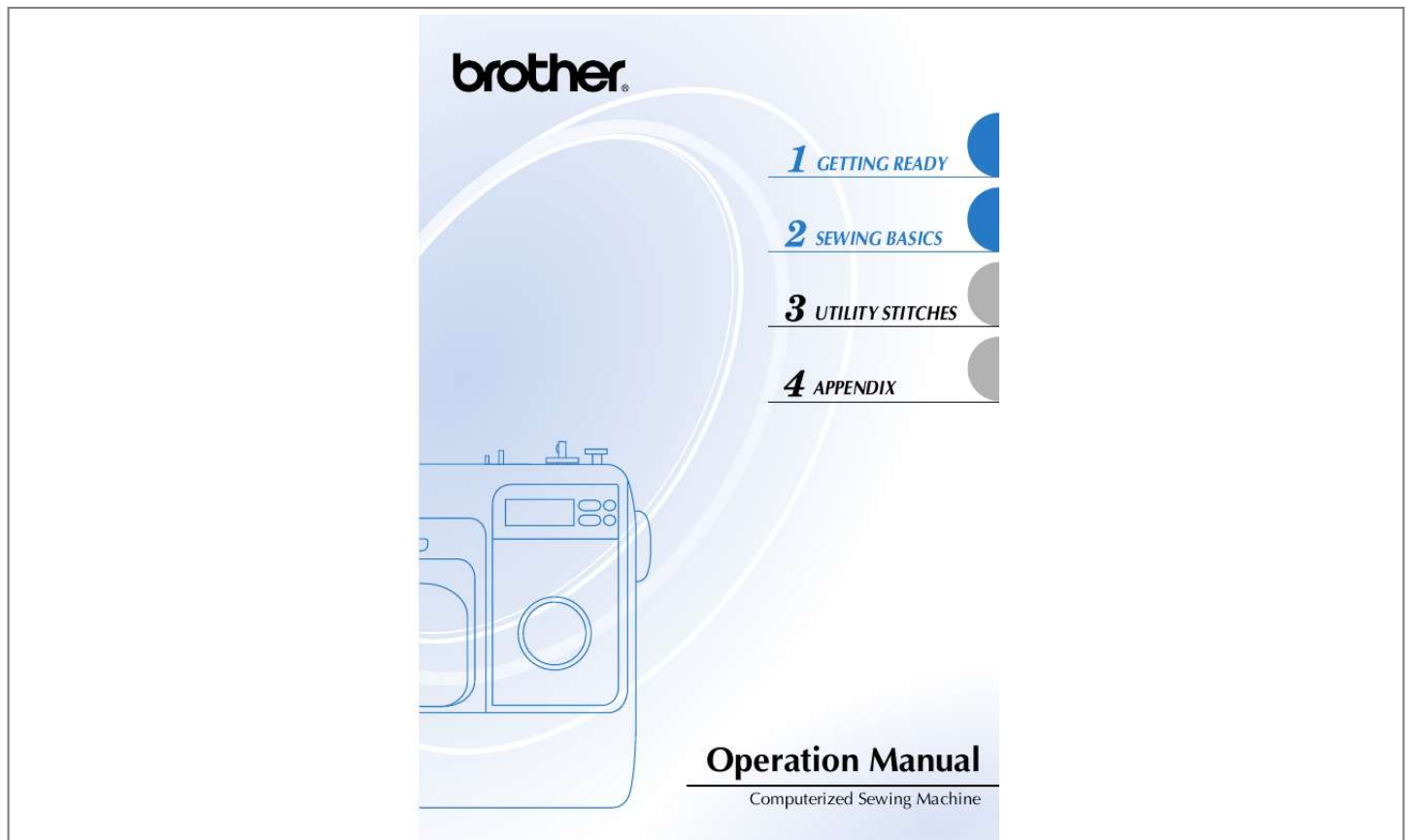




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for BROTHER INNOV-IS 30. You'll find the answers to all your questions on the BROTHER INNOV-IS 30 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 30  
User guide BROTHER INNOV-IS 30  
Operating instructions BROTHER INNOV-IS 30  
Instructions for use BROTHER INNOV-IS 30  
Instruction manual BROTHER INNOV-IS 30



