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You can read the recommendations in the user guide, the technical guide or the installation guide for BROTHER INNOV-IS 350SE. You'll find the answers to all your questions on the BROTHER INNOV-IS 350SE in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BROTHER INNOV-IS 350SE
User guide BROTHER INNOV-IS 350SE
Operating instructions BROTHER INNOV-IS 350SE
Instructions for use BROTHER INNOV-IS 350SE
Instruction manual BROTHER INNOV-IS 350SE

brother.

Operation Manual

Computerized Sewing Machine

Read before use.

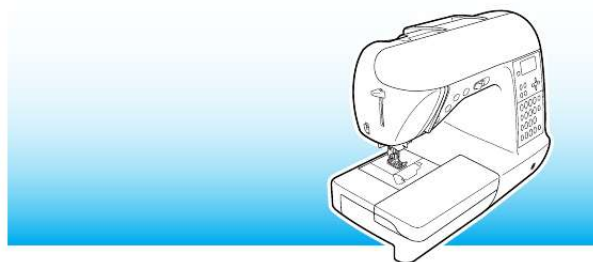
Read when additional
information is required.

1 GETTING READY

2 SEWING BASICS

3 UTILITY STITCHES

4 APPENDIX



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<http://yourpdfguides.com/dref/2359650>

Manual abstract:

· Plug the machine directly into the electrical outlet. Do not use an extension cord. @@@@ While the machine is stored or in use if you notice anything unusual, such as odor, heat, discoloration or deformation, stop using the machine and immediately unplug the power cord. 4 Always keep your work area clear: · Never operate the machine with any air openings blocked. Keep ventilation openings of the sewing machine and foot control free from the build up of lint, dust, and loose cloth. · Do not store objects on the foot controller. · Do not use extension cords. Plug the machine directly into the electrical outlet. · Never drop or insert any object into any opening. · Do not operate where aerosol (spray) products are being used or where oxygen is being administered. · Do not use the machine near a heat source, such as a stove or iron; otherwise, the machine, power cord or garment being sewn may ignite, resulting in fire or an electric shock. 1 ----- 5 Special care is required when sewing: · Always pay close attention to the needle. Do not use bent or damaged needles. · Keep fingers away from all moving parts. Special care is required around the machine needle.

@@@@@@@ Do not use or store the machine near a space heater, iron, halogen lamp, or other hot objects. · 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. · Always consult the operation manual when replacing or installing any assemblies, the presser feet, needle, or other parts to assure correct installation. 8 For repair or adjustment: · If the Light unit (light-emitting diode) is damaged, it must be replaced by authorized dealer.

· 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. Use this machine only for its intended use as described in this manual. Use accessories recommended by the manufacturer as contained in this manual. Save these instructions. The contents of this manual and specifications of this product are subject to change without notice. For additional product information, visit our web site at www.brother.com 2 -----

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

IMPORTANT · In the event of replacing the plug fuse, use a fuse approved by ASTA to BS 1362, i.e.

carrying the mark, rating as marked on plug. · Always replace the fuse cover. Never use plugs with the fuse cover omitted. · If the available electrical outlet is not suitable for the plug supplied with this equipment, you should contact your authorized dealer to obtain the correct lead. FOR USERS IN AUSTRALIA AND NEW ZEALAND This sewing machine is not intended to be used by young children, and assistance may be required if used by a person with a disability.

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c One-touch lower threading You can start sewing without pulling up the bobbin thread (page 26). d Simple bobbin-winding The bobbin can quickly and easily be wound with thread (page 22). e Built-in stitches You can select from the built-in stitches available, including utility stitches, character stitches and decorative stitches. f Knee lifter Use the knee lifter to raise and lower the presser foot with your knee, leaving both hands free to handle the fabric (page 64).

Introduction 7 ----- Accessories After opening the box, check that the following accessories are included. If any item is missing or damaged, contact your dealer.

Included accessories The following items should also be included in the box. Note (For U.S.A. only) Foot controller: Model N5V This foot controller can be used on this machine model NX-450. The screw for the presser foot holder is available through your authorized dealer. (Part code: XA4813-051) The organized accessory tray is available through your authorized dealer. (Part code: XC4489-051) Attaching the stitch pattern plate The stitch pattern plate shows the stitch numbers and the patterns available with each stitch mode. Attach the stitch pattern plate to the handle as shown in the illustration below. 8

----- 1.

2. 3. 4. 5. 6.

7. 8. 9. 10. 20.

29. 11. 21. 12. 22. 30. 13. 23. 31. 14.

24. 32. 15. 25. 16.* 26. 33. 17. 27. 34.

