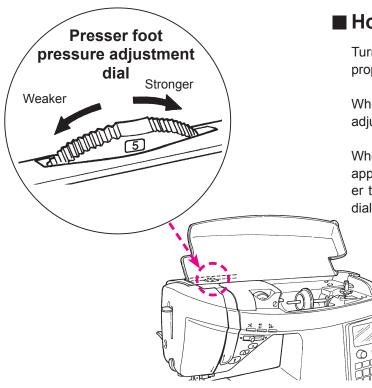


When the needle thread is too low:

The needle thread will be pulled to the wrong side of fabric. Turn the thread tension adjustment dial towards "+1" to "+3".

In case a correct tension setting is not obtained, check thread paths for both needle and bobbin threads.

How to adjust the presser foot pressure / How to lower the feed dog

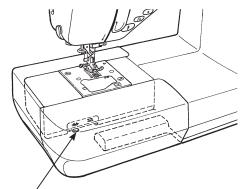


How to adjust presser foot pressure

Turn the presser foot pressure adjustment dial to set the proper pressure.

When sewing in general, set the presser foot pressure adjustment dial to "5".

When sewing on light synthetic fabrics, stretchy fabrics, appliqué which seam allowance is overlapped, etc., lower the number on the presser foot pressure adjustment dial. (reducing the presser foot pressure)



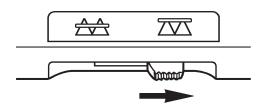
How to lower the feed dog

Move the drop feed knob to the right-hand side, in case the feed dog is in the down position for free motion quilting, button sewing, etc.

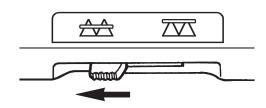
* Move the drop feed knob to the left-hand side after sewing. The feed dog will be engaged automatically when the machine starts to sew.

Drop feed knob

\bigstar When lowering the feed dog



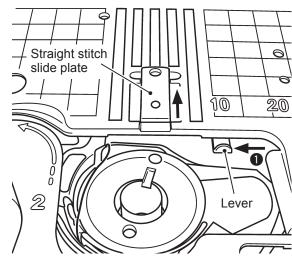
★ When lifting the feed dog



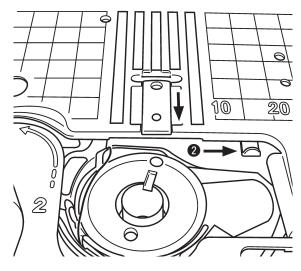
Changeover of needle holes (straight stitch slide plate)

How to use the straight stitch slide plate

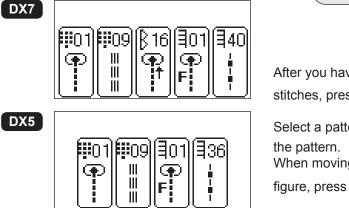
1 Needle hole for straight stitches



2 Normal needle hole



Patterns which can be used with the straight stitch selection



Attention

Do not turn the handwheel by hand when using the needle hole for straight stitches. Be aware that the needle can come in contact with the straight stitch slide plate if you turn the handwheel by hand.

* Change the needle hole from the needle for straight stitches to the normal needle hole before turning the power OFF.

It is possible to change the needle hole between the needle hole for straight stitches and the normal needle hole without changing the throat plate.

In the case of starting sewing from the edge of material, the material can be smoothly sewn without being pulled into the needle hole by using the needle hole for straight stitches.

It is possible to change the needle hole to be used only by changing over the lever position.



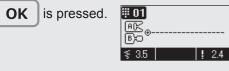
- By moving the lever to the left: The needle hole for straight stitches is selected.
 By moving the lever to the right while slightly pushing it away from you: The normal needle hole is selected.
- * In the case of the needle hole for straight stitches, any pattern other than those that are available under the straight stitch mode cannot be selected.

If the needle hole is changed over to the one for straight stitches when any pattern other than those that are available under the straight stitch mode, the message



will be displayed on the screen.

- 1. The screen will be restored to the normal one by returning the lever to the right.
- 2. The screen will be changed over to the Direct 1 when



After you have changed the needle hole to the needle hole for straight stitches, press 123 to display the patterns that can be used.

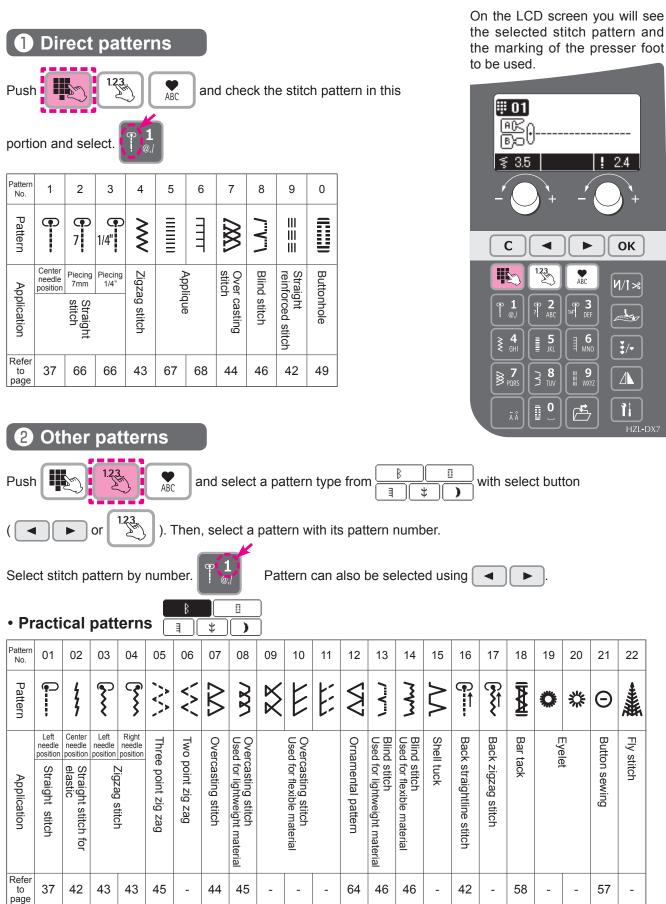
Select a pattern with or and press **OK** to confirm the pattern.

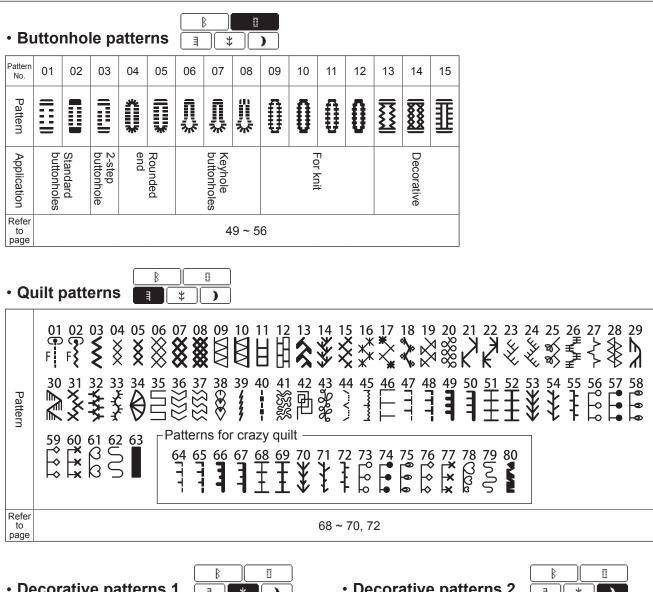
When moving the lever **2** back to the right while the screen shows left figure, press **OK**.

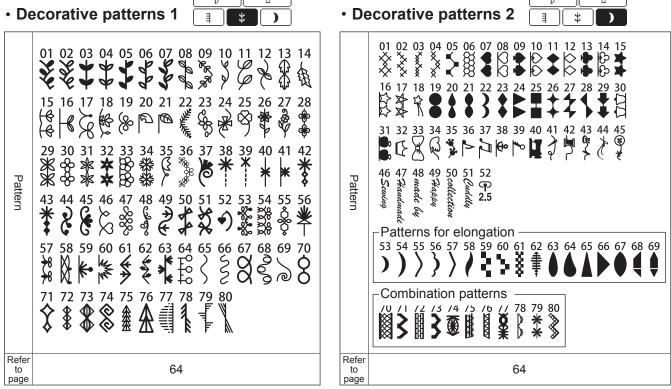
30

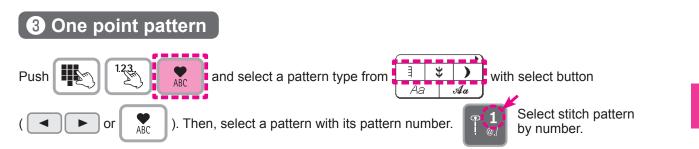
Dx7 How to select a stitch pattern

- \precsim There are 287 types of stitch patterns.
- ☆ When turning on the machine, the straight stitch of the center needle position is chosen automatically.
- \doteqdot There are 4 methods to select stitch pattern.



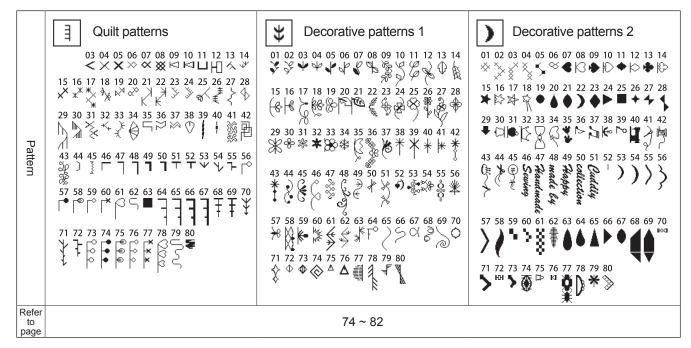


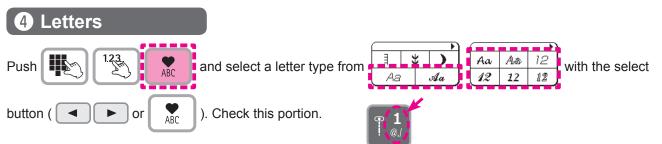




The pattern types are same with those of "Quilt patterns", "Decorative patterns 1" and "Decorative patterns 2". "Quilt patterns" numbers 01 and 02 are not available for one-point sewing.

Some patterns can overlap when combined. In such cases, combine them while inserting a space (decorative patterns 2: No. 52) between the patterns.



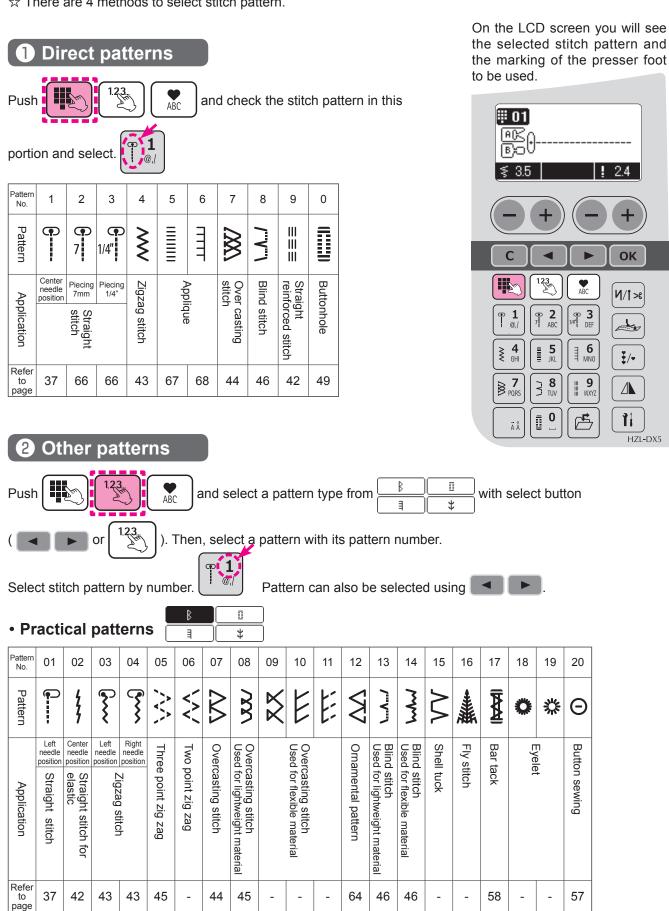


(Refer to page 75 for how to select letters.)

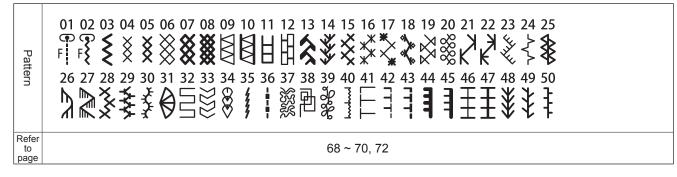
| Pattern | @!&'(),.?/:; ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdef&hiikImnopqrstuvwxyz 1234567890 ÄÅÆàäåèéé멜ciÑñÖØðöøÜùü @!&'(),.?/:; ABCDEFGHIJHLMNOPQRS TUVMXY3 abcdef\$hifkImnof\$rsturwx\$ 1234567890 | <pre>@!&'(),.?.'; ABCDEFGHIJKLMNOPQRSTUVW XYZ abcdef\$hijklmwoPqrstuvwxy3 1234567890 ÄAÆàäåėėėeCciNňÖØòö&æÜùü @!&'().?-'/;; ABCDEFGHIJKLMNOPQRS TUVWXYZ abodef\$hijklmmoP¶rs fuvwxyz 1234567890</pre> | | |
|---------------------|--|---|--|--|
| | ÂÂ&àäåèéêëCçìŇñŐØòö‡œÜùü | 1234667890 À À Æ À Ă Ă É É É Ë Ç Ç Ì Ń M Ö Ø Ò Ö Ø œ Ü dı ü | | |
| Refer to page | 74 ~ 82 | | | |

Dx5 How to select a stitch pattern

- \Rightarrow There are 185 types of stitch patterns.
- \Rightarrow When turning on the machine, the straight stitch of the center needle position is chosen automatically.
- $rac{l}{l}$ There are 4 methods to select stitch pattern.



| • Bı | itto | nho | le pa | atte | rns | | | U * | | | | | | | |
|---------------------|-------------|----------|----------------------|------|---------|--------|------------------------|--------|-------|----|----|----|----|------------|----------|
| Pattern No. | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
| Pattern | | | ()) | * | () * | П Ж | ा ॐ | | 4111D | 0 | â | 0 | | | |
| Application | buttonholes | Standard | 2-step buttonhole | end | Rounded | | Keyhole buttonholes | | | | | | | Decorative | <u>.</u> |
| Refer to page | | 49 ~ 56 | | | | | | | | | | | | | |

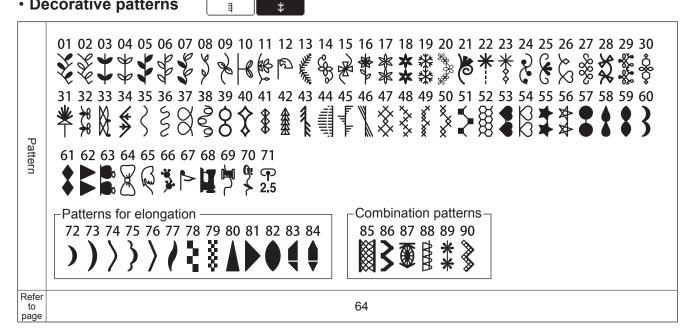


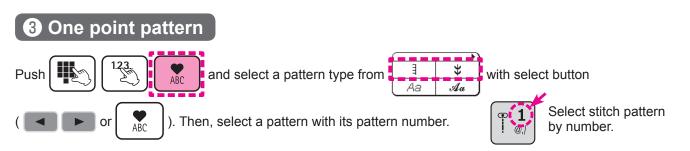
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Decorative patterns

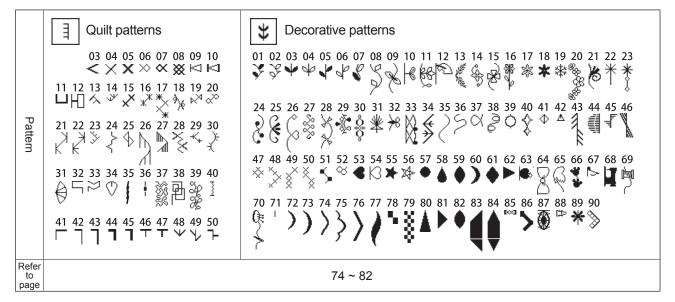


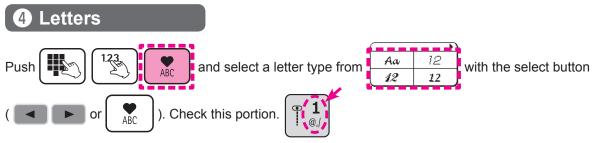


The pattern types are same with those of "Quilt patterns" and "Decorative patterns".

"Quilt patterns" numbers 01 and 02 are not available for one-point sewing.

Some patterns can overlap when combined. In such cases, combine them while inserting a space (decorative patterns: No. 71) between the patterns.





(Refer to page 75 for how to select letters.)

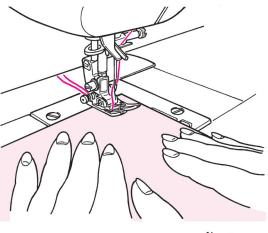
| Pattern | @!&'(),.?/:; ABCDEFGHJKLMNOPQRSTUVWXYZ abcdefshiiklmnopqrstuvwxyz 1234567890 äÅæàäàèéeëçœqiÑnÖØòöoÜùü @!&'(),.?/:; ABCDEFGHJKLMNOPQRS TUVWXYF abcdefshiiklmnot4rstuvwxxx 1234567890 .? | @!&`(),.?-·/:; ABCDEFGHIJKLMNOPQRSTUVW XYZ abcdefghííklmnoPqrstuvw×yz 1234567890 ÄAÆàäåèéêëÇçiÑñÖØòöøœÜùü |
|---------------------|---|--|
| Refer to page | 74 | ~ 82 |

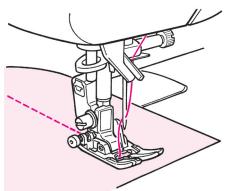
Straight stitch

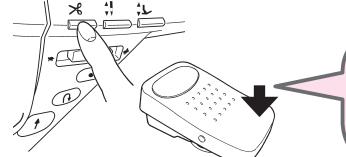
| ₩ 01 | Pattern No. | Direct 1 | Turn C | |
|---------------------|----------------|---------------------------|-----------------|--|
| <u>₩</u> 9 | Presser foot | Standard presser foot (A) | before foot. | |
| i≸ 3.5 ! 2.4 | Thread tension | Auto | | |

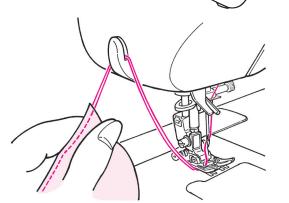


Turn OFF the power switch before replacing the presser foot.