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**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 an odor, heat, discoloration or deformation, stop using the machine immediately and unplug the power cord. When transporting the sewing machine, be sure to carry it by its handle. Lifting the sewing machine by any other part may damage the machine or result in the machine falling, which could cause injuries. When lifting the sewing machine, be careful not to make any sudden or careless movements, otherwise you may injure your back or knees. 1 4 Always keep your work area clear: · Never operate the machine with any air openings blocked. @@ · 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 use bent or damaged needles. · Keep fingers away from all moving parts. Special care is required around the machine needle. · Switch the sewing machine to the symbol "O" position to turn it off when making any adjustments in the needle area.

· Do not use a damaged or incorrect needle plate, as it could cause the needle to break. · Do not push or pull the fabric when sewing, and follow careful instruction when freehand stitching so that you do not deflect the needle and cause it to break. 6 This machine is not a toy: · Your close attention is necessary when the machine is used by or near children. · The plastic bag that this sewing machine was supplied in should be kept out of the reach of children or disposed of. Never allow children to play with the bag due to the danger of suffocation.

· Do not use outdoors. 7 For a longer service life: · 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. · 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. 2 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](http://www.brother.com) 3 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. 4 5 ----- Contents Important

Safety Instructions ...

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. 1 Contents ....

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.. 6 Introduction .....

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*.. 8 Names of Machine Parts and Their Functions .....*

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*. 8 Machine .....*

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*..... 8 Needle and presser foot section ...*

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*. 10 Accessories .....*

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*. 11 Included accessories .....*

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*11 Optional accessories .....*

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..... 12 I.

*GETTING READY .....*

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*13 Turning the Machine On/Off .....*

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*... 13 Power supply precautions .....*

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*..... 13 Turning on the machine .*

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*... 14 Turning off the machine ..*

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.....  
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.....  
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*..... 14 Preparing for Upper and Lower Threading ...*

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.....  
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.....  
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.....

*..... 15 Winding the bobbin .*

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.....  
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.....  
.....  
*..... 15 Installing the bobbin .....*

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.....  
*18 Threading the upper thread .....*

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*..... 20 Threading the needle .*

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*. 29 Needle types and their uses ....*

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*.... 30 Checking the needle .*

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*..... 31 Replacing the needle ..*

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*. 31 Replacing the Presser Foot ....*

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*.. 33 Presser foot precautions ...*

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*..... 33 Replacing the presser foot .....*

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*33 Removing the presser foot holder .....*

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.... 34 Using the optional walking foot .....

.....  
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.....

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.....  
.....

.. 35 Useful Functions .....

.....  
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.....  
.....

.....  
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.....

.... 37 Changing the needle stop position .

.....  
.....  
.....

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.....  
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..... 37 Changing the initial needle position ...

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.....  
.....

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.....

.....  
.....  
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..... 38 Sewing Cylindrical or Large Pieces ..

.....  
.....  
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.....

.....  
.....  
.....

.. 39 Stitching cylindrical pieces .....

.....  
.....  
.....

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..... 39 Sewing large pieces of fabric ...

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..... 39 2. SEWING BASICS .

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41 Starting to Sew .....

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.....  
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.... 41 Sewing procedure .....

.....  
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.....  
.. 41 Selecting a stitch ...

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.....

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.....  
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.....

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.....  
.. 42 Adjusting the stitch length and width .....

.....  
.....  
.....

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.....  
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.....  
.. 42 Positioning the fabric .....

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.....  
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.....  
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*. 73 Piecing ....*

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*. 73 Quilting .....*

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*..... 74 Free-motion quilting ....*

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.....  
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*. 75 Reinforcement Stitching ....*

.....  
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.....  
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*. 77 Triple stretch stitching .....*

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.....  
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*... 77 Bar tack stitching .....*

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d Presser foot holder screw Use the presser foot holder screw to hold the presser foot holder in place.

e Presser foot The presser foot applies pressure to the fabric during sewing. Attach the appropriate presser foot for the selected stitch. f Needle plate cover Remove the needle plate cover to clean the bobbin case and race. g Feed dogs The feed dogs feed the fabric. h Quick-set bobbin Begin sewing without pulling up the bobbin thread.

i Bobbin cover Remove the bobbin cover and then insert the bobbin into the bobbin case. j Needle plate The needle plate is marked with guides to help sew straight seams. k Needle bar thread guide Pass the upper thread through the needle bar thread guide. l Presser foot lever Raise and lower this lever to raise and lower the presser foot. m Needle clamp screw Use the needle clamp screw to hold the needle in place.

