

Enclosed Accessories

After opening the box, check that the following accessories are enclosed. If any item is missing or damaged, contact your retailer.

Accessories

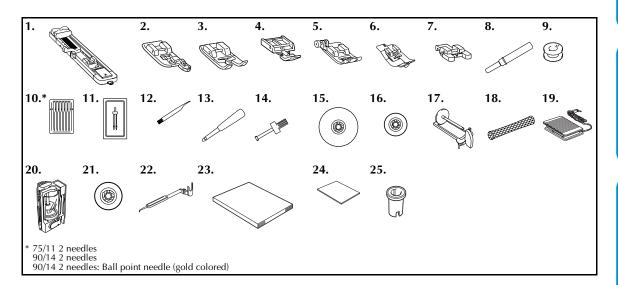


(For U.S.A. only)

Foot controller: Model N5V

This foot controller can be used on this machine model CS-8075.

• The screw of the presser foot holder is available through your authorized dealer. (Part code: XA4813-051)

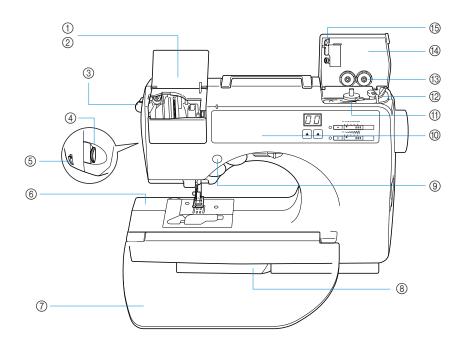


No.	Part Name	Part Code		No.	Part Name	Part Code	
10.	Fart Name	U.S.A.	Others	10.	Fart Name	U.S.A.	Others
1	Buttonhole foot "A"	XC2	2691-051	14	Screwdriver	XC4	237-021
2	Overcasting foot "G"	XCE	8098-051	15	Spool cap (large)	130	012-054
3	Monogramming foot "N"	X53	840-351	16	Spool cap (small)	130	013-154
4	Zipper foot "I"	X59	370-051	17	Extra spool pin	XC3	834-021
5	Zigzag foot "J" (on machine)	XCE	8021-051	18	Spool net	XA5	523-050
6	Blind stitch foot "R"	XC2	1051-051	19	Foot controller	XC1	154-021
7	Button fitting foot "M"	X59	375-151	20	Thread cassette (on machine)	XC3	664-021
8	Seam ripper	X54243-001		21	Spool cap (orange) (on machine)	XC3	673-021
9	Bobbin (4)	SA156	XA5539-151	22	Needle-changing tool	XC4	551-021
10	Needle set	X58	358-051	23	Operation manual	XC5	247-021
11	Twin needle	X59	296-051	24	Quick reference guide	XC5	256-021
12	Cleaning brush	X59	476-051	25	Spool cap (special)	XA5	752-021
13	Eyelet punch	135	793-051				

Names of Machine Parts and Their Functions

The names of the various parts of the sewing machine and their functions are described below. Before using the sewing machine, carefully read these descriptions to learn the names of the machine parts.

Front view



- 1) Thread cassette compartment cover
- ② Thread cassette compartment Insert a thread cassette into the thread cassette compartment.
- ③ **Thread cassette eject lever** Press this lever to eject the installed thread cassette.
- ④ Thread tension dial Use the thread tension dial to adjust the tension of the upper thread.
- **5** Thread cutter

Pass the threads through the thread cutter to cut them.

- 6 Arm
- ⑦ Flap

Use the flap to create a table. When the sewing machine is not being used, store the machine with the flap folded up. Remove the flap to sew cylindrical pieces such as sleeve cuffs.

(8) Sliding leg

Pull out the sliding leg during free-arm sewing.

③ Operation buttons

Use the operation buttons to start the sewing machine and raise and lower the needle. (page Cover D)

① Operation panel Select a stitch from those

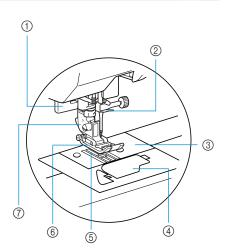
Select a stitch from those that appear in the operation panel. (page Cover E)

- Bobbin winderUse the bobbin winder when winding the bobbin.
- (2) Bobbin thread spool pin Place the spool of thread for the bobbin onto this spool pin in order to wind the bobbin.
- (3 Bobbin storage compartment Store the bobbins designed specifically for this sewing machine in this compartment.
- Bobbin winder cover Open this cover when winding the bobbin.
- (5) Thread guide for bobbin winding Pass the thread around this thread guide when winding the bobbin thread.

CONTENTS

APPENDIX

Needle and presser foot section



① Buttonhole lever

Lower the buttonhole lever when sewing buttonholes and bar tacks.

② Needle bar thread hook

Pass the upper thread through the needle bar thread hook.

③ Needle plate

The needle plate is marked with guides for sewing straight seams.

④ Bobbin cover/shuttle

Remove the bobbin cover, and then insert the bobbin into the shuttle.

5 Feed dogs

The feed dogs feed the fabric in the sewing direction.

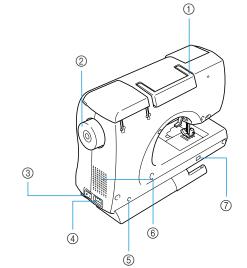
6 Presser foot

The presser foot applies pressure consistently on the fabric as the sewing takes place. Attach the appropriate presser foot for the selected stitching.

⑦ Presser foot holder

The presser foot is installed onto the presser foot holder.

Right-side/rear view



1) Handle

Carry the sewing machine by its handle when transporting the machine.

② Balance wheel

Turn the balance wheel toward you to raise and lower the needle to sew one stitch.

- ③ Main power switch Use the main power switch to turn the sewing machine on and off.
- Power supply jack Insert the plug on the power supply cord into the power supply jack.

5 Foot controller jack

Insert the plug on the end of the foot controller cable into the foot controller jack.

6 Air vent

The air vent allows the air surrounding the motor to be exchanged. Do not cover the air vent while the sewing machine is being used.

⑦ Feed dog position switch

Use the feed dog position switch to lower the feed dogs.

Memo

• Refer to Cover B, D or E pages while you are learning to use your machine.

Operation buttons

The operation buttons help you to easily perform various basic sewing machine operations.

① Thread cassette indicator

The indicator lights up or goes off depending on the condition of the sewing machine.

Green:	A thread	cassette can	be	ins	serted.	

Red:	A thread cassette cannot be inserted.
Off:	The sewing machine has been turned off
	or a thread cassette is already inserted.

0 Thread cutter button 3 (Only for models equipped with the thread cutter button)

Press the thread cutter button after stopping sewing to cut both the upper and the bobbin threads. For details, refer to "Cutting the thread" (page 49).

③ Needle position button ④

Press the needle position button to raise or lower the needle. Pressing the button twice sews one stitch.

④ Start/stop button /

Press the start/stop button to start or stop sewing. The machine sews at a slow speed at the beginning of sewing while the button is depressed. When sewing is stopped, the needle is lowered in the fabric. For details, refer to "Starting to sew" (page 45).

⑤ Presser foot lever

Raise and lower the presser foot lever to raise and lower the presser foot.

6 Reverse/reinforcement stitch button

Press the reverse/reinforcement stitch button to sew reverse stitches or reinforcement stitches. Reverse stitches are sewn by keeping the button pressed down to sew in the opposite direction. Reinforcement stitches are sewn by sewing 3 to 5 stitches on top of each other. For details, refer to "Securing the stitching" (page 47).

⑦ Sewing speed controller

Slide the sewing speed controller to adjust the sewing speed.

CAUTION

• Do not press the thread cutter button after the threads have already been cut, otherwise the needle may break, the threads may become tangled or damage to the machine may occur.

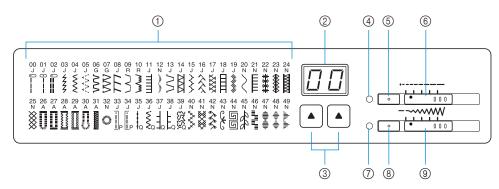
Note

- Do not press the thread cutter button if there is no fabric under the presser foot or while the machine is sewing, otherwise damage to the machine may occur.
- When cutting thread thicker than #30, nylon thread or other special threads, use the thread cutter on the side of the machine. For details, refer to "Cutting the thread" (page 49).

INDEX

Operation panel

The operation panel, located on the front of the sewing machine, consists of various buttons and sliders for specifying how the stitch will be sewn.



① Stitches

There are 50 stitches. Select stitch 00-49.

A letter (A, G, J, N or R) indicating the presser foot that should be used appears below the stitch number.

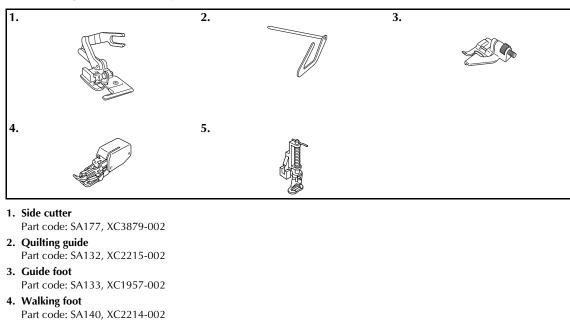
② Stitch indicator / ③ Stitch selection key

Press the stitch selection key, and then select the number for the stitch that you wish to use. 50 stitches are available. For details, refer to "Selecting stitching" (page 58).

- ④ Stitch length adjutment indicator/ ⑤ Stitch length adjustment button / ⑥ Stitch length adjustment slider These are used to adjust the length of the stitch. After pressing the stitch length adjustment button so that the indicator lights up, slide the stitch length adjustment slider to adjust the stitch length.
- ⑦ Stitch width adjustment indicator / ③Stitch width adjustment button / ③Stitch width adjustment slider These are used to adjust the width of the stitch or the needle position. After pressing the stitch width adjustment button so that the indicator lights up, slide the stitch width adjustment slider to adjust the stitch width.

Optional Accessories

The following are available as optional accessories.



5. Quilting foot Part code: SA129, XC1948-002



• To obtain optional accessories or parts, contact your sales representative or the nearest authorized service center.

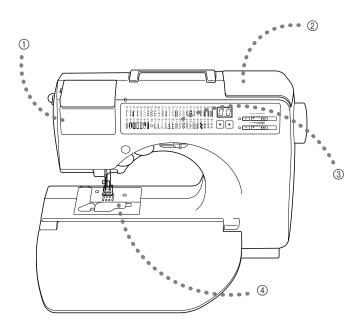
INDEX

Thank you for purchasing this sewing machine.

Before using this sewing machine, carefully read the "Important Safety Instructions" (page 6), and then study this manual for the correct operation of the various functions.

In addition, after you have finished reading this manual, store it where it can quickly be accessed for future reference.

Sewing Machine Features



① Thread cassette

Easily thread the upper thread by loading a spool of thread into the thread cassette. In addition, simply insert the thread cassette into the compartment to thread the needle.

② Simple bobbin-winding

The bobbin can quickly and easily be wound with thread. (page 12)

③ Built-in stitches

You can select from the built-in stitches available, including utility stitches and decorative stitches. (page 58)

④ One-touch lower threading

You can start sewing without pulling up the bobbin thread. (page 16)

Contents

Enclosed Accessories	Cover A
Accessories	
Names of Machine Parts and Their Functions	Cover B
Front view	Cover B
Needle and presser foot section	Cover C
Right-side/rear view	Cover C
Operation buttons	Cover D
Operation panel	Cover E
Optional Accessories	1
Introduction	
Sewing Machine Features	
Contents	
Important Safety Instructions	

GETTING READY

ITING READY	9
Turning the Machine On/Off	
Power supply precautions	
Turning on the machine	
Turning off the machine	
Winding/Installing the Bobbin	
Bobbin precautions	
Winding the bobbin	
Installing the bobbin	
Upper Threading	
About the spool of thread	
Loading the spool into the thread cassette	
Threading the needle	
Using the extra spool pin	
Thread the needle manually	
(without using the needle threader)	
Using the twin needle	
Pulling up the bobbin thread	
Replacing the Needle	
Needle precautions	
Needle types and their uses	
Checking the needle	
Replacing the needle	
Replacing the Presser Foot	
Presser foot precautions	
Replacing the presser foot	
Removing the presser foot holder	
Using the optional walking foot	
Sewing Cylindrical Pieces	
Free-arm sewing	

CONTENTS

SEWING BASICS	41
Sewing	
General sewing procedure	
Positioning the fabric	
Starting to sew	
Securing the stitching	
Cutting the thread	
Adjusting the Thread Tension	
Changing the tension of the upper thread	
Adjusting the Stitch Width and Length	
Adjusting the stitch width	
Adjusting the stitch length	
Useful Sewing Tips	
Trial sewing	
Changing the sewing direction	
Sewing curves	
Sewing thick fabrics	
Sewing thin fabrics	
Sewing stretch fabrics	
Sewing an even seam allowance	

UTI	LIT	(STI	TCH	ES
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ILITY STITCHES	57
Selecting Stitching	
Selecting stitching	
Overcasting Stitches	
Sewing overcasting stitches using overcasting foot "G"	
Sewing overcasting stitches using zigzag foot "J"	
Sewing overcasting stitches using the optional side cutter	
Basic Stitching	
Basic stitching	
Blind Hem Stitching	
Buttonhole Stitching	
Buttonhole sewing	
Button sewing	
Zipper Insertion	
Inserting a centered zipper	
Inserting a side zipper	
Sewing Stretch Fabrics and Elastic Tape	
Stretch stitching	
Elastic attaching	
Appliqué, Patchwork and Quilt Stitching	
Appliqué stitching	
Patchwork (crazy quilt) stitching	
Piecing	
Quilting	
Free-motion quilting	
Reinforcement Stitching	
Triple stretch stitching	
Bar tack stitching	
Eyelet Stitching	
Decorative Stitching	
Fagoting	
Scallop stitching	
Smocking	
Joining	
Heirloom stitching	

PENDIX	
Stitch Settings	
Utility stitches	
Maintenance	
Cleaning the machine surface	
Cleaning the shuttle	
Troubleshooting	
Error messages	
Operation beep	
Changing the needle stop position	
Index	

Important Safety Instructions

When using this machine, basic safety precautions should always be taken, including the following:

Read all instructions before using.

DANGER - To reduce the risk of electric shock:

1. The machine should never be left unattended while plugged in. Always unplug the machine from the electrical 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 machine to be used as a toy. Close attention is necessary when the machine is used by or near children.
- 2. Use this machine only for its intended use as described in this manual. Use only accessories recommended by the manufacturer as contained in this manual.
- 3. Never operate this machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
- 4. Never operate the machine with any air openings blocked. Keep ventilation openings of the machine and foot control free from the accumulation of lint, dust, and loose cloth.
- 5. Never drop or insert any object into any opening.
- 6. Do not use outdoors.
- 7. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- 8. To disconnect, turn the main switch to the symbol "O" position which represents off, then remove plug from outlet.
- 9. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- 10. Keep fingers away from all moving parts. Special care is required around the machine needle.
- 11. Always use the proper needle plate. The wrong plate can cause the needle to break.
- 12. Do not use bent needles.
- 13. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- 14. Switch the machine to the symbol "O" position when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, and the like.
- 15. Always unplug the machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
- 16. This sewing machine is not intended for use by young children or infirm persons without supervision.
- 17. Young children should be supervised to ensure that they do not play with this machine.
- 18. If the Light unit is damaged, it must be replaced by authorized dealer.

SAVE THESE INSTRUCTIONS This machine is intended for household use.

FOR USERS IN THE UK, EIRE, MALTA AND CYPRUS ONLY

If this machine is fitted with a three-pin non-rewireable BS plug then please read the following.

IMPORTANT

If the available socket outlet is not suitable for the plug supplied with this equipment, it should be cut off and an appropriate three-pin plug fitted. With alternative plugs an approved fuse must be fitted in the plug.

NOTE

The plug served from the main lead must be destroyed as a plug with bared flexible cords is hazardous if engaged in a live socket outlet. In the event of replacing the plug fuse, use a fuse approved by ASTA to BS 1362, i.e. carrying the rank, rating as marked on plug. Always replace the fuse cover, never use plugs with the fuse cover omitted.

WARNING

DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER 'E', BY THE EARTH SYMBOL $\frac{1}{2}$ OR COLOURED GREEN OR GREEN AND YELLOW.

The wires in this main lead are colored in accordance with the following code:

Blue Neutral

Brown Live

As the colors of the wiring in the main lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows.

The wire which is colored blue must be connected to the terminal which is marked with the letter 'N' or colored black or blue.

The wire which is colored brown must be connected to the terminal which is marked with the letter 'L' or colored red or brown.

CONGRATULATIONS ON CHOOSING OUR MACHINE

Your machine is one of the most advanced computerized household sewing machines. To fully enjoy all the features, we suggest that you study the manual before using the machine.

PLEASE READ BEFORE USING THIS MACHINE

For safe operation

- 1. Be sure to keep your eye on the needle while sewing. Do not touch the hand wheel, thread takeup lever, needle, or other moving parts.
- 2. Remember to turn off the power switch and unplug the cord when:
 - Operation is completed
 - Replacing or removing the needle or any other parts
 - A power failure occurs during use
 - Maintaining the machine
 - Leaving the machine unattended
- 3. Do not store anything on the foot controller.
- 4. Plug the machine directly into the wall. Do not use extension cords.

For a longer service life

- 1. When storing this machine, avoid direct sunlight and high humidity locations. Do not use or store the machine near a space heater, iron, halogen lamp, or other hot objects.
- 2. Use only neutral soaps or detergents to clean the case. Benzene, thinner, and scouring powders can damage the case and machine, and should never be used.
- 3. Do not drop or hit the machine.
- 4. Always consult the operation manual when replacing or installing any assemblies, the presser feet, needle, or other parts to assure correct installation.

For repair or adjustment

In the event a malfunction occurs or adjustment is required, first follow the troubleshooting table in the back of the operation manual to inspect and adjust the machine yourself. If the problem persists, please consult your local authorized Brother dealer.

For additional product information and updates, visit our web site at www.brother.com

GETTING READY

SEWING BASICS UTILITY STITCHES



GETTING READY

The various preparations required before starting to sew are described in this chapter.

Turning the Machine On/Off	10
Winding/Installing the Bobbin	12
Upper Threading	18
Replacing the Needle	30
Replacing the Presser Foot	35
Sewing Cylindrical Pieces	40

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APPENDIX

Turning the Machine On/Off

This section explains how to turn the sewing machine on and off.

Power supply precautions

Be sure to observe the following precautions concerning the power supply.

WARNING

- Use only regular household electricity for the power source. Using other power sources may result in fire, electric shock, or damage to the machine.
- Turn off the main power and remove the plug in the following circumstances:
 - When you are away from the machine
 - After using the machine
 - When the power fails during use
 - When the machine does not operate correctly due to a bad connection or a disconnection
 - During electrical storms

CAUTION

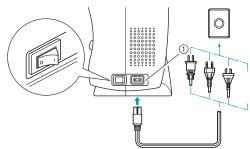
- Do not use extension cords or multi-plug adapters with many other appliances plugged in to them. Fire or electric shock may result.
- Do not touch the plug with wet hands. Electric shock may result.
- When unplugging the machine, always turn off the main power first. Always grasp the plug to remove it from the outlet. Pulling on the cord may damage the cord, or lead to fire or electric shock.
- Do not allow the power cord to be cut, damaged, modified, forcefully bent, pulled, twisted, or bundled. Do not place heavy objects on the cord. Do not subject the cord to heat. These things may damage the cord and cause fire or electric shock. If the cord or plug is damaged, take the machine to your authorized dealer for repairs before continuing use.
- Unplug the power cord if the machine is not to be used for a long period of time. Otherwise a fire may result.