Sewing start

Pull the needle and bobbin threads under the presser foot to the rear of the machine and lower the presser foot to start sewing.



This means presser foot is up. Lower the presser foot to start sewing.

Sewing end

Stop sewing and push the thread trimming button to trim the threads.

by thread trimming button>

When you push the thread trimming button, the thread is trimmed and the presser foot automatically goes up. You can also set the function to lift the presser foot after thread trimming to OFF. (Refer to page 93)

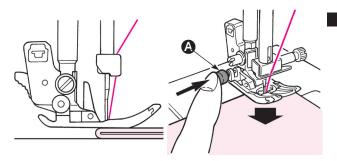
<by foot controller>

Foot switch function

It is possible to set so that the thread is trimmed by depressing the front section of the foot controller.

(Refer to page 89)

* You can also cut the threads by the thread cutter at the face plate cover.



When sewing the edge of thick fabrics

Turn the hand wheel and let the needle enter at the position of sewing start. Push the black button () by finger and lower the presser foot. Release the finger from the black button and start sewing. When the presser foot will be on the fabric completely, the black button will be disengaged automatically.

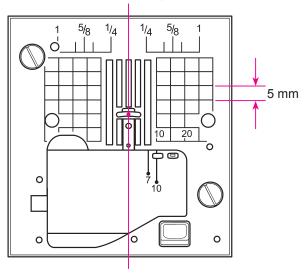
When changing the sewing direction

When you stop the sewing machine, the sewing machine stops with its needle down and the presser foot automatically goes up.

Then, change the sewing direction and re-start the sewing machine.

Presser foot pivot function

The presser foot pivot function can also be turned OFF. (Refer to page 90)

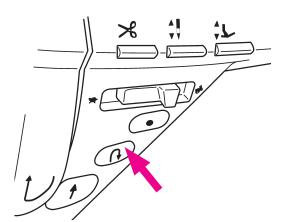


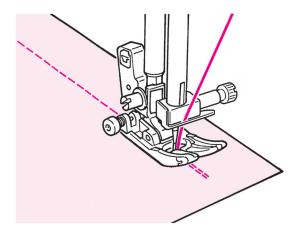
On center needle position basis

★ Seam guide line on the throat plate

Align the fabric edge with a seam guide line and sew. * Numbers on the guide line show the distance in mm and inches between the center needle position and the guide line.

Numbers, 7, 10 and 20 are millimeter. Numbers, 1/ 4, 5/ 8 and 1 are inches.





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★ Lock stitch after sewing-end

<When start/stop button is used>

After the sewing is finished, push the reverse stitch button. While it is pressed, the machine will sew reverse and when it is released, the machine will stop sewing reverse.

<When foot controller is used>

While the reverse stitch button is pressed, the machine will sew reverse. When the reverse stitch button is released, the machine sews straight.

In the case of sewing one-point stitches or letters, the sewing machine stops after the completion of lock stitches.

Adjustable reverse stitch speed

Reverse stitch speed and lock stitch speed can be set. (Refer to page 96)

Lock stitch

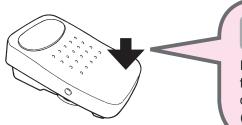
71

It is used for sewing lock stitches which are inconspicuous.

<When start/stop button is used>
Push the lock stitch button at the end of sewing.
The sewing machine sews lock stitches and stops.

<When foot controller is used>
Push the lock stitch button at the end of sewing.
The sewing machine sews lock stitches and stops.

* When you push the button while sewing one-point stitches or letters, the sewing machine sews until one cycle of the selected pattern is completed, sews lock stitches and stops. The start/stop button lights up in orange during the one cycle.



Foot switch function

It is possible to set so that the sewing machine performs sewing of reverse stitches or lock stitches by depressing the front section of the foot controller. (Refer to page 89)

★ Automatic lock stitch and thread trimming

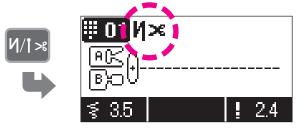
The sewing machine automatically sews reverse stitches and lock stitches at the start of sewing. Then, it starts normal sewing.

When you push the reverse stitch button at the end of sewing, the sewing machine sews reverse stitches, trims threads and stops.

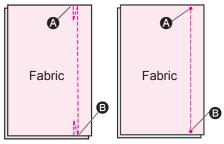
Press $\frac{1}{1}$ to change the settings.

| | Straight stitch/zigzag stitch | Pattern |
|---|--|---|
| Intersection of the sector of the secto | Screen display: 🖌 🗙 (Reverse stitch) | Screen display: 1 🔀 (Lock stitch) |
| Intersection Press twice | Screen display: 1 × (Lock stitch) | Screen display: None (No setting) |
| ٩/١ > Press three times | Screen display: None (No setting) | |

Example) In the case of straight stitches



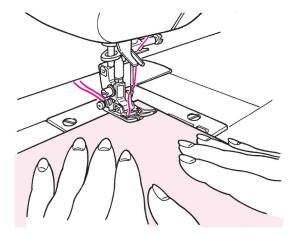
Example: straight stitch





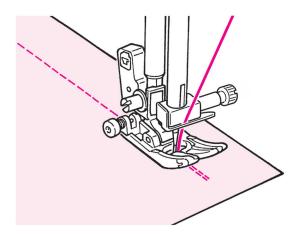
I I X I X I S

When you press the button again, $\uparrow \mathbf{x}$ is displayed to show that the lock stitch is set.



Place the fabric in the sewing start position and begin sewing.

- The machine sews a few back stitches and continue.
- **1**× : The sewing machine sews a few lock stitches and continues sewing.



The sewing machine operates differently according to the button you press. **B**

•

Press the reverse stitch button. The machine sews reverse stitches, stop sewing and trim both needle and bobbin threads automatically.

): Press the lock stitch button. The sewing machine sews lock stitches, automatically stops and trims both the needle and bobbin threads.

★ How to change needle positions / How to change the stitch length

| <pre># 01</pre> | When changing of straight still is possible to change width adjusting dial/b DX7 Turning to the left (- s Turning to the right (+ DX5 Pushing "-", the need Pushing "+", the need |
|---|--|
| | |
| Image: 01 Image: 01 | When changi It is possible to change length adjusting dial/b DX7 Turning to the left (-s smaller and the stitch Turning to the right (+larger and the stitch I DX5 Pushing "-", the displastitch length becomes Pushing "+", the displastitch length becomes |
| | |

When changing the needle position of straight stitch

It is possible to change the needle position with the zigzag width adjusting dial/button.

Turning to the left (- side), the needle moves to the left. Turning to the right (+ side), the needle moves to the right.

Pushing "-", the needle moves to the left. Pushing "+", the needle moves to the right.

When changing the stitch length

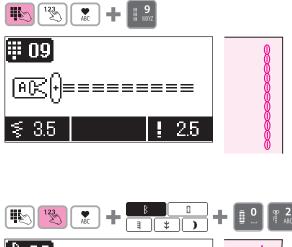
It is possible to change the stitch length with the stitch length adjusting dial/button.

Turning to the left (- side), the displayed value becomes smaller and the stitch length becomes smaller accordingly. Turning to the right (+ side), the displayed value becomes arger and the stitch length becomes larger.

Pushing "-", the displayed value becomes smaller and the stitch length becomes smaller accordingly.

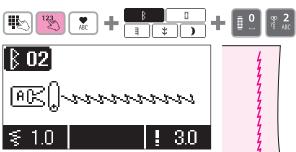
Pushing "+", the displayed value becomes larger and the stitch length becomes larger.

★ Other straight stitch patterns



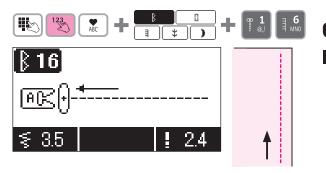
Reinforced stretch stitch

The reinforcing stretch stitch helps reinforce seams when used for sewing of elastic fabric or the force-exerted part of fabric that is likely to fray.



Straight stitch for elastic fabric

Finished seams are elastic. This stitch system can be used for producing straight stitches on elastic fabrics such as knits and jersey.

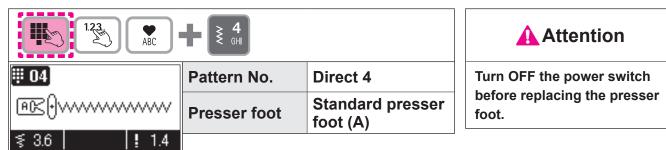


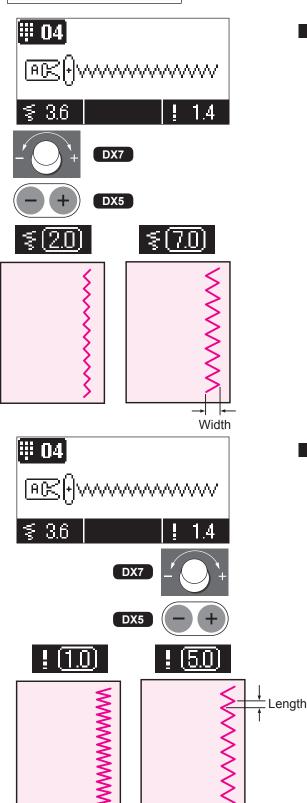
DX7 Only

Reverse straight stitch

Machine starts to sew reverse and when reverse stitch button is pushed, it sews forward.

Zigzag stitch





When changing the zigzag width

The zigzag width can be adjusted while sewing.

DX7

Turning to the left (- side), displayed value becomes smaller and the zigzag width becomes smaller accordingly. Turning to the right (+ side), displayed value becomes larger and the zigzag width becomes larger accordingly.

DX5

Pushing "-", displayed value becomes smaller and the zigzag width becomes smaller accordingly. Pushing "+", displayed value becomes larger and the zigzag width becomes larger accordingly.

When changing the stitch length

The stitch length can be adjusted while sewing.

DX7

Turning to the left (- side), the displayed value becomes smaller and the stitch length becomes smaller accordingly. Turning to the right (+ side), the displayed value becomes larger and the stitch length becomes larger accordingly.

DX5

Pushing "-", the displayed value becomes smaller and the stitch length becomes smaller accordingly.

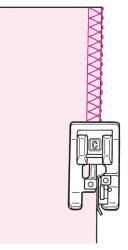
Pushing "+", the displayed value becomes larger and the stitch length becomes larger accordingly.

Overcasting stitch

This stitch is used to prevent the edge of fabric from fraying.

Overcasting stitch 1

| 1.23 ABC | Attention | | |
|----------------------|------------------|------------------------------|------------------------------------|
| (# 07) | Pattern No. | Direct 7 | Turn OFF the power switch |
| œ€()∕xxxxxxxxxx | Presser foot | Overcasting presser foot (C) | before replacing the presser foot. |
| i ≰ 4.5 ! 2.3 | | | |



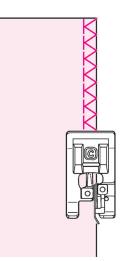
Push the fabric towards the guide and sew.

If the fabric and guide are apart, it will not make a nice stitch formation. Make sure to guide the fabric along the guide and sew slowly.

* Before sewing, make sure to check that the needle will not hit the presser foot.

Overcasting stitch 2

| 123 ABC | | | Attention |
|---------------------|--------------|------------------------------|------------------------------------|
| 8 07 | Pattern No. | Practical 07 | Turn OFF the power switch |
| œe() | Presser foot | Overcasting presser foot (C) | before replacing the presser foot. |
| i≰ 4.5 ! 2.5 | | · | |

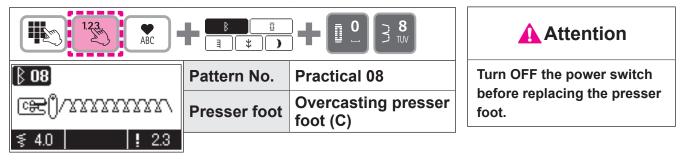


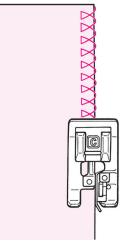
This stitch is used for overcasting medium- to heavyweight materials.

Guide the fabric along the guide and sew.

* Before sewing, make sure to check that the needle will not hit the presser foot.

Overcasting stitch 3





This overcasting stitch is used for overcasting light-weight materials.

Guide the fabric along the guide and sew.

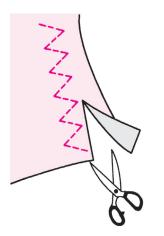
* Before sewing, make sure to check that the needle will not hit the presser foot.

Overcasting by 3-point zigzag

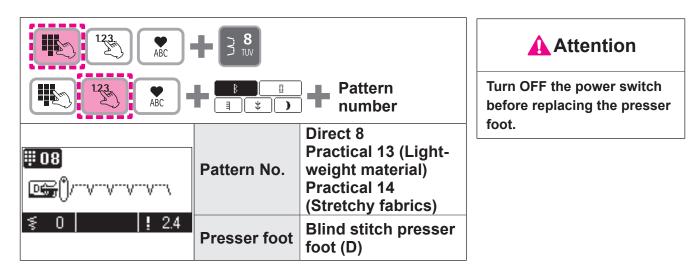
| | Attention | | |
|-----------------------|------------------|---------------------------|------------------------------------|
| ₿ 05 | Pattern No. | Practical 05 | Turn OFF the power switch |
| @≌0/////// | Presser foot | Standard presser foot (A) | before replacing the presser foot. |
| i≸ 5.0 ! 1.0 | | * Do not use overcasting | presser foot (C). |

This stitch is used to prevent the cut edge of fabric from fraving.

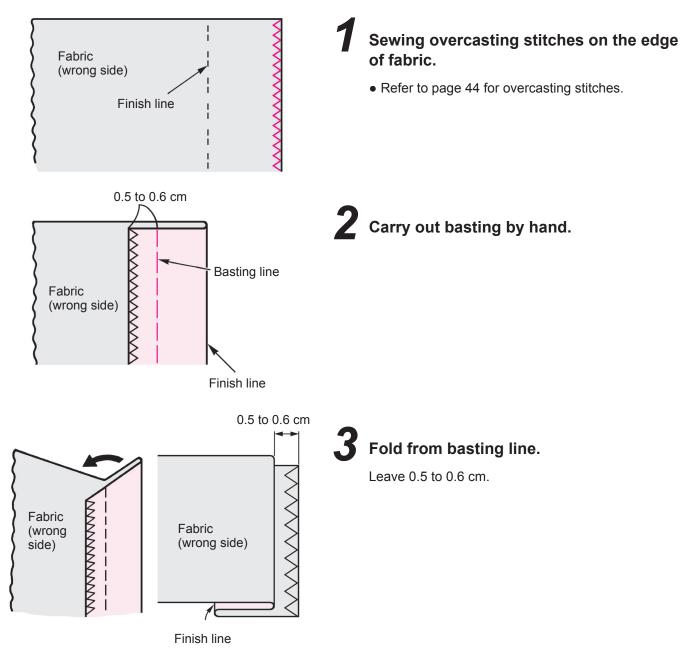
Keep some seam allowance and cut the sewn fabric carefully so that stitches are not cut by the scissors.

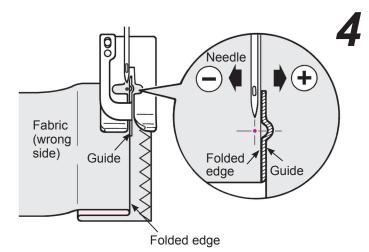


Blind stitch



Folding fabrics

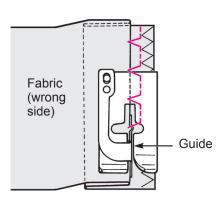




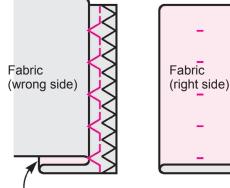
4 Align the guide of the presser foot with the folded edge.

Turn the hand wheel and adjust with the zigzag width adjusting dial so that stitches reach the folded edge.

* Pay attention so that needle will not hit the presser foot.



Position the folded edge against the guide and sew.



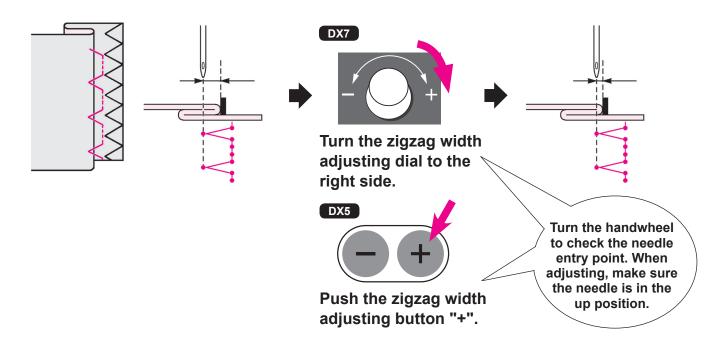
Finish line



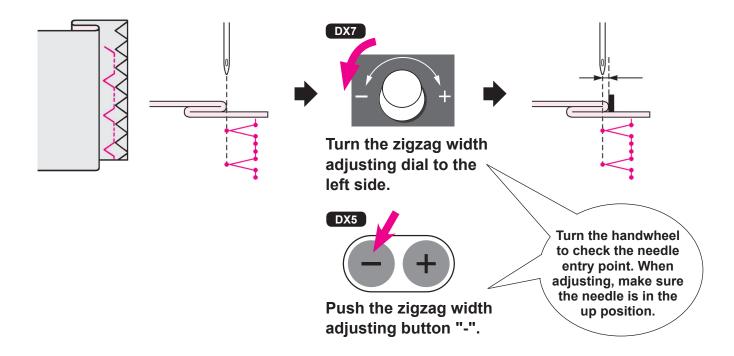
6 Turn over the fabric after sewing.