18. 28. 35. 19. *75/11 2 needles 90/14 2 needles 90/14 2 needles: Ball point needle (gold colored) Part Code No.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Part Name Buttonhole foot "A" Overcasting foot "G" Monogramming foot "N" Zipper foot "I" Zigzag foot "J" (on machine) Blind stitch foot "R" Button fitting foot "M" Walking foot Quilting foot Stitch guide foot "P" Adjustable zipper/piping foot Non stick foot Open toe foot Seam ripper Bobbin (4) Needle set Twin needle Cleaning brush U.S.A./ Canada Others XC2691-053 XC3098-051 X53840-351 X59370-051 XC3021-051 X56409-051 130489-001 F033N (XC2214-002) F005N (XC1948-002) F035 (XC1969-002) F036N (XC1970-002) F007N (XC1949-002) F027N (XC1964-002) X54243-051 SFB (XA5539-151) X58358-051 X59296-151 X59476-051 No. 19 20 21 22 23 24 25 26 Part Name Eyelet punch Screwdriver (large) Screwdriver (small) Spool cap (large) Spool cap (medium)(2) Spool cap (small) Extra spool pin Spool net U.

S.A./ Canada Part Code Others SA140 SA129 SA160 SA161 SA114 SA147 SA156 27 Foot controller 28 29 30 31 32 33 34 35 Grid sheet set Knee lifter Operation manual Quick reference guide Hard case Accessory bag Disc-shaped screwdriver Stitch pattern plate 135793-001 XC8349-051 X55468-051 130012-054 X55260-153 130013-154 XC4654-051 XA5523-050 XD0496-051 (EU area) XC6651-151 (other areas) SA527 GS4 (XC4549-050) XA6941-052 XE0403-001 XE0404-001 XC9701-052 XC4487-051 XC1074-051 XE0539-001 Optional accessories The following are available as optional accessories. 1. 2. 3. 4. 5. Side cutter Quilting guide Wide table 1/4 inch quilting foot 1/4 inch quilting 5. foot with guide 1.

2. 3. 4. Part code: SA177, F054(XC3879-002) Part code: SA132, F016N(XC2215-002) Part code: SA551, WT5(XC9567-152) Part code: SA125, F001N(XC1944-052) Part code: SA185, F057(XC7416-252) Memo To obtain optional accessories or parts, contact your sales representative or the nearest authorized service center. Accessories 9 ----- 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 2 1 3 4 5 6 D C B A 7 0 9 8 a Thread guide plate Pass the thread under the thread guide plate. b Thread guide cover Pass the thread behind the thread guide cover when threading the upper thread. c Spool pin Place a spool of thread on the spool pin. d Bobbin winding thread guide and pretension disk Pass the thread under this thread guide and around the pretension disk when winding the bobbin thread. e Top cover Open the top cover to place the spool of thread on the spool pin. f Bobbin winder Use the bobbin winder when winding the bobbin. g Operation panel Use for stitch selection and various stitch functions. (page 13) h Knee lifter mounting slot Insert the knee lifter into the knee lifter mounting slot. i Operation buttons and sewing speed controller Use these buttons and the slide to operate the sewing machine. (page 12) j Flat bed attachment with accessory compartment Store presser feet and bobbins in the accessory compartment of the flat bed attachment. When sewing cylindrical pieces, remove the flat bed attachment. k Thread cutter Pass the threads through the thread cutter to cut them. l Needle threader lever Use the needle threader to thread the needle. m Thread take-up lever check window Look through the window to check the position of the take-up lever. n Thread tension dial Use the thread tension dial to adjust the tension of the upper thread. 10

----- Needle and presser foot section Right-side/rear view a Buttonhole lever The buttonhole lever is used with the one-step buttonhole foot to create buttonholes. b Thread guide disk Pass the thread through the thread guide disk when using the needle threader to thread the needle. c Needle bar thread guide Pass the upper thread through the needle bar thread guide. d Needle plate The needle plate is marked with guides to help sew straight seams. e Needle plate cover Remove the needle plate cover to clean the bobbin case and race. f Bobbin cover Open the bobbin cover to set the bobbin. g Feed dogs The feed dogs feed the fabric in the sewing direction. h Presser foot The presser foot applies pressure consistently on the fabric as sewing takes place. Attach the appropriate presser foot for the selected stitch.

i Presser foot holder The presser foot is attached onto the presser foot holder. a Presser foot dial Use the presser foot dial to adjust the amount of pressure that the presser foot applies to the fabric. b Handle Carry the sewing machine by its handle when transporting the machine. c Handwheel Turn the handwheel toward you to raise and lower the needle. The handwheel should be turned towards you (counterclockwise). d Air vent The air vent allows the air surrounding the motor to circulate. Do not cover the air vent while the sewing machine is being used. e Main power switch Use the main power switch to turn the sewing machine ON and OFF. f Foot controller jack Insert the plug on the end of the foot controller cable into the foot controller jack.