INDEX

Turning on the machine

Make sure that the sewing machine is turned off (the main power switch is set to "O"), and then plug the power supply cord into the power supply jack on the right side of the machine.

Insert the plug of the power supply cord into a household electrical outlet.



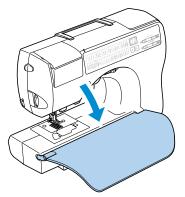
① Power supply jack

Press the right side of the main power switch on the right side of the machine (set it to "|").



- The sewing lamp comes on when the machine is turned on.
- 4

Fold the flap at the front of the sewing machine down toward you.



Turning off the machine

When you are finished using the sewing machine, turn it off. In addition, before transporting the sewing machine to another location, be sure to turn it off.



Make sure that the machine is not sewing.

Press the left side of the main power switch on the right side of the machine (set it to "O").



- The sewing lamp goes off when the machine is turned off.
- Unplug the power supply cord from the electrical outlet.

Grasp the plug when unplugging the power supply cord.

Unplug the power supply cord from the power supply jack.

🗱 Note

- If a power outage occurs while the sewing machine is being operated, turn off the sewing machine and unplug the power supply cord. When restarting the sewing machine, follow the necessary procedure to correctly operate the machine.
 (For U.S.A only)
- This appliance has a polarized plug (one blade wider than the other). To reduce the risk of electrical 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.

Winding/Installing the Bobbin

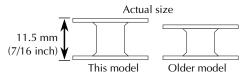
This section describes how to wind the thread onto the bobbin, and then insert the bobbin thread.

Bobbin precautions

Be sure to observe the following precautions concerning the bobbin.

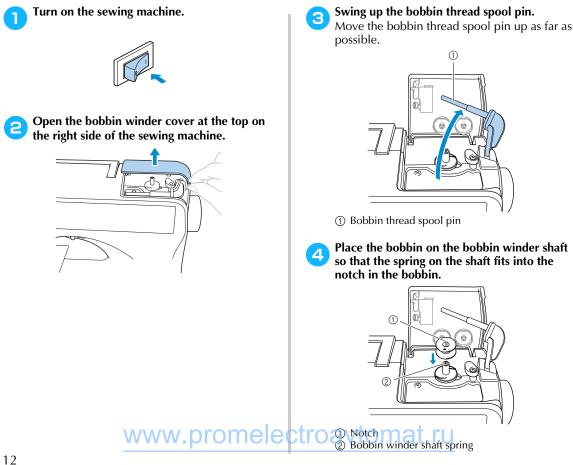
CAUTION

- Only use the bobbin (part code: SA156, XA5539-151) designed specifically for this sewing machine. Use of any other bobbin may result in injuries or damage to the machine.
- The enclosed bobbin was designed specifically for this sewing machine. If bobbins from older models are used, the machine will not operate correctly. Use only the enclosed bobbin or bobbins of the same type (part code: SA156, XA5539-151).



Winding the bobbin

Wind the thread around the bobbin to prepare the bobbin thread.



Slide the bobbin winder shaft to the right.

5

6



Place the spool of thread for the bobbin onto

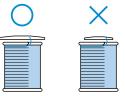


Slide the spool cap onto the bobbin thread spool pin.

With the rounded side of the spool cap positioned toward the left, slide the spool cap onto the bobbin thread spool pin as far as possible until the right side of the spool touches the right end of the bobbin thread spool pin.



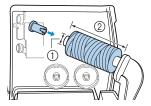
 Two spool cap sizes are available, allowing you to choose a spool cap that best fits the size of spool being used. If the spool cap is too small for the spool being used, the thread may catch on the slit in the spool or the needle may break.





Note

If a spool of thread 12 mm (1/2 inch) in diameter and 75 mm (3 inch) high is inserted onto the bobbin thread spool pin, use the special spool cap.

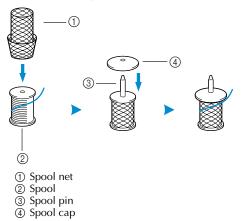


① 12 mm (1/2 inch) 2 75 mm (3 inch)

Memo

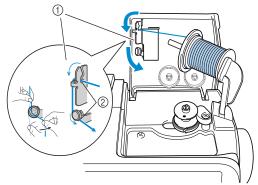
• When using thread that winds off quickly, such as transparent nylon thread or metallic thread, place the enclosed spool net over the spool before placing the spool of thread onto the spool pin.

If the spool net is too long, fold it to fit the size of the spool.



Pull out some thread, and then thread the thread guide for bobbin winding.

Hold the thread with both hands, and then securely pass the thread as far as possible into the two slits in the thread guide.



- ① Thread guide for bobbin winding
- 2 Two slits

9 While using your left hand to hold the end of the thread that wraps around the thread guide for bobbin winding, use your right hand to wind the free end of the thread clockwise around the bobbin five or six times.



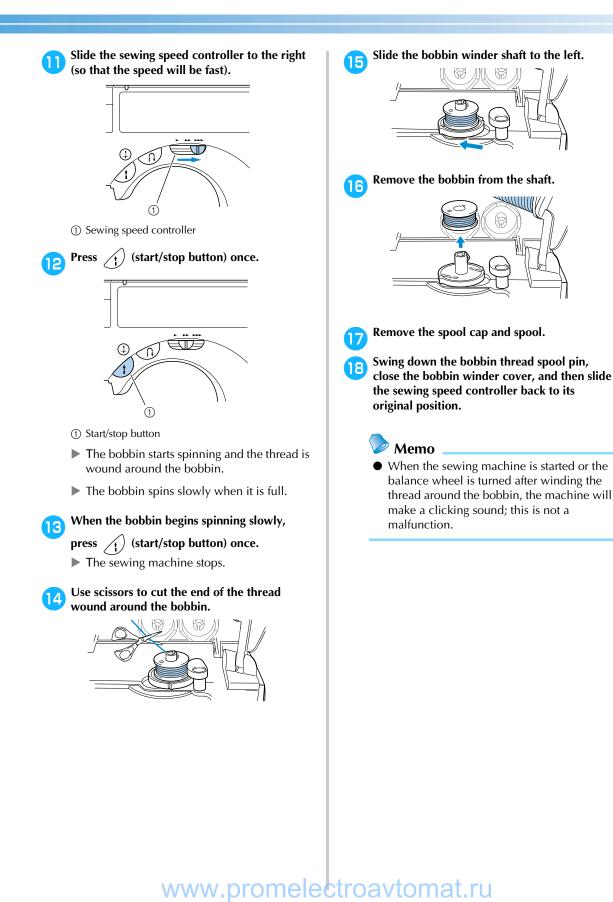


- ① Slit in bobbin winder seat (with built-in cutter)
- ▶ The thread is cut to a suitable length.

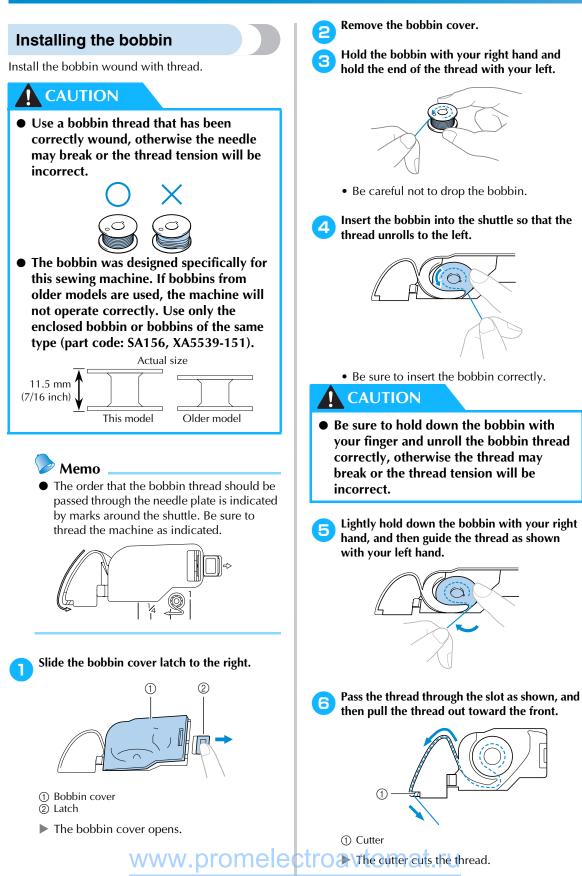
1

(10)

• Be sure to cut the thread as described. If the bobbin is wound without cutting the thread using the cutter built into the slit in the bobbin winder seat, the thread may become tangled in the bobbin or the needle may bend or break when the bobbin thread starts to run out.



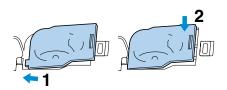
16





Reattach the bobbin cover.

Insert the tab in the lower-left corner of the bobbin cover, and then lightly press down on the right side.



▶ The lower threading is finished.

Next, thread the upper thread. Continue with the procedure in "Upper Threading" (on the next page).



• You can begin sewing without pulling up the bobbin thread. If you wish to pull up the bobbin thread before starting to sew, pull up the thread according to the procedure in "Pulling up the bobbin thread" (page 29).

Upper Threading

In this section, the procedures for positioning the spool for the upper thread and threading the needle are described.

CAUTION

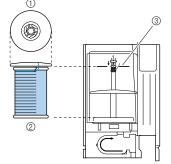
• When threading the upper thread, carefully follow the instructions. If the upper threading is not correct, the thread may become tangled or the needle may bend or break.

About the spool of thread

With this sewing machine, a spool of thread can be loaded into the enclosed thread cassette, and then the thread cassette can be threaded. Information about the spools of thread is described below.

Spools that can be loaded into the thread cassette

Normally, a spool of thread is loaded into the thread cassette and used. The spools that can be loaded must have a diameter smaller than the orange spool cap and a height shorter than the mark on the cover of the thread cassette.



- Spool cap (orange)
- ② Spool

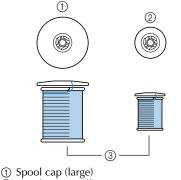
③ Mark on thread cassette compartment cover

Spools that cannot be loaded into the thread cassette

When using spools that cannot be loaded into the thread cassette, use the enclosed extra spool pin.



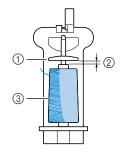
When using the extra spool pin, attach either the large or small white spool cap, depending on the size of the spool. Use the spool cap with a diameter that is slightly larger than the diameter of the spool.



- ② Spool cap (small)
- ③ Spool

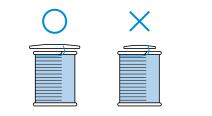
🥏 Memo

- For details on using the extra spool pin, refer to "Using the extra spool pin" (page 24).
- When using a spool of cross-wound thread, install the small white spool cap with some space between the cap and the spool.



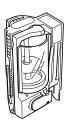
- Spool cap (small)
 Gap
- Spool

• Two spool cap sizes are available, allowing you to choose a spool cap that best fits the size of spool being used. If the spool cap is too small for the spool being used, the thread may catch on the slit in the spool or the needle may break.



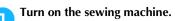
Loading the spool into the thread cassette

Load the spool of thread into the enclosed thread cassette to prepare the upper thread.

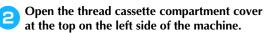


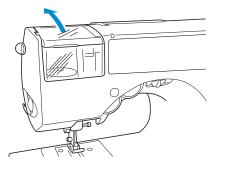
Memo

• The order for threading the thread cassette is indicated on the thread cassette. Also check the markings on the thread cassette while threading it.



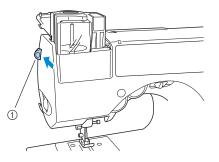








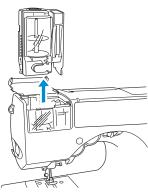
Push the thread cassette eject lever on the left side of the machine toward the back.



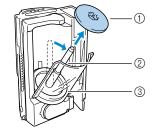
- ① Thread cassette eject lever
- ▶ The thread cassette is raised.
- If the sewing machine is turned off, the thread cassette will not be ejected correctly.



Remove the thread cassette.



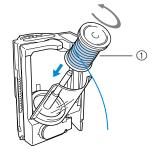
Pull the cover of the thread cassette out toward you, and then pull off the spool cap that is inserted onto the spool pin.



- ① Spool cap (orange)
- ② Spool pin
- ③ Cover

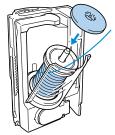
Place the spool for the upper thread onto the spool pin.

Slide the spool onto the spool pin so that the thread unwinds from the left, as seen from the top.





Slide the spool cap onto the spool pin. With the rounded side of the spool cap positioned toward the top, slide the spool cap onto the spool pin as far as possible until the down side of the spool touches the down end of the spool pin.



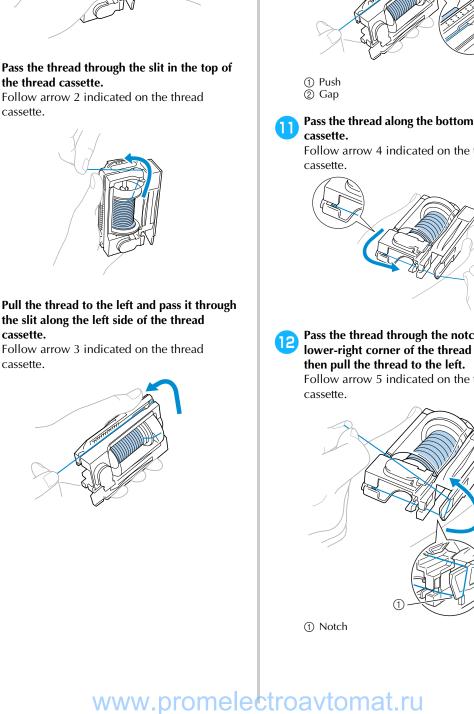
• Only the orange spool cap should be placed on the spool pin in the thread cassette.

CAUTION

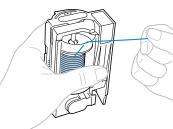
 If the spool or the spool cap is not positioned correctly, the thread may become tangled around the spool pin or the needle may break.

INDEX

21



While holding the end of the thread with your 8 right hand and the thread cassette with your left hand, close the cover.



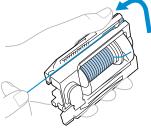
the thread cassette.

Follow arrow 2 indicated on the thread cassette.

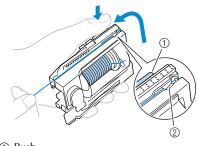


Pull the thread to the left and pass it through the slit along the left side of the thread cassette.

Follow arrow 3 indicated on the thread cassette.



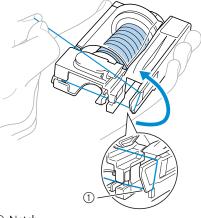
• When using special thread such as metallic thread, use the thumb of your left hand to press down on the area indicated in the illustration to create an opening that allows for easier threading.



Pass the thread along the bottom of the thread

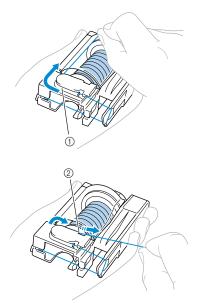
Follow arrow 4 indicated on the thread

Pass the thread through the notch in the lower-right corner of the thread cassette, and Follow arrow 5 indicated on the thread



Upper Threading

Pull the thread under the disc at the front in the lower-left corner and around to the right, and then cut the thread with the cutter. Follow arrow 6 indicated on the thread cassette.



Disc
 Cutter

- The spool of thread is now loaded in the thread cassette.
- 🗱 Note
- Be sure to cut the thread as described above, otherwise the needle threader cannot be used to thread the needle.

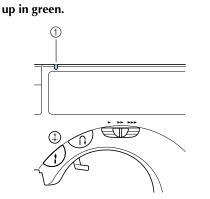
Threading the needle

In this section, the procedures for installing the thread cassette and threading the needle are described. The needle threader is used to thread the needle at the same time that the thread cassette is inserted.

🥏 Memo

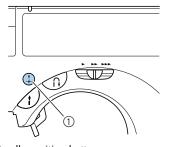
- The needle threader can be used with sewing machine needles 75/11 through 100/16.
- Thread with a thickness of 130/20 or less cannot be used with the needle threader.
- The needle threader cannot be used with the wing needle or the twin needle.
- If the needle threader cannot be used, refer to "Threading the needle manually" (page 25).

Check that the thread cassette indicator is lit



① Thread cassette indicator

If the thread cassette indicator is lit up in red, the needle has not been raised to the correct position. Press () (needle position button) once to raise the needle.



① Needle position button

CONTENTS

CONTENTS

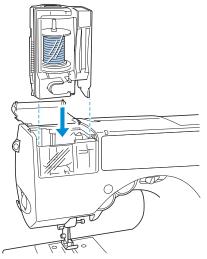
- APPENDIX
- INDEX

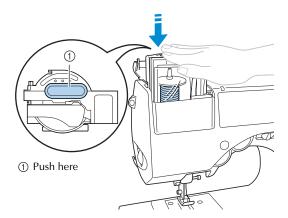
• If the needle is not raised to the correct position, the needle cannot be threaded with the needle threader. Be sure to check that the thread cassette indicator is lit up in green before inserting the thread cassette.

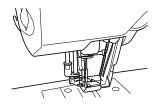
2

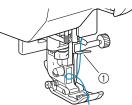
Insert the thread cassette into the thread cassette compartment.

Slowly press down on the thread cassette until it clicks into place.







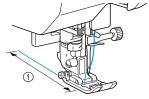


- ① Needle bar thread hook
- ► At the same time that the thread cassette is inserted, the needle is threaded.
- ▶ The thread cassette indicator goes off.
- If the needle could not be threaded or the thread was not passed through the needle bar thread hook, refer to "Loading the spool into the thread cassette" (page 19) and perform the procedure again starting from step ².

- The needle threader is operated when the needle is threaded. Be sure to keep your hands and other items away from the needle, otherwise injuries may occur.
- 3 Raise the presser foot lever, carefully pull on the loop of thread passed through the eye of the needle to pull out the end of the thread. Carefully pull the loop of thread toward the rear of the machine.

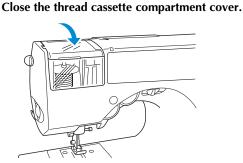


Pass the thread through the presser foot, and then pull out about 10-15 cm (3/8-5/8 inch) of thread toward the rear of the machine.



- ① 10-15 cm (3/8-5/8 inch)
- ▶ The upper threading is finished.

5



Now that the upper threading and the lower threading are finished, you are ready to begin sewing.

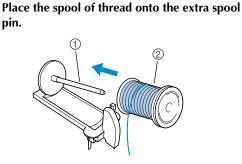


- When inserting the thread cassette into its compartment, slowly press it down.
- If the sewing machine could not be threaded, try performing the procedure again starting from loading the spool of thread into the thread cassette.

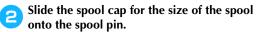
Using the extra spool pin

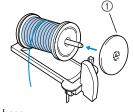
When using spools with a size that cannot be loaded into the thread cassette, use the enclosed extra spool pin.





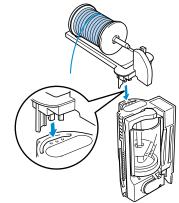
Extra spod pin
 Spool





- Spool cap
- For more details, refer to "About the spool of thread" (page 18).

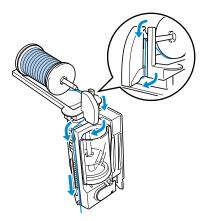
Insert the tabs on the extra spool pin into the holes on the top of the thread cassette.



CONTENTS

4

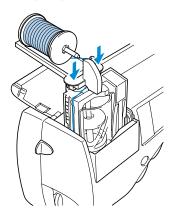
Thread the thread cassette with the thread from the spool on the extra spool pin.



• For more details, refer to "Loading the spool into the thread cassette" (page 19).

Insert the thread cassette (with the extra spool pin attached) into the thread cassette compartment.

Use both hands to press down on both sides of the extra spool pin.