When changing the needle entry point

1. If the stitches reach too far beyond the folded edge

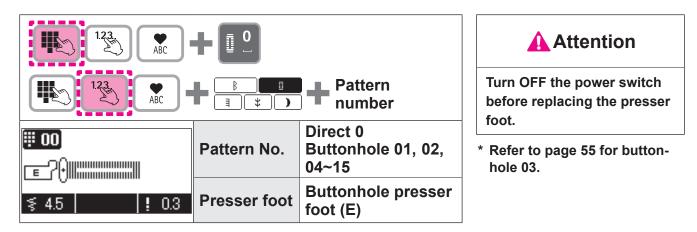


2. If the stitches fail to reach the folded edge



Buttonhole stitches

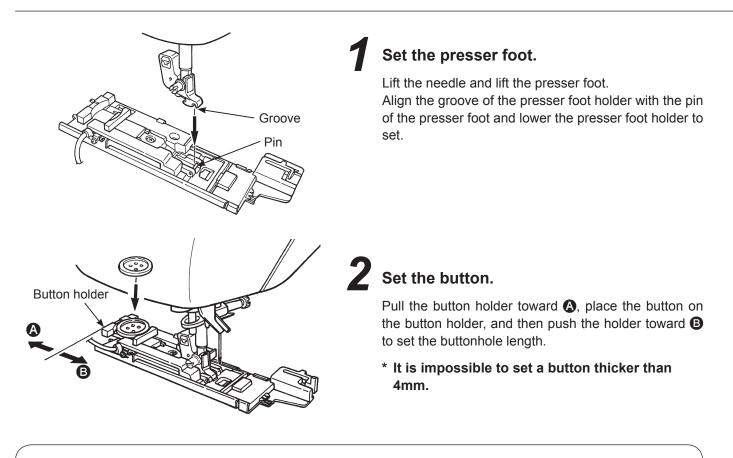
Buttonhole type



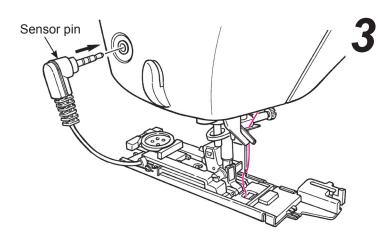
- * The buttonhole length is automatically determined only by placing a button on the buttonhole presser foot.
- * The machine can sew buttonholes for buttons with diameters of 0.7 3.2 cm.
- * In case of stretchy fabrics, use non-elastic interlining on the wrong side of the fabric.
- * Make sure to perform test sewing to see that the machine sews buttonholes correctly.
- * Buttonhole Nos. 09 12 are for knit fabrics and should be used with a knit needle.

| L | | | |
|----|---|---------------------|---|
| 0 | | | Buttonhole for medium to heavy weight materials Standard buttonhole |
| 01 | | Standa | Stitch length is larger. Buttonhole for heavy weight ma- terials |
| 02 | | Standard buttonhole | Sews buttonhole double |
| 03 | | nhole | Manual 2-step buttonhole Use this buttonhole, when there is an overlapped section in the fabric or when you want to sew larger buttonhole than 3.2 cm diameter. (Refer to page 55) |
| 04 | * | Rounded end | Buttonholes for women's blouses and children's clothes. |
| 05 | * | end | Also for light weight materials |
| 06 | | | Keyhole buttonhole for heavy weight materials such as suits, jackets, coats, etc. |
| 07 | | Keyhole | Round keyhole |
| 08 | | | Large and thick keyholes for heavy weight materials |

| 09 | | | Buttonhole for light weight knit (also used as decorative button- hole) | |
|----|---|------------|---|--|
| 10 | 0 | For knit | Buttonhole for medium weight knit (also used as decorative buttonhole) | |
| 11 | â | knit | Buttonhole for light weight knit Sews buttonhole double | |
| 12 | 0 | | Buttonhole for medium weight knit Sews double buttonhole | |
| 13 | | D | De | |
| 14 | | Decorative | Decorative buttonholes Decorative buttonhole which look like hand-sewn | |
| 15 | Ī | Ô | | |



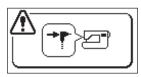
* Check the following points after setting the presser foot and then start to sew buttonholes. Check that there is a clearance.
If there is not a clearance, the machine will not sew neat stitches.



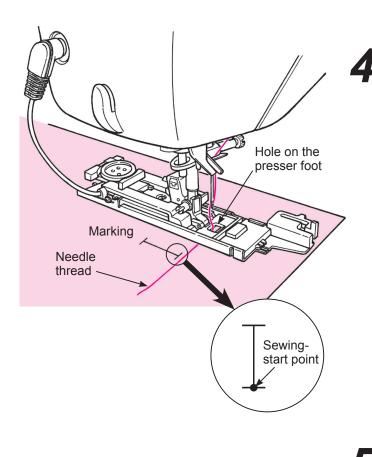
Set the buttonhole sensor pin.

Insert the sensor pin into the sensor pin hole at the face plate cover.

- * Insert the pin into the hole completely.
- * If the machine starts to sew without inserting the pin into the hole, the following message will be shown on the display.

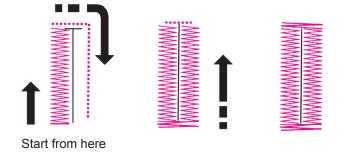


Set the sensor pin and restart.



4 Place the fabric under the presser foot.

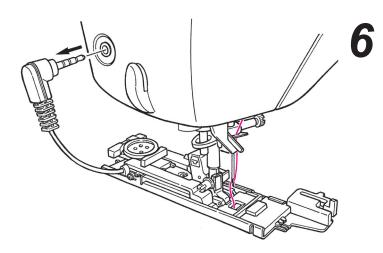
Raise the presser foot, pass the needle thread through the hole on the presser foot and pull it out sideways. Place the fabric under the presser foot, align the marking with the sewing-start point. Penetrate the needle into the fabric by turning the hand wheel and lower the presser foot.



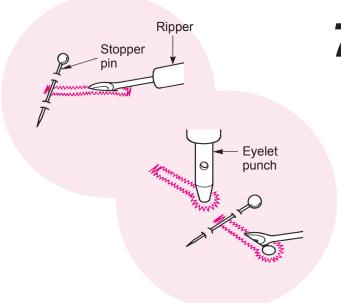
Start sewing.

The machine will stop automatically after sewing the buttonhole.

- * If a buttonhole of the same size will be sewn again, push the thread trimming button to trim the threads and raise the presser foot.
 Under this condition move to another point, lower the presser foot and then start sewing.
- * Do not change stitch length and/or zigzag width during buttonholing. Otherwise this will cause imbalanced stitches.
- * If thread trimming button is pushed while sewing buttonhole, the machine will stop and will not complete the buttonhole.
- * Depending on material to be sewn and weaving direction of the material, there might be a slight difference in zigzag widths between right and left lines of buttonholes. Test sewing is recommended.



Unplug the sensor pin after sewing.



Opening the buttonhole using a ripper.

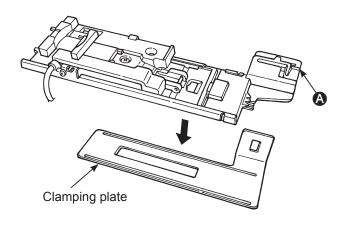
[double bartack]

Pierce a stopper pin at the bartack and open the buttonhole with a ripper. Be careful not to cut the stitches.

[Keyhole buttonhole]

Place a cardboard under the buttonhole and make a hole with the eyelet punch. Then pierce a stopper pin at the bartack and open the buttonhole with a ripper.

• Buttonhole clamping plate





Turn off the power when setting the clamping plate.

It will be easier to sew buttonholes on the thin fabrics and/or near the overlapped sections, if the clamping plate is used.

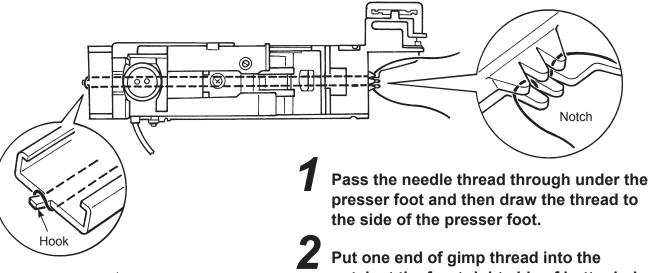
- 1. Attach the buttonhole presser foot to the presser foot holder, with the clamping plate together.
- 2. Place the fabric between the presser foot and the clamping plate.

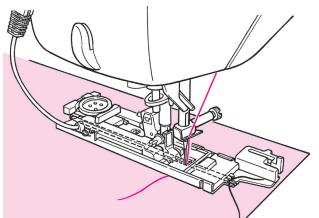
* You can remove the clamping plate by holding **(A)**.

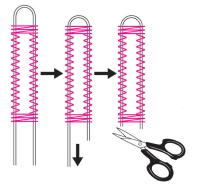
Buttonhole with gimp

| 1.23 ABC | Attention | | |
|-------------|--------------|-----------------------------|--|
| ₩ 00) | Pattern No. | Direct 0 | Turn OFF the power switch before replacing the presser |
| <u> </u> | Presser foot | Buttonhole presser foot (E) | foot. |

Buttonholes with gimp thread prevent the buttonholes from stretching and can make them more secure. * A buttonhole with gimp thread should be sewn using the double bartack pattern (Pattern No. Direct 0).







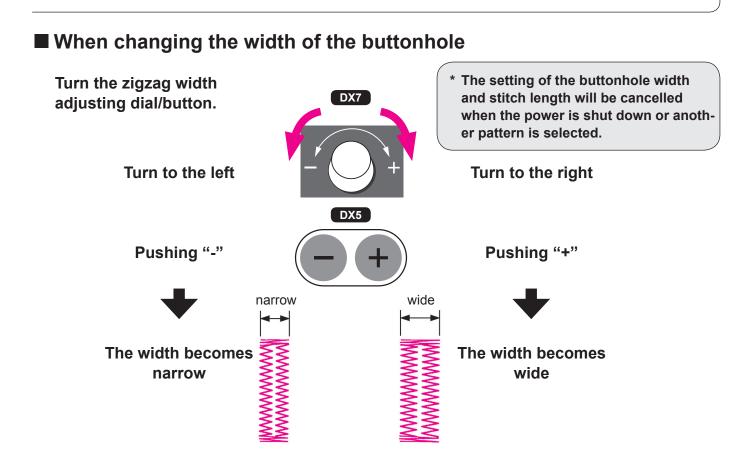
Put one end of gimp thread into the notch at the front right side of buttonhole presser foot, pull the gimp thread under the presser foot and thread it at the hook of the presser foot.

After threading at the hook, pull the gimp thread back under the presser foot and put it into the notch at the front left side of the presser foot firmly.

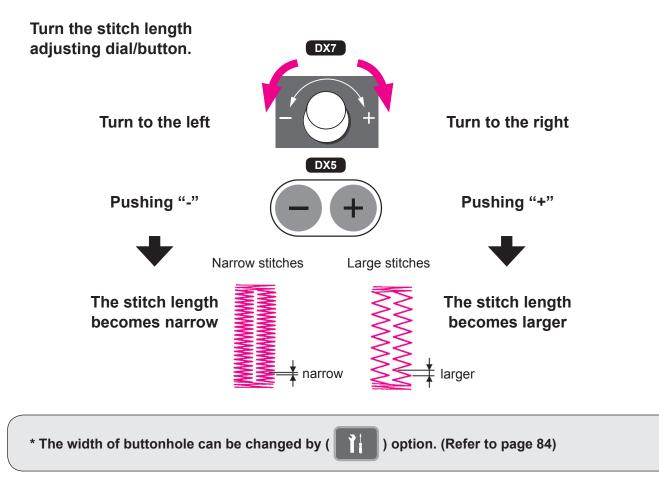
Bring down the needle to the sewing start point and lower the presser foot.

Sew the buttonhole.

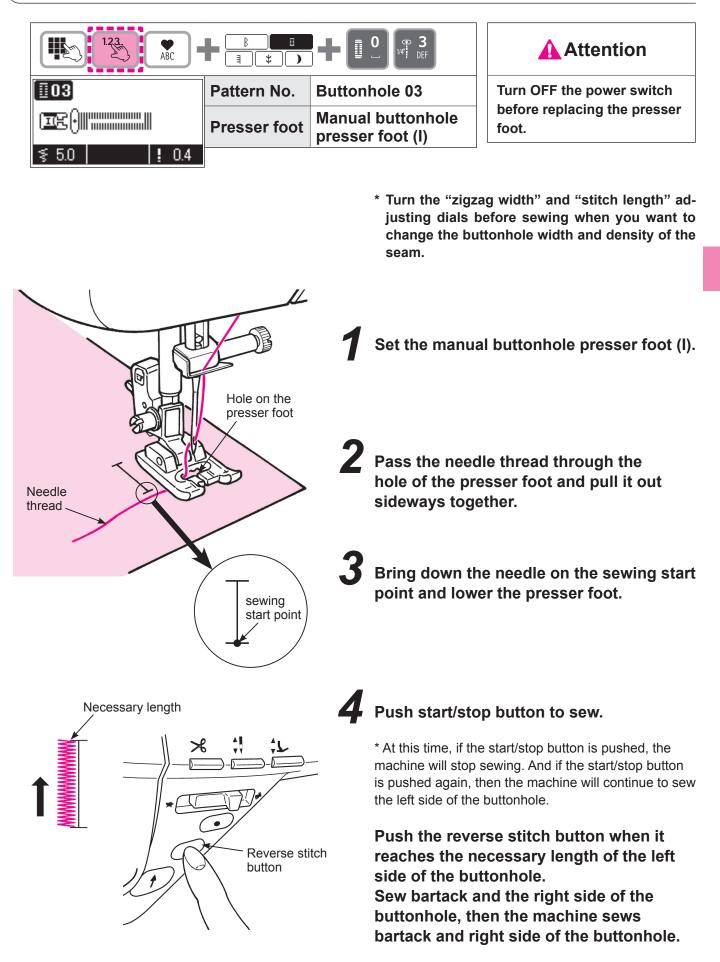
Pull the left gimp thread to take off slack and cut excess gimp thread.

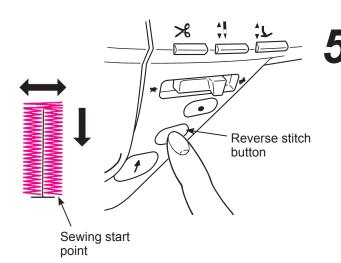


When changing the density of the seam

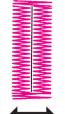


Manual 2-step buttonhole



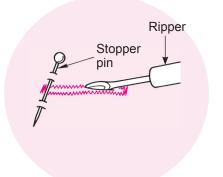


Push reverse stitch button when it comes to the sewing start point.





Sew bartack and lock stitches until the machine stops automatically.



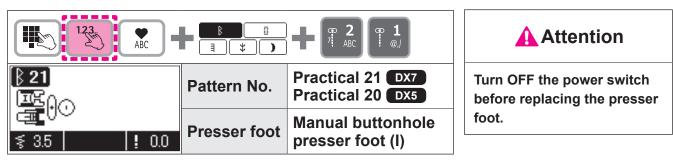
Pierce a stopper pin at the bartack and open the buttonhole with a ripper. Be careful not to cut the stitches.

As the numbers of stitches of both right and left lines of buttonhole is memorized in the sewing machine, the buttonhole of the same size can be sewn.

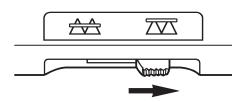
* If you want to change the memory, select the stitch pattern once again.

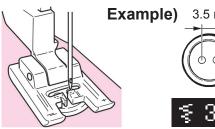
* In the case of a 2-step buttonhole, sewing direction of the left and that of the right side is different. Due to this and according to fabrics to be sewn, it may be possible that the density of each side looks different.

Sewing buttons



* Do not use the automatic thread trimming function when sewing buttons.





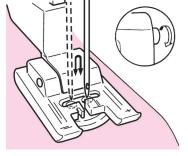


Move the drop feed knob to the right hand side.

Feed dog is now down.

2 Place a button under the presser foot and adjust the zigzag width according to the distance between holes in button.

Make sure that needle enters holes in button, by turning hand wheel manually.

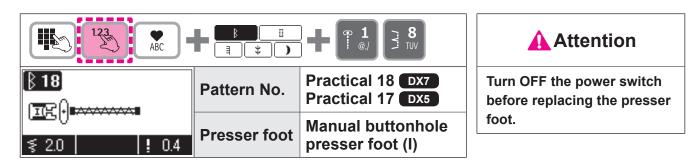


4 Carry out sewing while turning the handwheel by hand.

If you pull the material, the button could be moved from the correct position causing needle breakage. Buttons can be sewn without fail by using the separately-available button sewing presser foot (refer to page 107).

Trim needle and bobbin threads by about 10cm (4 inches) long after sewing. Make a knot to secure the stitches.

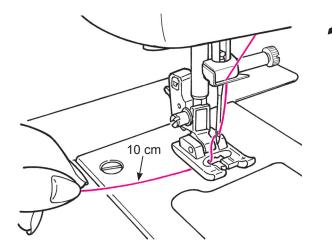
Bartacking



Bartacking is used to reinforce the part of the seam that is likely to ravel.

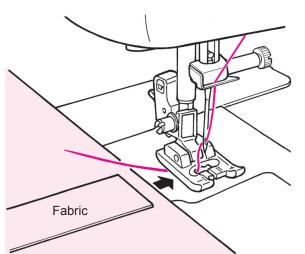
- * The length of the bartack is determined by pushing the reverse stitch button, but it will automatically make a u-turn when it reaches the maximum of 20 stitches.
- * If the presser foot cannot be parallel to throat plate, use filler fabric or cardboard.

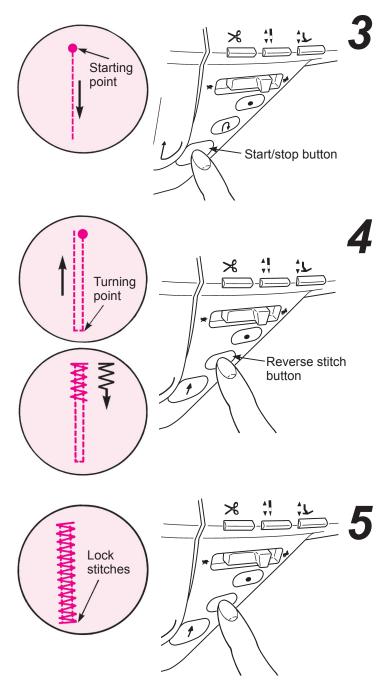




Pass the needle thread through the presser foot.

2 Place the fabric under the presser foot.





Start sewing.

Push the start/stop button and the machine starts to sew straight stitches.

4 When it comes to the turning point push the reverse stitch button.

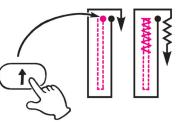
The machine goes back to the starting point by sewing straight stitches and then it sews zigzag stitches to the point where the reverse stitch button is pushed.

When the machine comes to the sewing end point, push the reverse stitch button.

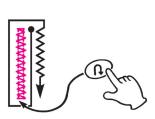
The machine sews lock stitches and stops.

To sew a bartack of the same length again... when the length of the first bartack has been memorized,

• When the start/stop button is pushed, the machine starts to sew and makes a u-turn automatically at the same point as the first bartack.

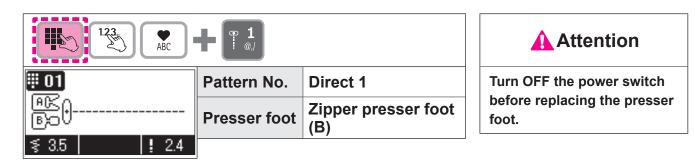


- When it comes to the sewing end point, push the reverse stitch button.
- The sewing machine continues sewing unless you push the reverse stitch button.