9 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 low speed at the beginning of sewing while the button is continuously pressed. When sewing is stopped, the needle is lowered into the fabric. For details, refer to "Starting to sew" (page 44). 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 46). c Needle position button Press the needle position button to raise or lower the needle.

Pressing the button twice sews one stitch. d Sewing speed controller Slide the sewing speed controller to the left or right to adjust the sewing speed. Slide the sewing speed controller to the left to reduce the sewing speed, or slide the speed controller to the right to increase the sewing speed. Operation panel The operation panel, located on the front of the sewing machine, allows you to select a stitch and specify how the stitch will be sewn. Flat bed attachment The accessories are stored in the storage space in the flat bed attachment. a toward you to open the storage space. Swing the lid of the flat bed attachment a LCD (liquid crystal display) The number of the selected stitch (1), the presser foot to be used (2), the stitch length (mm) (3), and the stitch width (mm) (4) are displayed here. b Stitch length key (page 42) Use to adjust the length of the stitch. (Press the "" side for a shorter stitch length, or press the "+" side for a longer stitch length.) c Stitch width key (page 43) Use to adjust the width of the stitch.

(Press the "" side for a more narrow stitch width, or press the "+" side for a wider stitch width.) d Automatic reverse/reinforcement stitch key (page 48) The sewing machine can be set to automatically sew reverse or reinforcement stitches at the beginning and end of the stitching. e Needle mode selection key (single/twin) (page 26) 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. a b a Flat bed attachment b Accessory compartment The bag of accessories is in the storage space.

Note Place the accessories in the bag before storing them in the flat bed attachment. If the accessories are not placed in the accessory bag when stored in the flat bed attachment, accessories may fall out and be lost or damaged. 10 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 T This foot controller can be used on this machine model NS40. The screw for the presser foot holder is available through your authorized dealer. (Part code: XA4813-051) 1. 2. 3. 4. 5.

6. 7. 8. 9. 10.\* 11. 12. 13. 14. 15.

16. 17. 18. 19. 20.

21. 22. 23. 24. 25.

26.\*\* \* 75/11 2 needles 90/14 2 needles 90/14 2 needles: Ball point needle (gold colored) \*\* The type of case that is included depends on the machine model. Part Code No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Part Name U.S.A./ Canada Others No. 15 16 17 18 19 20 Part Name Screwdriver (small) Spool cap (large) Spool cap (medium) Spool cap (small) Extra spool pin Spool net U.S.A.

/ Canada Part Code Others Buttonhole foot "A" XC2691-033 Overcasting foot "G" XC3098-031 Monogramming foot "N" XD0810-031 Zipper foot "I" X59370-021 Zigzag foot "J" (on machine) XC3021-051 Blind stitch foot "R" X56409-051 Button fitting foot "M" 130489-001 Seam ripper X54243-051 Bobbin (4) SA156 SFB (XA5539-151) Needle set X58358-021 Twin needle X59296-121 Cleaning brush X59476-021 Eyelet punch 135793-001 Screwdriver (large) XC8349-051 21 Foot controller 22 23 24 25 Operation manual Quick reference guide Accessory bag Disc-shaped screwdriver Hard case 26 Soft cover X55648-051 130012-054 XE1372-001 130013-154 XE2241-001 XA5523-020 XD0501-021 (EU area) XC8816-021 (other areas) XE2417-001 XE2425-001 XC4487-021 XC1074-051 XE2446-001 XC1103-022 11 Attaching the stitch pattern plate (for models equipped with the stitch pattern plate) The stitch pattern plate shows the stitches and the stitch numbers. A letter (A, G, J, N or R) indicating the presser foot that should be used appears below the stitch number. Attach the stitch pattern plate to the stitch pattern plate holder, and then attach the holder to the handle of the sewing machine as shown in the illustration below. Optional accessories The following are available as optional accessories. 1. 2. 3. 4. 5. 6.