- At the same time that the thread cassette is inserted, the needle is threaded.
- ▶ The extra spool pin is now installed.

Thread the needle manually (without using the needle threader)

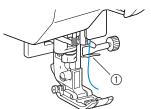
When using special thread, thread with a thickness of 130/20 or less, the wing needle or the twin needle which cannot be used with the needle threader, thread the needle as described below.



- Refer to "Replacing the needle" (page 32).
- When using the wing needle, the twin needle or thread that cannot be used with the needle threader, be sure to remove the needle, otherwise the machine may be damaged.

Check that the thread cassette indicator is lit up in green, and then insert the thread cassette into the thread cassette compartment.

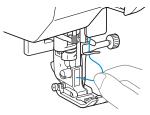
- For details, refer to 1 through 2 (page 22).
- Pass the thread through the needle bar thread hook.



① Needle bar thread hook

Install a needle.

- Refer to "Replacing the needle" (page 32).
- Pass the thread through the eye of the needle from front to back.



Using the twin needle

Using the twin needle, you can sew two parallel lines of the same stitch with two different colors. Both upper threads should have the same thickness and quality. Be sure to use the enclosed twin needle and the extra spool pin.

For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 96).

- Only use the twin needle (Part code : X59296-051).
 Use of any other needle may bend the needle or damage the machine.
- Never use bent needles. Bent needles can easily break, possibly resulting in injuries.
- Do not try installing the twin needle while the thread cassette is not installed, otherwise the needle may break or damage to the machine may result.

Remove the needle.

• For details, refer to "Replacing the needle" (page 32).

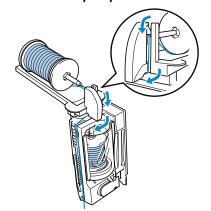
Load the spool for the first thread color into the thread cassette.

Thread the thread cassette up to arrow 2, indicated on the thread cassette.



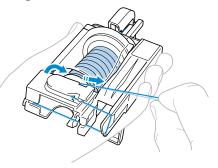
• For more details, refer to steps 1 through 9 in "Loading the spool into the thread cassette" (page 19).

3 Load the spool for the second thread color onto the extra spool pin.



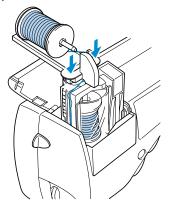
• For more details, refer to steps 1 through 3 in "Using the extra spool pin" (page 24).

Use the two threads to thread the thread cassette, and then cut the threads. Thread the thread cassette along arrows 3 through 6, indicated on the thread cassette.



• For more details, refer to steps 10 through 13 in "Loading the spool into the thread cassette" (page 19).

Insert the thread cassette (with the extra spool pin attached) into the thread cassette compartment.



- For more details, refer to step **5** in "Using the extra spool pin" (page 24).
- Pass both threads through the needle bar thread hook.
- The needle threader cannot be used. If the needle threader is used with the twin needle, the sewing machine may be damaged.

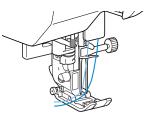
Install the twin needle.

• For details, refer to "Replacing the needle" (page 32).

Manually thread the left needle with the thread for the left side of the stitch.

• For details, refer to "Thread the needle manually" (page 25).

B Remove the thread for the right side of the stitch from the needle bar thread hook, and then use it to thread the right needle.



Attach zigzag foot "J".

• For details on changing the presser foot, refer to "Replacing the presser foot" (page 35).

CAUTION

 When using the twin needle, be sure to attach zigzag foot "J", otherwise the needle may break or the machine may be damaged.

Turn on the sewing machine, and then select a stitch.

- For details on selecting a stitch, refer to "Selecting stitching" (page 58).
- For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 96).
- Select a stitch width of 5,0 mm (3/16 inch) or less.

- When using the twin needle, be sure to select an appropriate stitch, otherwise the needle may break or the machine may be damaged.
- Slect a stitch width of 5,0 mm (3/16 inch) or less, otherwise the needle may break or the machine may be damaged.
- After adjusting the stitch width, slowly turn the balance wheel toward you and check that the needle dose not touch the presser foot.

If the needle hits the presser foot, the needle may break or the machine may be damaged.

Start sewing.

- For details on starting to sew, refer to "Starting to sew" (page 45).
- ► Two lines of stitching are sewn parallel to each other.





When changing the sewing direction, press
 (needle position button) to raise the needle from the fabric, and then raise the presser foot lever and turn the fabric.

CAUTION

• Do not try turning the fabric with the twin needle left in the fabric, otherwise the needle may break or the machine may be damaged.

Pulling up the bobbin thread

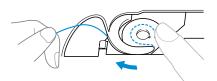
When making gathers or before free-motion quilting, first pull up the bobbin thread as described below.

A

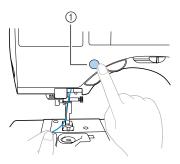
Insert the bobbin into the shuttle.

- Refer to steps 1 through 5 of "Installing the bobbin" (page 16).
- 2

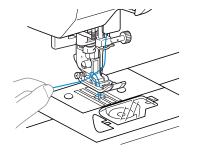
Pass the bobbin thread through the slot. Do not cut the thread with the cutter.



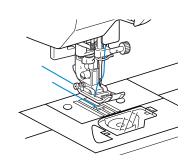
While lightly holding the upper thread with your left hand, press (1) (needle position button) twice to raise the needle.



- ① Needle position button
- The bobbin thread is looped around the upper thread and can be pulled up.
- Carefully pull the upper thread upward to pull out the end of the bobbin thread.

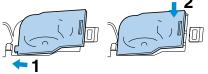


5 Pull out about 10-15 cm (3/8-5/8 inch) of the bobbin thread under the presser foot toward the rear of the machine.





Reattach the bobbin cover. Insert the tab in the lower-left corner of the bobbin cover, and then lightly press down on the right side.







Replacing the Needle

This section provides information on sewing machine needles.

Needle precautions

Be sure to observe the following precautions concerning the handling of the needle. Failure to observe these precautions is extremely dangerous, for example, if the needle breaks and fragments are dispersed. Be sure to read and carefully follow the instructions below.

CAUTION

- Only use home sewing machine needles. Use of any other needle may bend the needle or damage the machine.
- Never use bent needles. Bent needles can easily break, possibly resulting in injuries.

Needle types and their uses

The sewing machine needle that should be used depends on the fabric and thread thickness. Refer to the following table when choosing the thread and needle appropriate for the fabric that you wish to sew.

Fabric Type/Application		Thread		Size of Needle	
		Туре	Size	Size of Needle	
	Broadcloth	Cotton thread	60-80		
Medium weight	Taffeta	Synthetic thread	00-00	75/11–90/14	
fabrics	Flannel, Gabardine	Silk thread	50–80		
	Lawn	Cotton thread	60-80	65/9–75/11	
Thin fabrics	Georgette	Synthetic thread	00-00		
	Challis, Satin	Silk thread	50–80		
-1 + 1	Denim	Cotton thread	30–50		
Thick fabrics	Corduroy	Synthetic thread	50	90/14–100/16	
	Tweed	Silk thread	50		
Stretch	Jersey		50.00	Ball point needle	
fabrics	Tricot	Thread for knits 50–60	(golden colored) 75/11–90/14		
Easily frayed fabrics		Cotton thread		65/9–90/14	
		Synthetic thread	50–80		
		Silk thread			
For top-stitching		Synthetic thread	30	90/14–100/16	
		Silk thread	50	50/14-100/10	

Demo 🖉

- The smaller the thread number, the thicker the thread, and the larger the needle number, the thicker the needle.
- Use the ball point needle when sewing on stretch fabrics or fabrics where skipped stitches easily occur.
- Use a 90/14 to 100/16 needle with transparent nylon threads, regardless of the fabric being sewn.
- A 75/11 needle is already installed when the sewing machine is purchased.

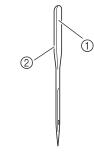
CAUTION

• The appropriate fabric, thread and needle combinations are shown in the table on the previous page. If the combination of the fabric, thread and needle is not correct, particularly when sewing thick fabrics (such as denim) with thin needles (such as 65/9 to 75/11), the needle may bend or break. In addition, the stitching may be uneven or puckered or there may be skipped stitches.

Checking the needle

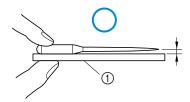
Sewing with a bent needle is extremely dangerous since the needle may break while the machine is being operated.

Before using the needle, place the flat side of the needle on a flat surface and check that the distance between the needle and the flat surface is even.



Flat side
 Needle type marking

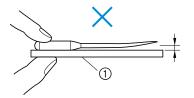
■ Correct needle



Flat surface

Incorrect needle

If the distance between the needle and the flat surface is not even, the needle is bent. Do not use a bent needle.



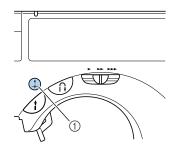
① Flat surface

Replacing the needle

Replace the needle as described below. Use the screwdriver and a needle that has been determined to be straight according to the instructions in "Checking the needle".



Press (1) (needle position button) once or twice to raise the needle.



① Needle position button

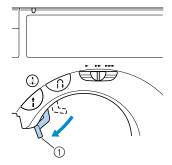


Turn off the sewing machine.



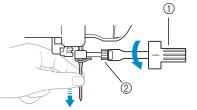
• Before replacing the needle, be sure to turn off the sewing machine, otherwise injuries may occur if the start/stop button is accidentally pressed and the machine starts sewing.





① Presser foot lever

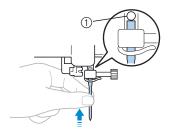
Hold the needle with your left hand, and then use a screwdriver to turn the needle clamp screw counterclockwise to remove the needle.



- Screwdriver
- ② Needle clamp screw
 Do not apply a strong force when loosening or tightening the needle clamp screw, otherwise certain parts of the sewing

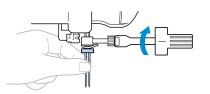


5 With the flat side of the needle toward the rear of the machine, insert the needle until it touches the needle stopper.

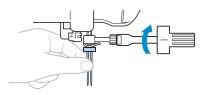


Needle stopper

While holding the needle with your left hand, 6 use the screwdriver to tighten the needle clamp screw.



Install the twin needle in the same way.



CAUTION

• Be sure to insert the needle until it touches the needle stopper and securely tighten the needle clamp screw with the screwdriver, otherwise the needle may break or damage may result.

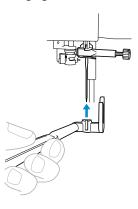
■ Using the needle-changing tool Use the enclosed needle-changing tool to replace the needle as described below.

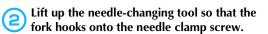


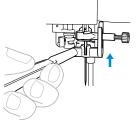


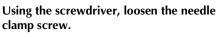
1

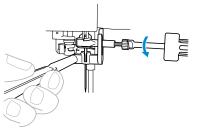
Pass the needle through the hole in the needle-changing tool.

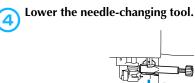


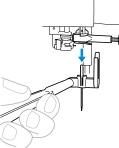










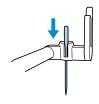


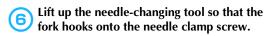
The needle can be removed from the needle bar.

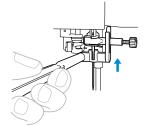


Insert the new needle into the hole in the needle-changing tool.

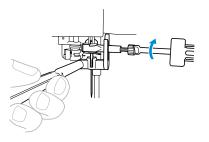
Insert the needle with the flat side of the needle toward the rear of the machine.







Insert the needle until it touches the needle stopper, and then use the screwdriver to tighten the needle clamp screw.



▶ The needle is installed.

B Lower the needle-changing tool off of the needle.

APPENDIX

Replacing the Presser Foot

The presser foot presses down on the fabric.

Presser foot precautions

Be sure to observe the following precautions concerning the presser feet.

CAUTION

- Use the presser foot appropriate for the type of stitch that you wish to sew, otherwise the needle may hit the presser foot, causing the needle to bend or break.
- Only use presser feet designed specifically for this sewing machine. Use of any other presser foot may result in injuries or damage to the machine.

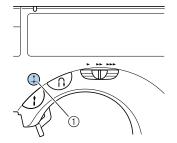
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Replacing the presser foot

Replace the presser foot as described below. For details on using the side cutter "S", refer to "Sewing overcasting stitches using the optional side cutter" (page 62).



Press (1) (needle position button) once or twice to raise the needle.



- ① Needle position button
- The needle is raised.

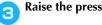


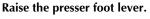
Turn off the sewing machine.

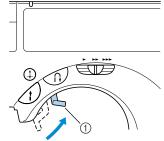


CAUTION

• Before replacing the presser foot, be sure to turn off the sewing machine, otherwise injuries may occur if the start/stop button is accidentally pressed and the machine starts sewing.







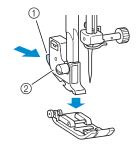
- Presser foot lever
- The presser foot is raised.

UTILITY STITCHES

GETTING READY



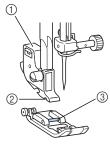
Press the black button at the back of the presser foot holder.



- 1 Black button
- ② Presser foot holder
- The presser foot holder releases the presser foot.

Place a different presser foot below the holder so that the presser foot pin is aligned with the notch in the holder.

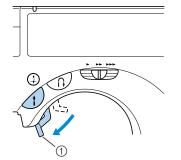
Position the presser foot so the letter indicating the presser foot type (A, G, I, J, M, N or R) is positioned to be read.



- ① Presser foot holder
- Notch
- ③ Pin

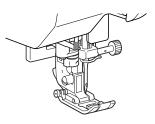
6

Slowly lower the presser foot lever so that the presser foot pin snaps into the notch in the presser foot holder.



- ① Presser foot lever
- ▶ The presser foot is attached.

Raise the presser foot lever to check that the presser foot is securely attached.





• For details on the presser foot that should be used with the selected stitch, refer to "Stitch Settings" (page 96).

APPENDIX

INDEX

Removing the presser foot holder

Remove the presser foot holder when cleaning the sewing machine or when installing a presser foot that does not use the presser foot holder, such as the quilting foot. Use the screwdriver to remove the presser foot holder.

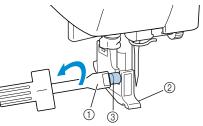
Removing the presser foot holder

Remove the presser foot.

• For details, refer to "Replacing the presser foot" (page 35).

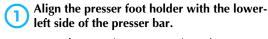


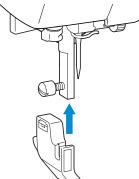
Use the screwdriver to loosen the presser foot holder screw.



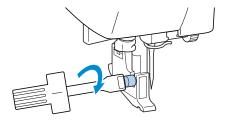
- ① Screwdriver
- ② Presser foot holder
- ③ Presser foot holder screw

Attaching the presser foot holder





Hold the presser foot holder in place with your right hand, and then tighten the screw using the screwdriver in your left hand.



Screwdriver



If the presser foot holder is not correctly installed, the thread tension will be incorrect.

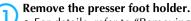
Using the optional walking foot

With the walking foot, both pieces of fabric are fed evenly by the feed dogs and the teeth on the presser foot. This is useful when sewing fabrics that are hard to feed such as vinyl and leather and when sewing fabrics that easily slip such as velvets or when quilting.

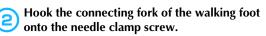
Use the screwdriver to attach the walking foot.

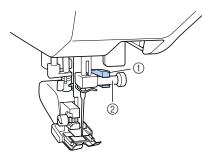


Attaching the walking foot



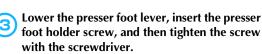
• For details, refer to "Removing the presser foot holder" (on the previous page).

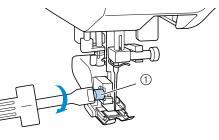




Connecting fork

② Needle clamp screw





(1) Presser foot holder screw

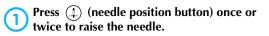
CAUTION

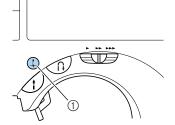
- Be sure to securely tighten the screw with the screwdriver, otherwise the needle may touch the presser foot, causing it to bend or break.
- Before starting to sew, slowly turn the balance wheel toward you and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break.

Note

• When sewing with the walking foot, sew at a speed between slow and medium.

Removing the walking foot





- Needle position button
- The needle is raised.

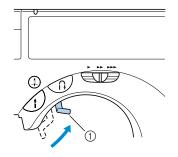
Turn off the sewing machine. (2



CONTENTS



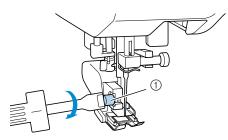
Raise the presser foot lever.



① Presser foot lever

▶ The presser foot is raised.

With a screwdriver, loosen the presser foot holder screw, and then remove the walking foot.



1 Presser foot holder screw

5 Attach the presser foot holder.

• For details, refer to "Removing the presser foot holder" (page 37).



• Only the straight stitch (with reinforcement stitching) and the zigzag stitch can be used with the walking foot. For details on the stitches, refer to "Stitch Settings" (page 96).

Sewing Cylindrical Pieces

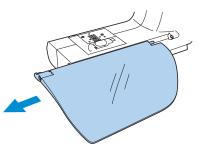
Free-arm sewing makes sewing cylindrical pieces easy.

Free-arm sewing

Removing the flap allows for free-arm sewing, making it easier to sew cylindrical pieces such as sleeve cuffs and pant legs.



Slide the flap off to the left.



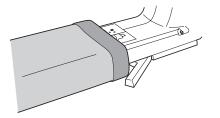
- ▶ With the flap removed, free-arm sewing is possible.
- Pull the sliding leg (at the bottom of the machine) out toward you.



- ① Sliding leg
- During free-arm sewing, be sure to pull out the sliding leg.



Slide the part that you wish to sew onto the arm, and then sew from the top.

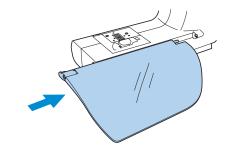




When you are finished with free-arm sewing, push the sliding leg back into position.



5 Then, install the flap back to its original position.

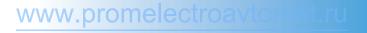




SEWING BASICS

The necessary preparations for sewing are described in this chapter.

Sewing	.42
Adjusting the Thread Tension	.50
Adjusting the Stitch Width and Length	.51
Useful Sewing Tips	.53



Sewing

Basic sewing operations are described below. Before operating the sewing machine, read the following precautions.

- While the machine is in operation, pay special attention to the needle location. In addition, keep your hands away from all moving parts such as the needle and balance wheel, otherwise injuries may occur.
- Do not pull or push the fabric too hard while sewing, otherwise injuries may occur or the needle may break.
- Never use bent needles. Bent needles can easily break, possibly resulting in injuries.
- Make sure that the needle does not strike basting pins, otherwise the needle may break or bend.

General sewing procedure

Follow the basic procedures below to sew.

1	Turn on the machine.	Turn on the sewing machine. For details on turning on the machine, refer to "Turning on the machine" (page 11).				
		\downarrow				
2	Select the stitch. Select the stitch appropriate for the area to be sewn. For details on selecting a stitch, refer to "Selecting stitching" (page 58)					
		\downarrow				
3	Attach the presser foot appropriate for the stitch. For details on replacing the presser foot, refer to "Replacing the presser foot" (page 35).					
		\downarrow				
4	Position the fabric.	Place the area to be sewn under the presser foot. Be sure that the fabric pieces are sewn in the correct order and that the right and wrong sides of the fabric are aligned correctly. For details on positioning the fabric, refer to "Positioning the fabric" (page 44).				
		↓				
5	Start sewing.	Start sewing. For details on starting to sew, refer to "Starting to sew" (page 45).				
		↓				
6	Cut the thread.	Cut the thread at the end of sewing. For details on cutting the thread, refer to "Cutting the thread" (page 49).				

Positioning the fabric

Be sure that the fabric pieces are sewn in the correct order and that the right and wrong sides of the fabric are aligned correctly.