* If you want to change the memorized length of the bar tack, please select stitch pattern again.

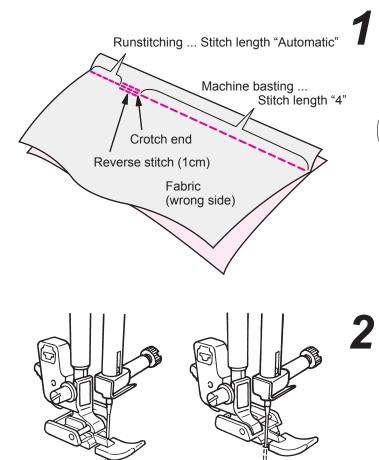
Inserting zippers



Zippers are set in two different ways: by inserting into the side seam of the garment and by centering in position.

* Make sure to use center needle position (Stitch pattern No. Direct 1).

Preparation before attaching zipper



(left)

Use the standard presser foot (A) to sew.

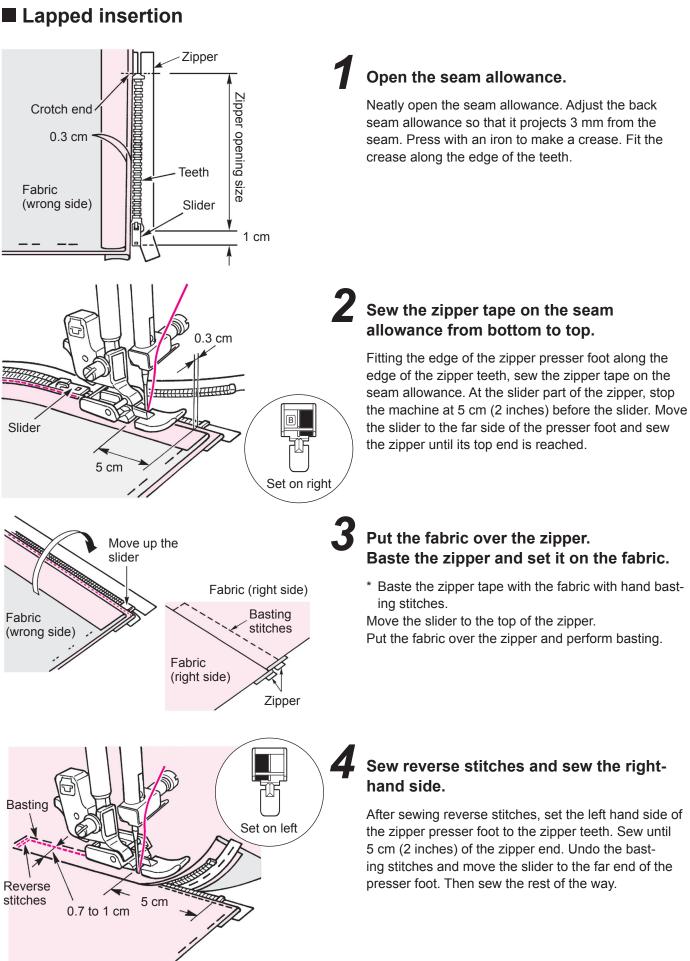
Place the fabrics face-to-face. Check the runstitching length and the length of the zipper to be inserted. Machine baste the zipper onto the fabrics.

Machine basting = zipper opening length + 1 cm

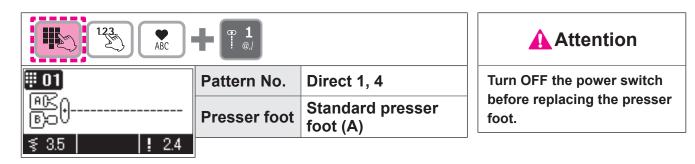
Attach the zipper presser foot (B) to the machine.

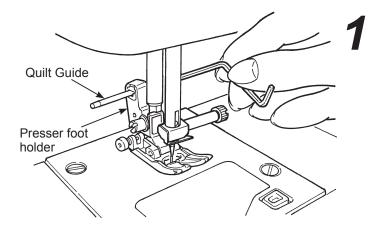
When sewing the left side of the zipper, place the zipper under the right portion of the zipper presser foot. When sewing the right side of the zipper, place the zipper under the left portion of the foot.

(right)

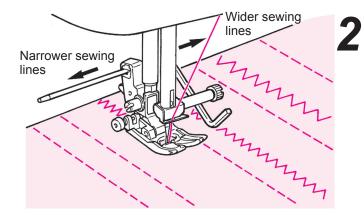


How to use the quilt guide





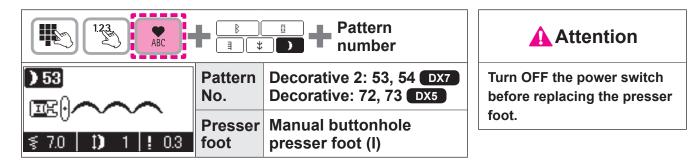
Insert the quilt guide into the groove of the presser foot holder.



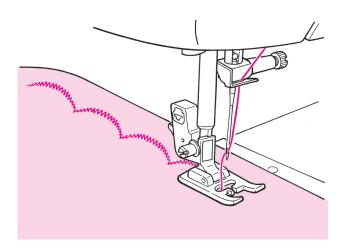
Sew while tracing the stitches with the tip of the quilt guide.

Distance between sewing lines can be adjusted freely.

Scallop stitches



This stitch is used for decorating edging on items such as table cloths, collars on blouse, etc.

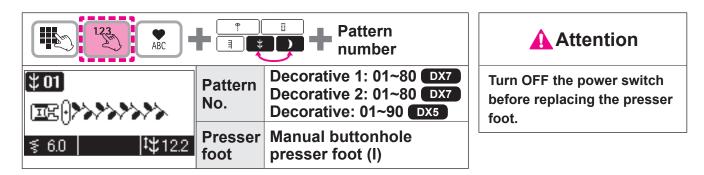


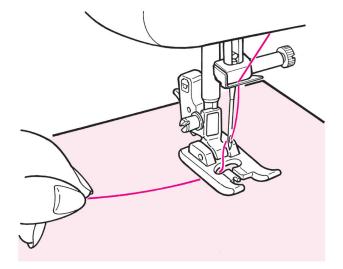
To keep the pattern intact, leave some margin and sew on the edge of the cloth.

2 Cut the sewn fabric carefully so that stitches are not cut by the scissors.

* Adjust stitch length of the decorative stitches according to the fabric to be sewn. Sewing on fabric too thick may cause jamming.

Decorative stitches

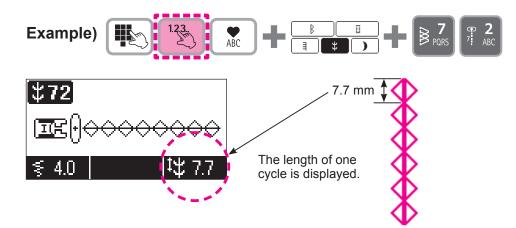




Pass down the needle thread through the presser foot hole and draw it sideways. Place the fabric under the presser foot and start.

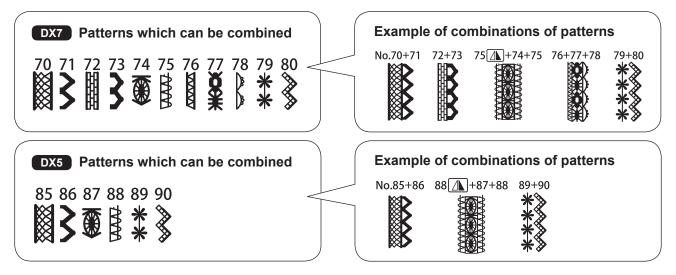
Display of the length of one cycle

Although the length of one cycle of the decorative pattern is displayed, treat it only as a reference, as this will be changeable based on fabric and thread.



Combination of patterns

Lace-like patterns can be sewn by combining patterns.

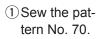


(How to sew a combination of patterns)

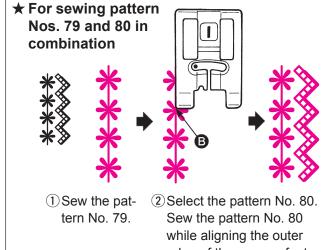
★ For sewing pattern Nos. 70 and 71 in combination







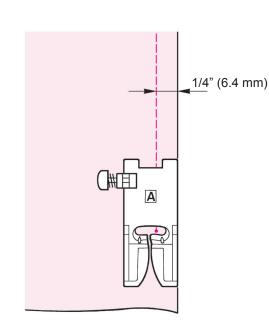
② Select the pattern No. 71. Sew the pattern No. 71 while aligning the inner edge of the presser foot with the edge of the pattern (()).



while aligning the outer edge of the presser foot with the center line of the pattern (**B**).

Patchwork piecing

| 123 ABC | Attention | | |
|---------------------|--------------|---------------------------|------------------------------------|
| (# 03) | Pattern No. | Direct 2, 3 | Turn OFF the power switch |
| PE() <u>₹1/4″</u> | Presser foot | Standard presser foot (A) | before replacing the presser foot. |
| i≰ 5.0 ! 2.0 | | | |



To sew pieces of cloth together is called piecing in patchwork.

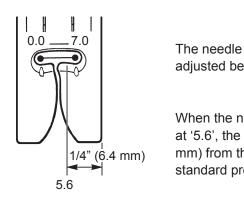
When piecing, the seam allowance is usually 1/4" (6.4 mm).

Cut the fabric with seam allowance.

2

Align the right end of the presser foot and the edge of the fabric and sew.

The needle will enter 1/4" (6.4 mm) from the edge of the fabric, so the seam allowance of 1/4" (6.4 mm) can be sewn.



The needle position can be adjusted between 0.0~7.0.

When the needle position is at '5.6', the needle is 1/4" (6.4 mm) from the right edge of standard presser foot (A).

* You can change the needle position as you like. Needle position change: Refer to pages 41 and 85.

Appliqué (1)

| | | | Attention |
|--------------------|-----------------|--|--|
| ₩ 05 | Pattern No. | Direct 5 DX7 Only Decorative 2: 68, 69 | Turn OFF the power switch before replac- |
| IEE) ≶ 2.6 .4 | Presser foot | Manual buttonhole presser foot (I) Open toe presser foot (O) DX7 Only | ing the presser foot. |

The edge of the appliqué fabric is sewn with a compact zigzag, so it is suitable for the appliqué of cut fabric.

Cut the appliqué fabric at the finish line, put it on the base fabric and fix it temporarily.

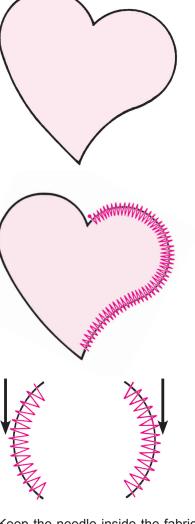
It is recommended to use both-sided adhesive interlining or the similar to fix the appliqué fabric on the base fabric. Use the interlining to the edge of the appliqué fabric.

Turn the hand wheel towards you and start sewing along with the outer side of the appliqué fabric.

* When sewing steep angles, keep the needle inside the fabric, raise the presser foot, change sewing direction and sew slowly.

At the end of sewing, press the lock stitch button to sew lock stitches.

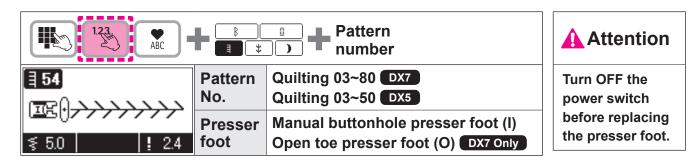
- * Usually center needle position is used for appliqué stitches but right or left needle position can be used. Changing needle position: Refer to page 85.
- * You can also sew appliqués using the pattern Nos. 68 and 69 for elongation of the decorative patterns 2. Refer to page 103.



Keep the needle inside the fabric at the point of arrow and raise the presser foot.

Appliqué (2) **Attention** ABC Turn OFF the Pattern number power switch) # before replacing **Direct 6** the presser foot. ₩ 06 Pattern Quilting 44~50 DX7 No. Quilting 40~45 DX5 Presser Manual buttonhole presser foot (I) foot Open toe presser foot (O) DX7 Only To make the stitch unconspicuous, an appliqué can be sewn. Cut the appliqué fabric with seam allowance of 3~5mm. Seam allowance Put the pattern paper onto the wrong side of the fabric and fold the seam allowance at the finish line. Put the appliqué fabric on the base fabric. Pattern paper Temporarily fix it with basting stitches or glue. **4** Turn the hand wheel towards you and start sewing along with the outer side of the appliqué fabric. Basting * When sewing steep angles, keep the needle inside the fabric, raise the presser foot, change sewing direction and sew slowly. Lock stitch at the end of sewing. It is better to lock stitch at the outer side of the appliqué fabric. * You can change the stitch base as you desire. Changing needle position: Refer to page 85.

Crazy quilt

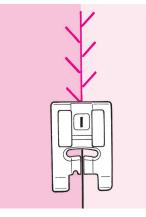


Using a decorative stitch, this gives a decorative look to the joining of patchworks.

It is recommended to use decorative thread such as embroidery thread.

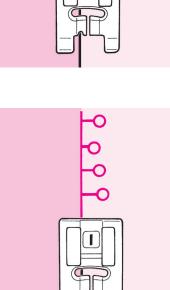
Example 1) Quilting 54

Sew patterns so that they extend over both pieces of fabric.



Example 2) Quilting 56

Sew patterns so that the presser foot holds one side of fabric.



DX7 Only

★ Random pattern

Random stitch patterns (Quilting 64~80) are transformations of Quilting 47~63.

The width can be changed automatically by section, so that you can enjoy those patterns.

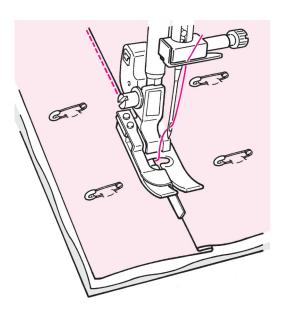
Stitch in ditch quilting

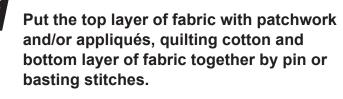
| <mark>₩ 01</mark> @≿ <u>0</u> | Pattern No. | Direct 1 DX7 Quilting 40 DX5 Quilting 36 | Tur bet |
|----------------------------------|--------------|--|------------|
| ାଇପ ା ହୁ 3.5 ାୁ 2.4 | Presser foot | Edge sewing presser foot (R) This is separately available for DX5 | |



Turn OFF the power switch before replacing the presser foot.

This is for quilting the edge of patchworks and appliqués. The machine will sew the lower (thinner) side of the fabric layers. As a result, the stitches will not be noticeable and have an effect to make the design look three dimensional or emphasized.





2 Put the guide of the presser foot along with the crease and sew.

The needle enters behind the guide, so that the edge of the crease can be sewn.

* If the desired points can not be sewn, adjust the needle position.

Needle position change: refer to pages 41 and 85.

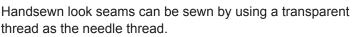
★ Curved concealed quilting

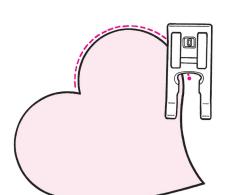
Use manual buttonhole presser foot (I) or the open toe presser foot (O). Sew curves by lifting the presser foot and changing the direction very often.

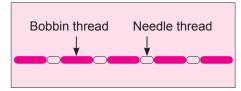
Also this can be done by free motion with the quilt presser foot. (Refer to page 72.)



★ Hand look quilt stitches



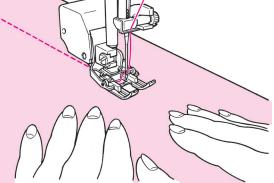




Quilting (straight stitch)



Setscrew for presser



Quilting is the process of sewing the top layer of fabric, with quilting cotton in between and a bottom layer of fabric underneath.

By using the walking foot, the machine feeds both top and bottom fabrics together at the same time, so fabric shifting is eliminated.

Put top layer of fabric with patchwork and/ or appliqué, quilting cotton and bottom fabric together by using pin or basting stitches.

Assemble the walking foot.

Raise the presser bar. Loosen the setscrew for presser foot holder and remove the presser foot holder. (Refer to page 16)

Fit the actuating lever on the needle clamp. Then, fit the assembling point of the walking foot in the presser bar. Securely tighten the setscrew for presser foot holder.

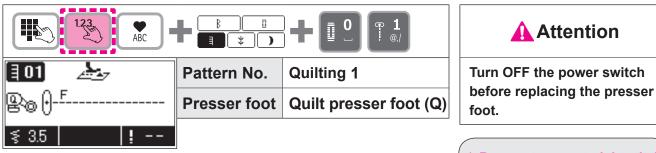
Place your hands to both sides of the presser foot and sew by pulling the fabrics apart.

* Sew with slow to medium sewing speed.

* To further avoid fabric shifts, set the presser foot pressure lower.

Adjustment of presser foot pressure: Refer to page 29.

Quilting (free motion)



It is called free motion quilting when moving the fabrics freely towards any directions without using the feed dog of sewing machine.

When the feed dog is lowered (drop feed condition), it is possible to sew various curves and/or any directions by moving the fabrics by hands.

* Be sure to sew straight stitch pattern (center stitch base). When doing the free motion with zigzag stitch, use the quilt presser foot (Transparent zigzag type) which is optional-

ly available from your dealer.

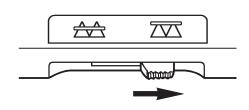
Setscrew for presser foot holder Presser foot holder Setscrew for presser foot holder

Put top layer of fabric with patchwork and/ or appliqué, quilting cotton and bottom fabric together by using pin or basting stitches.

2 Assemble the quilt presser foot.

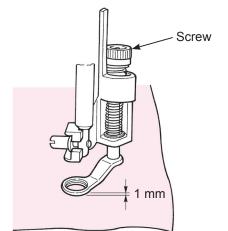
Raise the presser bar. Loosen the setscrew for presser foot holder and remove the presser foot holder. (Refer to page 16)

Set the quilting foot and tighten the setscrew for presser foot.



Move the drop feed knob to the right hand side.

Feed dog is now down.



4 Place the fabric underneath the presser foot and lower the presser foot.

Adjust the presser foot height according to the material thickness.

The height can be adjusted in two different ways.

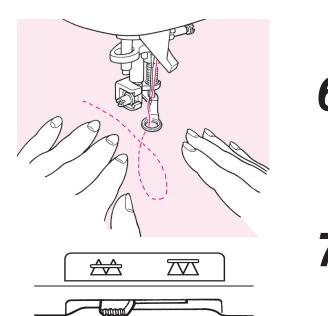
① In the case of free motion (Pattern No. Quilting 1), the presser foot height for the float function can be adjusted with the stitch length adjusting dial.