7. 8. 9. 10. 11.

Part Code No. 1 2 3 4 5 6 Part Name Side cutter Quilting guide Wide table Walking foot Quilting foot U.S.A./ Canada SA177 SA132 SA552 SA140 SA129 Others F054 (XC3879-002) F016N (XC2215-002) WT8 (XE2472-001) F033N (XC2214-002) F005N (XC1948-002) F036N (XC1970-002) No. 7 8 9 Part Name Non stick foot Open toe foot Stitch guide foot "P" U.S.A./ Canada SA114 SA147 SA160 SA125 SA185 Part Code Others F007N (XC1949-002) F027N (XC1964-002) F035N (XC1969-002) F001N (XC1944-052) F057 (XC7416-252) 10 1/4 inch quilting foot 11 1/4 inch quilting foot with guide Adjustable zipper/piping foot SA161 Memo To obtain optional accessories or parts, contact the nearest authorized dealership. All specifications are correct at the time of printing. The part codes are subject to change without notice. Visit your Brother dealer for a complete listing of optional accessories available for your machine. 12 1 GETTING READY Turning the Machine On/Off This section explains how to turn the sewing machine on and off.



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*1 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. 13 GETTING READY*

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*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 off (the power cord into the power supply jack on the right side of the machine. 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 " 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 Main power switch b Power cord c on the right side of the machine (set it to "V"). Press the right side of the main power switch d supply jack.*

*Unplug the power cord from the power 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. 14 Preparing for Upper and Lower Threading Winding the bobbin Wind the thread onto the bobbin. a Hook of the bobbin-winding thread guide b Pretention disk c Bobbin winder shaft d Bobbin 1 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)). a This model c b Other model c 11.5 mm (7/16 inch) (actual size) a b a Turn on the sewing machine. d spool cap.*

*Swing up the spool pin, and then remove the a b Place the bobbin on the bobbin winder shaft b so that the spring on the shaft fits into the notch in the bobbin. a Spool pin b Spool cap e onto the spool pin. a Fully insert the spool of thread for the bobbin Slide the spool onto the pin so that the spool is horizontal and the thread unwinds to the front at the bottom. b a Notch b Bobbin winder shaft spring c it snaps into place. Slide the bobbin winder shaft to the right until CAUTION If the spool is not positioned so that the thread unwinds correctly, the thread may become tangled around the spool pin. 15 GETTING READY*

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*f With the slightly rounded side of the spool cap Slide the spool cap onto the spool pin. g pull the thread with your left hand, and then While holding the spool with your right hand, pass the thread under the thread guide. positioned toward the left, slide the spool cap onto the spool pin as far as possible to the right so that the spool is moved to the right end of the spool pin. Memo When sewing with fine, cross-wound thread, use the small spool cap, and leave a small space between the cap and the spool. 1 a Thread guide h from the back to the front.*

*Pass the thread under the thread guide cover Hold the thread with your right hand so that there is no slack in the thread that is pulled out, and then pass the thread under the thread guide cover with your left hand. c b a a Spool cap (small) b Spool (cross-wound thread) c Space 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 49). a a Thread guide cover i hook of the bobbin-winding thread guide, and Pull the thread to the right, pass it under the then wind the thread counterclockwise between the discs, pulling it in as far as possible. 1 2 3 4 a b c d Spool net Spool Spool cap Spool pin a Hook of the bobbin-winding thread guide b Pretension disk 16 j that was passed through the bobbin-winding While using your left hand to hold the thread thread guide, use your right hand to wind the end of the thread clockwise around the bobbin five or six times.*



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m Press (start/stop button) once. The bobbin starts spinning and the thread is wound around the bobbin.

l k the bobbin winder seat, and then pull the Pass the end of the thread through the slit in thread to the right to cut it. a Start/stop button n press When the bobbin winding becomes slow, (start/stop button) once to stop the machine. a a Slit in bobbin winder seat (with built-in cutter) CAUTION When the bobbin winding becomes slow, stop the machine, otherwise the sewing machine may be damaged. o to the left, and then remove the bobbin from The thread is cut to a suitable length. 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 bobbin may not be wound correctly. In addition, the thread may become tangled in the bobbin or the needle may bend or break when the bobbin thread starts to run out. l to increase the bobbin winding speed and Cut the thread, slide the bobbin winder shaft the shaft. Slide the sewing speed controller to the right slide to left to decrease. Memo When the sewing machine is started or the handwheel is turned after winding the thread around the bobbin, the machine will make a clicking sound; this is not a malfunction.