Turn on the sewing machine.



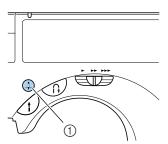
The straight stitch (left needle position) is automatically selected.



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Press (1) (needle position button) once or

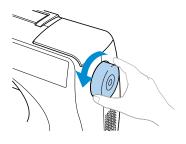
twice to raise the needle.

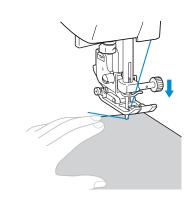


① Needle position button

Place the fabric under the presser foot.

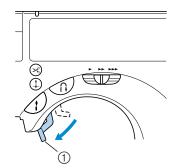
- If the seam allowance is positioned on the right side, sewing in a straight line is easier and the extra fabric does not get in the way.
- 4 While holding the end of the thread and the fabric with your left hand, turn the balance wheel toward you with your right hand to lower the needle to the starting point of the stitching.



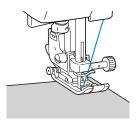




Lower the presser foot lever.



- ① Presser foot lever
- ▶ The fabric is now positioned to be sewn.



APPENDIX

Starting to sew

Once you are ready to start sewing, you can start the sewing machine. The sewing speed can be adjusted using either the operation buttons or the foot controller.

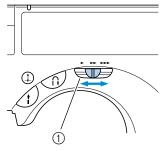
■ Using the operation buttons

Sewing can be started and stopped using the

operation button (1) (start/stop button).

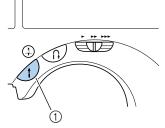
Slide the sewing speed controller to the left or right to select the desired sewing speed.

Slide the sewing speed controller to the left to sew at a slower speed, or slide the speed controller to the right to sew at a faster speed.

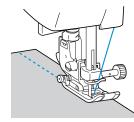


① Sewing speed controller





- ① Start/stop button
- ▶ The machine starts sewing.



• If you continue to hold the start/stop button pressed immediately after the sewing starts, the machine will sew at a slow speed.

When the end of the stitching is reached, press /) (start/stop button) once.

The machine stops sewing with the needle down (in the fabric).

4 When you are finished sewing, raise the needle, and then cut the threads.

• For details, refer to "Cutting the thread" (page 49).

■ Using the foot controller

Sewing can be started and stopped using the foot controller.

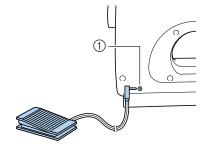


Turn off the sewing machine.

When connecting the foot controller, be sure to turn off the sewing machine in order to prevent the machine from accidentally being started.



Insert the foot controller plug into its jack on the side of the sewing machine.

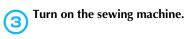


① Foot controller jack



(For U.S.A. only)

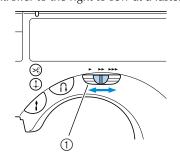
- Foot controller: Model N5V This foot controller can be used on this machine model CS-8075.
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Slide the sewing speed controller to the left or right to select the desired sewing speed. Slide the sewing speed controller to the left to sew at a slower speed, or slide the speed controller to the right to sew at a faster speed.



- ① Sewing speed controller
- The speed set using the sewing speed controller is the foot controller's maximum sewing speed.

Once you are ready to start sewing, slowly press down on the foot controller.

Pressing down on the foot controller increases the sewing speed; releasing the pressure on the foot controller decreases the sewing speed.



- Slowly press down on the foot controller. Pressing it down hard starts sewing too quickly.
- ▶ The machine starts sewing.

When the end of the stitching is reached, completely release the foot controller.

The machine stops sewing with the needle lowered (in the fabric).

When you are finished sewing, raise the needle, and then cut the threads.

• For details, refer to "Cutting the thread" (page 49).

🥏 Memo

- When the foot controller is plugged in, the start/stop button cannot be used to start or stop sewing.
- When sewing is stopped, the needle remains lowered (in the fabric). The machine can be set so that the needle will stay up when sewing is stopped. For details on setting the machine so that the needle stays up when sewing is stopped, refer to "Changing the needle stop position" (page 107).

- Do not allow thread or dust to accumulate in the foot controller, otherwise a fire or an electric shock may occur.
- Do not place objects on the foot controller, otherwise damage to the machine or injuries may occur.
- If the machine is not to be used for a long period of time, unplug the foot controller, otherwise a fire or an electric shock may occur.

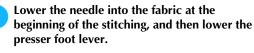
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6

APPENDIX

Securing the stitching

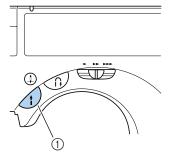
When sewing with the straight stitch, for example, at the end of an opening or where seams do not overlap, use reverse stitching or reinforcement stitching to secure the end of the thread.





Press (t) (start/stop button) or press down on the foot controller.

At this time, if the start/stop button is held pressed, the machine sews at a low speed.



- ① Start/stop button
- For details, refer to "Starting to sew" (page 45).
- ▶ The machine starts sewing.

After sewing 3 to 5 stitches, press

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(reverse/reinforcement stitch button). Keep the reverse/reinforcement stitch button held down until you reach the beginning of the stitching.



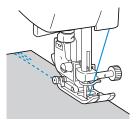
- ① Reverse/reinforcement stitch button
- While the reverse/reinforcement stitch button is held pressed, reverse stitches are sewn.

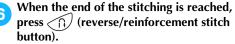
After sewing back to the beginning of the stitching, release the reverse/reinforcement stitch button.

▶ The machine stops sewing.

Press (t) (start/stop button), or press down on the foot controller.

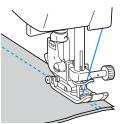
The machine starts sewing in the normal sewing direction.

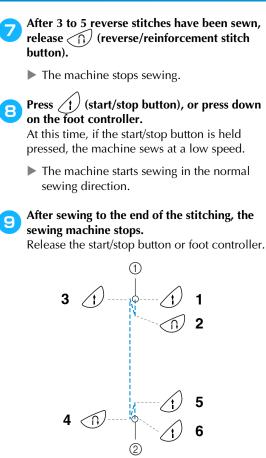




Keep the reverse/reinforcement stitch button held down until 3 to 5 reverse stitches are sewn.

While the reverse/reinforcement stitch button is depressed, reverse stitches are sewn.





① Beginning of stitching

② End of stitching

Sewing reinforcement stitches

When sewing stitches other than straight or zigzag stitches that are secured with reverse stitching,



① Reverse stitching

② Reinforcement stitching



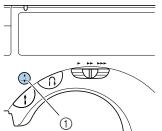
• Whether reverse stitches or reinforcement stitches are sewn depends on the stitch that is selected. For details, refer to "Stitch Settings" (page 96).

APPENDIX

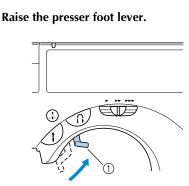
Cutting the thread

When you have finished sewing, cut the threads.

When you wish to finish the stitching and the sewing machine is stopped, press (1) (needle position button) once to raise the needle.

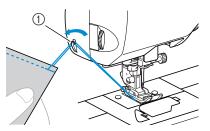


- 1 Needle position button
- The needle is raised.



① Presser foot lever

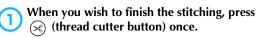
Pull the fabric to the left side of the machine, and then pass the threads through the thread cutter to cut them.

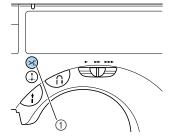


(1) Thread cutter

 Using the thread cutter button (Only for models equipped with the thread cutter button)

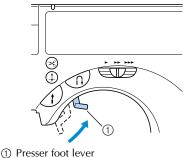
When using a model equipped with a thread cutter button, the thread can easily be cut if the button is pressed.





- Thread cutter button
- ▶ The threads are cut and the needle is raised.

2 Raise the presser foot lever.



• Do not press the thread cutter button after the threads have already been cut, otherwise the needle may break, the threads may become tangled or damage to the machine may occur.

Note

- Do not press the thread cutter button if there is no fabric under the presser foot or while the machine is sewing, otherwise damage to the machine may occur.
- When sewing with thread thicker than #30, nylon or metallic threads, or other special threads, use the thread cutter on the side of the machine to cut the threads.

Adjusting the Thread Tension

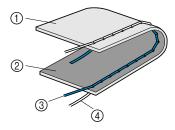
The tensions of the upper thread and of the bobbin thread (thread tension) should be adjusted so that they are equal.

Changing the tension of the upper thread

If the thread and needle combination is correct for the type of fabric being sewn (according to "Needle types and their uses" on page 30), the thread tension will automatically be adjusted to the appropriate setting. However, if the preset thread tension does not give the desired result or if you are sewing with special thread or on special fabric, use the thread tension dial on the left side of the machine to adjust the tension of the upper thread.

Correct thread tension

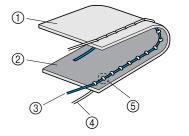
The upper thread and the bobbin thread should cross near the center of the fabric. Only the upper thread should be visible from the right side of the fabric, and only the bobbin thread should be visible from the wrong side of the fabric.



- ① Wrong side of fabric
- ② Right side of fabric
- ③ Upper thread
- ④ Bobbin thread

Upper thread is too tight

If the bobbin thread is visible from the right side of the fabric, the upper thread is too tight.

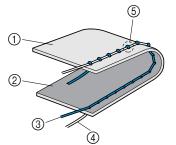


- ① Wrong side of fabric
- ② Right side of fabric
- ③ Upper thread
- ④ Bobbin thread
- The bobbin thread is visible from the right side of the fabric.

Turn the thread tension dial downward to loosen the upper thread.

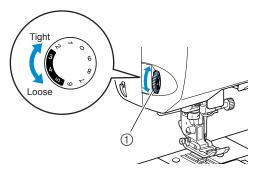
Upper thread is too loose

If the upper thread is visible from the wrong side of the fabric, the upper thread is too loose.



- ① Wrong side of fabric
- ② Right side of fabric
- ③ Upper thread
- ④ Bobbin thread
- (5) The upper thread is visible from the wrong side of the fabric.

Turn the thread tension dial upward to tighten the upper thread.



Thread tension dial

APPENDIX

Adjusting the Stitch Width and Length

The zigzag width (pattern width) and stitch length of utility stitches can be adjusted. Normally, when a stitch is selected, the appropriate width and length are automatically selected. For details on the range of values within which the width and length can be set, refer to "Stitch Settings" (page 96).

Adjusting the stitch width

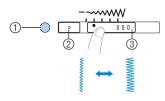


Press the stitch width adjustment button in the operation panel.

- The stitch width adjustment indicator lights up.
- 2

Slide the stitch width adjustment slider to the left or right.

Sliding the stitch width adjustment slider to the right makes the stitch width wider; sliding the slider to the left makes the stitch width narrower.

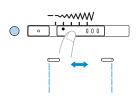


① Stitch width adjustment indicator

- ② Stitch width adjustment button
- ③ Stitch width adjustment slider

Changing the needle position

With the straight stitch (left needle position) and the triple stretch stitch, the needle position can be adjusted. Sliding the stitch width adjustment slider to the right moves the needle to the right; sliding the slider to the left moves the needle to the left.



• To automatically select the stitch width most appropriate for the selected stitch, press the stitch width adjustment button again.

• After adjusting the stitch width, slowly turn the balance wheel toward you and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break.

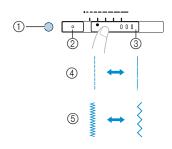
www.promelectroavtomat.ru Adjusting the Thread Tension/Adjusting the Stitch Width and Length

Adjusting the stitch length

Press the stitch length adjustment button in the operation panel.

- The stitch length adjustment indicator lights up.
- Slide the stitch length adjustment slider to the left or right.

Sliding the stitch length adjustment slider to the right makes the stitching coarser; sliding the slider to the left makes the stitching finer.



- ① Stitch length adjustment indicator
- ② Stitch length adjustment button
- Stitch length adjustment slider
 Studiet witch
- (4) Straight stitch
- ⑤ Zigzag stitch
- To automatically select the stitch length most appropriate for the selected stitch, press the stitch length adjustment button again.

• If the stitches are bunched together, increase the stitch length. Continuing to sew with the stitches bunched together may result in the needle bending or breaking.

CONTENTS

GETTING READY

Useful Sewing Tips

Various ways to achieve better results for your sewing projects are described below. Refer to these tips when sewing your project.

Trial sewing

After you have set up the machine with the thread and needle appropriate for the type of fabric being sewn, the machine automatically sets the thread tension and stitch length and width for the stitch that is selected. However, a trial piece of fabric should be sewn since, depending on the type of fabric and stitching being sewn, the desired results may not be achieved.

For the trial sewing, use a piece of fabric and thread that are the same as those used for your project, and check the thread tension and stitch length and width. Since the results differ depending on the type of stitching and the number of layers of fabric sewn, perform the trial sewing under the same conditions that will be used with your project.

Changing the sewing direction

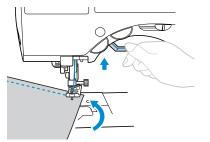
When the stitching reaches a corner, stop the sewing machine.

Leave the needle lowered (in the fabric). If the needle remained up when the machine

stopped sewing, press (1) (needle position button) to lower the needle.

Raise the presser foot lever, and then turn the fabric.

Turn the fabric using the needle as a pivot.

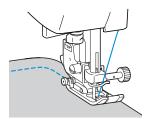




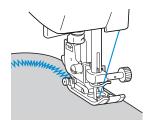
Lower the presser foot lever and continue sewing.

Sewing curves

Stop sewing, and then slightly change the sewing direction to sew around the curve. For details on sewing with an even seam allowance, refer to "Sewing an even seam allowance" (page 55).



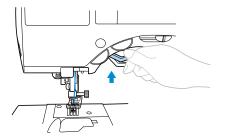
When sewing along a curve while using a zigzag stitch, select a shorter stitch length in order to obtain a finer stitch.



SEWING BASICS

Sewing thick fabrics

■ If the fabric does not fit under the presser foot If the fabric does not fit easily under the presser foot, raise the presser foot lever even higher to bring the presser foot to its highest position.



If thick seams are being sewn and the fabric does not feed at the beginning of stitching Zigzag foot "J" is equipped with a feature that

keeps the presser foot level.

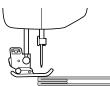


- ① Sewing direction
- When you encounter a seam that is too thick to feed under the foot, raise the presser foot lever.
 - Press the black button on the left side of the foot. Keep the button held in and lower the presser foot.





Release the button. The foot will lock in place level with the seam, allowing the fabric to feed.



Once the trouble spot has been passed, the foot will return to its normal position.

• If fabric more than 6 mm (15/64 inch) thick is sewn or if the fabric is pushed with too much force, the needle may bend or break.

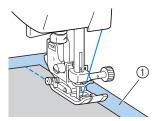
SEWING BASICS

APPENDIX

INDEX

Sewing thin fabrics

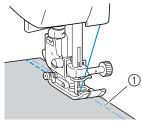
When sewing thin fabrics, the stitching may become misaligned or the fabric may not feed correctly. If this occurs, place thin paper or stabilizer material under the fabric and sew it together with the fabric. When you have finished sewing, tear off any excess paper.



① Stabilizer material or paper

Sewing stretch fabrics

First, baste the pieces of fabric together, and then sew without stretching the fabric.

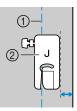


① Basting

Sewing an even seam allowance

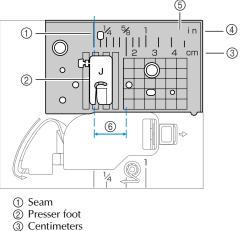
To sew an even seam, start sewing so that the seam allowance is to the right of the presser foot, and the edge of the fabric is aligned with either the right edge of the presser foot or a marking on the needle plate.

Aligning the fabric with the presser foot Sew while keeping the right edge of the presser foot a fixed distance from the edge of the fabric.





■ Aligning the fabric with a needle plate marking The markings on the needle plate show the distance from the needle position of a seam sewn with the straight stitch (left needle position). Sew while keeping the edge of the fabric aligned with a marking in the needle plate. The distance between the markings in the upper scale is 1/8 inch (3 mm) and the distance between the markings in the grid is 5 mm (3/16 inch).



- (3) Centimete(4) Inches
- (4) Inches(5) Needle plate

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6 16 mm (5/8 inch)

3

UTILITY STITCHES

The various stitches and their applications are described in this chapter.

Selecting Stitching	5
Overcasting Stitches	6
Basic Stitching	6
Blind Hem Stitching	6
Buttonhole Stitching	
Zipper Insertion	7
Sewing Stretch Fabrics and Elastic Tape	
Appliqué, Patchwork and Quilt Stitching	
Reinforcement Stitching	
Eyelet Stitching	
Decorative Stitching	

Selecting Stitching

You can select any of the various types of stitching available.

Selecting stitching

Using the operation panel keys, select the desired stitch.

When the sewing machine is turned on, the straight stitch ($\frac{90}{2}$ left needle position) is selected.

A letter (A, G, J, N or R) indicating the presser foot that should be used appears below the stitch number.



Determine the stitch that you wish to use.

Determine which presser foot should be used with the selected stitch.

 For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 96).

Attach the presser foot.

- For details, refer to "Replacing the presser foot" (page 35).

Turn on the sewing machine.



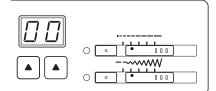
▶ When the machine is first turned on, "00" will be displayed.

Press 5

(stitch selection key). The number of the selected stitch is displayed.

Each press of increases the number by one. After "9" ($\overline{4}$ " for the number on the left) is reached, the number returns to "0". Pressing

• on the right changes the second digit (ones) and pressing on the left changes the first digit (tens).



▶ The stitch is selected.

If necessary, width and length adjust the stitch length, etc.

• For details on sewing with each of the utility stitches, refer to the following pages.

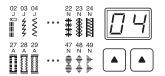
■ [Example] Selecting stitch

Press the stitch selection keys to select stitch 04.

With

1

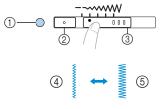
on the right, select "4", and with on the left, select "0".



2

To adjust the stitch width, slide the stitch width adjustment slider to the left or right.

Press the stitch width adjustment button, and then slide the stitch width adjustment slider to adjust the stitch width.



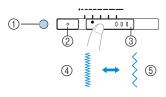
- ① Stitch width adjustment indicator
- ② Stitch width adjustment button
- ③ Stitch width adjustment slider④ Narrow
- (5) Wide

3

0

To adjust the stitch length, slide the stitch length adjustment slider to the left or right.

Press the stitch length adjustment button, and then slide the stitch length adjustment slider to adjust the stitch length.



① Stitch length adjustment indicator

- ② Stitch length adjustment button
- ③ Stitch length adjustment slider
- ④ Short
- 5 Long



• For details on adjusting the stitch width and length, refer to "Adjusting the Stitch Width and Length" (page 51).

Overcasting Stitches

Sew overcasting stitches along the edges of cut fabric to prevent them from fraying. Seven stitches are available for overcasting. The procedure for sewing overcasting stitch is explained according to the presser foot that is used.

Sewing overcasting stitches using overcasting foot "G"

Two stitches can be used to sew overcasting with overcasting foot "G".

Stitch Name	Pattern	Application		ch Width n (inch.)]		ch Length n (inch.)]	Presser Foot
			Auto	Manual	Auto	Manual	FUUL
Overcasting	⁶⁶ G ΛΛΛ	Preventing fraying in medium weight and thin fabrics	3.5 (1/8)	2.5–5.0 (3/32–3/16)	2.0 (1/16)	1.0–4.0 (1/16–3/16)	G
stitch	org VVV	Preventing fraying in thick fabrics and fabrics that fray easily	5.0 (3/16)	2.5–5.0 (3/32–3/16)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	U

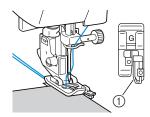
Attach overcasting foot "G".



• For details, refer to "Replacing the presser foot" (page 35).