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g Power supply jack Insert the plug on the power cord into the power supply jack.

h Feed dog position switch Use the feed dog position switch to lower the feed dogs. i Presser foot lever Raise and lower the presser foot lever to raise and lower the presser foot. Memo Refer to pages 9 through 12 while you are learning to use your machine. Names of Machine Parts and Their Functions 11

----- Operation buttons The operation buttons help you to easily perform various basic sewing machine operations. a "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 52). The button lights up in green, red or orange, depending on how the sewing machine is being operated. Green: Red: Orange: When the machine is ready to start sewing or while it is sewing When the machine is not ready to start sewing When the bobbin winder shaft is moved to the right for winding the bobbin thread onto the bobbin CAUTION Do not press ("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 ("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 55). b "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 54). c "Needle Position" button Press the "Needle Position" button to raise or lower the needle. Pressing the button twice sews one stitch. d "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 55). e Sewing speed controller Slide the sewing speed controller to adjust the sewing speed. 12

----- Operation panel The operation panel, located on the front at the right of the sewing machine, consists of the LCD (liquid crystal display) and keys for specifying various sewing settings. 1 2 3 4 5 6 9 0 A B G a LCD (liquid crystal display) Settings for the selected stitch and error messages for incorrect operations appear in the LCD. Use keys b and g through r, described below, to display various items and select the settings. For details, refer to "Understanding the LCD Screens" (page 18). b Settings key Press this key to select sewing settings, such as for left/ right mirror imaging, or other settings such as the operation beep. c Needle stop position key Press this key to select where the needle is positioned when the sewing machine is stopped. d Automatic thread cutting key Press this key to select the automatic thread cutting setting. Press this key again to cancel the setting.

e Automatic reverse/reinforcement stitch key Press this key to select the automatic reverse/ reinforcement stitching setting. Press this key again to cancel the setting. f Needle mode selection key (single/twin) Press this key to select the twin needle sewing setting. Each time this key is pressed, the setting switches between that for single needle sewing and for twin needle sewing. g Stitch width keys Press or to adjust the stitch width setting.

h Stitch length keys Press or to adjust the stitch length setting. 8 7 C D E F H Stitch mode keys (i-l) i Preset utility stitch/saved pattern key Press this key to select the utility stitch assigned to a numeric key or to retrieve a pattern that has been saved. Each time this key is pressed, the machine switches between the preset utility stitch mode and the saved pattern mode. j Utility stitch key Press this key to select a straight stitch, zigzag stitch, buttonhole, blind hem stitch, or other stitches commonly used in garment sewing. Use the numeric keys to type in the number of the desired stitch.

k Decorative stitch key Press this key to select a decorative stitch, satin stitch, crossstitch or decorative satin stitch. Each time this key is pressed, the stitch group switches between and . l Character stitch key Press this key to select a character stitch. Each time this key is pressed, the font switches to one of the three available. m Manual memory key Press this key to save the adjusted stitch width and length settings. n Reset key Press this key to reset the selected stitch to its original settings. o Memory key Press this key to save stitch patterns, such as combined patterns and My Custom Stitch patterns, in the sewing machine's memory. p OK key Press this key to apply the selection or perform the operation. q Cancel/clear key Press this key to cancel the operation and return to the previous screen. In addition, pressing this key removes the last pattern added when combining characters or decorative stitches.

r Numeric keys Use these keys to quickly select one of the ten most often used stitches. When selecting other stitches, use these keys to type in the number of the desired stitch. Names of Machine Parts and Their Functions 13 ----- 14 1

GETTING READY The various preparations required before starting to sew are described in this chapter. TTurning the Machine On/Off

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46 GETTING READY ----- 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. · Make sure that the plugs on the power cord are firmly inserted into the electrical outlet and the power supply jack on the machine. · Do not insert the plug on the power cord into an electrical outlet that is in poor condition. 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 Use only the power cord included with this machine. 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. 16 ----- Turning on the machine

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

1 Make sure that the machine is not sewing. Press the left side of the main power switch on "). Insert the plug of the power cord into a b household electrical outlet. b the right side of the machine (set it to " 1 The sewing lamp and the LCD go off when the machine is turned off. c outlet.

Unplug the power cord from the electrical Grasp the plug when unplugging the power cord. a Power supply jack Press the right side of the main power switch c on the right side of the machine (set it to "\"). d jack. Unplug the power cord from the power supply Note If a power outage occurs while the sewing machine is being operated, turn off the sewing machine and unplug the power 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. The sewing lamp and the LCD come on when the machine is turned on. Turning the Machine On/Off 17

GETTING READY ----- Understanding the LCD Screens The LCD screen, located on the front at the right of the sewing machine, displays the settings for the selected stitch and error messages if operations are performed incorrectly.