Height increases

② Adjusting with the presser foot screw.

The material can be moved smoothly with no resistance by adjusting the presser foot height to about 1 mm above the material.



Use both hands to hold the fabrics and move it without letting it loose. The target stitch length is about 1.5 ~ 2.0 mm.

When free motion sewing is finished, move the drop feed knob back to the left side.

The feed dog will be up and engaged at the same time as the machine starts to sew.

Tips

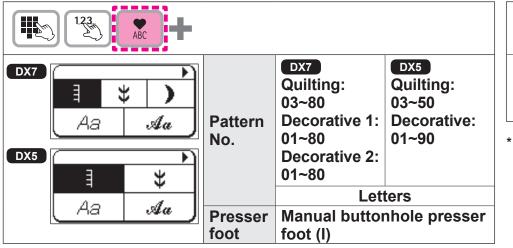
How to lock stitches

- 1. At sewing start, pull up the bobbin thread on the top layer of the fabric, hold both needle and bobbin threads together and sew 3 stitches on the same point. After that move fabrics as you wish. In this way, stitches on the wrong side of the fabrics look neat.
- 2. At sewing-end sew 3 stitches on the same point and stop.

• How to sew stitches with the same stitch length

- 1. When the foot controller is used, the fabrics can be guided by both hands and you can move the fabrics freely.
- 2. Set the speed controller to medium or medium low first, press the foot controller completely and move the fabrics.
 - -- if stitches become too large, set the speed controller to "faster"
 - -- if stitches become too small, set the speed controller to "slower".

One-point stitch/sewing letters

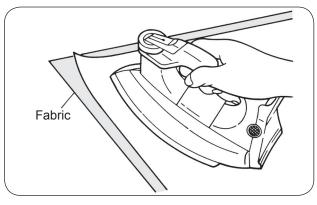


Attention

Turn OFF the power switch before replacing the presser foot.

In the case a quilting pattern is sewn as the one-point stitch, some pattern shapes can be different from those displayed on the screen.

Preparation before sewing

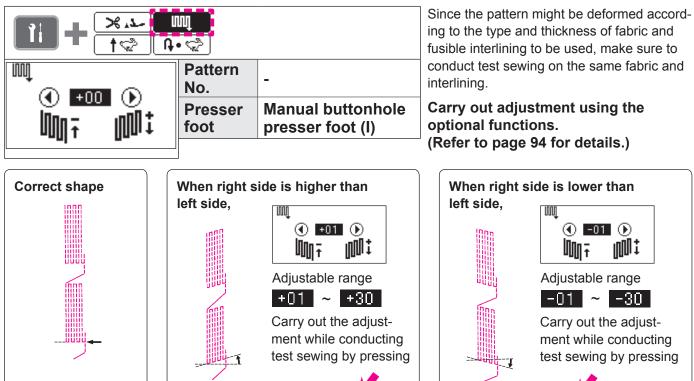


(in order to sew a pattern neatly, apply interlining and conduct a test sewing first.)

Use an iron to attach a fusible interlining to the wrong side of fabric.

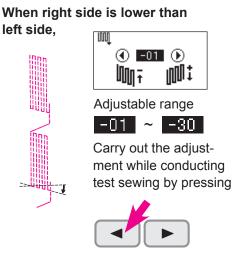
* When stitch length becomes too small, the bobbin thread will come out to the front side of fabric and/or stitches might get stuck. Therefore make sure to conduct a test sewing beforehand.

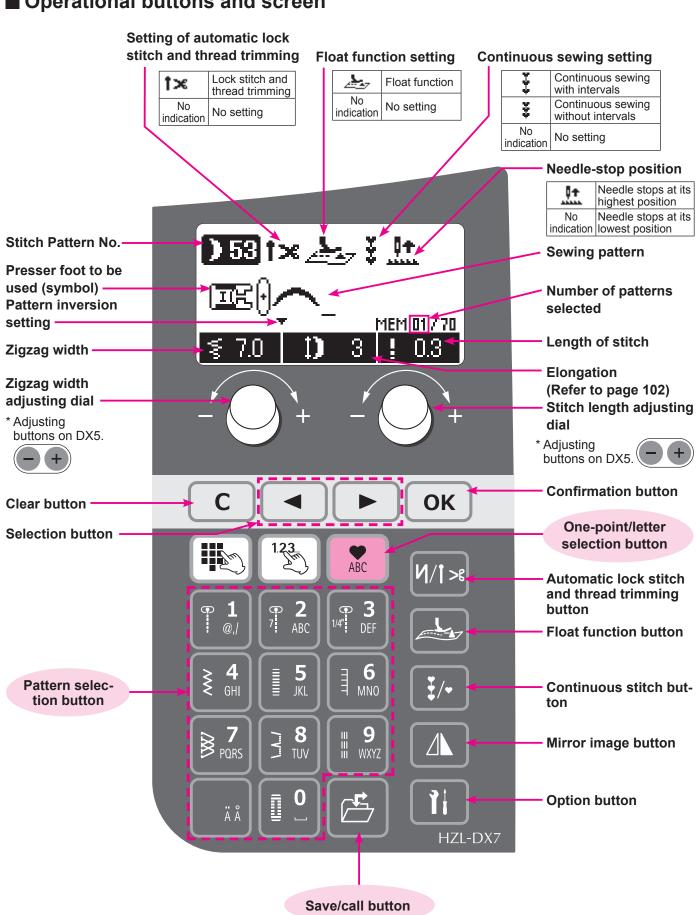
Test sewing



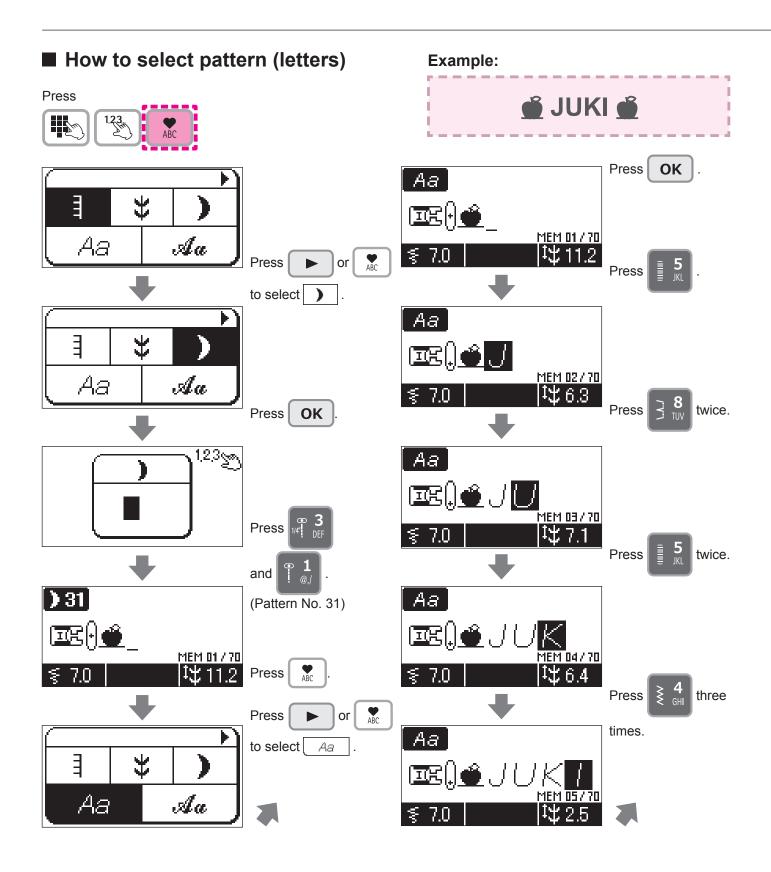
ing to the type and thickness of fabric and fusible interlining to be used, make sure to conduct test sewing on the same fabric and interlining. Carry out adjustment using the

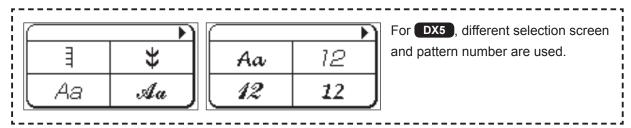
optional functions. (Refer to page 94 for details.)

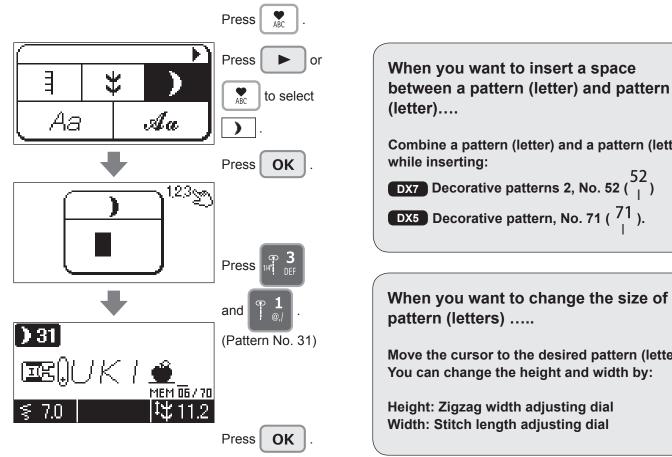




Operational buttons and screen







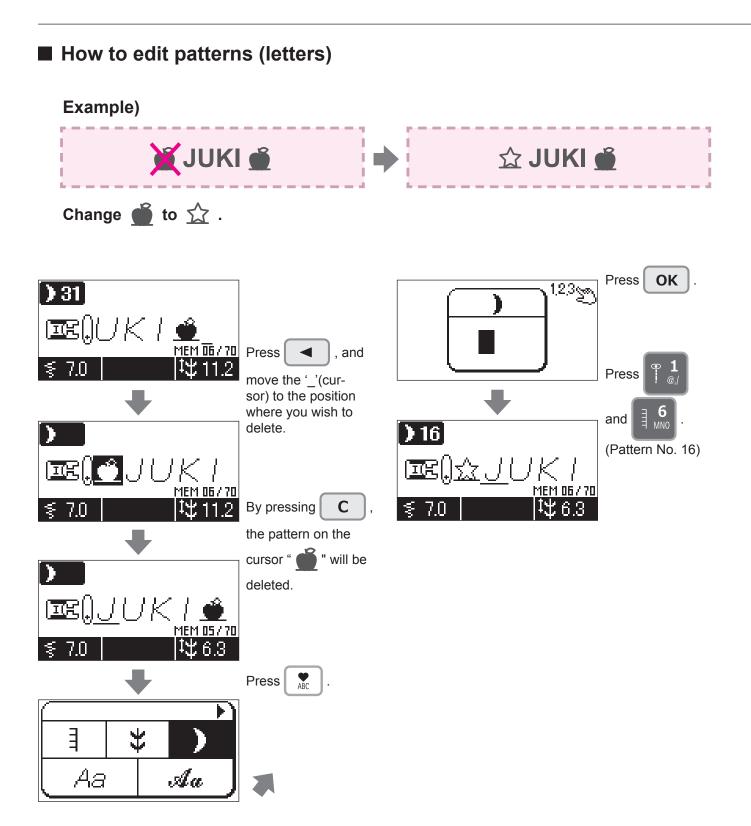
Combine a pattern (letter) and a pattern (letter) while inserting: Dx7 Decorative patterns 2, No. 52 $\binom{52}{1}$

DX5 Decorative pattern, No. 71 (71).

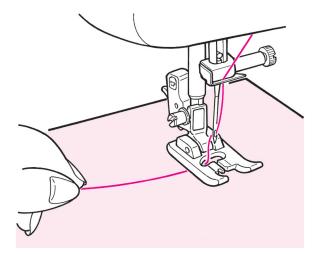
When you want to change the size of pattern (letters)

Move the cursor to the desired pattern (letter). You can change the height and width by:

Height: Zigzag width adjusting dial Width: Stitch length adjusting dial



How to stitch a pattern (letters)



Pass down the needle thread through the presser foot hole and draw it sideways. Place the fabric underneath the presser foot and start.

The machine will stop automatically when sewing is finished.

Notes:

- 1. Note that the sewing speed varies according to stitch patterns (letters) to be sewn.
- 2. If the automatic thread trimmer is used while sewing, the machine starts to sew from the beginning.
- 3. In case of condensed sewing, if the stitch length is too small, the stitches may get stuck.

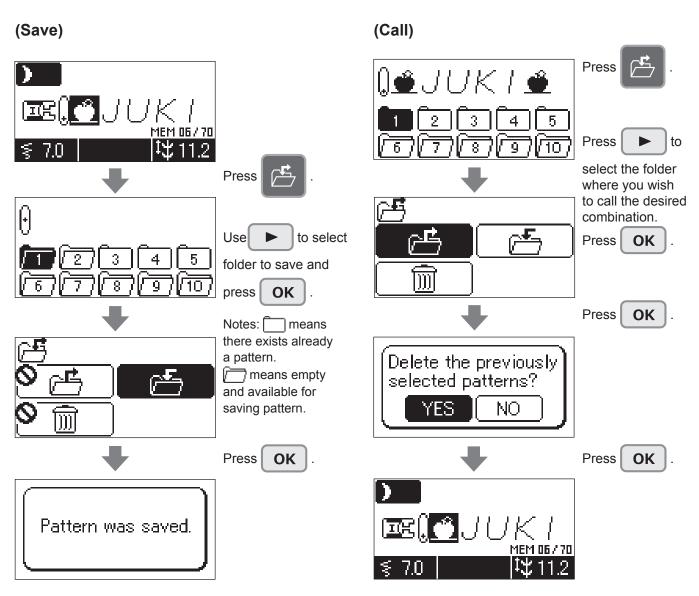
Disposing thread ends of jump stitches

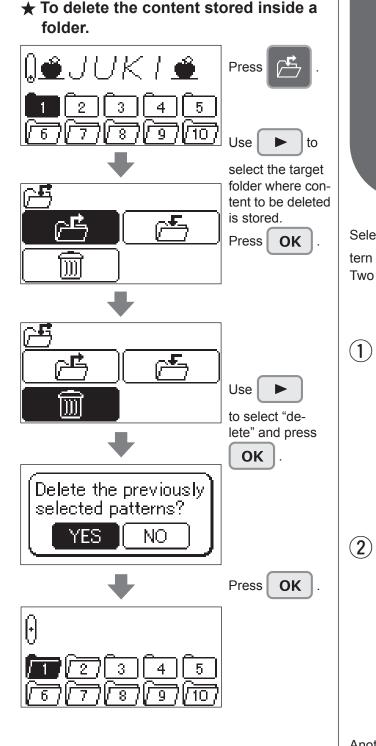
Get rid of unnecessary thread on the front side of fabric by scissors.



Save/call of patterns (letters)

The letters and one point patterns can be combined and saved for later use. There are 10 folders in total for saving.





To sew patterns continuously

A combination of letters and one-point stitches or single patterns can be sewn continuously.



Select a pattern and press . Then, the selected pattern can be sewn in repetition.

Two kinds of continuous sewing can be selected.

1 Press /-

once:

is displayed on the screen. In this case, patterns can be sewn continuously with large intervals inserted between patterns.

Example)





twice:

is displayed on the screen. In this case, patterns can be sewn continuously with small intervals inserted between them.



¥/•

Another press on

cancels the continuous sewing.

* If you cancel the continuous sewing during sewing, the sewing machine stops after the completion of the pattern it has been sewing.

Character selecting methods

Aa Aa Aa

| | | No. of pressing a button | | | | | | | | | | | | |
|-------------------------------|---|--------------------------|---|---|---|---|---|---|---|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| e 1 ! _{@/} | @ | ! | & | , | (|) | , | • | ? | _ | • | / | • | ; |
| 7 2 ABC | А | В | С | а | b | с | | | | | | | | |
| B 3 1/4" DEF | D | Е | F | d | е | f | | | | | | | | |
| ₹ 4 GHI | G | Н | I | g | h | i | | | | | | | | |
| 5 JKL | J | К | L | j | k | I | | | | | | | | |
| 6 MNO | М | Ν | 0 | m | n | 0 | | | | | | | | |
| PQRS 7 | Ρ | Q | R | S | р | q | r | s | | | | | | |
| 8 ⊢∨-7 | Т | U | V | t | u | v | | | | | | | | |
| III 9 III WXYZ | W | х | Y | Z | w | x | у | z | | | | | | |
| | _ | | | | | | | | | | | | | |

| 12 1 | 2 | 12 | 12 | | |
|------------------------|---|-------------------|----|--|--|
| | | o. of p ig a b | | | |
| | | 1 | | | |
| p 1 [@,/ | | 1 | | | |
| 7 2 7 ABC | | 2 | | | |
| ₽ 3 1/4" DEF | | 3 | | | |
| ₹ 4 GHI | | 4 | | | |
| 5 ЈКL | 5 | | | | |
| 6 MNO | | 6 | | | |
| 7 PΩRS | | 7 | | | |
| 7-7 TUV | | 8 | | | |
| H 9 WXYZ | | 9 | | | |
| | | 0 | | | |

| | | No | | pres utto | ssinę n | ga |
|----|-------------------------------|-------------|---|--------------|------------|----|
| | | 1 | 2 | 3 | 4 | 5 |
| | Immediately after selecting A | Ä | Å | Æ | А | |
| | Immediately after selecting a | à | ä | å | а | |
| | Immediately after selecting C | Ç | С | | | |
| | Immediately after selecting c | Ç | С | | | |
| ÄÅ | Immediately after selecting e | è | é | ê | ë | е |
| | Immediately after selecting i | ì | i | | | |
| | Immediately after selecting N | Ñ | Ν | | | |
| | Immediately after selecting n | ñ | n | | | |
| | Immediately after selecting O | Ö | Ø | 0 | | |
| | Immediately after selecting o | ò | ö | ø | œ | 0 |
| | Immediately after selecting U | Ü | U | | | |
| | Immediately after selecting u | ù | ü | u | | |
| | Other than the above letters | Ineffective | | | | |