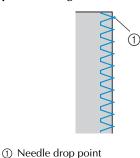
Select a stitch.

- For details, refer to "Selecting stitching" (page 58).
- **3** Position the fabric with the edge of the fabric against the guide of the presser foot, and then lower the presser foot lever.



1) Guide

Sew with the edge of the fabric against the presser foot guide.



• After adjusting the stitch width, slowly turn the balance wheel toward you and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break.

Sewing overcasting stitches using zigzag foot "J"

Three stitches can be used to sew overcasting stitches with zigzag foot "J".

Stitch Name	Pattern	ch Name Pattern Application	Stitch Width [mm (inch.)]		Stitch Length [mm (inch.)]		Presser
			Auto	Manual	Auto	Manual	Foot
Zigzag stitch (center needle position)	04 J	Preventing fraying (center baseline/ reverse stitching)	3.5 (1/8)	0.0–7.0 (0–1/4)	1.4 (1/16)	0.0–4.0 (0–3/16)	
3-point zigzag stitch	05 J	Preventing fraying in thick fabrics and stretch fabrics	5.0 (3/16)	1.5–7.0 (1/16–1/4)	1.0 (1/16)	0.2–4.0 (1/64–3/16)	J
Overcasting stitch	777 ^c 80	Preventing fraying in stretch fabrics	5.0 (3/16)	0.0–7.0 (0–1/4)	2.5 (3/32)	0.5–4.0 (1/32–3/16)	

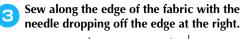
Attach zigzag foot "J".

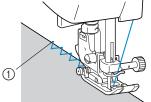


• For details, refer to "Replacing the presser foot" (page 35).

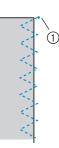
Select a stitch.

• For details, refer to "Selecting stitching" (page 58).





① Needle drop point



① Needle drop point

Sewing overcasting stitches using the optional side cutter

Using the side cutter, seam allowances can be finished while the edge of the fabric is cut off. The following four stitches can be used to sew overcasting. When the side cutter is attached, be sure to use the settings in the ranges listed below.

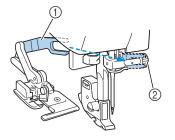
Stitch Name	Pattern	Pattern Application	Stitch Width [mm (inch.)]		Stitch Length [mm (inch.)]		Presser
			Auto	Manual	Auto	Manual	Foot
	00 J 	Sewing straight stitches while cutting the fabric	0.0 (0)	0.0–2.5 (0–3/32)	2.5 (3/32)	0.2–5.0 (1/64–3/16)	
Overcasting	6 ^G VVV	Preventing fraying in thin and mediumweight fabrics while cutting the fabric	3.5 (1/8)	3.5–5.0 (1/8–3/16)	2.0 (1/16)	1.0–4.0 (1/16–3/16)	S
stitch	07 G MM	Preventing fraying in thick fabrics while cutting the fabric	5.0 (3/16)	3.5–5.0 (1/8–3/16)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	
	36 J.	Sewing zigzag stitches while cutting the fabric	3.5 (1/8)	3.5–5.0 (1/8–3/16)	1.4 (1/16)	0.0–4.0 (0–3/16)	



Remove the presser foot.

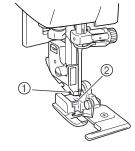
• For details, refer to "Replacing the presser foot" (page 35).

Hook the connecting fork of the side cutter onto the needle clamp screw.



Connecting fork
 Needle clamp screw

3 Position the side cutter so that side cutter pin is aligned with the notch in the presser foot holder, and then slowly lower the presser foot lever.



Notch in presser foot holder
 Pin

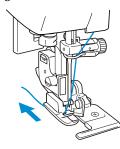
▶ The side cutter is attached.

APPENDIX

Raise the presser foot lever to check that the side cutter is securely attached.

CAUTION

- If the thread cassette is to be installed with the side cutter attached, be sure to lower the presser foot lever. If the presser foot lever remains raised, the needle threader will hit the presser foot, which may result in damages.
- Pass the upper thread under the side cutter, and then pull it out toward the rear of the sewing machine.



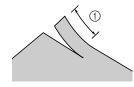


Select a stitch.

• For details, refer to "Selecting stitching" (page 58).

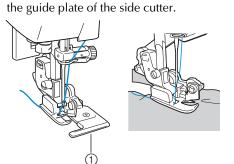
CAUTION

- After adjusting the stitch width, slowly turn the balance wheel toward you and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break.
 - Make a cut of about 2 cm (1/16 inch) long in the fabric at the beginning of the stitching.



① 2 cm (1/16 inch)

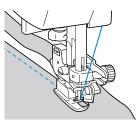
B Position the fabric in the side cutter. The cut in the fabric should be positioned over



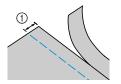
① Guide plate

• If the fabric is not positioned correctly, the fabric will not be cut.

Lower the presser foot lever, and then start sewing.



- A seam allowance is cut while the stitching is sewn.
- If the stitching is sewn in a straight line, the seam allowance will be about 5 mm (3/16 inch).



① 5 mm (3/16 inch)

🥏 Memo

- The side cutter can cut as much as one layer of 13-oz. denim.
- After using the side cutter, clean it by removing any lint or dust.
- If the side cutter can no longer cut fabric, use a rag to apply a small amount of oil to the cutting edge of the cutter.

Basic Stitching

Straight stitches are used for sewing plain seams. Three stitches are available for basic stitching.

Stitch Name		e Pattern	Pattern Application	Stitch Width [mm (inch.)]		Stitch Length [mm (inch.)]		Presser
				Auto	Manual	Auto	Manual	Foot
	Straight stitch (left needle position)	00 J ()	Basic stitching and sewing gathers or pintucks (left baseline/reverse stitching)	0.0 (0)	0.0–7.0 (0–1/4)	2.5 (3/32)	0.2–5.0 (1/64–3/16)	
	Straight stitch (center needle position)	01 J () 	Basic stitching and sewing gathers or pintucks (center baseline/reverse stitching)	-	_	2.5 (3/32)	0.2–5.0 (1/64–3/16)	J
	Triple stretch stitch	02 J ∭■ ■	Reinforcing seams and sewing stretch fabrics	0.0 (0)	0.0–7.0 (0–1/4)	2.5 (3/32)	1.5–4.0 (1/16–3/16)	

Basic stitching

- Baste or pin together the fabric pieces.
 - Attach zigzag foot "J".



• For details, refer to "Replacing the presser foot" (page 35).

Select a stitch.

• For details, refer to "Selecting stitching" (page 58).

Lower the needle into the fabric at the beginning of the stitching.

Start sewing.

- For details, refer to "Starting to sew" (page 45).
- For details on sewing reverse/reinforcement stitches, refer to "Securing the stitching" (page 47).

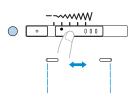
6 When sewing is finished, cut the thread.

• For details, refer to "Cutting the thread" (page 49).



Changing the needle position

With the straight stitch (left needle position) and the triple stretch stitch, the needle position can be adjusted. Sliding the stitch width adjustment slider to the right moves the needle to the right; sliding the slider to the left moves the needle to the left.

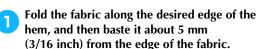


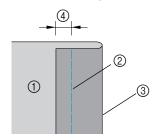
Blind Hem Stitching

Secure the bottoms of skirts and pants with a blind hem. Two stitches are available for blind hem stitching.

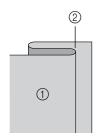
Stitch Name	Pattern Application		Stitch Width [mm (inch.)]		Stitch Length [mm (inch.)]		Presser Foot
			Auto	Manual	Auto	Manual	Γυοι
Blind hem	9°E / 777	Blind hem stitching on mediumweight fabrics	0.0 (0)	+33	2.0 (1/16)	1.0–3.5 (1/16–1/8)	R
stitch	10 R /m/m	Blind hem stitching on stretch fabrics	0.0 (0)	+33	2.0 (1/16)	1.0–3.5 (1/16–1/8)	R

Sew a blind hem according to the following procedure.





- ① Wrong side of fabric
- ② Basting stitching
- ③ Desired edge of hem
- ④ 5 mm (3/16 inch)
- Fold back the fabric along the basting, and then position the fabric with the wrong side facing up.



Wrong side of fabric
 Basting

Attach blind hem foot "R".

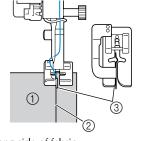


• For details, refer to "Replacing the presser foot" (page 35).

Select a stitch.

• For details, refer to "Selecting stitching" (page 58).

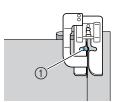
Position the fabric with the edge of the folded hem against the guide of the presser foot, and then lower the presser foot lever.



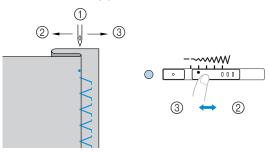
Wrong side of fabric
 Fold of hem
 Guide



Adjust the stitch width until the needle slightly catches the fold of the hem.



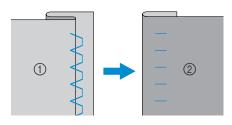
① Needle drop point



- 1 Needle drop point
- Wider stitch 2
- 3 Narrower stitch

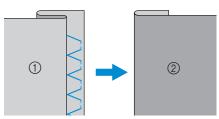
■ If the needle catches too much of the hem fold

If the needle catches too much of the hem fold, move the stitch width adjustment lever to the left. This makes the stitch narrower to move the needle away from the fold.



- (1) Wrong side of fabric
- (2) Right side of fabric

■ If the needle does not catch the hem fold If the needle does not catch enough of the hem fold, move the stitch width adjustment lever to the right. This makes the stitch wider to move the needle closer onto the fold.

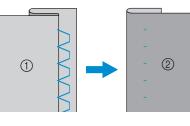


- ① Wrong side of fabric
- 2 Right side of fabric
- For details on changing the stitch width, refer to "Adjusting the Stitch Width and Length" (page 51).

Sew with the fold of the hem against the presser foot guide.



Remove the basting stitching.



① Wrong side of fabric ② Right side of fabric

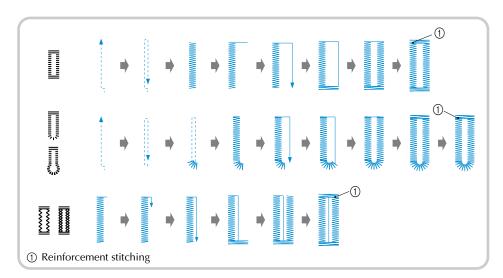
Buttonholes can be sewn and buttons can be sewn on. Five stitches are available for sewing one-step buttonholes.

Stitch Name	Pattern	Application		ch Width n (inch.)]	Stit [mi	Presser Foot	
			Auto	Manual	Auto	Manual	1001
	26 A	Horizontal buttonholes on thin and mediumweight fabrics	5.0 (3/16)	3.0–5.0 (1/8–3/16)	0.4 (1/64)	0.2–1.0 (1/64–1/16)	
	27 A	Buttonholes with bar tacks on both ends for stabilized fabrics	5.0 (3/16)	3.0–5.0 (1/8–3/16)	0.4 (1/64)	0.2–1.0 (1/64–1/16)	
Buttonhole stitch	28 A	Buttonholes for stretch or knit fabrics	6.0 (15/64)	3.0–6.0 (1/8–15/64)	1.0 (1/16)	0.5–2.0 (1/32–1/16)	А
	29 A	Buttonholes for stretch fabrics	6.0 (15/64)	3.0–6.0 (1/8–15/64)	1.5 (1/16)	1.0–3.0 (1/16–1/8)	
	30 A	Keyhole buttonholes for thick or plush fabrics	7.0 (1/4)	3.0–7.0 (1/8–1/4)	0.5 (1/32)	0.3–1.0 (1/64–1/16)	
Button- sewing stitch	36 	Button sewing	3.5 (1/8)	0.0–7.0 (0–1/4)	1.4 (1/16)	0.0–4.0 (0–3/16)	м

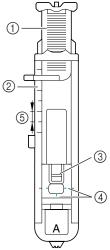
GETTING READY

Buttonhole sewing

The maximum buttonhole length is about 28 mm (1-1/8 inch) (diameter + thickness of the button). Buttonholes are sewn from the front of the presser foot to the back, as shown below.

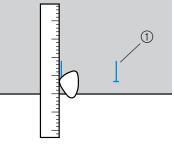


The names of parts of buttonhole foot "A", which is used for sewing buttonholes, are indicated below.



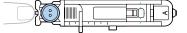
- ① Button guide plate
- Presser foot scale
- ③ Pin
- ④ Marks on buttonhole foot
- (5) 5 mm (3/16 inch)

Use chalk to mark on the fabric the position and length of the buttonhole.





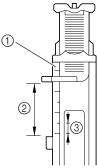
Pull out the button guide plate of buttonhole foot "A", and then insert the button that will be put through the buttonhole.





If the button does not fit in the button guide plate

Add together the diameter and thickness of the button, and then set the button guide plate to the calculated length. (The distance between the markings on the presser foot scale is 5 mm (3/16 inch).)



- ① Presser foot scale
- D Length of buttonhole
- (Diameter + thickness of button)
- ③ 5 mm (3/16 inch)

Example: For a button with a diameter of 15 mm (9/16 inch) and a thickness of 10 mm (3/8 inch), the button guide plate should be set to 25 mm (1 inch) on the scale.



- ① 10 mm (3/8 inch)
- ② 15 mm (9/16 inch)
- ▶ The size of the buttonhole is set.

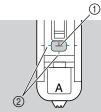
Attach buttonhole foot "A".

• For details, refer to "Replacing the presser foot" (page 35).

Select a stitch.

• For details, refer to "Selecting stitching" (page 58).

Position the fabric with the front end of the buttonhole mark aligned with the red marks on the sides of the buttonhole foot, and then lower the presser foot lever.

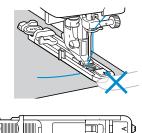


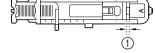
① Mark on fabric

Red marks on buttonhole foot

Pass the upper thread down through the hole in the presser foot.

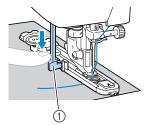
• When lowering the presser foot, do not push in the front of the presser foot, otherwise the buttonhole will not be sewn with the correct size.





① Do not reduce the gap.

Pull down the buttonhole lever as far as possible.

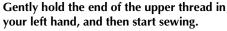


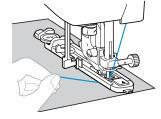
① Buttonhole lever

The buttonhole lever is positioned behind the bracket on the buttonhole foot.



Buttonhole lever
 Bracket

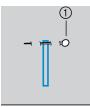




Once sewing is completed, the machine automatically sews reinforcement stitches, then stops

UTILITY STITCHES

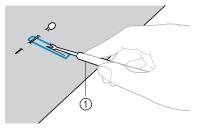
- B Raise the presser foot lever, remove the fabric, and cut the thread.
- Paise the buttonhole lever to its original position.
- Insert a pin along the inside of one bar tack at the end of the buttonhole stitching to prevent the stitching from being cut.



① Pin

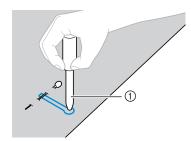


Use the seam ripper to cut towards the pin and open the buttonhole.



① Seam ripper

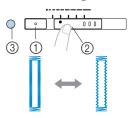
For keyhole buttonholes, use the eyelet punch to make a hole in the rounded end of the buttonhole, and then use the seam ripper to cut open the buttonhole.



① Eyelet punch

• When using the eyelet punch, place thick paper or some other protective sheet under the fabric before punching the hole in the fabric.

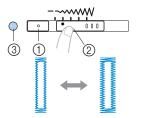
- When opening the buttonhole with the seam ripper, do not place your hands in the cutting direction, otherwise injuries may result if the seam ripper slips.
 - Changing the density of the stitching Press the stitch length adjustment button, and then slide the stitch length adjustment slider to adjust the stitch length.



- ① Stitch length adjustment button
- ② Stitch length adjustment slider
- ③ Stitch length adjustment indicator
- For details, refer to "Adjusting the stitch length" (page 52).
- If the fabric does not feed (for example, if it is too thick), decrease the density of the stitching.

■ Changing the stitch width

Press the stitch width adjustment button, and then slide the stitch width adjustment slider to adjust the stitch width.

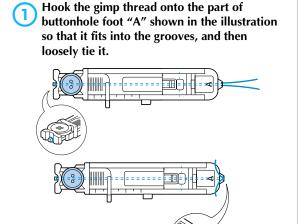


- ① Stitch width adjustment button
- ② Stitch width adjustment slider
- ③ Stitch width adjustment indicator
- For details, refer to "Adjusting the stitch width" (page 51).

> Memo

 Before sewing buttonholes, check the stitch length and width by sewing a trial buttonhole on a scrap piece of fabric. APPENDIX

INDEX



When sewing buttonholes on stretch fabrics, use a

Sewing buttonholes on stretch fabrics

gimp thread.

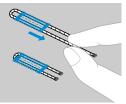
Attach buttonhole foot "A".

- For details, refer to "Replacing the presser foot" (page 35).
- Select stitch $\frac{\frac{28}{A}}{\underline{\underbrace{\Pi}}}$ or

Adjust the stitch width to the thickness of the gimp thread.

Dower the presser foot lever and the buttonhole lever, and then start sewing.

6 When sewing is finished, gently pull the gimp thread to remove any slack.

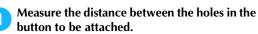


- Use a handsewing needle to pull the gimp thread to the wrong side of the fabric, and then tie it.
- With a seam ripper, cut the middle part of the gimp thread remaining at the top end of the buttonhole.

Trim off any excess of the gimp thread.

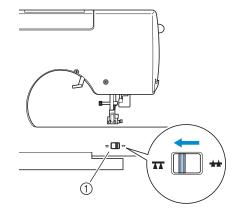
Button sewing

Buttons can be sewn on with the sewing machine. Buttons with 2 or with 4 holes can be attached.





Raise the presser foot lever, and then slide the drop feed lever, located at the rear of the machine on the base, to TT (to the right as seen from the front of the machine).



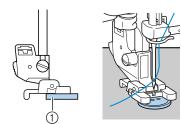
- Drop feed lever (as seen from the rear of the machine)
- ► The feed dogs are lowered.
- 3 Attach button-sewing foot "M".



• For details, refer to "Replacing the presser foot" (page 35).

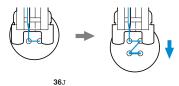


Place the button into button-sewing foot "M".



1 Button

• When attaching four-hole buttons, first sew the two holes closest to you. Then, slide the button so that the needle goes into the two holes toward the rear of the sewing machine, and then sew them in the same way.



Select stitch \$\xi_0\$.
For details, refer to "Selecting stitching" (page 58).

6 Adjust the stitch width so that it is the same as the distance between the holes in the button.

- Set the stitch length adjustment slider to the shortest stitch length setting.
- Turn the balance wheel toward you to check that the needle correctly goes into the two holes of the button.

Adjust the stitch width to the distance between the button holes.



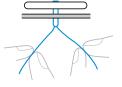
• When sewing, be sure that the needle does not touch the button, otherwise the needle may bend or break.

Start sewing.

- After sewing for about 10 seconds at low speed, press (reverse/reinforcement stitch button) to sew reinforcement stitches.
- 10 Pul

Pull the upper thread at the end of the stitching to the wrong side of the fabric, and then tie it with the bobbin thread.

Use scissors to cut the upper thread and the bobbin thread at the beginning of the stitching.



When you are finished attaching the button, slide the drop feed lever to **++** (to the left as seen from the front of the machine) to raise the feed dogs.

Zipper Insertion

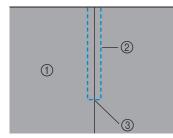
A zipper can be sewn in place.