When the sewing machine is turned on, the LCD comes on and the following screen appears. 1 3 2 4 5 a b c d e Presser foot that should be used Stitch mode Selected stitch Stitch length (mm) Stitch width (mm) Memo For details on the error messages that appear when an operation is performed incorrectly, refer to "Error messages" (page 148). 18 ----- Changing the Machine Settings

Various sewing machine operations and sewing settings can be changed. c Press or (Stitch length keys) until the Changing the settings The general procedure for changing machine settings is described below. a 1 stitch or machine attribute that you wish to set is displayed. Turn on the sewing machine. 1 a Stitch length keys The LCD comes on. b panel. Press (Settings key) in the operation The settings screen appears. d desired setting is selected.

Press or (Stitch width keys) until the The setting is changed. e key). Press (OK key) or (Cancel/clear The initial stitch screen appears again. Changing the Machine Settings 19 GETTING READY ----- List of stitch or machine attributes The

stitch or machine attributes that can be set are listed below. For details on each attribute, refer to the corresponding reference page.

Attribute Check pattern Mirror imaging Pattern length Pattern size Repeated/ single sewing Stitching density Initial needle position Stitch width control Language Buzzer LCD brightness Vertical pattern adjustment Icon Details Allows combined patterns to be checked. Mirror images patterns along a vertical axis. Adjusts the length of satin stitches. Sets the size of patterns to be large or small. Specifies whether the pattern will be sewn once or repeatedly. Specifies the sewing density of the stitching. Select the straight stitch that is automatically selected when the machine is turned on. Allows the stitch width to be adjusted with the sewing speed controller. Allows the language used in the screens to be changed. Specifies whether or not a beep is sounded with each operation. Adjusts the brightness of the LCD. Adjusts the up and down position of the pattern. Reference page 121 page 125 page 124 page 122 page 121 page 123 page 105 page 21 page 149 page 21 page 127 Memo The icon shown highlighted above is the default setting. The default display language is English. 20 ----- Adjusting the brightness of the LCD The brightness of the

LCD can be adjusted.

a Changing the screen language The language used in the screens that are displayed can be changed to one of the many available.



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a Press keys) until (Settings key) in the operation or (Stitch length is displayed. Press (Settings key) in the operation or (Stitch length 1 panel, and then press panel, and then press keys) until the language is displayed. The screen for changing the brightness of the LCD appears. The screen for changing the language of the screens appears. b width key). To make the LCD darker, press To make the LCD brighter, press (Stitch width key). (Stitch b desired language is selected. Press or (Stitch width keys) until the The language can be changed to one of the available: English, French, German, Dutch, Spanish, Italian, Danish, Norwegian, Finnish, Swedish, Portuguese, Russian, Japanese, Korean or others. The brightness of the LCD is changed. The language of the screens is changed. c Press key). (OK key) or (Cancel/clear The initial stitch screen appears again. c Press key). (OK key) or (Cancel/clear The initial stitch screen appears again.

Changing the Machine Settings 21 GETTING READY ----- 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, SFB(XA5539-151)) designed specifically for this sewing machine. Use of any other bobbin may result in injuries or damage to the machine. The included bobbin was designed specifically for this sewing machine.

If bobbins from other models are used, the machine will not operate correctly. Use only the included bobbin or bobbins of the same type (part code: SA156, SFB(XA5539-151)). Actual size 11.5 mm (7/16 inch) This model Other model Winding the bobbin Wind the thread around the bobbin to prepare the bobbin thread. 1 a Bobbin winder Memo The order that the machine should be threaded for winding the bobbin is indicated by a broken line on the sewing machine. Be sure to thread the machine as indicated. 22 ----- a Turn on the sewing

machine. f the spool pin. Place the spool of thread for the bobbin onto Slide the spool onto the pin so that the spool is horizontal and the thread unwinds to the front at the bottom. 1 b Open the top cover.

If the spool is not positioned so that the thread unwinds correctly, the thread may become tangled around the spool pin. c that the spring on the shaft fits into the notch Place the bobbin on the bobbin winder shaft so in the bobbin. Press down on the bobbin until it snaps into place. g Slide the spool cap as far as possible to the Slide the spool cap onto the spool pin. right, as shown, with the rounded side on the left. 1 2 CAUTION If the spool or the spool cap is not positioned correctly, the thread may become tangled around the spool pin and the needle may break. Three spool cap sizes are available (large, medium and small), 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 and the needle may break. a Notch b Bobbin winder shaft spring d arrow until it snaps into place. Slide the bobbin winder in the direction of the ("Start/Stop" button) lights up in orange.

e spool pin. Remove the spool cap that is inserted onto the 1 2 a Spool pin b Spool cap Winding/Installing the Bobbin 23 GETTING READY

----- h your right hand, as shown, pull the thread with Memo When sewing with fine, cross-wound thread, use the small spool cap, and leave a small space between the cap and the spool. While holding the thread near the spool with your left hand, and then pass the thread behind the thread guide cover and to the front. 1 c b a a Spool cap (small) b Spool (cross-wound thread) c Space a Thread guide cover i and then pull it to the right. When using thread that winds off quickly, such as transparent nylon thread or metallic thread, place the 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. When the spool net is used, the tension of the upper thread will slightly increase. Be sure to check the thread tension. For details, refer to "Adjusting the Thread Tension" (page 57). Pass the thread under the thread guide plate, 1 2 1 a Thread guide plate j guide, and then wind it counterclockwise Pass the thread under the hook on the thread under the pretension disk.