The needle cannot move (sewing is not possible) while the bobbin winder shaft is moved to the right. a Sewing speed controller 17 GETTING READY

----- b Turn off the sewing machine (set it to " "). Installing the bobbin  
Install the bobbin wound with thread. CAUTION Use a bobbin that has been correctly wound, otherwise the needle may break or the thread tension will be incorrect. c cover to the right, and then remove the Slide the latch on the right side of the bobbin bobbin cover. a b 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)). a Bobbin cover b Latch d the thread unwinds to the left side, and then Insert the bobbin with your right hand so that pull the thread firmly under the tab with your left hand. c a b a This model b Other model c 11.

5 mm (7/16 inch) (actual size) Before installing the bobbin or 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. Press (needle position button) once or a twice to raise the needle, and then raise the presser foot lever. a a Tab CAUTION Be sure to hold down the bobbin with your finger and install the bobbin so that the thread unwinds in the correct direction, otherwise the needle may break or the thread tension will be incorrect. a Needle position button 18 e hand, and guide the thread through the slot, Lightly hold down the bobbin with your right and then pull it toward you to cut it with the cutter. f Insert the tab in the lower-left corner of the Reattach the bobbin cover. bobbin cover (A), and then press down on the right side (B). B 1 a A b Memo a Slot b Cutter You can begin sewing without pulling up the bobbin thread. If you wish to pull up the bobbin thread before starting to sew, finish threading the machine, and then pull up the thread according to the procedure in "Pulling up the bobbin thread" (page 52). The cutter cuts the thread. · Make sure that the thread is correctly passed through the flat spring of the bobbin case.

If it is not inserted correctly, reinstall the bobbin. a a Flat spring Memo The direction for feeding the bobbin thread is indicated by marks around the needle plate cover. Be sure to thread the machine as indicated. 19 GETTING READY

----- Threading the upper thread In this section, the procedures for installing the spool for the upper thread and threading the needle are described. a Spool pin b Mark on handwheel CAUTION When threading the machine, carefully follow the instructions.

If the upper threading is not performed correctly, the thread may become tangled and the needle may bend or break. The needle threader can be used with sewing machine needles 75/11 through 100/16. Use appropriate thread and needle combinations. For details on appropriate needle and thread combinations, refer to "Needle types and their uses" (page 30). 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. If the needle threader cannot be used, refer to "Threading the needle manually (without using the needle threader)" (page 26). a Turn on the sewing machine. b Raise the presser foot lever. a a Presser foot lever CAUTION If the presser foot is not raised, the sewing machine cannot be threaded correctly. 20 c twice to raise the needle. Press (needle position button) once or e onto the spool pin Fully insert the spool for the upper thread Slide the spool onto the pin so that the spool is horizontal and the thread unwinds to the front at the bottom. 1 a Needle position button · If the needle is not correctly raised, the sewing machine cannot be threaded. Check that the mark on the handwheel points up as shown in the illustration below. If the handwheel is not in this position, be sure to press the needle position button to raise the needle before continuing the procedure.

CAUTION If the spool is not positioned so that the thread unwinds correctly, the thread may become tangled around the spool pin and the thread or needle may break. If the spool cap that is used is smaller than the spool, the thread may catch, for example, on the notch in the spool, or the needle may break. a a Mark on handwheel d spool cap. Swing up the spool pin, and then remove the a b a Spool pin b Spool cap 21 GETTING READY

----- f Slide the spool cap onto the spool pin. g pull the thread with your left hand, and then While holding the spool with your right hand, pass the thread under the thread guide. Memo When sewing with fine, cross-wound thread, use the small spool cap, and leave a small space between the cap and the spool. 1 c b a Thread guide h from the back to the front.