Stitch Name	Pattern	Application		ch Width n (inch.)]	Stit [mi	Presser Foot	
			Auto	Manual	Auto	Manual	1000
Straight stitch (center needle position)	01 J ()	Attaching zippers Sewing concealed seams and pintucks	_	_	2.5 (3/32)	0.2–5.0 (1/64–3/16)	I

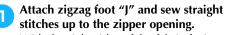
There are many methods for inserting zippers. The procedures for inserting a centered zipper and a side zipper are described below.

Inserting a centered zipper

Stitching is sewn on both pieces of fabric butted against each other.

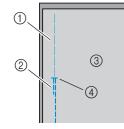


- ① Right side of fabric
- Stitching
- ③ End of zipper opening



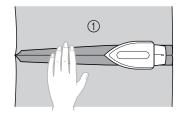
With the right sides of the fabric facing each other, sew reverse stitches after reaching the zipper opening.

- For details, refer to "Basic Stitching" (page 64).
- Using a basting stitch, continue sewing to the edge of the fabric.



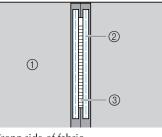
- ① Basting stitching
- ② Reverse stitches
- ③ Wrong side of fabric
- ④ End of zipper opening

Press open the seam allowance from the wrong side of the fabric.



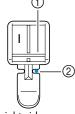
① Wrong side of fabric

Align the seam with the center of the zipper, and then baste the zipper in place.



- Wrong side of fabric
 Basting stitching
- Basting:
 3 Zipper

Attach the presser foot holder to the right pin of zipper foot "I".



Pin on the right side
 Needle drop point

foot" (page 35).

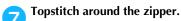
WW.promelectroe For details, refer to "Replacing the presser

INDEX



- Select stitch
- For details, refer to "Selecting stitching" (page 58).

• When using zipper foot "I", be sure to select the straight stitch (center needle position), and slowly turn the balance wheel toward you to check that the needle does not touch the presser foot. If a different stitch is selected or the needle hits the presser foot, the needle may bend or break.



- ① Stitching
- ② Right side of fabric
- ③ Basting stitching
- ④ End of zipper opening

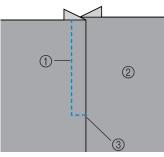
CAUTION

• When sewing, be sure that the needle does not touch the zipper, otherwise the needle may bend or break.

Remove the basting stitching.

Inserting a side zipper

Stitching is sewn on only one piece of fabric. Use this type of zipper for side openings and back openings.



Stitching
 Right side of fabric
 End of zipper opening

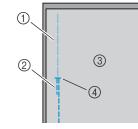
The following procedure will describe how to stitch on the left side, as shown in the illustration.

Attach zigzag foot "J" and sew straight stitches up to the zipper opening.

With the right sides of the fabric facing each other, sew reverse stitches after reaching the zipper opening.

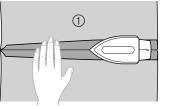
• For details, refer to "Basic Stitching" (page 64).

Using a basting stitch, continue sewing to the edge of the fabric.

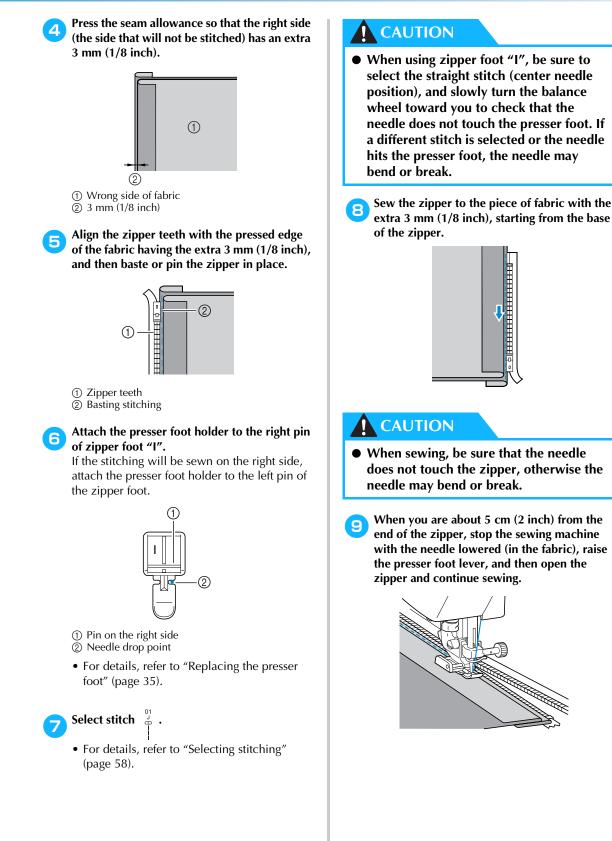


- ① Basting stitching
- ② Reverse stitches
- ③ Wrong side of fabric
- ④ End of zipper opening

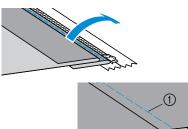
Press open the seam allowance from the wrong side of the fabric.



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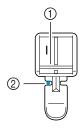
- 10
- Close the zipper, turn over the fabric, and then baste the other side of the zipper to the fabric.



1 Basting stitching

Attach the presser foot holder to the other pin 11 of zipper foot "I".

If the presser foot holder was attached to the right pin in step \bigcirc , change it to the left pin.

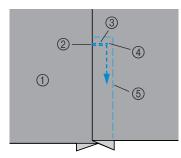


- (1) Pin on the left side
- Needle drop point

12)

Topstitch around the zipper.

Sew reverse stitches at the end of the zipper opening and align the zipper teeth with the side of the presser foot.

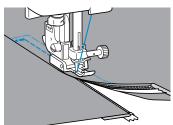


- ① Right side of fabric
- 2 End of zipper opening
- ③ Reverse stitches
- ④ Beginning of stitching
- (5) Basting stitching

When you are about 5 cm (2 inch) from the 13 end of the zipper, stop the sewing machine with the needle lowered (in the fabric), and then raise the presser foot lever.



Remove the basting stitching, open the zipper, and then continue sewing.



Sewing Stretch Fabrics and Elastic Tape

Stretch fabrics can be sewn and elastic tape can be attached.

Stitch Name	Pattern	Application		ch Width n (inch.)]	Stite [mr	Presser Foot	
			Auto	Manual	Auto	Manual	ΓΟΟΙ
Stretch stitch	03 J 4	Stretch fabrics	1.0 (1/16)	1.0–3.0 (1/16–1/8)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	1
3-point zigzag stitch	05 J	Attaching elastic	5.0 (3/16)	1.5–7.0 (1/16–1/4)	1.0 (1/16)	0.2–4.0 (1/64–3/16)	J

Observe the corresponding precautions when performing each of the following stitching operations.

Stretch stitching



Attach zigzag foot "J".



• For details, refer to "Replacing the presser foot" (page 35).



• For details, refer to "Selecting stitching" (page 58).



Sew the fabric without stretching it.



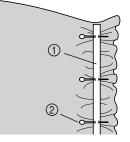
Elastic attaching

When elastic tape is attached to the cuff or waist of a piece of clothing, the finished dimensions will be that of the stretched elastic tape. Therefore, it is necessary that a suitable length of the elastic tape be used.



Pin the elastic tape to the wrong side of the fabric.

Pin the elastic tape to the fabric at a few points to make sure that the tape is uniformly positioned on the fabric.





Attach zigzag foot "J".



• For details, refer to "Replacing the presser foot" (page 35).



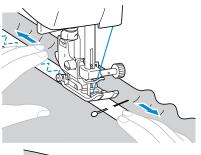
Select stitch $\overset{05}{\stackrel{>}{\scriptstyle{>}}}$.

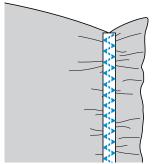
• For details, refer to "Selecting stitching" (page 58).



Sew the elastic tape to the fabric while stretching the tape so that it is the same length as the fabric.

While pulling the fabric behind the presser foot with your left hand, pull the fabric at the pin nearest the front of the presser foot with your right hand.





CAUTION

• When sewing, be sure that the needle does not touch any pins, otherwise the needle may bend or break.

Appliqué, Patchwork and Quilt Stitching

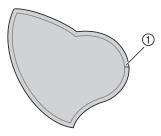
The stitches that can be used for sewing appliqués, patchwork and quilts are described below.

Stitch Name	Pattern	Application		ch Width m (inch.)]		ch Length n (inch.)]	Presser
			Auto	Manual	Auto	Manual	Foot
Zigzag stitch	04 J WW	Attaching appliqués (center baseline/ reverse stitching)		0.0–7.0 (0–1/4)	1.4 (1/16)	0.0–4.0 (0–3/16)	
	36 J.	Appliqué quilting, free-motion quilting, satin stitching	3.5 (1/8)	0.0–7.0 (0–1/4)	1.4 (1/16)	0.0–4.0 (0–3/16)	
	11 J	Attaching appliqués	3.5 (1/8)	2.5–5.0 (3/32–3/16)	2.5 (3/32)	1.6–4.0 (1/16–3/16)	
Appliqué stitch	37 J	Attaching appliqués and binding	1.5 (1/16)	0.5–5.0 (1/32–3/16)	1.2 (1/16)	1.0–4.0 (1/16–3/16)	
	38 J	Attaching appliqués and binding		0.5–5.0 (1/32–3/16)	1.2 (1/16)	1.0–4.0 (1/16–3/16)	
Piecing straight	33 J 	Piecing straight stitching (with a seam allowance of 6.5 mm from the right edge of the presser foot)	5.5 (7/32)	0.0–7.0 (0–1/4)	1.6 (1/16)	0.2–5.0 (1/64–3/16)	
stitch	34 J L P	Piecing straight stitching (with a seam allowance of 6.5 mm from the left edge of the presser foot)	1.5 (1/16)	0.0–7.0 (0–1/4)	1.6 (1/16)	0.2–5.0 (1/64–3/16)	J
	13 J ///		4.0 (3/16)	0.0–7.0 (0–1/4)	1.2 (1/16)	0.2–4.0 (1/64–3/16)	
Joining stitch	14 J	Patchwork stitching	5.0 (3/16)	2.5–7.0 (3/32–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	
	15 J		5.0 (3/16)	0.0–7.0 (0–1/4)	1.2 (1/16)	0.2–4.0 (1/64–3/16)	
Mock hand quilting stitch	35 Q	Straight stitch quilting that looks hand quilting	0.0 (0)	0.0–7.0 (0–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	
Quilting stippling	39 - XXX	Stippling	7.0 (1/4)	1.0–7.0 (1/16–1/4)	1.6 (1/16)	1.0–4.0 (1/16–3/16)	

APPENDIX

Appliqué stitching

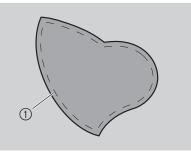
Cut out the appliqué, leaving a seam allowance of between 3 and 5 mm (1/8 and 3/16 inch).



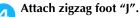
- ① Seam allowance
- Place a pattern made of thick paper on the back of the appliqué, and then fold over the seam allowance using an iron.



- Remove the thick paper after pressing the seam allowance.
- Turn the fabric over, and then baste or pin it onto the fabric that it will be attached to.



① Basting stitching

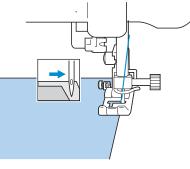


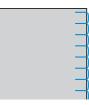


• For details, refer to "Replacing the presser foot" (page 35).

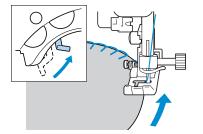
Select a stitch.

- For details, refer to "Selecting stitching" (page 58).
- **5** Turn the balance wheel toward you, and then begin sewing around the edge of the appliqué, making sure that the needle drops just outside of the appliqué.





When sewing around corners, stop the machine with the needle in the fabric just outside of the appliqué, raise the presser foot lever, and then turn the fabric as needed to change the sewing direction.



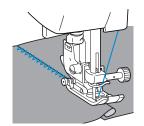


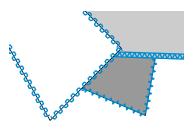
APPENDIX

Patchwork (crazy quilt) stitching

Fold the edge of the top piece of fabric and place it over the lower piece.

Sew the two pieces of fabric together so the pattern spans over both pieces.





Piecing

Sewing together two pieces of fabric is called "piecing". The fabric pieces should be cut with a 6.5 mm (1/4 inch) seam allowance.

Sew a piecing straight stitch 6.5 mm (1/4 inch) from either the right side or the left side of the presser foot.



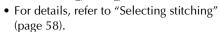
Baste or pin along the seam allowance of the fabric that you wish to piece together.

Attach zigzag foot "J".



• For details, refer to "Replacing the presser foot" (page 35).

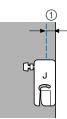
Select stitch i or



Sew with the side of the presser foot aligned 4 with the edge of the fabric.

■ For a seam allowance on the right side Align the right side of the presser foot with the

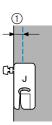
edge of the fabric, and sew using stitch



① 6.5 mm (1/4 inch)

■ For a seam allowance on the left side Align the left side of the presser foot with the

edge of the fabric, and sew using stitch



① 6.5 mm (1/4 inch) www.promelectroavtomat.ru

Appliqué, Patchwork and Quilt Stitching 81

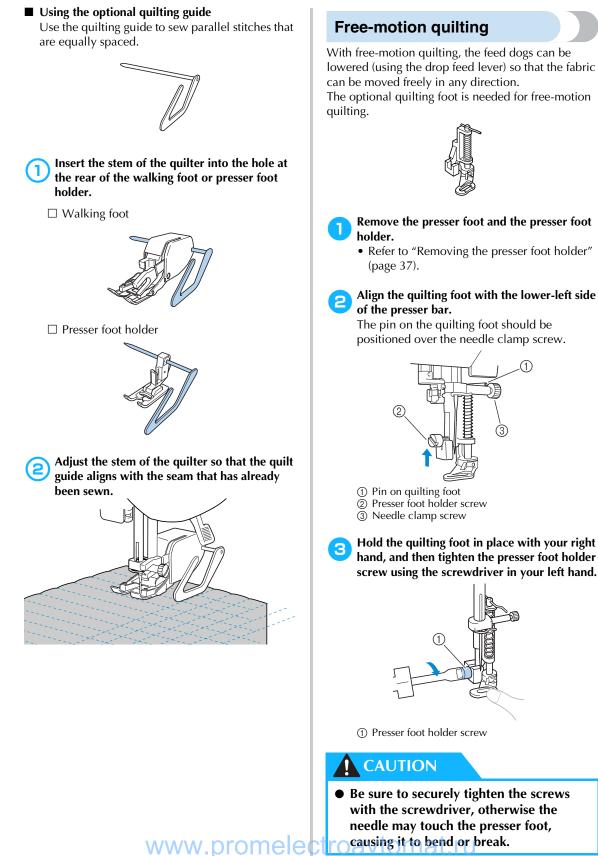


• To change the width of the seam allowance (the needle position), adjust the stitch width.

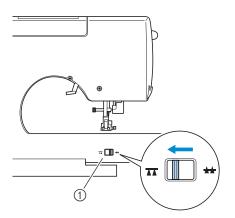
Quilting

Sandwiching batting between the top and bottom layers of fabric is called "quilting". Quilts can easily be sewn using the optional walking foot and the optional quilting guide.

Baste the fabric to be quilted. Attach the walking foot. 2 • For details, refer to "Using the optional walking foot" (page 38). Select stitch or Š 3 • For details, refer to "Selecting stitching" (page 58). Place one hand on each side of the presser 4 foot, and then evenly stretch the fabric while sewing. Note • When sewing with the walking foot, sew at a speed between slow and medium.



4 Slide the drop feed lever, located at the rear of the machine on the base, to **TA** (to the right as seen from the front of the machine).

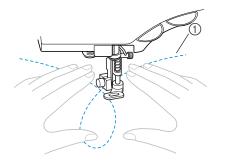


- Feed dog position switch (as seen from the rear of the machine)
- ▶ The feed dogs are lowered.



Turn on the sewing machine, and then select a stitch.

- For details, refer to "Selecting stitching" (page 58).
- **6** Use both hands to stretch the fabric taut, and then move the fabric to follow the pattern. Reinforcement stitches are sewn at the beginning and end of sewing.



① Pattern



After sewing is finished, slide the drop feed lever to 44 (to the left as seen from the front of the machine) to raise the feed dogs.

• Normally, the drop feed lever is positioned at the left.

Reinforcement Stitching 85

Reinforcement Stitching

Reinforce points that will be subject to strain, such as sleeve holes, inseams and pocket corners.

Stitch Name	Pattern	Application		ch Width n (inch.)]	Stite [mr	Presser Foot	
			Auto	Manual	Auto	Manual	1001
Triple stretch stitch	02 J	Reinforcing the seams of sleeves and inseams	0.0 (0)	0.0–7.0 (0–1/4)	2.5 (3/32)	1.5–4.0 (1/16–3/16)	J
Bar tack stitch	31 A	Reinforcing the ends of openings, such as the corners of pockets	2.0 (1/16)	1.0–3.0 (1/16–1/8)	0.4 (1/64)	0.3–1.0 (1/64–1/16)	A

Triple stretch stitching

Use triple stretch stitching to reinforce sleeve holes and inseams.

Attach zigzag foot "J".

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	Ē]

• For details, refer to "Replacing the presser foot" (page 35).

Select stitch

• For details, refer to "Selecting stitching" (page 58).

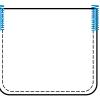


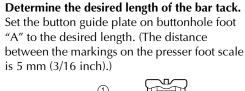
Start sewing.

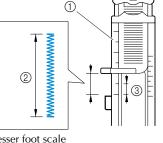
• For details, refer to "Starting to sew" (page 45).

Bar tack stitching

Bar tacks are used to reinforce points subject to strain, such as pocket corners and openings. As an example, the procedure for sewing bar tacks at pocket corners is described below.







Presser foot scale
 Length of bar tack

③ 5 mm (3/16 inch)

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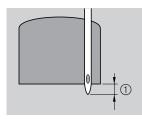
• A bar tack with a maximum length of about 28 mm (1-1/8 inch) can be sewn.

INDEX



Attach buttonhole foot "A".

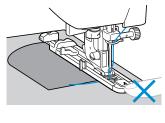
- For details, refer to "Replacing the presser foot" (page 35).
- Select stitch
 - For details, refer to "Selecting stitching" (page 58).
- Position the fabric so that the opening of the pocket faces toward you, and then lower the presser foot lever so that the needle drops 2 mm (1/16 inch) in front of the pocket opening.

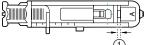


① 2 mm (1/16 inch)

Pass the upper thread down through the hole in the presser foot.

• When lowering the presser foot, do not push in the front of the presser foot, otherwise the bar tack will not be sewn with the correct size.

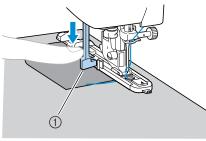




① Do not reduce the gap.

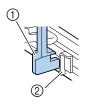


Pull down the buttonhole lever as far as possible.

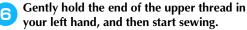


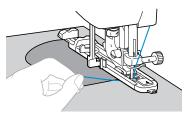
① Buttonhole lever

The buttonhole lever is positioned behind the bracket on the buttonhole foot.



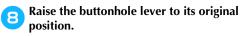
Buttonhole lever
 Bracket





Once sewing is completed, the machine automatically sews reinforcement stitches, then stops.

Raise the presser foot lever, remove the fabric, and cut the thread.



Memo

• If the fabric does not feed, for example, because it is too thick, increase the stitch length. For details, refer to "Adjusting the stitch length" (page 52).

CONTENTS

APPENDIX

Eyelet Stitching

Eyelets, such as those on belts, can be sewn. Three sizes of eyelets are possible: 7 mm, 6 mm and 5 mm (1/4, 15/64 and 3/16 inch).