1 3 4 a b c d Spool net Spool Spool cap Spool pin 1 a Thread guide and pretension disk Note Make sure that the thread passes under the pretension disk. 24

----- k wind the thread that was pulled out clockwise While holding the thread with your left hand, around the bobbin five or six times with your right hand. m to increase the bobbin winding speed and slide Slide the sewing speed controller to the right to left to decrease. 1 1 Note Make sure that the thread between the spool and the bobbin is pulled tight. Be sure to wind the thread clockwise around the bobbin, otherwise the thread will become wrapped around the bobbin winder shaft. 1 slit in the bobbin winder seat, and then pull n a Sewing speed controller Press ("Start/Stop" button) once. Pass the end of the thread through the guide the thread to the right to cut it. 1 a "Start/Stop" button When the bobbin winding becomes slow, press ("Start/Stop" button) once to stop the machine. CAUTION 1 a Guide slit in bobbin winder seat (with built-in cutter) The thread is cut to a suitable length. When the bobbin winding becomes slow, stop the machine, otherwise the sewing machine may be damaged.

o wound around the bobbin. Use scissors to cut the end of the thread CAUTION 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 and the needle may bend or break when the bobbin thread starts to run out. p Slide the bobbin winder shaft to the left. Winding/Installing the Bobbin 25 GETTING READY

----- q Remove the bobbin from the shaft. a Slide the bobbin cover latch to the right. 1 2

Memo When the sewing machine is started or the handwheel is turned after winding the bobbin, the machine will make a clicking sound; this is not a malfunction.



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b a Bobbin cover b Latch The bobbin cover opens. Remove the bobbin cover. Hold the bobbin with your right hand and hold c the end of the thread with your left.

Installing the bobbin Install the bobbin wound with thread. CAUTION Use a bobbin that has been correctly wound with thread, otherwise the needle may break or the thread tension will be incorrect. Be careful not to drop the bobbin. d the thread unrolls to the left. Insert the bobbin into the bobbin case so that The bobbin was designed specifically for this sewing machine.

If bobbins from other models are used, the machine will not operate correctly. Use only the included bobbin or bobbins of the same type (part code: SA156, SFB(XA5539-151)). Actual size 11.5 mm (7/16 inch) This model Other model Be sure to insert the bobbin correctly. CAUTION Be sure to install the bobbin so that the thread unwinds in the correct direction, otherwise the thread may break or the thread tension will be incorrect.

Memo The order that the bobbin thread should be passed through the bobbin case is indicated by marks around the bobbin case. Be sure to thread the machine as indicated. 26 ----- Memo The order that the bobbin thread should be passed through the bobbin case is indicated by marks around the bobbin case. Be sure to thread the machine as indicated. The marks around the bobbin case differ depending on the model. Note Make sure that the thread is correctly inserted through the tension-adjusting spring of the bobbin case. If it is not inserted correctly, reinsert the thread. 1 1 a Tension-adjusting spring g Insert the tab in the lower-left corner of the Reattach the bobbin cover. Lightly hold down the bobbin with your right e hand, and then guide the thread as shown with your left hand. bobbin cover, and then lightly press down on the right side.

2 1 The lower threading is finished. Next, thread the upper thread. Continue with the procedure in "Upper Threading" (page 28). CAUTION When installing the bobbin, be sure to hold it down with your finger. If the bobbin is not correctly installed, the thread tension will be incorrect. f then pull the thread out toward the front. Memo 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 36). Pass the thread through the slot as shown, and 1 a Cutter The cutter cuts the thread. Winding/Installing the Bobbin 27 GETTING READY ----- 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 and the needle may bend or break. Threading the upper thread Set the spool of thread on the spool pin, and then thread the machine. a Turn on the sewing machine. Memo The order that the machine should be threaded is indicated by a solid line on the sewing machine.

Be sure to thread the machine as indicated. b Raise the presser foot lever to raise the presser foot. a a Presser foot lever Note If the presser foot is not raised, the sewing machine cannot be threaded. 28 ----- c twice to raise the needle.