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Pass the thread under the thread guide cover Hold the thread with your right hand so that there is no slack in the thread that is pulled out, and then pass the thread under the thread guide cover with your left hand. a a Spool cap (small) b Spool (cross-wound thread) c Space 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 49). a a Thread guide cover i along the path indicated by the number on the Thread the machine by guiding the thread machine. 1 2 3 4 a b c d Spool net Spool Spool cap Spool pin 22 j from the right to the left.

Slide the thread into the thread take-up lever Threading the needle This section describes how to thread the needle. a For models equipped with the thread guide disk a passed through the needle bar thread guide, 1 Pull the end of the thread, which has been to the left (A), and then firmly pull it from the front (B) through the slit in the thread guide disk. a Thread take-up lever Memo If the needle is not raised, the thread take-up lever cannot be threaded. Be sure to press the needle position button to raise the needle before threading the thread take-up lever. 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, and pulling the thread into the guide from right to left. a B A b a Thread guide disk b Thread guide a a Needle bar thread guide l Lower the presser foot lever. a a Presser foot lever 23 GETTING READY-----

----- b left side of the machine. Cut the thread with the thread cutter on the c side of the machine, and then slowly return Lower the needle threader lever on the left the lever to its original position. a a Thread cutter a Needle threader lever Note 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"). The thread is passed through the eye of the needle. 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. 1 a 80 mm (3 inches) or more CAUTION When pulling out the thread, do not pull it with extreme force, otherwise the needle may break or bend.

24 d the thread through the presser foot, and then Raise the presser foot lever, pass the end of pull out about 5 cm (2 inches) of thread toward the rear of the machine. b Catch the thread on the hook as shown below. a 1 a 5 cm (2 inches) a Needle threader lever c the end of the thread which passed through The upper threading is finished. Now that the upper threading and the lower threading are finished, you are ready to begin sewing. Raise the needle threader lever, and then pull the eye of the needle. 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. For models without the thread guide disk While lowering the needle threader lever, a hook the thread onto the guide. CAUTION Be careful not to pull on the thread with force or it may bend the needle. d the thread through the presser foot, and then Raise the presser foot lever, pass the end of pull out about 5 cm (2 inches) of thread toward the rear of the machine. a a 5 cm (2 inches) The upper threading is finished. a Needle threader b Thread c Guide 25 GETTING READY-----

----- 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 and the extra spool pin. For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 89). Thread the machine to the needle bar thread · For details, refer to "Threading the upper thread" (page 20). b Lower the presser foot lever. a a Twin needle b Extra spool pin b CAUTION Only use the twin needle (part code: X59296121).

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. 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. a · For details on installing a needle, refer to a a Pressor foot lever c from front to back. Pass the thread through the eye of the needle Install the twin needle. "Replacing the needle" (page 31). b · For details, refer to steps Thread the upper thread for the left needle. a through j of "Threading the upper thread" (page 20).

Manually thread the left needle with the Pass the thread through the eye of the needle from the front to the back. d the thread through the presser foot, and then Raise the presser foot lever, pass the end of pull out about 5 cm (2 inches) of thread toward the rear of the machine. c upper thread. 26 d bobbin winder shaft. Insert the extra spool pin onto the end of the a Bobbin winder shaft b Extra spool pin c Thread spool h · For details on changing the presser foot, refer Attach zigzag foot "J". to "Replacing the presser foot" (page 33). CAUTION When using the twin needle, be sure to attach zigzag foot "J", otherwise the needle may break or the machine may be damaged. i 1 Turn on the sewing machine. e thread. Install the thread spool and thread the upper The LCD comes on.

j · For details on selecting a stitch, refer to Memo When setting the thread spool, set it so that the thread winds off from the front of the spool.



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f the same way that the upper thread for the Select a stitch. Thread the upper thread for the right side in left side was threaded. 1 "Selecting a stitch" (page 42). · For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 89).