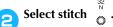
Stite	Stitch Name		Application		ch Width n (inch.)]	Stite [mr	Presser Foot	
				Auto	Manual	Auto	Manual	1001
Eyel	et stitch	32 N	lon holta		7.0, 6.0 or 5.0 (1/4, 15/64 or 3/16)	-	_	Ν



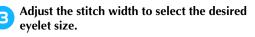
Attach monogramming foot "N".



• For details, refer to "Replacing the presser foot" (page 35).



 For details, refer to "Selecting stitching" (page 58).

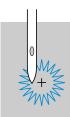




7 mm 6 mm 5 mm (1/4 inch)(15/64 inch)(3/16 inch)

• For details, refer to "Adjusting the Stitch Width and Length" (page 51).

Lower the needle into the fabric at the beginning of the stitching, and then lower the presser foot lever.

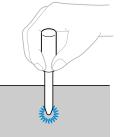


Start sewing.

Once sewing is completed, the machine automatically sews reinforcement stitches, then stops.



Use the eyelet punch to cut a hole in the center of the eyelet.



• When using the eyelet punch, place thick paper or some other protective sheet under the fabric before punching the hole in the fabric.

Memo

• If thin thread is used, the stitching may be coarse. If this occurs, sew the eyelet twice before remove the fabric, one on top of the other.

Decorative Stitching

Various decorative stitches can be sewn with this sewing machine.

Stitch Name	Pattern	Application		ch Width n (inch.)]		ch Length n (inch.)]	Presser Foot	
			Auto	Manual	Auto	Manual	ΓΟΟΙ	
Fagoting	16 J	Sewing two pieces of fabric		0.0–7.0 (0–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)		
stitch ~	17 J XXXX	together across an open seam	5.0 (3/16)	2.5–7.0 (3/25–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)		
	13 J		4.0 (3/16)	0.0–7.0 (0–1/4)	1.2 (1/16)	0.2–4.0 (1/64–3/16)		
Joining stitch		Decorative bridging stitches	5.0 (3/16)	2.5–7.0 (3/32–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	J	
	15 J		5.0 (3/16)	0.0–7.0 (0–1/4)	1.2 (1/16)	0.2–4.0 (1/64–3/16)		
Smocking stitch	16 J	Smocking fabrics to add		0.0–7.0 (0–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)		
	17 J XXXX	texture and elasticity	5.0 (3/16)	2.5–7.0 (3/32–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)		
Scallop stitch	12 N , I ^{IIII} , I ^{IIII} ,	Satin scallop stitching	5.0 (3/16)	2.5–7.0 (3/32–1/4)	0.5 (1/32)	0.1–1.0 (1/64–1/16)		
	21 N	Lace sewing, decorative hemming, heirloom stitching,	3.5 (1/8)	1.5–7.0 (1/16–1/4)	2.5 (3/32)	1.6–4.0 (1/16–3/16)		
	22 ℕ *** *	etc.	6.0 (15/64)	1.5–7.0 (1/16–1/4)	3.0 (1/8)	1.5–4.0 (1/16–3/16)	N	
Decorative stitch	23 ℕ	Decorative hemming and	5.0 (3/16)	1.5–7.0 (1/16–1/4)	3.5 (1/8)	1.5–4.0 (1/16–3/16)		
	24 N	heirloom stitching, etc. on thin, mediumweight and plain weave fabrics	5.0 (3/16)	1.5–7.0 (1/16–1/4)	4.0 (3/16)	1.5–4.0 (1/16–3/16)		
	25 N		5.0 (3/16)	1.5–7.0 (1/16–1/4)	2.5 (3/32)	1.5–4.0 (1/16–3/16)		
			4.0 (3/16)	0.0–7.0 (0–1/4)	3.0 (1/8)	2.0–4.0 (1/16–3/16)	J	
Decorative stitch	19 J	Decorative stitching		0.0–7.0 (0–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	,	
	20 N		5.0 (3/16)	1.5–7.0 (1/16–1/4)	1.0 (1/16)	0.2–4.0 (1/64–3/16)	N	

CONTENTS

INDEX

APPENDIX

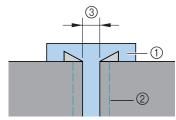
Fagoting

Stitching across an open seam is called "fagoting". It is used on blouses and children's clothing. This stitch is more decorative when thicker thread is used.

Use an iron to fold the two pieces of fabric along their seams.

along their seams.

Baste the two pieces of fabric, separated by about 4 mm (3/16 inch), onto thin paper or a sheet of water-soluble stabilizer.



- ① Thin paper or water soluble stabilizer
- ② Basting stitching
- ③ 4 mm (3/16 inch)



• For details, refer to "Replacing the presser foot" (page 35).



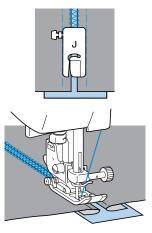
Select stitch $\overset{16}{\swarrow}$ or $\overset{17}{\bigotimes}$.

• For details, refer to "Selecting stitching" (page 58).

Set the stitch width to 7.0 mm (1/4 inch).

• For details, refer to "Adjusting the stitch width" (page 51).

6 Sew with the center of the presser foot aligned along the center of the two pieces of fabric.





After sewing is finished, remove the paper.

Scallop stitching

The wave-shaped repeating pattern that looks like shells is called "scalloping". It is used on the collars of blouses and to decorate the edges of handkerchiefs.



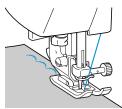
Attach monogramming foot "N".



- For details, refer to "Replacing the presser foot" (page 35).
- Select stitch

• For details, refer to "Selecting stitching" (page 58).

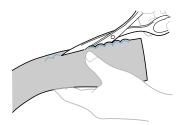
Stitch along the edge of the fabric, making sure not to sew directly on the edge of the fabric.



• For better results, apply spray starch onto the fabric and press with a hot iron before it is sewn.



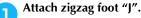
Trim along the stitches.



• Be careful not to cut the stitches.

Smocking

The decorative stitch created by stitching or embroidering over gathers is called "smocking". It is used to decorate the front of blouses or cuffs. The smocking stitch adds texture and elasticity to fabric.



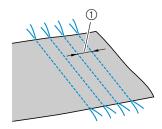


• For details, refer to "Replacing the presser foot" (page 35).

Select the straight stitch, and then adjust the stitch length to 4.0 mm (3/16 inch) and loosen the thread tension.

• For details, refer to "Adjusting the stitch length" (page 52) and "Changing the tension of the upper thread" (page 50).

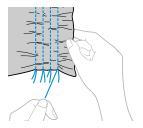
Sew parallel stitching at intervals of 1 cm (3/8 inch).



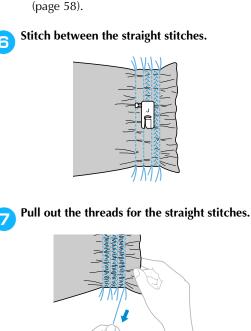
① 1 cm (3/8 inch)

 It is not necessary to sew reverse/ reinforcement stitches or cut the thread.

Pull the bobbin threads to create gathers. 4 Smooth the gathers by ironing them.







or 💥 .

For details, refer to "Selecting stitching"

Select stitch

Joining

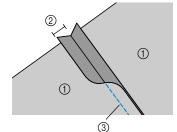
Decorative bridging stitches can be sewn over the seam allowance of joined fabrics. This is used when making a crazy quilt.

Attach zigzag foot "J".



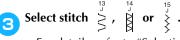
• For details, refer to "Replacing the presser foot" (page 35).

Sew together the right sides of the two pieces of fabric, and then open up the seam allowances.



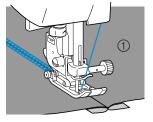
1) Wrong side of fabric

- 6.5 mm (1/4 inch) seam allowance
 Straight stitch
- ③ Straight stitch



• For details, refer to "Selecting stitching" (page 58).

4 Turn the fabric over so that the right side faces up, and then sew over the seam with the center of the presser foot aligned with the seam.



① Right side of fabric

Heirloom stitching

When sewing with the wing needle, the needle holes are enlarged, creating a lace-like decorative stitch. This is used to decorate hems and tablecloths on thin or mediumweight fabrics in addition to plain weave fabrics.



Install the wing needle.



- Use a 130/705H 100/16 wing needle.
- For details on installing a needle, refer to "Replacing the needle" (page 32).
- The needle threader cannot be used with the wing needle, otherwise the sewing machine may be damaged. Manually pass the thread through the eye of the needle from the front to the back. For details, refer to "Threading the needle manually" (page 25)

Attach monogramming foot "N".



• For details, refer to "Replacing the presser foot" (page 35).

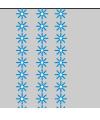
Select a stitch.

The stitches that can be used are



- For details, refer to "Selecting stitching" (page 58).
- Select a stitch width of 6.0 mm (15/64 inch) or less.

Start sewing.



- Select a stitch width of 6.0 mm (15/64 inch) or less, otherwise the needle may bend or break.
- After adjusting the stitch width, slowly turn the balance wheel toward you and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break.

Partially removing threads is called "drawnwork". This gives a beautiful result with fabrics that have a loose weave.

Two ways to create drawnwork are described below.

Drawnwork (Example 1) The fabric is turned and sewn twice

		_
	-	
_		-

Pull out several threads from the fabric.



1

GETTING READY



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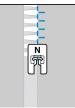
Attach monogramming foot "N".

- For details, refer to "Replacing the presser foot" (page 35).
- 3 Select stitch

2

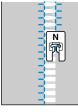
- E stitch
- For details, refer to "Selecting stitching" (page 58).

With the right side of the fabric facing up, sew along the right edge of the frayed section.

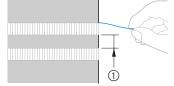


5 Turn the fabric around to sew the opposite side.

6 Sew along the other edge of the frayed section so that it looks like the previous stitching.



Pull out several threads from two sections of the fabric, separated by an unfrayed section of about 4 mm (3/16 inch).



① 4 mm (3/16 inch)

Drawnwork (Example 2)

Attach monogramming foot "N".

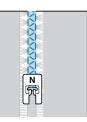


• For details, refer to "Replacing the presser foot" (page 35).

Select stitch

• For details, refer to "Selecting stitching" (page 58).

A Sew along the center of the unfrayed section.



APPENDIX

4

The various maintenance and troubleshooting procedures are described in this chapter.

Stitch Settings	96
Maintenance	
Troubleshooting	
Error messages	
Changing the needle stop position	
Index	



Stitch Settings

Applications, stitch lengths and widths and whether the twin needle can be used are listed for utility stitches in the following table.

Utility stitches

Stitch Na		D-#	· Foot	Angliastica		ch Width n (inch.)]	Stitc [mn	h Length n (inch.)]	eedle	rse/ cement iing	g Foot	utter
Suich Na	ne	Pattern	Presser Foot	Application	Auto	Manual	Auto	Manual	Twin Needle	Reverse/ Reinforcement Stitching	Walking Foot	Side cutter
Straight	Left	8 J Û	J	Basic stitching, sewing gathers or pintucks, etc.	0.0 (0)	0.0–7.0 (0–1/4)	2.5 (3/32)	0.2–5.0 (1/64–3/16)	No	Reverse	No	Yes
stitch	Center	01 J ()	J/I	Attaching zippers, basic stitching, sewing gath- ers or pintucks, etc.	-	-	2.5 (3/32)	0.2–5.0 (1/64–3/16)	Yes	Reverse	No	No
Triple stre stitch	tch	02 J Û ⊒ ⊒≡	J	Attaching sleeves, sew- ing inseams, sewing stretch fabrics and dec- orative stitching	0.0 (0)	0.0–7.0 (0–1/4)	2.5 (3/32)	1.5–4.0 (1/16–3/16)	No	Reinforce- ment	No	No
Stretch sti	tch	03 J WW	J	Sewing stretch fabrics and decorative stitching	1.0 (1/16)	1.0–3.0 (1/16–1/8)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	Yes	Reinforce- ment	No	No
Zigzag sti	tch	04 J WW	J	Overcasting and attach- ing appliqués	3.5 (1/8)	0.0–7.0 (0–1/4)	1.4 (1/16)	0.0–4.0 (0–3/16)	Yes	Reverse	No	No
3-point zig stitch	gzag	05 J VVV	J	Overcasting on medi- umweight or stretch fabrics, attaching elas- tic, darning, etc.	5.0 (3/16)	1.5–7.0 (1/16–1/4)	1.0 (1/16)	0.2–4.0 (1/64–3/16)	Yes	Reinforce- ment	No	No
		06 G MM	G	Overcasting on thin or mediumweight fabrics	3.5 (1/8)	2.5–5.0 (3/32–3/16)	2.0 (1/16)	1.0–4.0 (1/16–3/16)	No	Reinforce- ment	No	Yes
Overcast stitch	ing	07 G VVV	G	Overcasting on thick fabrics	5.0 (3/16)	2.5–5.0 (3/32–3/16)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	No	Reinforce- ment	No	Yes
		<u>717</u> -8	J	Overcasting on stretch fabrics	5.0 (3/16)	0.0–7.0 (0–1/4)	2.5 (3/32)	0.5–4.0 (1/32–3/16)	Yes	Reinforce- ment	No	No
Blind hem s	titch	8r/7/	R	Blind hem stitching on mediumweight fabrics	0.0 (0)	+33	2.0 (1/16)	1.0–3.5 (1/16–1/8)	No	Reinforce- ment	No	No
		10 r /m/m/	R	Blind hem stitching on stretch fabrics	0.0 (0)	+33	2.0 (1/16)	1.0–3.5 (1/16–1/8)	No	Reinforce- ment	No	No
Appliqué s	titch	11 J J TITITI	J	Appliqué stitching	3.5 (1/8)	2.5–5.0 (3/32–3/16)	2.5 (3/32)	1.6–4.0 (1/16–3/16)	Yes	Reinforce- ment	No	No
Satin scal stitch	lop	12 Z , 10000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000	N	Scallop stitching	5.0 (3/16)	2.5–7.0 (3/32–1/4)	0.5 (1/32)	0.1–1.0 (1/64–1/16)	Yes	Reinforce- ment	No	No

APPENDIX

Stitch Name	Pattern	r Foot	Application	Stito [mn	h Width n (inch.)]	Stitc [mn	ch Length n (inch.)]	leedle	Reverse/ sinforcement Stitching	g Foot	utter
Suten Name	rallern	Presser Foot		Auto	Manual	Auto	Manual	Twin Needle	Reve Reinford Stitch	Walking Foot	Side cutter
	13 J J/J	J	Patchwork stitching and decorative stitching	4.0 (3/16)	0.0–7.0 (0–1/4)	1.2 (1/16)	0.2–4.0 (1/64–3/16)	Yes	Reinforce- ment	No	No
Joining stitch	14 J	J	Patchwork stitching, decorative stitching and sewing overcasting on both pieces of fabric, such as with tricot	5.0 (3/16)	2.5–7.0 (3/32–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	Yes	Reinforce- ment	No	No
	15 , , ,	J	Patchwork stitching and decorative stitching	5.0 (3/16)	0.0–7.0 (0–1/4)	1.2 (1/16)	0.2–4.0 (1/64–3/16)	Yes	Reinforce- ment	No	No
Fagoting stitch	16 J 🔨	J	Fagoting and decora- tive stitching	5.0 (3/16)	0.0–7.0 (0–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	Yes	Reinforce- ment	No	No
Fagoting stitch	17 J XXXX	J	Fagoting and decora- tive stitching	5.0 (3/16)	2.5–7.0 (3/32–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	Yes	Reinforce- ment	No	No
		J	Decorative stitching	4.0 (3/16)	0.0–7.0 (0–1/4)	3.0 (1/8)	2.0–4.0 (1/16–3/16)	No	Reinforce- ment	No	No
	19 J	J	Decorative stitching	4.0 (3/16)	0.0–7.0 (0–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	Yes	Reinforce- ment	No	No
	20 N	N	Decorative stitching and elastic-attaching	5.0 (3/16)	1.5–7.0 (1/16–1/4)	1.0 (1/16)	0.2–4.0 (1/64–3/16)	Yes	Reinforce- ment	No	No
	21 N	N	Lace sewing, decora- tive hemming, heir- loom stitching, etc.	3.5 (1/8)	1.5–7.0 (1/16–1/4)	2.5 (3/32)	1.6–4.0 (1/16–3/16)	No	Reinforce- ment	No	No
Decorative stitch	22 × ****	N	Decorative hemming, heirloom stitching, etc.	6.0 (15/64)	1.5–7.0 (1/16–1/4)	3.0 (1/8)	1.5–4.0 (1/16–3/16)	No	Reinforce- ment	No	No
	23 ≈	N	Decorative hemming on thin, mediumweight and plain weave fab- rics, heirloom stitch- ing, etc.	5.0 (3/16)	1.5–7.0 (1/16–1/4)	3.5 (1/8)	1.5–4.0 (1/16–3/16)	No	Reinforce- ment	No	No
	24 ×	N	Decorative hemming on thin, mediumweight and plain weave fab- rics, heirloom stitch- ing, etc.	5.0 (3/16)	1.5–7.0 (1/16–1/4)	4.0 (3/16)	1.5–4.0 (1/16–3/16)	Yes	Reinforce- ment	No	No
	25 ≈	N	Decorative hemming on thin, mediumweight and plain weave fab- rics, heirloom stitch- ing, etc.	5.0 (3/16)	1.5–7.0 (1/16–1/4)	2.5 (3/32)	1.5–4.0 (1/16–3/16)	Yes	Reinforce- ment	No	No

Stitch Name	Pattern	Pattern Presser Foot	to 02 a: Application		Stitch Width Stit [mm (inch.)] [m		Stitch Length [mm (inch.)]		Reverse/ einforcement Stitching	Walking Foot	Side cutter
Suten Name	Tallem		, ppression	Auto	Manual	Auto	Manual	Twin Needle	Reve Reinfor Stitc	Walkir	Side o
	26 A	A	Horizontal buttonholes on thin and medium- weight fabrics	5.0 (3/16)	3.0–5.0 (1/8–3/16)	0.4 (1/64)	0.2–1.0 (1/64–1/16)	No	Automatic reinforce- ment	No	No
	27 A	A	Secured buttonholes for fabrics that have back-ings	5.0 (3/16)	3.0–5.0 (1/8–3/16)	0.4 (1/64)	0.2–1.0 (1/64–1/16)	No	Automatic reinforce- ment	No	No
Buttonhole stitch	28 A	A	Buttonholes for stretch or knit fabrics	6.0 (15/54)	3.0–6.0 (1/8–15/64)	1.0 (1/16)	0.5–2.0 (1/32–1/16)	No	Automatic reinforce- ment	No	No
	29 A	A	Buttonholes for stretch fabrics	6.0 (15/54)	3.0–6.0 (1/8–15/64)	1.5 (1/16)	1.0–3.0 (1/16–1/8)	No	Automatic reinforce- ment	No	No
	30 A	A	Keyhole buttonholes for thick or furry fabrics	7.0 (1/4)	3.0–7.0 (1/8–1/4)	0.5 (1/32)	0.3–1.0 (1/64–1/16)	No	Automatic reinforce- ment	No	No
Bar tack stitch	31 A	A	Reinforcing openings and areas where the seam easily comes loose	2.0 (1/16)	1.0–3.0 (1/16–1/8)	0.4 (1/64)	0.3–1.0 (1/64–1/16)	No	Automatic reinforce- ment	No	No
Eyelet stitch	32 Z	N	Sewing eyelets, for example, on belts	7.0 (1/4)	7.0, 6.0, 5.0 (1/4, 15/64, 3/16)	-	-	No	Automatic reinforce- ment	No	No
Piecing straight stitch	33 J 	J	Piecing straight stitch- ing (with a seam allow- ance of 6.5 mm from the right edge of the presser foot)	5.5 (7/32)	0.0–7.0 (0–1/4)	1.6 (1/16)	0.2–5.0 (1/64–3/16)	No	Reinforce- ment	No	No
	34 J L P	J	Piecing straight stitch- ing (with a seam allow- ance of 6.5 mm from the left edge of the presser foot)	1.5 (1/16)	0.0–7.0 (0–1/4)	1.6 (1/16)	0.2–5.0 (1/64–3/16)	No	Reinforce- ment	Yes	No
Straight stitch that looks hand- sewn (for quilt- ing)	35 J	J	Straight stitch quilting that looks hand-sewn	0.0 (0)	0.0–7.0 (0–1/4)	2.5 (3/32)	1.0–4.0 (1/16–3/16)	No	Reinforce- ment	No	No
Zigzag stitch (for quilting)	36 J.W	J	Appliqué quilting, free- motion quilting, satin stitching	3.5 (1/8)	0.0–7.0 (0–1/4)	1.4 (1/16)	0.0–4.0 (0–3/16)	No	Reinforce- ment	Yes	Yes
Appliqué stitch	37 	J	Attaching appliqués and binding	1.5 (1/16)	0.5–5.0 (1/32–3/16)	1.2 (1/16)	1.0–4.0 (1/16–3/16)	No	Reinforce- ment	No	No
(for quilting)	38 J L Q	J	Attaching appliqués and binding	1.5 (1/16)	0.5–5.0 (1/32–3/16)	1.2 (1/16)	1.0–4.0 (1/16–3/16)	No	Reinforce- ment	No	No
Quilting stitch (for stippling)	33X3 - 8	J	Quilting background stitching (stippling)	7.0 (1/4)	1.0–7.0 (1/16–1/4)	1.6 (1/16)	1.0–4.0 (1/16–3/16)	No	Reinforce- ment	No	No
Cross-stitches	₽ <i>≈ ****</i>	N	For decoration, etc.	6.0 (15/64)	0.0–7.0 (0–1/4)	2.5 (3/32)	0.2–4.0 (1/64–3/16)	No	Reinforce- ment	No	No
	41 × ***	N	For decoration, etc.	6.0 (15/64)	0.0–7.0 (0–1/4)	1.4 (1/16)	0.2–4.0 (1/64–3/16)	No	Reinforce- ment	No	No