Press ("Needle Position" button) once or f Slide the spool onto the pin so that the spool is Place the spool of thread onto the spool pin. horizontal and the thread unwinds to the front at the bottom. 1 1 a "Needle Position" button The needle is correctly raised when the mark on the handwheel is at the top, as shown below. Check the handwheel and, if this mark is not at this position, press ("Needle Position" button) until it is. CAUTION If the spool or the spool cap is not positioned correctly, the thread may become tangled around the spool pin and the needle may break. g Slide the spool cap as far as possible to the 1 Slide the spool cap onto the spool pin. right, as shown, with the rounded side on the left. a Mark on handwheel d Open the top cover.

CAUTION If the spool or the spool cap is not positioned correctly, the thread may become tangled around the spool pin and the needle may break. Three spool cap sizes are available (large, medium and small), 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 and the needle may break.

e spool pin. Remove the spool cap that is inserted onto the 1 2 a Spool pin b Spool cap Upper Threading 29 GETTING READY ----- h right hand, pull the thread with your left hand, While holding the thread lightly with your Note If the presser foot has been lowered and the shutter is closed, the machine cannot be threaded. Be sure to raise the presser foot and open the shutter before threading the machine. In addition, before removing the upper thread, be sure to raise the presser foot and open the shutter. This machine is equipped with a window that allows you to check the position of the take-up lever. Look through this window and check that the thread is correctly fed through the take-up lever. and then pass the thread behind the thread guide cover and to the front. 1 a Thread guide cover i and then pull it up. Pass the thread under the thread guide plate, 1 k guide. Pass the thread behind the needle bar thread The thread can easily be passed behind the needle bar thread guide by holding the thread in your left hand, then feeding the thread with your right hand, as shown.

a Thread guide plate j thread passed under the thread guide plate, While using your right hand to lightly hold the pass the thread through the thread path in the order shown below. 1 1 a Needle bar thread guide Next, use the needle threader to thread the needle. Continue with the procedure in "Threading the needle" (page 31). a Shutter 30 ----- b left side of the machine. Cut the

thread with the thread cutter on the Threading the needle This section describes how to thread the needle. 1 Memo The needle threader can be used with sewing machine needles 75/11 through 100/16. Thread with a thickness of 130/20 or thicker cannot be used with the needle threader. The needle threader cannot be used with the wing needle or the twin needle.



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If the needle threader cannot be used, refer to "Threading the needle manually (without using the needle threader)" (page 33). a needle bar thread guide to the left, and then 1 a Thread cutter Note If the thread is pulled through and cannot be cut correctly, lower the presser foot so that the thread is held in place before cutting the thread.

If this operation is performed, skip step c. When using thread that quickly winds off the spool, such as metallic thread, it may be difficult to thread the needle if the thread is cut. Therefore, instead of using the thread cutter, pull out about 80 mm (approx. 3 inches) of thread after passing it through the thread guide disks (marked "7"). Pull the end of the thread passed through the pass the thread through the thread guide disk from the front. 1 1 a 80 mm (3 inches) or more c presser foot. a Thread guide disk Lower the presser foot lever to lower the 1 a Presser foot lever Upper Threading 31 GETTING READY

----- d side of the machine until it clicks, and then Lower the needle threader lever on the left e thread through the presser foot, and then pull Raise the presser foot lever, pass the end of the out about 5 cm (2 inches) of thread toward the rear of the machine. slowly return the lever to its original position. 1 1 a 5 cm (2 inches) a Needle threader lever The thread is passed through the eye of the needle. The upper threading is finished.

Now that the upper threading and the lower threading are finished, you are ready to begin sewing. Note If the needle was not completely threaded, but a loop in the thread was formed in the eye of the needle, carefully pull the loop through the eye of the needle to pull out the end of the thread. Note If the needle is not raised, the needle threader cannot thread the needle. Be sure to press ("Needle Position" button) to raise the needle before using the needle threader.

CAUTION When pulling out the thread, do not pull it with extreme force, otherwise the needle may break or bend. 32

----- Threading the needle manually (without using the needle threader)

When using special thread, thread with a thickness of 130/20 or thicker, the wing needle or the twin needle which cannot be used with the needle threader, thread the needle as described below. a guide. Using the twin needle With the twin needle, you can sew two parallel lines of the same stitch with two different threads. Both upper threads should have the same thickness and quality. Be sure to use the twin needle, the extra spool pin and the spool cap.

For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 134). 1 Thread the machine to the needle bar thread · For details, refer to "Upper Threading" (page 28). b Lower the presser foot lever. CAUTION Only use the twin needle (part code: X59296-151). 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. a 1 a Pressor foot lever c from front to back. Pass the thread through the eye of the needle Install the twin needle. · For details on installing a needle, refer to "Replacing the needle" (page 39).