Type and usage of options



| | Type of c | | 12L-DX7 | Default setting | If a pattern is selected again | If the pow- er is turned OFF and re-turned ON |
|----|--------------|---|---|---|--|---|
| 1 | | Changing the seam width of buttonhole | The seam width of buttonhole is changeable. | Standard | The current setting will remain. | The setting will return to the default. |
| 2 | +++ •••• | Change of needle position | You can change the stitch base line. | (Depend- ing on the pattern) | The setting will return to the default. | The setting will return to the default. |
| 3 | | Selecting the stop position of needle | You can select the needle position (needle-up or needle-down) when the sewing machine stops. | Stop with the needle down | | The current setting will remain. |
| 4 | | Twin needle sewing | Select this option when using twin needle. | Single needle | The current setting will remain. | The current setting will remain. |
| 5 | 2. | Foot switch function | You can select the operation to be carried out when depressing the front section of the foot controller. You can select the operation from among "reverse stitch", "lock stitch", "half stitch sewing", "one stitch sewing", "presser foot lifting/lowering", "thread trimming" and "no function". | reverse stitch | The current setting will remain. | The current setting will remain. |
| 6 | ** * | Presser foot pivot function | You can select the setting where the presser foot goes up with the needle held in the needle-down stop position when you stop the sewing machine. | ON | The current setting will remain. | The current setting will remain. |
| 7 | ** #1 | Setting the pivot height | You can set the presser foot height in the case of using the pivot function. Setting range: 2.0 - 6.0 mm (in increments of 1 mm) | 2.0 | The current setting will remain. | The current setting will remain. |
| 8 | | Setting the float- function height | You can set the presser foot height when pressing the float function button. Setting range: 0.0 - 2.5 mm (in increments of 0.1 mm) | 0.5 | The current setting will remain. | The current setting will remain. |
| 9 | حر | Setting of the presser foot lifting after thread trimming | You can select the setting were the presser foot goes up automatically after the completion of thread trimming. | ON | The current setting will remain. | The current setting will remain. |
| 10 | _ wij | Adjusting the darning | This function is used for adjusting the pattern shape. Adjustable range: -30 - 30 | 0 | The current setting will remain. | The current setting will remain. |
| 1 | † \$ | Adjustable starting stitch speed | You can select the sewing speed to be employed at the start of sewing. | Slow | The current setting will remain. | The current setting will remain. |
| 12 | f• | Adjustable reverse stitch speed | You can select the reverse stitch speed and lock stitch speed. | Slow | The current setting will remain. | The current setting will remain. |
| 13 | | Guide | The guide for winding bobbin thread, setting of bobbin, threading of needle thread, changing presser foot and needle can be seen on the LCD display. | - | - | _ |
| 14 | × | Adjusting the touch panel sensitivity | You can adjust the touch panel sensitivity in five steps. | 3.0 | The current setting will remain. | The current setting will remain. |
| 15 | | Contrast of Liquid Crystal Display (LCD) | The LCD contrast can be chosen from 11 levels. | 6 | The current setting will remain. | The current setting will remain. |
| 16 | 4 : | Button reception buzzer volume setting | You can change the volume of buzzer that is produced when pressing the button on the touch panel. | Loud | The current setting will remain. | The current setting will remain. |
| 17 | • | Language setting | You can select language from 8 languages or pictographs. | (Depend- ing on destina- tion) | The current setting will remain. | The current setting will remain. |
| 18 | 1) | Elongation | The length of the patterns (DX7 Decorative 2: No.53 ~ 69, DX5 Decorative: No.72 ~ 84) can be adjusted. Adjusting range is from size 1 to size 5. | (Depend- ing on the pattern) | The current setting will remain. | The setting will return to the default. |
| 19 | 1 | Deleting the settings | You can reset all settings to their default settings. | - | - | - |

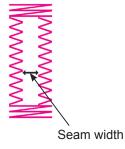
1 Change of seam width of buttonhole

The seam width of buttonhole is changeable. * It is changeable when sewing a buttonhole.

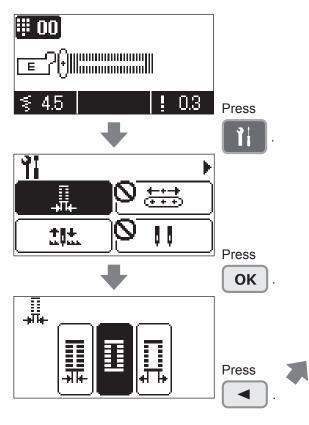


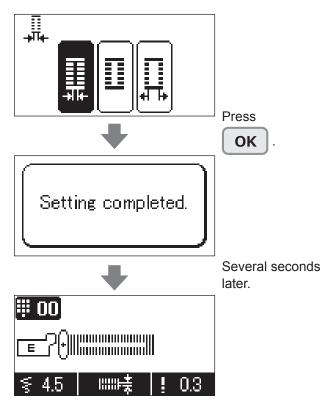


* Default setting is "standard".



Example) narrowing (reducing) the seam width



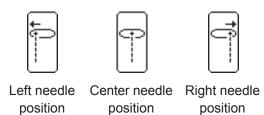


The width is now changed.

- * When opening buttonhole with a ripper, make sure not to cut the stitches.
- * The setting goes back to the default setting after the sewing machine is turned off and on.

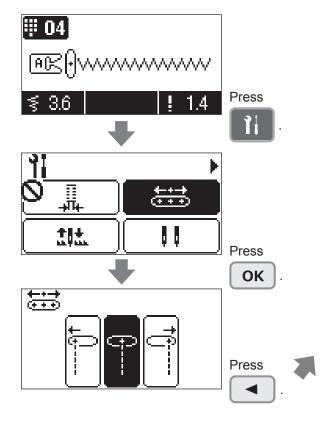
(2) Change of needle position

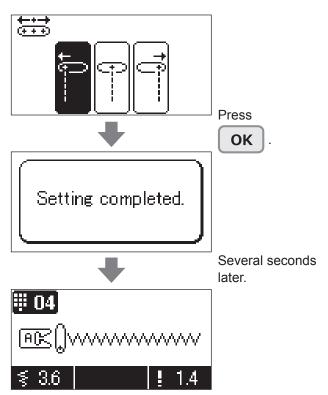
You can change the stitch base line.



* Default setting differs with pattern.

Example) change the needle position of zigzag stitch to left needle position.





It is now changed to left needle position.

* In case of a combined stitch pattern, if the needle position is changed, the needle position of the selected patterns is all changed to the same needle position at the same time.

However, if letter is included in the combined stitch pattern, needle position will not be changed.

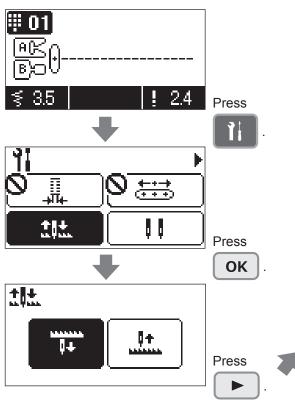
* After a change of needle position and in the event that other stitch pattern is selected, the sewing machine goes back to the default setting.

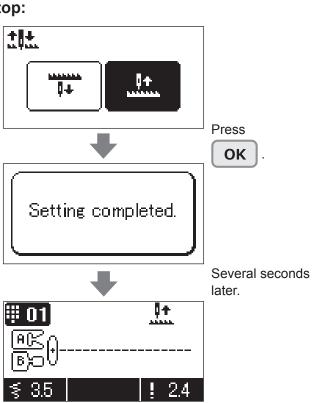
3 Selecting the stop position of needle

You can select the needle position (needle-up or needle-down) when the sewing machine stops.

* Default setting is the needle-down stop.

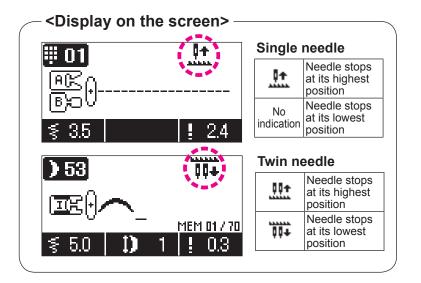
Example) To set the needle position when the sewing machine stops to the needle-up stop:



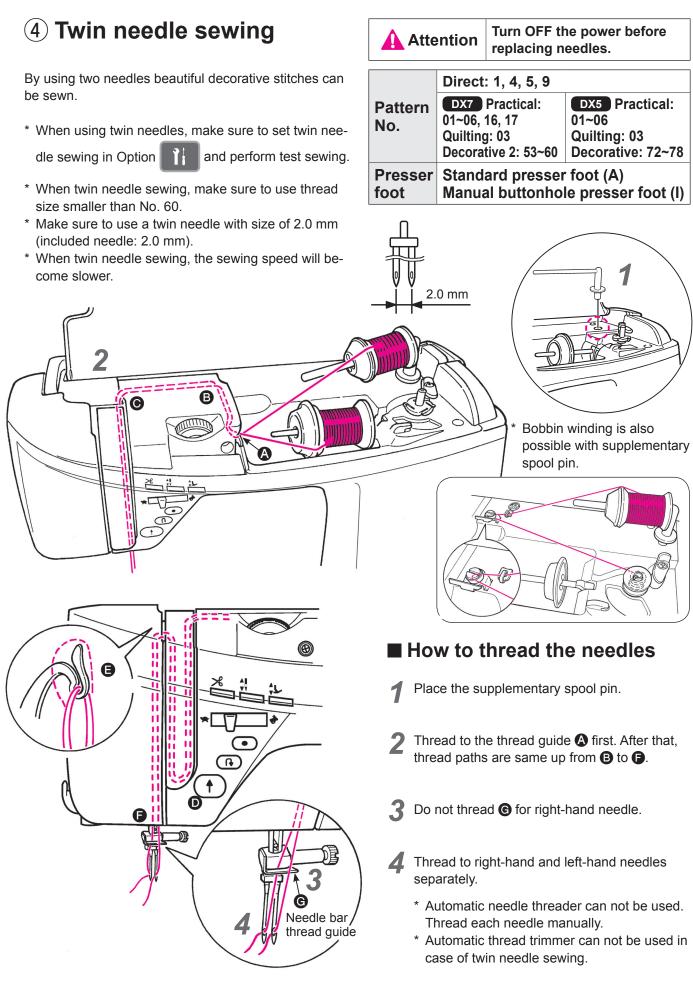


The needle stop position is set to the needle-up stop.

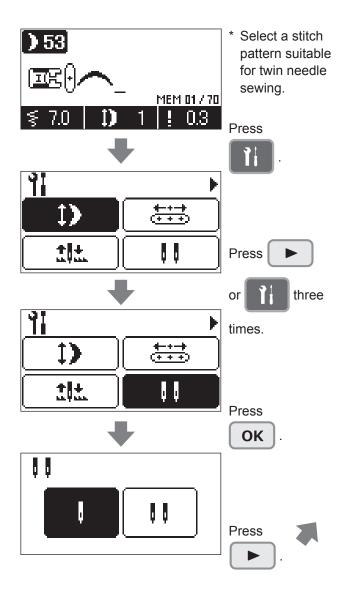
* The setting is memorized even when the machine is turned off and on.

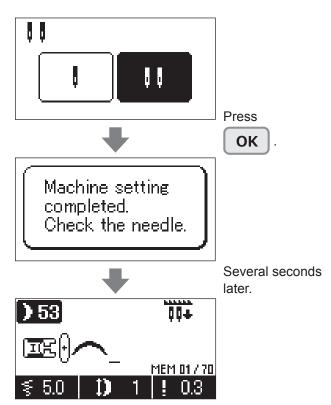


* In the case the needle stop position is set to the "needle-up stop", the presser foot pivot function is automatically set to OFF.









Symbol of twin needle sewing will be shown on the display.

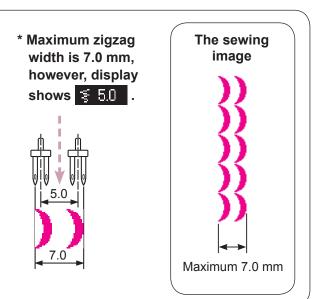
- * When in twin needle sewing, the stitch patterns will be limited. In addition, the stitch length and zigzag width will be also adjusted to suit the twin needle sewing.
- * The setting is memorized even when the machine is turned off and on.
- * Twin needle setting can not be done while a stitch pattern other than those for twin needle sewing is selected.



mark will be shown.



The twin needle setting can only be carried out when suitable pattern is selected and center needle position is selected at the same time.

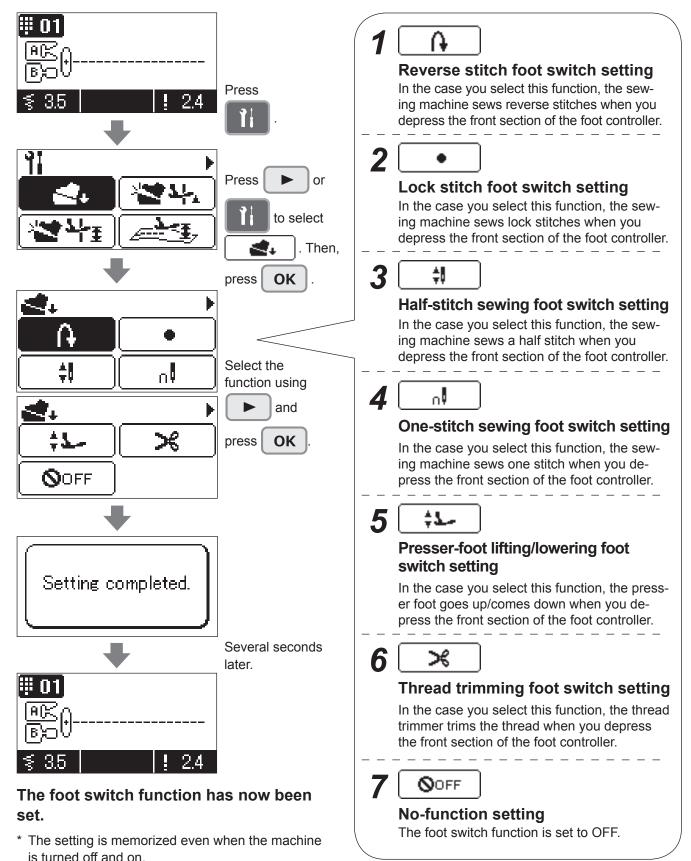


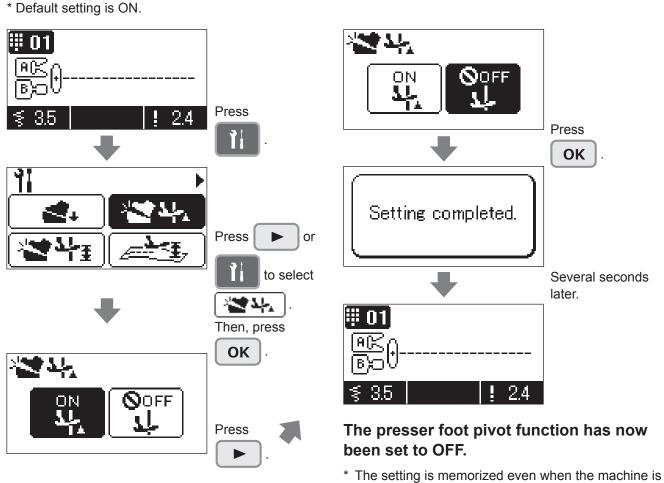
(5) Foot switch function

You can select the operation to be carried out when depressing the front section of the foot controller.

You can select the operation from among "reverse stitch", "lock stitch", "half stitch sewing", "one stitch sewing", "presser foot lifting/lowering", "thread trimming" and "no function".

* Default setting is the "reverse stitch".





turned off and on.

In the case the needle stop position is set to the "nee-

dle-up stop", the presser

foot pivot function is automatically set to OFF.

You can select the setting where the presser foot goes up with the needle

held in the needle-down stop position when you stop the sewing machine.

6 Presser foot pivot function

Example) To set the presser foot pivot function to OFF



7 Setting the pivot height

You can set the presser foot height in the case of using the pivot function. Setting range: 2.0 - 6.0 mm (in increments of 1 mm)

* Default setting is 2.0 (mm).

ᢆᢣᡃ᠇᠍᠍ 🛱 01 АC 3.0 2.0 6.0Press 2.4 3.5 ş Press ΟΚ 91 ▶ Setting completed. Press or to select Several seconds later. **철학**王 -**III 01** Then, press OK ₩₽ 2.0 2.4 3.5 2.0 6.0 Press The pivot height has now been set to 3.0 (mm).

Example) To set the pivot height to 3.0 (mm)

8 Setting the float-function height

You can set the presser foot height when pressing the float function button.

Under this mode, the straight stitch (Pattern No. 1) is automatically selected.

Press

2.4

Setting range: 0.0 - 2.5 mm (in increments of 0.1 mm) * Default setting is 0.5 (mm).

Adjusting the float-function height

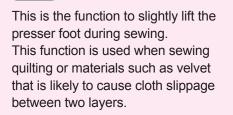
Press

N1

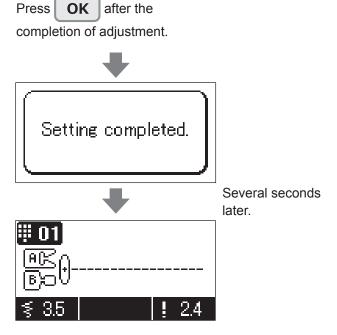
to adjust the presser foot to

such a height that it holds the fabric appropriately.

Place the fabric (for test sewing) which is same with the fabric to be actually sewn. Adjust the presser foot height on the setting screen and carry out test sewing. If the presser foot height is excessively high, the fabric cannot be fed causing thread entanglement. It is therefore necessary to adjust the presser foot height carefully.



Float function



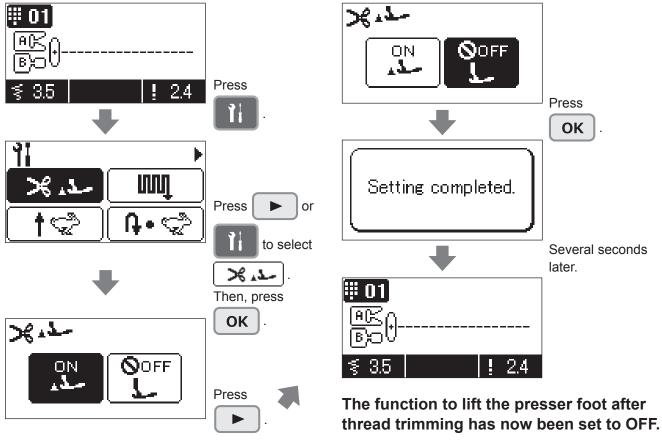
The float-function height has now been changed.

(9) Setting of the presser foot lifting after thread trimming

You can select the setting were the presser foot goes up automatically after the completion of thread trimming.