INDEX

APPENDIX

CONTENTS

GETTING READY

SEWING BASICS

UTILITY STITCHES

Stitch Name	Pattern	attern toot	too Base Application –		Stitch Width [mm (inch.)]		Stitch Length [mm (inch.)]		Reverse/ Reinforcement Stitching	Walking Foot	Side cutter
		Presse	, appreadon	Auto	Manual	Auto	Manual	Twin Needle	Revo Reinfor Stitc	Walkir	Side o
	42 *** *	Ν	For decoration, etc.	7.0 (1/4)	0.0–7.0 (0–1/4)	2.5 (3/32)	0.2–4.0 (1/64–3/16)	No	Reinforce- ment	No	No
Decorative	43 × C	Ν	For decoration, etc.	7.0 (1/4)	0.0–7.0 (0–1/4)	2.0 (1/16)	0.2–4.0 (1/64–3/16)	No	Reinforce- ment	No	No
stitches	44 ≈ 505	N	For decoration, etc.	7.0 (1/4)	0.0–7.0 (0–1/4)	2.5 (3/32)	0.2–4.0 (1/64–3/16)	No	Reinforce- ment	No	No
	45 × 20	N	For decoration, etc.	7.0 (1/4)	0.0–7.0 (0–1/4)	2.5 (3/32)	0.2–4.0 (1/64–3/16)	No	Reinforce- ment	No	No
	46 × "" " " "	N	For decoration, etc.	7.0 (1/4)	2.5–7.0 (3/32–1/4)	0.4 (1/64)	0.1–1.0 (1/64–1/16)	No	Reinforce- ment	No	No
Satin stitches	47 × ∰₩∰	N	For decoration, etc.	7.0 (1/4)	2.5–7.0 (3/32–1/4)	0.4 (1/64)	0.1–1.0 (1/64–1/16)	No	Reinforce- ment	No	No
	48 N 4∰∓4∰	N	For decoration, etc.	7.0 (1/4)	2.5–7.0 (3/32–1/4)	0.4 (1/64)	0.1–1.0 (1/64–1/16)	No	Reinforce- ment	No	No
	9 z ,dh.dh.	N	For decoration, etc.	7.0 (1/4)	2.5–7.0 (3/32–1/4)	0.4 (1/64)	0.1–1.0 (1/64–1/16)	No	Reinforce- ment	No	No

Maintenance

Simple sewing machine maintenance operations are described below.

Cleaning the machine surface

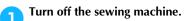
If the surface of the machine is dirty, lightly soak a cloth in neutral detergent, squeeze it out firmly, and then wipe the surface of the machine. After cleaning it once with a wet cloth, wipe it again with a dry cloth.



• Unplug the power supply cord before cleaning the machine, otherwise injuries or an electric shock may occur.

Cleaning the shuttle

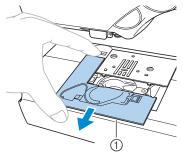
Sewing performance will suffer if dust collects in the shuttle; therefore, it should be cleaned periodically.





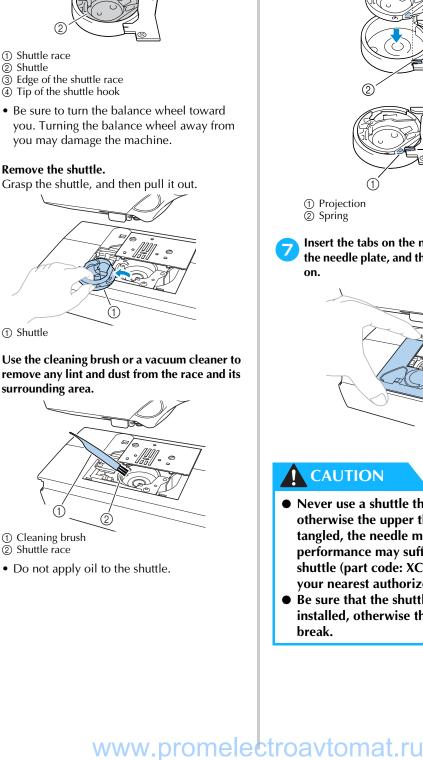
CAUTION

- Unplug the power supply cord before cleaning the machine, otherwise injuries or an electric shock may occur.
- **2** Grasp both sides of the needle plate cover, and then slide it toward you.



- ① Needle plate cover
- ▶ The needle plate cover is removed.

APPENDIX



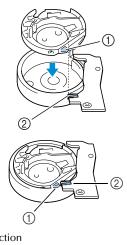
Turn the balance wheel toward you until the

tip of the shuttle hook aligns with the edge of

the race shelf.

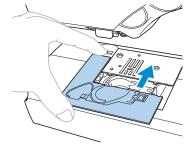
T

Check that the edge of the race shelf is 6 positioned as in step 3, and then insert the shuttle so that the projection on the shuttle aligns with the spring.





Insert the tabs on the needle plate cover into the needle plate, and then slide the cover back on.



CAUTION

- Never use a shuttle that is scratched, otherwise the upper thread may become tangled, the needle may break or sewing performance may suffer. For a new shuttle (part code: XC3153-051), contact your nearest authorized service center.
- Be sure that the shuttle is correctly installed, otherwise the needle may break.

Troubleshooting

If the machine stops operating correctly, check the following possible problems before requesting service. If the problem persists, contact your retailer or the nearest authorized service center.

Symptom	Probable Cause	Remedy	Reference	
	The machine is not turned on.	Turn on the machine.	page 11	
The sewing machine does not operate.	The start/stop button was not pressed.	Press the start/stop button.	page 45	
	The presser foot lever is raised.	Lower the presser foot lever.	page 44	
	The start/stop button was pressed, even though the foot controller is connected.	Do not use the start/stop button when the foot controller is con- nected. To use the start/stop button, disconnect the foot controller.	page 45	
	The needle is incorrectly installed.	Correctly install the needle.		
	The needle clamp screw is loose.	Use the screwdriver to firmly tighten the screw.	page 35	
	The needle is bent or blunt.	Replace the needle.		
	The combination of fabric, thread and needle is not correct.	Select a thread and needle that are appropriate for the type of fabric being sewn.	page 30	
	The presser foot that is used is not appropriate for the type of stitch that you wish to sew.	Attach the presser foot that is appro- priate for the type of stitch that you wish to sew.	page 96	
	The upper thread tension is too tight.	Loosen the upper thread tension.	page 50	
The needle	The fabric is pulled too much.	Lightly guide the fabric.	-	
breaks.	The spool is incorrectly installed.	Correctly install the spool.	page 18	
	The area around the hole in the nee- dle plate is scratched, or has a burr on it.	Replace the needle plate. Contact your retailer or the nearest authorized service center.	-	
	The area around the hole in the presser foot is scratched, or has a burr on it.	Replace the presser foot. Contact your retailer or the nearest authorized service center.	_	
	The shuttle is scratched, or has a burr on it.	Replace the shuttle. Contact your retailer or the nearest authorized service center.	_	
	A bobbin designed specifically for this machine is not used.	Incorrect bobbins will not work properly. Only use a bobbin designed specifically for this machine.	page 12	

Symptom	Probable Cause	Remedy	Reference
	The upper thread was not threaded correctly (for example, the spool is not installed correctly, the spool cap is too big for the spool being used, or the thread has come out of the nee- dle bar thread hook).	Correct the upper threading.	page 18
	There are knots or tangles in the thread.	Remove any knots or tangles.	_
	The selected needle is not appropri- ate for the thread being used.	Select a needle that is appropriate for the type of stitch being used.	page 30
	The upper thread tension is too tight.	Loosen the upper thread tension.	page 50
The unner	The thread is tangled, for example, in the shuttle.	Remove the tangle thread. If the thread is tangled in the shuttle, clean the shuttle.	page 100
The upper thread breaks.	The needle is bent or blunt.	Replace the needle.	24
	The needle is incorrectly installed.	Correctly install the needle.	page 31
	The area around the hole in the nee- dle plate is scratched, or has a burr on it.	Replace the needle plate. Contact your retailer or the nearest authorized service center.	_
	The area around the hole in the presser foot is scratched, or has a burr on it.	Replace the presser foot. Contact your retailer or the nearest authorized service center.	_
	The shuttle is scratched, or has a burr on it.	Replace the shuttle. Contact your retailer or the nearest authorized service center.	_
	A bobbin designed specifically for this machine is not used.	Incorrect bobbins will not work prop- erly. Only use a bobbin designed spe- cifically for this machine.	page 12
	The bobbin thread is incorrectly installed.	Correctly install the bobbin thread.	page 16
The lower	The bobbin is scratched or does not rotate smoothly, or has a burr on it.	Replace the bobbin.	-
thread is tangled or breaks.	The thread is tangled.	Remove the tangled thread and clean the shuttle.	page 100
	A bobbin designed specifically for this machine is not used.	Incorrect bobbins will not work prop- erly. Only use a bobbin designed spe- cifically for this machine.	page 12
	The upper thread was not threaded correctly.	Correct the upper threading.	page 18
	The bobbin thread is incorrectly installed.	Correctly install the bobbin thread.	page 16
The thread ten- sion is incorrect.	The combination of fabric, thread and needle is not correct.	Select a thread and needle that are appropriate for the type of fabric being sewn.	page 30
	The presser foot holder is incorrectly installed.	Correctly install the presser foot holder.	page 37
	The thread tension is incorrect.	Adjust the tension of the upper thread.	page 50
	A bobbin designed specifically for this machine is not used.	Incorrect bobbins will not work properly. Only use a bobbin designed specifically for this machine.	page 12

www.promelectroavtomat.ru

CONTENTS

GETTING READY

SEWING BASICS

UTILITY STITCHES

APPENDIX

Symptom	Probable Cause	Remedy	Reference
	The upper thread was not threaded correctly, or the bobbin is incor-rectly installed.	Correctly thread the upper thread and correctly install the bobbin thread.	page 16, 18
	The spool is incorrectly installed.	Correctly install the spool.	page 18
The fabric is wrinkled.	The combination of fabric, thread and needle is not correct.	Select a thread and needle that are appropriate for the type of fabric being sewn.	page 30
	The needle is bent or blunt.	Replace the needle.	page 31
	If thin fabrics are being sewn, the stitch is too coarse.	Shorten the stitch length or sew with stabilizer material under the fabric.	page 52
	The thread tension is incorrect.	Adjust the tension of the upper thread.	page 50
	The upper thread was not threaded correctly.	Correct the upper threading.	page 18
Stitches are	The combination of fabric, thread and needle is not correct.	Select a thread and needle that are appropriate for the type of fabric being sewn.	page 30
skipped.	The needle is bent or blunt.	Replace the needle.	page 31
	The needle is incorrectly installed.	Correctly install the needle.	page 32
	Dust has accumulated under the needle plate or in the shuttle.	Remove the needle plate cover and clean the shuttle.	page 100
	Dust has accumulated in the feed dogs or in the shuttle.	Clean the shuttle.	page 100
A high-pitched	The upper thread was not threaded correctly.	Correct the upper threading.	page 18
noise is made while sewing.	The shuttle is scratched, or has a burr on it.	Replace the shuttle. Contact your retailer or the nearest authorized service center.	-
	A bobbin designed specifically for this machine is not used.	Incorrect bobbins will not work prop- erly. Only use a bobbin designed spe- cifically for this machine.	page 12
The thread does not pass through the eye of the	The needle was not raised. The thread cassette indicator is lit in red.	Press the needle position button. The thread cassette indicator lights up in green.	page 22
needle.	The needle is incorrectly installed.	Correctly install the needle.	page 32
	The presser foot that is used is not appropriate for the type of stitch that you wish to sew.	Attach the presser foot that is appro- priate for the type of stitch that you wish to sew.	page 96
The stitch is not sewn correctly.	The thread tension is incorrect.	Adjust the tension of the upper thread.	page 50
	The thread is tangled, for example, in the shuttle.	Remove the tangle thread. If the thread is tangled in the shuttle, clean the shuttle.	page 100

Symptom	Probable Cause	Remedy	Reference
	The feed dogs are lowered.	Slide the drop feed lever to the left.	page 83
	The stitch is too fine.	Lengthen the stitch length.	page 52
The fabric does not feed.	The presser foot that is used is not appropriate for the type of stitch that you wish to sew.	Attach the presser foot that is appro- priate for the type of stitch that you wish to sew.	page 96
	The thread is tangled, for example, in the shuttle.	Remove the tangle thread. If the thread is tangled in the shuttle, clean the shuttle.	page 100
The sewing lamp does not come on.	The sewing lamp is damaged.	Contact your retailer or the nearest authorized service center.	_

If the start/stop button is pressed before the sewing machine is correctly set up or if an operation is performed incorrectly, an error message appears in the stitch indicator. Follow the instructions that appear. If you press \frown (Stitch selection key) or do the operation correctly while the error message is displayed, the message disappears.

Error Message	Probable Cause
E I	The start/stop button, reverse/reinforcement stitch button or thread cutter button was pressed while the presser foot was raised.
E2	A stitch other than the buttonhole or bar tack stitch was selected and the start/stop button was pressed while the buttonhole lever is lowered.
E3	The buttonhole or bar tack stitch was selected and the start/stop button was pressed while the buttonhole lever is raised.
EЧ	The reverse/reinforcement stitch button, needle position button or thread cutter button was pressed while the bobbin winder shaft is moved to the right.
ES	The start/stop button was pressed while the foot control- ler was connected.
EE	The motor locked up because the thread is tangled.
ЕЛ	The start/stop button, reverse/reinforcement stitch button or the thread cutter button was pressed while no thread cassette was installed.
EB	You tried to start sewing while the needle is lowered.

Operation beep

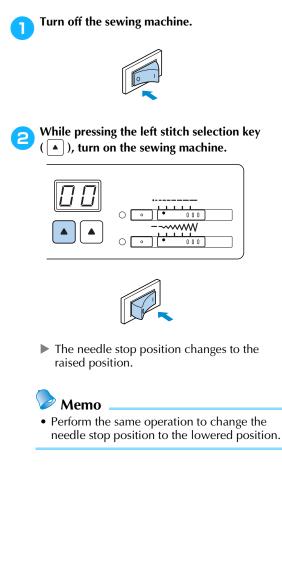
Each time a key is pressed or an incorrect operation is performed, a beep is sounded.

- For a correct operation One beep is sounded.
- If an incorrect operation is performed Two or four beeps are sounded.
- If the machine locks up, for example, because the thread is tangled

The sewing machine continues to beep for four seconds. The machine automatically stops. Be sure to check for the cause of the error, and correct it before continuing to sew.

Changing the needle stop position

Normally, the sewing machine is set to leave the needle in the fabric when sewing is stopped. Instead, the machine can be set to leave the needle raised when sewing is stopped.



Index

Symbols

+ kev	Cover E

Numerics

3-point zigzag stitch	6	1
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A

accessories	Cover A
air vent	Cover C
appliques	80
appliques	

B

balance wheel	Cover C, 44
bar tack	85
basic stitching	64
blind hem stitch	65
bobbin	
bobbin cover	Cover C, 16
bobbin thread	
pulling up	
bobbin winder	Cover B, 13
bobbin winder seat	
bobbin winder shaft spring	
bobbin-winding	
button sewing	
buttonhole foot	
buttonhole lever	
buttonhole stitching	

С

C key	Cover E
changing sewing direction	53
changing the needle	
changing the needle stop position	
cleaning	
cleaning brush	Cover A, 101
crazy quilt stitching	
cross-wound thread	
curves	53
cylindrical pieces	40

E

elastic tape	77
electrical outlet	
error messages	
even seam allowance	
eyelet	
eyelet punch	Cover A, 70, 87

F

fagoting	
features	2
feed dog position switch	Cover C, 84
feed dogs	Cover C, 83
foot controller	Cover A, 45
foot controller jack	Cover C
free-motion quilting	83
front view	

Н

handle Cover C
hard case Cover A
heirloom stitching92

J

joining	
joining stitch	

L

LCD	Cover E
lowe	r threading16

Μ

main power switchCover C, 11
maintenance106

Ν

needle	
needle bar thread hook	Cover C
needle clamp screw	
needle plate	Cover C, 55
needle plate cover	100
needle position	
needle position button	Cover D
needle set	Cover A

0

openings	
operation beep	
operation buttons	Cover B, Cover D
operation manual	Cover A
operation panel	Cover B, Cover E
optional accessories	1
overcasting stitches	60

Р

patchwork stitching	81
piecing	
pocket corners	
positioning fabric	
presser foot	
presser foot holder	Cover C, 37
presser foot lever	Cover D

Q

quick reference guide	Cover A
quilting	82
quilting foot	83
quilting guide	

R

rear view	Cover C
reinforcement stitching	
reverse/reinforcement stitch button	Cover D

S

scallop stitching	90
screwdriver	
seam ripperCover	
selecting stitching	58
sewing machine needles	30
sewing speed	45
sewing speed controllerCo	over D
shuttle	5, 100
shuttle hook	101
side cutter	1,62
side viewCo	over C
sleeves	85
smocking	
spool capCover A, 1	13,20
spool netCover	A, 14
spool pinCover	
start/stop buttonCover	
starting sewing	45
stitch length	52
stitch selection keyC	
stitch settings	
stitch width	
straight stitch	64
stretch fabrics	55

Т

thick fabrics	
thin fabrics	
thread cutter	Cover B
thread cutter button	Cover D, 49
thread guide cover	Cover B
thread guide for bobbin winding	Cover B
thread guide plate	
thread tension	
thread tension dial	Cover B, 50
trial sewing	
triple stretch stitch	
troubleshooting	
twin needle	Cover A . 33

U

upper thread	
upper thread tension	50

V

W

walking foot	38. 82
wide table	I
wing needle	92

Ζ

zipper stitching		73
zipper suiching	••••••	15

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ENGLISH 885-S06 XC5247-021 Printed in China