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. k a Thread guide cover · For details, refer to step a through j of "Threading the upper thread" (page 20). g needle bar thread guide, manually thread the Press (Needle mode selection key). Without passing the thread through the right needle. Pass the thread through the eye of the needle from the front to the back. The twin needle can now be used. · To return to single needle sewing, press (Needle mode selection key). · Even after the sewing machine is turned off, the twin needle setting is not cancelled. 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. 27 GETTING READY

----- l · For details on starting to sew, refer to Start sewing. "Starting to sew" (page 44). Two lines of stitching are sewn parallel to each other. Note When using the twin needle, the stitches may become bunched together, depending on the types of thread and fabric that are used. If this occurs, increase the stitch length.

For details on adjusting the stitch length, refer to "Adjusting the stitch length and width" (page 42). 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. 28 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. 29 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 5060 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 5060 Silk thread Ball point needle (golden colored) 75/1190/14 50 3050 90/14100/16 65/975/11 50 75/11-90/14 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. 30 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 correct needle, as described in "Checking the needle". a twice to raise the needle. 1 Press (needle position button) once or a b a Needle position button b Turn off the sewing machine. a Flat side b Needle type marking a Flat surface If the distance between the needle and the flat surface is not even, the needle is bent. Do not use a bent needle. CAUTION 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.

c Lower the presser foot lever. a Flat surface a Presser foot lever CAUTION Before replacing the needle, place fabric or paper under the presser foot to prevent the needle from falling into the hole in the needle plate. 31 GETTING READY

----- d the needle. Loosen the needle clamp screw and remove Hold the needle with your left hand, and then turn the screwdriver counterclockwise with your right hand. f tighten the needle clamp screw. While holding the needle with your left hand, Turn the screwdriver clockwise. a b Install the twin needle in the same way. a Needle clamp screw b Screwdriver · Do not apply extreme force when loosening or tightening the needle clamp screw, otherwise damage to the machine may result. 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. e rear of the machine, insert the needle until it With the flat side of the needle toward the touches the needle stopper.



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a Needle stopper 32 Replacing the Presser Foot Presser foot precautions Be sure to observe the following precautions concerning the presser feet. 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. Use of any other presser foot may result in injuries or damage to the machine. Replacing the presser foot Replace the presser foot as described below.

a twice to raise the needle. c Raise the presser foot lever. Press (needle position button) once or a Presser foot lever d presser foot holder to remove the presser foot. Press the black button at the back of the a Needle position button b Turn off the sewing machine. a b a Black button b Presser foot holder 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.

Make sure that the presser foot is installed in the correct direction, otherwise the needle may strike the presser foot, causing it to break and cause injuries. 33

GETTING READY -----

e holder so that the presser foot pin is aligned Place the presser foot to be installed below the with the notch in the holder. Position the presser foot so the letter indicating the presser foot type (J, A, etc.) is positioned to be read. g presser foot is securely attached. Raise the presser foot lever to check that the a b c a Presser foot holder b Notch c Pin Removing the presser foot holder Remove the presser foot holder when cleaning the sewing machine or when installing the optional walking foot. a · For details, refer to "Replacing the presser Memo The code for the presser foot to be used with each stitch appears in the LCD. For details on selecting a stitch, refer to "Selecting a stitch" (page 42). Slowly lower the presser foot lever so that the f presser foot pin snaps into the notch in the presser foot holder. a b c d Presser foot lever Presser foot holder Notch Pin Remove the presser foot.

foot" (page 33). b then remove the presser foot holder. Loosen the presser foot holder screw, and Turn the screwdriver counterclockwise. a b a b c a Screwdriver b Presser foot holder c Screw c d The presser foot is attached. 34 Attaching the presser foot holder Align the presser foot holder with the presser a bar. Using the optional walking foot With the optional 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. 1 a b a Presser bar b Presser foot holder b right hand, and tighten the screw. Attaching the walking foot a · For details, refer to "Removing the presser Hold up the presser foot holder with your With your left hand, turn the screwdriver clockwise. Remove the presser foot holder. foot holder" (page 34). b onto the needle clamp screw. Hook the connecting fork of the walking foot a b Note If the presser foot holder is not correctly installed, the thread tension will be incorrect. a Connecting fork b Needle clamp screw CAUTION Be sure to securely tighten the presser foot holder screw, otherwise the presser foot holder may fall off and the needle may strike it, causing the needle to bend or break.