Example) To set the function to lift the presser foot after thread trimming to OFF

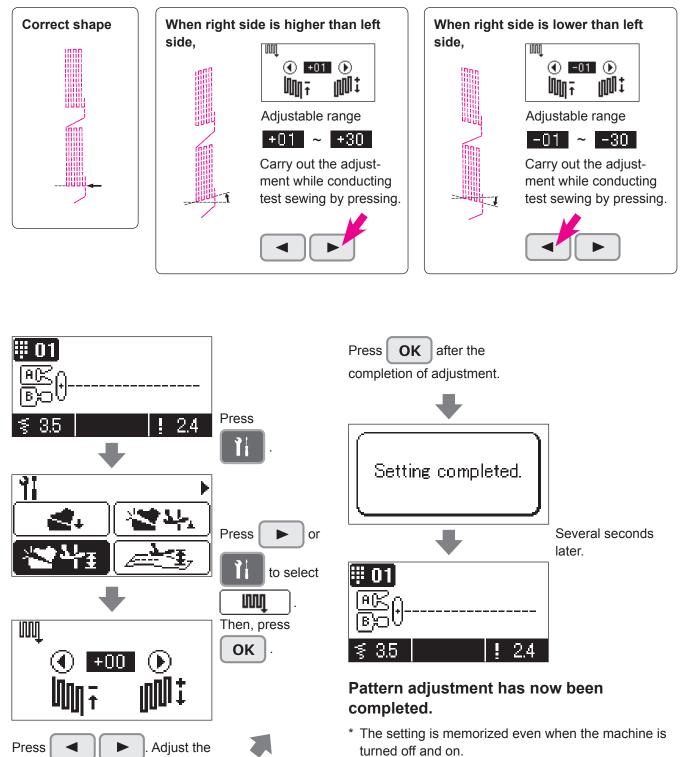
* Default setting is ON.



10 Adjusting the darning

This function is used for adjusting the pattern shape. Adjustable range: -30 - 30

Example)



pattern while carrying out test sewing.

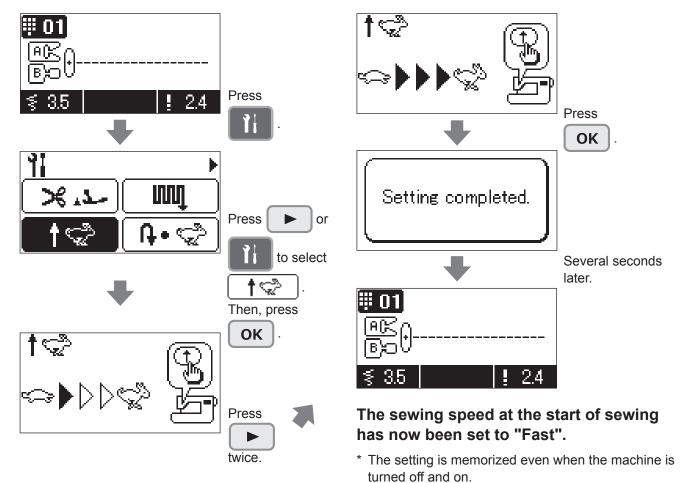
1 Adjustable starting stitch speed

You can select the sewing speed to be employed at the start of sewing.



* Default setting is "Slow".

Example) To increase the sewing speed at the start of sewing



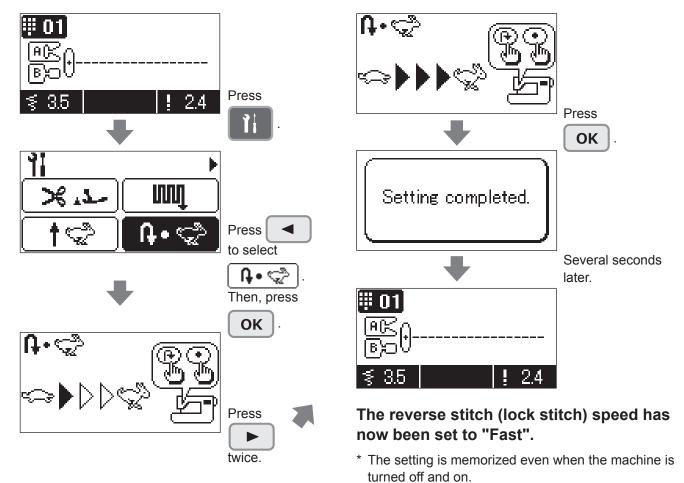
12 Adjustable reverse stitch speed

You can select the reverse stitch speed and lock stitch speed.



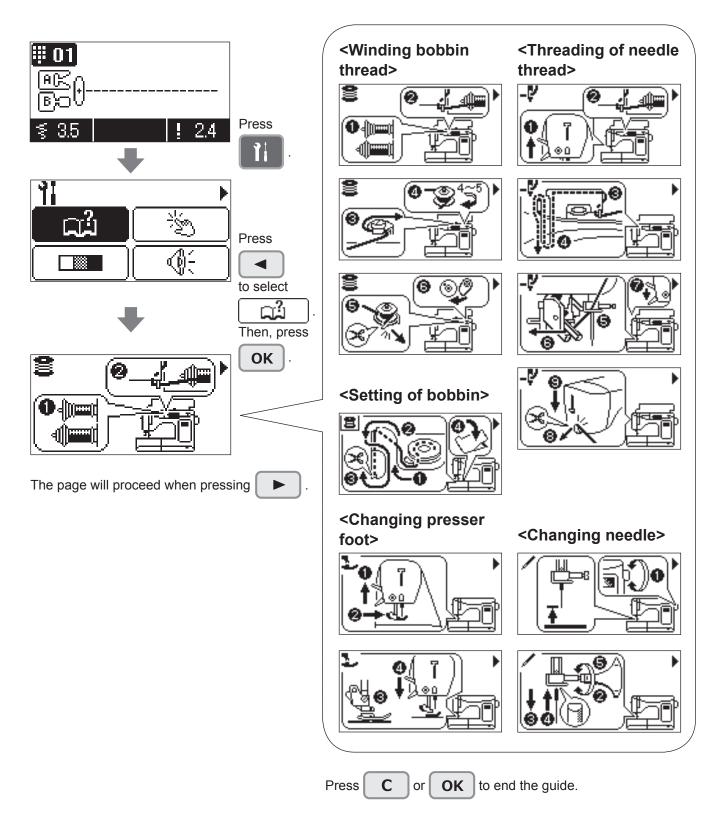
* Default setting is "Slow".

Example) To increase the reverse stitch (lock stitch) speed



13 Guide

The guide for winding bobbin thread, setting of bobbin, threading of needle thread, changing presser foot and needle can be seen on the LCD display.

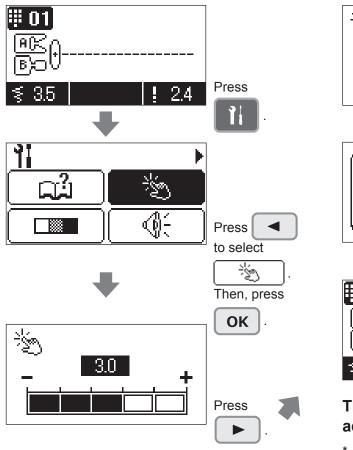


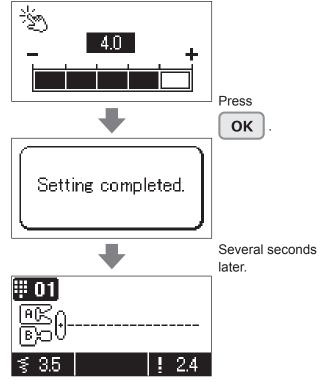
14 Adjusting the touch panel sensitivity

You can adjust the touch panel sensitivity in five steps. Setting range: 1.0 - 5.0

* Default setting is 3.0

Example) To increase the touch panel sensitivity (to 4.0)





The touch panel sensitivity has now been adjusted to "4.0".

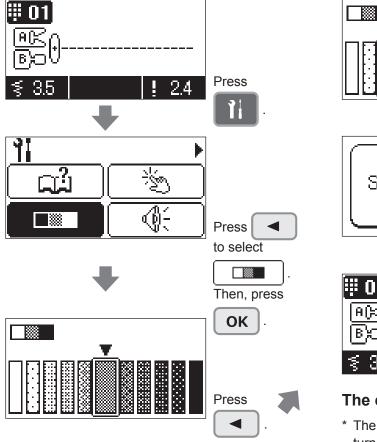
(15) Contrast of Liquid Crystal Display (LCD)

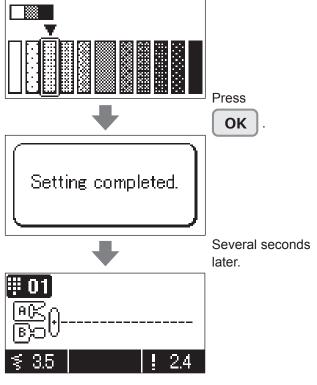
The LCD contrast can be chosen from 11 levels.

| 1 | 2 | З | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 1 |
|---|---|---|---|---|---|---|---|---|----|---|---|

* Default setting is 6.

Example) Reduce the contrast of display.

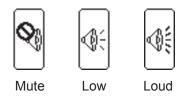




The contrast is now changed.

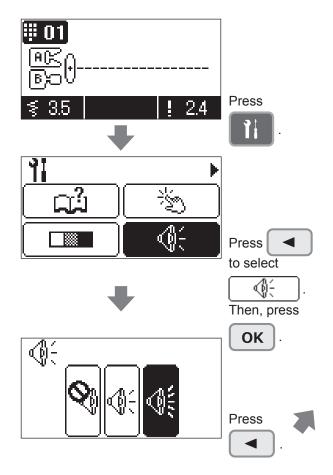
16 Button reception buzzer volume settings

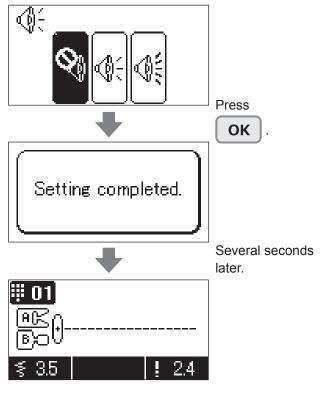
You can change the volume of buzzer that is produced when pressing the button on the touch panel.



* Default setting is "Loud".

Example) Setting the volume to "mute"





Now the volume setting is changed and it will not produce a sound even when a button is pressed.

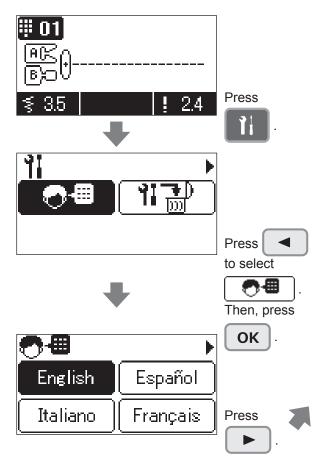
17 Language setting

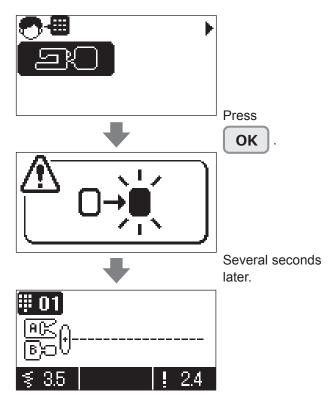
You can select language from 8 languages or pictographs.



* Default setting is English.

Example) To change the setting to "Pictograph"





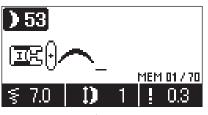
The language is now changed to pictograph and all messages will be displayed in pictograph from now on.

18 Elongation

 The length of the patterns (DX7 Decorative 2: No.53 ~ 69, DX5 Decorative: No.72 ~ 84) can be adjusted.

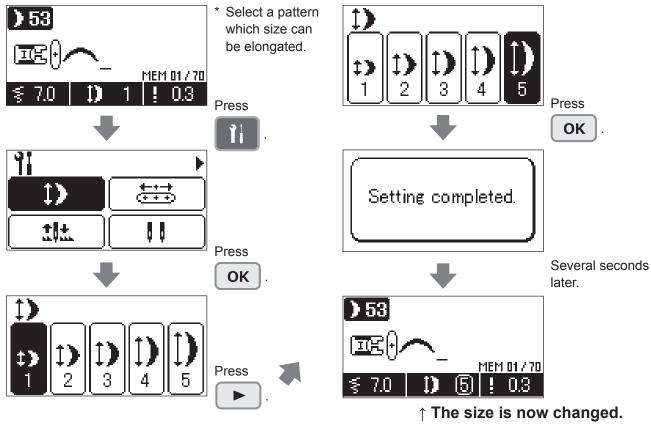
Pattern No.

Decorative 2: 53~69 DX7 Decorative: 72~84 DX5



Adjusting range is from size 1 to size 5. (Default setting is size 1.)

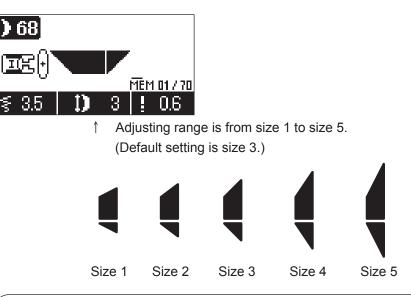
Example) changing to size 5



DX7 Only

For the pattern Nos. 68 and 69 of the Decorative 2, zigzag width gradually increases at the start of sewing the patterns and gradually decreases at the end of sewing. These patterns are used for overcasting appliqué, etc.





How to sew the pattern)

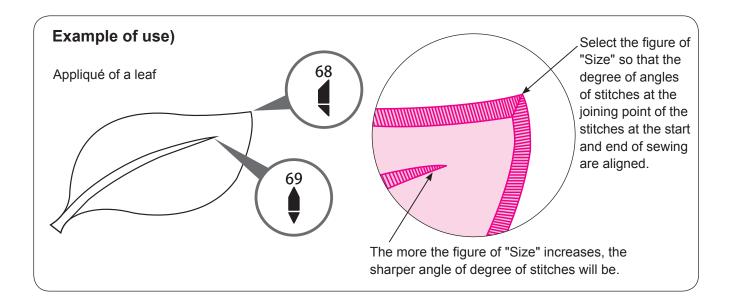
Select the pattern and start the sewing machine.

The zigzag width gradually increases.

When the preset zigzag width is reached, the sewing machine continues sewing with that zigzag width.

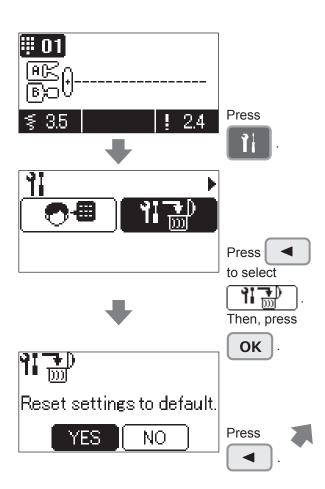
Press the lock stitch button at the end of sewing.

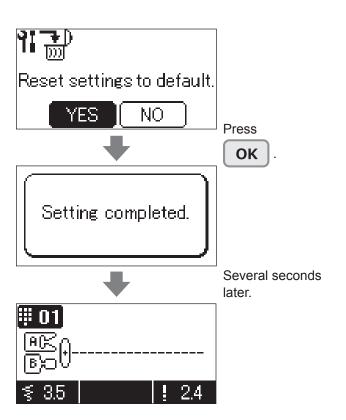
For the same sewing length with the start of sewing, the zigzag width gradually decreases. The sewing machine sews lock stitches and automatically stops.



19 Deleting the settings

You can reset all settings to their default settings.





All of the settings have now been reset to their default settings.

Message catalog

| | Mess | sage | Oana (Daaran ta dian lan anah maraana) |
|---|---|------------------|--|
| | English | Pictograph | Cause (Reason to display such messages) |
| 1 | Lower presser foot. | | A. When "start/stop", "reverse stitch" or "thread-trimming" button is pressed while the presser foot is raised.B. When presser foot is raised while sewing. |
| 2 | | Same as the left | A. When one of the buttonhole stitches is selected and the buttonhole sensor pin is not connected, the machine starts to sew. |
| 3 | | Same as the left | A. When a stitch pattern other than buttonholes is selected but the buttonhole sensor pin is connected, the machine starts to sew. |
| 4 | Memory is full. | | A. When in the mode, user attempts to select stitch patterns more than the maximum number of memory (70). |
| 5 | Delete the previously selected patterns? YES NO | | A. When in the mode and more than one stitch pattern is selected, user attempts to move to mode and/or 123. B. When in the mode and more than one stitch pattern is selected, user presses the C button for more than two seconds (deleting all). |
| 6 | Pattern was saved. | | A. When the process of saving a pattern into folder is completed. |
| 7 | Setting completed. | | A. When in the option setting, settings which will be kept after turning off the machines are changed. (Thread trimming by foot controller, LCD contrast, buzzer volume and language setting) |
| 8 | Machine setting completed. Check the needle. | | A. When the setting of the machine is changed to twin nee- dle sewing (option setting). |
| 9 | Check the machine setting and the needle. | | A. When in twin needle sewing, a stitch pattern other than twin needle sewing is selected. |

| | Mes | sage | Cause (Reason to display such messages) |
|----|---|---------------------------|--|
| | English | Pictograph | Cause (Reason to display such messages) |
| 10 | | Same as the left | A. In the case the motor locks or the safety device works to temporarily stop the machine. |
| 11 | Change the machine setting to straight stitch mode. Press OK. | | A. In the case you try to change over to the needle hole for straight stitches while a pattern which cannot be sewn under the straight stitch selection is selected. |
| 12 | Release the twin needle setting. YES NO | ? 11 + 1 YES NO | A. In the case you try to change over to the straight stitch selection when the twin needle setting is selected. |
| 13 | Release the straight stitch mode. | | A. In the case you select "NO" to the message given in the above column 12. |

Introduction of optional accessory parts

Make your home sewing more pleasant! Please purchase the following items in the shop where you buy our products.

Rolled hemming presser foot

Fabric edge is hemmed while rolling it under. Used for bottom of shirts, blouses, frills and the edge of handkerchiefs.

DX7 DX5

Button attaching presser foot

This presser foot is used to attach buttons on garments.

• Quilt presser foot (Transparent zigzag type)

It is used for free-motion quilting. Zigzag stitch is also possible with this presser foot.

DX7 DX5

Cording and Embroidery presser foot

It is used in free motion quilting and a cord can be sewn together with this presser foot.

DX7 DX5

Pearl attaching presser foot

With this presser foot it is possible to attach pearls, beads and thick cord.

DX7 DX5

Presser foot with guide

As the presser foot has markings, which show 2 mm distance, these marking will serve as a guide.

Binder presser foot

It is possible to attach tapes such as bias tape into four folds.

DX7 DX5

Hemming presser foot for zigzag

Fabric edge is hemmed by zigzag while rolling it under. Used for bottom of shirts, blouses, frills and the edge of handkerchiefs.

DX7 DX5

• Quilt presser foot (open type)

It is used in free motion sewing. As the front portion is open, it is easy to see the needle entry point.

DX7 DX5

Appliqué presser foot

Since the front and back of the presser foot is short, it is easy to move the materials at curve points. Also fabrics can be seen easily because it is transparent.



Cording presser foot

It is possible to attach 1 - 3 cords by three-point zigzag or decorative stitch.



Invisible zipper foot

As a seam does not appear on the right side of the fabric, an opening can be finished with fabric edges neatly butted.

DX7 DX5

• Smooth presser foot

This presser foot is used for non-slippery materials like vinyl and satin stitches.

DX5

• Eyelet punch

This is to open hole at round area of keyhole buttonhole.