Thread the upper thread for the left needle · For details, refer to steps a through k of "Threading the upper thread" (page 28). b eye. d thread through the presser foot, and then pull Raise the presser foot lever, pass the end of the out about 5 cm (2 inches) of thread toward the rear of the machine. c thread. Manually thread the left needle with the upper Pass the thread through the eye of the needle from the front. · The needle threader cannot be used with the twin needle. If the needle threader is used with the twin needle, the sewing machine may be damaged. Upper Threading 33 GETTING READY

----- d winder shaft. Insert the extra spool pin onto the bobbin Insert the extra spool pin so that it is perpendicular to the bobbin winder shaft. g the same way that the upper thread for the left Thread the upper thread for the right side in side was threaded.

1 1 a Bobbin winder shaft e horizontal. a Thread guide cover Swing down the spool pin so that it is · For details, refer to step h through j of "Threading the upper thread" (page 28). h bar thread guide, manually thread the right Without passing the thread through the needle needle. Pass the thread through the eye of the needle from the front. f the right side onto the extra spool pin, and Place the upper thread spool for the needle on then secure it with the spool cap. The thread should unroll from the top front of the spool. 1 2 i · The needle threader cannot be used with the twin needle. If the needle threader is used with the twin needle, the sewing machine may be damaged. Attach zigzag foot "J". · For details on changing the presser foot, refer to "Replacing the presser foot" (page 41).

a Spool cap b Spool CAUTION When using the twin needle, be sure to attach zigzag foot "J", otherwise the needle may break or the machine may be damaged. j Turn on the sewing machine. The LCD comes on. 34 ----- k

Select a stitch. · For details on selecting a stitch, refer to "Selecting stitching" (page 72).

· For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 134). m Start sewing. · For details on starting to sew, refer to "Starting to sew" (page 52). Two lines of stitching are sewn parallel to each other. 1 CAUTION After adjusting the stitch width, slowly turn the handwheel toward you (counterclockwise) and check that the needle does not touch the presser foot.

If the needle hits the presser foot, the needle may bend or break. 1 Press (Needle mode selection key). CAUTION 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. Otherwise the needle may break or the machine may be damaged. Do not try turning the fabric with the twin needle left down in the fabric, otherwise the needle may break or the machine may be damaged. (Needle mode selection key) lights up, and the twin needle can now be used. · To return to single needle sewing, press (Needle mode selection key) until the key is no longer lit. · Even after the sewing machine is turned off, the twin needle setting is not cancelled.



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CAUTION When using the twin needle, be sure to select the twin needle setting, otherwise the needle may break or the machine may be damaged. Upper Threading 35 GETTING READY ----- e bobbin thread under the presser foot toward Pull out about 10-15 cm (4-5 inches) of the the rear of the machine.

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 bobbin case. · Refer to steps a through e of "Installing the bobbin" (page 26). Pass the bobbin thread through the slot. b Do not cut the thread with the cutter. f Insert the tab in the lower-left corner of the Reattach the bobbin cover. bobbin cover, and then lightly press down on the right side. While lightly holding the upper thread with c your left hand with the needle in the upposition, press ("Needle Position" button) twice to lower and raise the needle. 2 1 1 a "Needle Position" button The bobbin thread is looped around the upper thread and can be pulled up. d out the end of the bobbin thread.

Carefully pull the upper thread upward to pull 36 ----- 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. 1 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. Replacing the Needle 37 GETTING READY ----- 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.

Thread Fabric Type/Application Type Broadcloth Medium weight fabrics Taffeta Flannel, Gabardine Lawn Thin fabrics Georgette Challis, Satin Denim Thick fabrics Corduroy Tweed Stretch fabrics Jersey Thread for knits Tricot Cotton thread 5080 Easily frayed fabrics Synthetic thread Silk thread Synthetic thread For top-stitching Silk thread 30 90/14100/16 50 65/990/14 5060 Cotton thread 6080 Synthetic thread Silk thread Cotton thread 6080 Synthetic thread Silk thread Cotton thread Synthetic thread 50 Silk thread Ball point needle (golden colored) 75/1190/14 50 3050 90/14100/16 65/975/11 50 75/1190/14 Weight Size of Needle Memo 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 above. 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. 38 ----- 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. 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". a twice to raise the needle. 1 Press ("Needle Position" button) once or 1 2 1 a "Needle Position" button a Flat side b Needle type marking b Turn off the sewing machine. Correct needle 1 a Flat surface CAUTION Before replacing the needle, be sure to turn off the sewing machine, otherwise injuries may occur if ("Start/Stop" button) is accidentally pressed and the machine starts sewing. c cover the hole in the needle plate. 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. Place fabric or paper under the presser foot to 1 a Flat surface Note Before replacing the needle, cover the hole in the needle plate with fabric or paper to prevent the needle from falling into the machine. Replacing the Needle 39 GETTING READY ----- d Lower the presser foot lever. g use the screwdriver to tighten the needle While holding the needle with your left hand, clamp screw.