DX5

Wide Table

For sewing large projects such as quilts, etc.

DX5

• Open toe presser foot

This presser foot is used for appliqué and decorative stitches. (Front part of the presser foot is open for better visibility.)

DX5

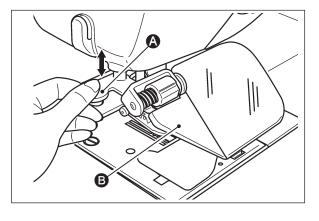
• Edge sewing presser foot

This presser foot is used for patchwork, sewing center line of joined materials by using the center guide of the presser foot.

DX5

• Magnifier

Creates additional magnification to the stitch area.



Attention

If you pull out the magnifier swiftly, your finger may be injured or the cover can be broken.

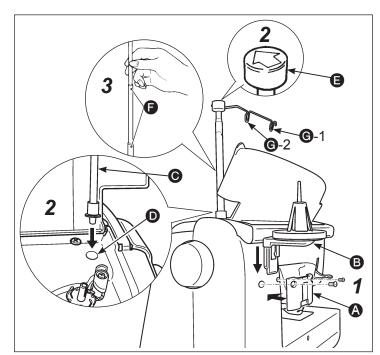
- 1) To install the magnifier, carefully insert it into the mounting hole.
- To adjust the magnifier position, carry out adjustment holding translucent section
 On the left side of the lens surface.
- 3) To remove the magnifier, carefully draw it out holding handle section **(A)**.
- * If the magnifier lens surface looks apparently dirty, wipe it clean with a piece of soft cloth in order to prevent the lens from being damaged.

Spool holder

A spool on which thread is thickly wound can be set. This spool is useful when sewing many stitches at a time such as quilting.

Attention

If you pull the spool holder diagonally or swiftly, it can be broken.



1 Attaching the spool holder.

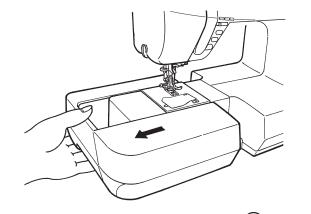
- Install base plate (A) on the back surface of the sewing machine with two screws.
- Carefully insert spool holder **B** into plate **A** until you hear a snick.

2 Attaching the thread guide post.

- Open the top cover of the sewing machine and insert the thread guide post

 into mounting hole
 into
- Fit thread guide **(b)** over the thread guide post with the arrow on the top of the former faced toward the front of the sewing machine.
- **3** Raise the thread guide post fully.
- Turn the spool holder until it engages the positioning stopper **(**) with a click.
- 4 Set the thread on the spool holder. Draw the thread from the spool which is thickly wound with thread you have placed on the spool holder. Put the thread on thread guide G-1 and G-2 in the written order and thread the machine head as usual.

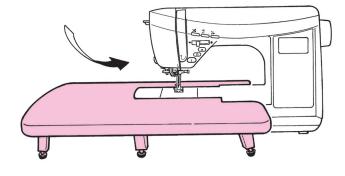
How to install Wide Table



¢

Remove auxiliary bed.

2 Open legs of Wide Table until they stop securely at the stopping position.

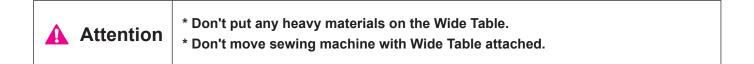


Assemble Wide Table to sewing machine body.

Attach it to free arm of sewing machine.

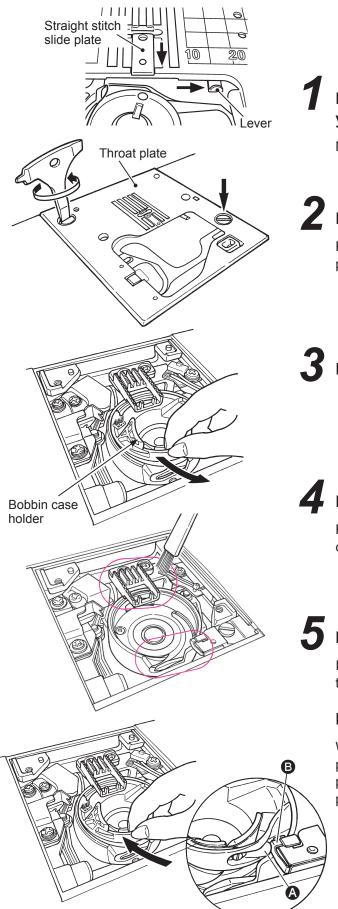
4

Adjust the height of legs so that the top surface of Wide Table is the same height of sewing machine body.



Machine Maintenance

When lint and/or dirt has built up, it may cause machine failures. Therefore, clean the machine frequently.



Attention

Always must be disconnected plug from socket-outlet before remove throat-plate and remove bobbin-case-holder.

Move the straight stitch slide plate toward you (normal needle hole).

Move the lever to the right to use the normal needle hole.

Remove the throat plate

Remove needle and presser foot and remove the needle plate by using T-shape screwdriver.

Remove the bobbin case holder.

Remove lint and dirt.

Remove lint and dirt around the feed dog and bobbin case holder with the cleaning brush.

Install the bobbin case holder.

Install the bobbin case holder so that points (A) and (B) touch each other.

Install the throat plate.

When attaching the throat plate, align the positioning pins with holes of throat plate.

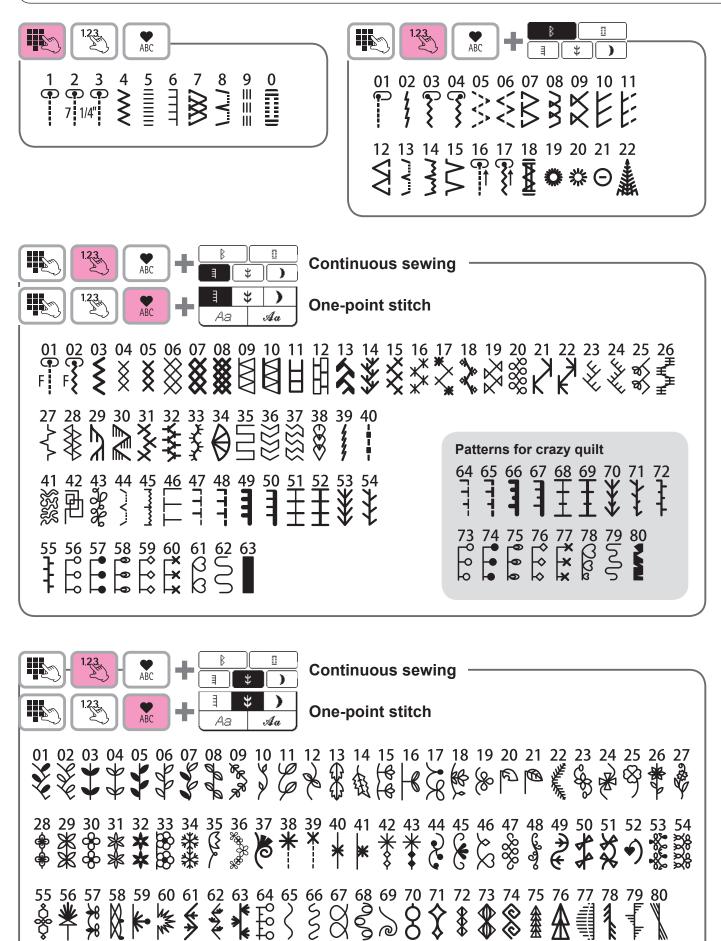
Performance check list

If sewing difficulties occur, make sure the instructions are correctly followed. If a problem still exists, the reminders below may help solve it.

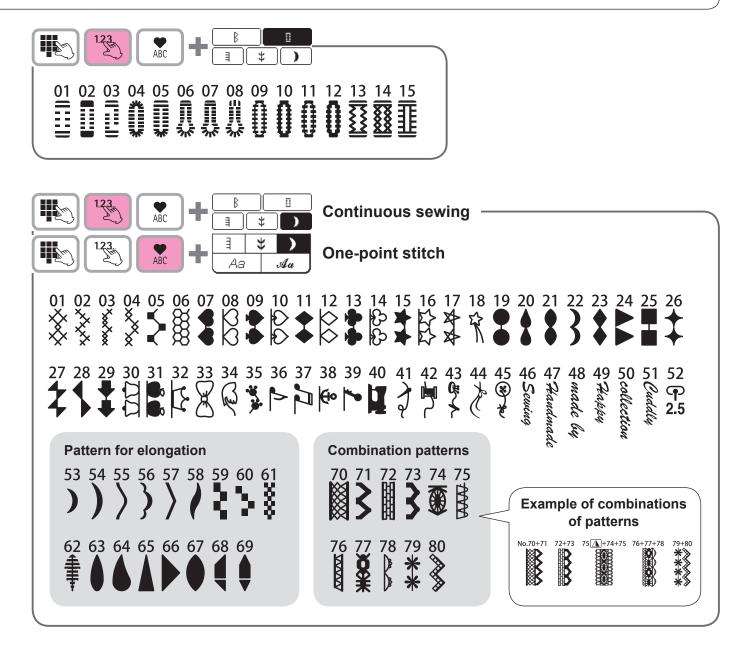
| Case | Cause (Reason) | Solution | Refer- ence page |
|---|---|--|------------------------|
| • The machine stops sew- ing suddenly. (This is in case you can turn hand wheel by hand.) | The machine sews at slow speed continuously. (The machine has a mechanism to automatically cut off the power to prevent the motor from overheating.) | • Turn off the power and wait for a while (about 10 minutes). The safe- ty mechanism will be reset and the machine will return to normal. | 3 |
| The machine will not work even when start/ stop button is pressed. (This is in case sewing light is still on.) | The needle hits presser foot due to an installation of incorrect presser foot. The needle fell into the hook area and tried to start. | Use the appropriate presser foot to the selected stitch pattern. Remove the needle from the hook area. | - |
| Needle breaks. | Thick material is sewn with a thin needle. The needle is not inserted fully. The needle setscrew is not securely | Check the combination of fabric, thread and needle. Check the installation of needle. Securely tighten the needle set- | 27 26 26 |
| | tightened.The wrong presser foot is used for a certain pattern.Needle is bent. | screw.Check the combination of stitch pattern and presser foot to be used.Change needle. | - 26 |
| Loud noise and/or keen noise while sewing | Lint or dust has accumulated in the feed dog. Lint or dust has accumulated in the hook. | Clean the feed dog area.Clean the hook area. | 111 111 |
| Machine fails to feed fabrics. | The stitch length is set at "0". Soft fabrics such as towels are being | When the stitch pattern is reselected, the machine goes back to the default setting. Set the stitch length to 3 – 5. | 43 |
| | sewn. The machine is set in drop feed condition. (the drop feed knob is on the right side) | Set the drop feed knob to left side. | 29 |
| | Float-function height is excessively high. | Adjust the float-function height. | 92 |
| • Needle can not be threaded. (This is in case needle threader will not turn.) | • The needle is not in the up position. (When needle is not in the up posi- tion, needle threader will not turn. This is to avoid damages to the hook.) | Rotate the hand wheel and lift the needle upwards. | 24 |
| • The hook of needle threader does not go through the needle eye. | • The needle is not inserted fully. | Check the installation of the needle. | 26 |

| Case | Cause (Reason) | Solution | Refer- ence page |
|---|--|---|------------------------|
| The needle threading lever will not return to the original position and the machine can not turn properly. (This is in case the hook of needle threader re- mains in the needles eye.) | Hand wheel is turned by mistake while the needle threading lever is in down position. (in the process of threading to the needle.) | • Turn hand wheel slightly away from you. (to the opposite side when sewing). | - |
| • The machine will not start even when start/stop but- ton is pressed. | • The foot controller is plugged in. | Start/stop button can function when foot controller is removed. | 8 |
| Thread breaks. | • The machine is incorrectly threaded. | Rethread the machine correctly. | 22 |
| • Stitch is skipped. | There is knot or knurl on the thread. The setting of manual thread tension is incorrect. | Remove knot or knurl from thread. Adjust thread tension manually according to fabrics and thread to be used. | - 28 |
| | • The needle is bent or the tip of nee- dle is broken. | Change needle. | 26 |
| | • The needle is installed incorrectly. | Install needle correctly. | 26 |
| | Threading of bobbin thread is not correct. | Check the correct way of setting bobbin thread. | 20 |
| | The bobbin can not turn smoothly inside the hook holder. | • Check the correct way of winding bobbin thread. | - |
| | • The needle size does not match the thread. | • Check the combination of thread and needle. | 27 |
| | • Thread take-up is not threaded. | Rethread the machine correctly. | 22 |
| Thread tension is not good. | The needle thread is threaded in correctly. | Rethread the machine correctly. | 22 |
| | • The bobbin thread is threaded incorrectly. | Check the correct way of setting bobbin thread. | 20 |
| | • The direction of spool cap doesn't match the spool. | Attach the spool cap in a correct direction. | 22 |
| Puckering occurs. | • The stitch length is too large on light- weight fabrics. | Make the stitch length smaller (shorter). | 43 |
| | • The needle tip is broken. | Change needle. | 26 |
| • sign is shown on the LCD display. | Safety mechanism works when ma- chine stops due to motor lock. Or, when the voltage fault has oc- curred. | • The safety mechanism will be reset in a short while and the ma- chine will return to normal. (At this time, the start/stop button will not light up.) | - |

Dx7 List of stitch patterns



* The listing can be found inside the top cover of the sewing machine.



Letters/numbers/signs

@!&`(),.?-·/:; ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefshiikImnopqrstuvwxyz 1234567890 ÄÅÆàäåèéêëÇœçìÑñÖØòöøÜùü

Ye

123 Jm

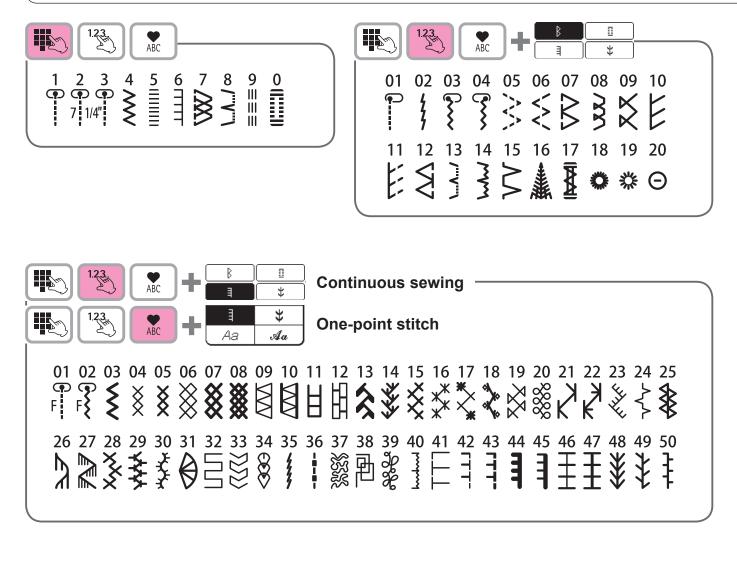
ABC

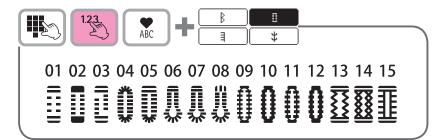
@!&'(),.?-./:; ABCDEFGHIIKLMNOPQRS TUVWXY7 abcdeI4hiiklmnor4rstuvwx¥3 1234567890 ÄÅÆàäåèéêë&&iÑñÖØòöøœÜùü @!&`(),.?~·/:; ABCDEFGHIJKLMNOPQRSTUVW XYZ abcdefghíjklmnopgrstuvw×y3

и в Сиет я но 1 хотно 1 41 я с и 1 и 2 3 4 5 6 7 8 9 0 ÄÅÆàäåèéêëÇçìÑñÖØòöøœÜùü

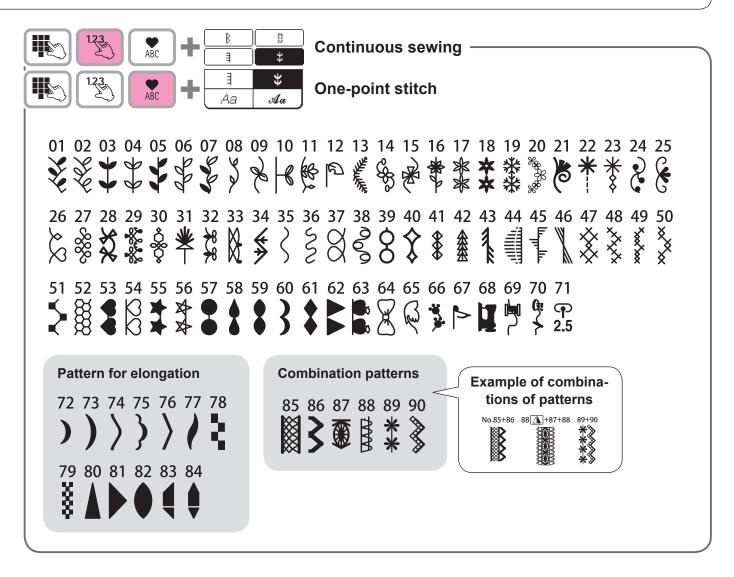
@!&'(),.?-~/:; ABCDEFGHIJKLMNOPQRS TUVWXYZ abcdefshijklmnoP¶rs tuvwxyz 1234567890 ÄÅÆàäåèéêëÇŞìŇñÖØòöøœÜùü

DX5 List of stitch patterns





* The listing can be found inside the top cover of the sewing machine.



Letters/numbers/signs -

@!&'(),.?-·/:; ABCDEFGHIJKLMNOPQRSTUVWXYZ ABCDEFGHIJKLMNOPQRSTUVW abcdefghijklmnopqrstuvwxyz 1234567890 ÄÅÆàäåèéêëÇœçìÑñÖØòöøÜùü

123 2m

ABC

@!&'(),.?-./:; ABCDEFGHJJKLMNOPQRS ナロンルエリテ abcdel\$hijklmnoh\$rstuvwx\$\$ 1234567890 ÄÅÆàäåèéêëÇçìÑñÖØòöøœÜùü

@!&'(),.?-·/:; XYZ abcdefghijklmnopgrstuvwxyz 1234567890 ÄÅÆàäåèéêëëÇçìÑñÖØòöøœÜùü

Specification list

| Item | Specification |
|--------------------------------|-----------------------------------|
| Body size | 44.5 (W) X 29.1 (H) X 21.0 (D) cm |
| Body size with hard case | 51.0 (W) X 30.5 (H) X 25.7 (D) cm |
| Weight (Weight with hard case) | 10,3 KGS / 21,6 LBS |
| Volts | 220 V - 240 V \sim |
| Watts | 75 W |
| Hertz | 50/60 Hz |
| Foot control model No. | JC-001 |



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