1 a Presser foot lever e use a screwdriver to turn the needle clamp Install the twin needle in the same way. Hold the needle with your left hand, and then screw toward you (counterclockwise) to remove the needle. 1 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. 2 a Screwdriver b Needle clamp screw · Do not apply a strong force when loosening or tightening the needle clamp screw, otherwise certain parts of the sewing machine may be damaged. f of the machine, insert the needle until it With the flat side of the needle toward the rear touches the needle stopper.

1 a Needle stopper 40 ----- 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. 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 78). a twice to raise the needle.

1 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.



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Use of any other presser foot may result in injuries or damage to the machine. Press ("Needle Position" button) once or 1 a "Needle Position" button The needle is raised. b Turn off the sewing machine. CAUTION Before replacing the presser foot, be sure to turn off the sewing machine, otherwise injuries may occur if ("Start/Stop" button) is accidentally pressed and the machine starts sewing. c Raise the presser foot lever. a a Presser foot lever The presser foot is raised. Replacing the Presser Foot 41 GETTING READY ----- d presser foot holder.

Press the black button at the back of the g presser foot is securely attached.

Raise the presser foot lever to check that the a b a Black button b Presser foot holder Note When a stitch is selected, the icon for the presser foot that should be used appears in the screen. @@If the wrong presser foot is installed, turn off the sewing machine, attach the correct presser foot, and then select the desired stitch again. Buttonhole foot "A" Overcasting foot "G" Zigzag foot "J" Button fitting foot "M" Monogramming foot "N" The presser foot holder releases the presser foot. e so that the presser foot pin is aligned with the Place a different presser foot below the holder 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. a b c Blind stitch foot "R" Side cutter "S" a Presser foot holder b Notch c Pin f presser foot pin snaps into the notch in the Slowly lower the presser foot lever so that the presser foot holder. For details on the presser foot that should be used with the selected stitch, refer to "Stitch Settings" (page 134). 1 a Presser foot lever The presser foot is attached. 42

----- Adjusting the pressure of the presser foot The presser foot pressure (the amount of pressure applied to the fabric by the presser foot) can be adjusted. For best results, increase the pressure when sewing thin fabrics, and decrease the pressure when sewing thick fabrics.

a 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 a 1 Lower the presser foot lever. Remove the presser foot. · For details, refer to "Replacing the presser foot" (page 41).

Use the screwdriver to loosen the presser foot b holder screw. 1 a Presser foot lever b of the machine to adjust the pressure of the b ac a Screwdriver b Presser foot holder c Presser foot holder screw Turn the presser foot pressure dial at the back presser foot. The presser foot pressure can be set to one of four levels (between 1 and 4). The larger the setting, the stronger the pressure. Use setting 1 or 2 for thick fabrics, use setting 3 or 4 for thinner fabrics.

Attaching the presser foot holder a left side of the presser bar. Align the presser foot holder with the lower- a b b right hand, and then tighten the screw using a Strong b Weak c 3 (standard). Hold the presser foot holder in place with your the screwdriver in your left hand. When you are finished sewing, reset the dial to 1 a Screwdriver Note If the presser foot holder is not correctly installed, the thread tension will be incorrect. Replacing the Presser Foot 43 GETTING READY -----

Using the 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. 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 handwheel toward you (counterclockwise) and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break.

Attaching the walking foot a Note When sewing with the walking foot, sew at a speed between slow and medium. Removing the walking foot a twice to raise the needle. Remove the presser foot holder. · For details, refer to "Removing the presser foot holder" (page 43). Hook the connecting fork of the walking foot b onto the needle clamp screw. Press ("Needle Position" button) once or a b 1 a "Needle Position" button a Connecting fork b Needle clamp screw c foot holder screw, and then tighten the screw The needle is raised. b Lower the presser foot lever, insert the presser with the screwdriver. Turn off the sewing machine. a c Raise the presser foot lever. a Presser foot holder screw a a Presser foot lever The presser foot is raised.

44 ----- d holder screw, and then remove the walking With a screwdriver, loosen the presser foot foot. 1 a a Presser foot holder screw e Attach the presser foot holder. · For details, refer to "Removing the presser foot holder" (page 43). Memo 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 134).

Replacing the Presser Foot 45 GETTING READY ----- Sewing Cylindrical or Large Pieces When sewing cylindrical or large pieces of fabric, remove the flat bed attachment. Stitching cylindrical pieces Removing the flat bed attachment makes it easier to sew cylindrical pieces such as cuffs and pant legs. a Sewing large pieces of fabric The optional wide table makes sewing large pieces of fabric easier. Pull the flat bed attachment off to the left. a table.

Open up the legs at the bottom of the wide Pull out the four legs until they snap into place. With the flat bed attachment removed, freearm sewing is possible. b arm, and then sew from the top. Slide the part that you wish to sew onto the b Pull the flat bed attachment off to the left. c install the flat bed attachment back in its When you are finished with free-arm sewing, original position. With the flat bed attachment removed, freearm sewing is possible.



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