35 GETTING READY -----

c foot holder screw, and then tighten the screw Lower the presser foot lever, insert the presser with the screwdriver. c Raise the presser foot lever. a a a Presser foot lever a Presser foot holder screw The presser foot is raised. d holder screw, and then remove the walking With a screwdriver, loosen the presser foot 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. a a Presser foot holder screw Note When sewing with the walking foot, sew at a speed between slow and medium. e · For details, refer to "Removing the presser Attach the presser foot holder. foot holder" (page 34). Removing the walking foot a twice to raise the needle. 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 89). The optional walking foot is available through your Brother dealer. Press (needle position button) once or a Needle position button The needle is raised.

b Turn off the sewing machine. 36 Useful Functions Functions useful in improving sewing efficiency are described below. When the needle stops in the raised position The needle stops in the raised position when sewing ends. 1 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. a Turn off the sewing machine. Memo After sewing is finished, the fabric can be pulled out. When the needle stops in the lowered position b While pressing (automatic reverse/ reinforcement stitch key), turn on the sewing machine. When machine beeps twice, release the automatic reverse/reinforcement stitch key. The needle stops in the lowered position when sewing ends.

Memo Use this position to change the sewing direction ("Changing the sewing direction" (page 50)) or to stop while sewing. a Automatic reverse/reinforcement stitch key The needle stop position changes to the raised position. Memo Perform the same operation to change the needle stop position to the lowered position. 37 GETTING READY -----

----- Changing the initial needle position Normally, the straight stitch (left needle position) is automatically selected when the sewing machine is turned on.



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The machine can be set so that the straight stitch (center needle position) is automatically selected when it is turned on.

a Turn off the sewing machine. b key), turn on the sewing machine. While pressing (needle mode selection When the machine beeps twice, release the needle mode selection key. a Needle mode selection key (single/twin) The initial needle position is changed to the center needle position. Memo The specified initial needle position is maintained even after the machine is turned off.

Perform the same operation to change the initial needle position to the left needle position. 38 Sewing Cylindrical or Large Pieces When sewing cylindrical or large pieces of fabric, remove the flat bed attachment. 1 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, free-arm 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. 39 GETTING READY

----- c Keeping the wide table level, fully slide it into Install the wide table. f original position. Install the flat bed attachment back in its place. The lower right corner section of the wide table extends over the front section of the sewing machine bed. 2 1 a Lower right corner b Sewing machine bed Note The optional wide table is available through your Brother dealer. d adjust their height so the wide table will be Turn the screw at the bottom of each leg to level with the sewing machine bed. CAUTION Do not move the sewing machine while the wide table is attached, otherwise damage or injuries may occur. e remove it. When you are finished using the wide table, While slightly lifting up the wide table, pull it off to the left.

40 2 SEWING BASICS Starting to Sew Basic sewing operations are described below. Before operating the sewing machine, read the following precautions. CAUTION While the machine is in operation, pay special attention to the needle. In addition, keep your hands away from all moving parts such as the needle, handwheel, and thread take-up lever, 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. Use the correct presser foot 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. When sewing, make sure that the needle does not strike basting pins, otherwise the needle may break or bend. 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.

2 Sewing procedure The basic sewing procedure is shown below. 1 Turn on the machine. Turn on the sewing machine. For details, refer to "Turning on the machine" (page 14). 2 Select a stitch. Select a stitch appropriate for the application. For details, refer to "Selecting a stitch" (page 42). 3 Attach the presser foot. Attach the presser foot that is appropriate for the type of stitch that you wish to sew. For details, refer to "Replacing the presser foot" (page 33).

4 Start sewing. Position the fabric, and then start sewing. When sewing is finished, cut the threads. For details, refer to "Positioning the fabric" (page 43), "Starting to sew" (page 44), and "Cutting the thread" (page 48). 41 SEWING BASICS

----- Selecting a stitch Select each stitch by using the pattern selection dial. a Adjusting the stitch length and width Example: To select stitch a appears in the LCD. Turn on the sewing machine. Turn the pattern selection dial until "05" b key) to adjust the stitch length. Press "+" or "-" side of (stitch length Turn the pattern selection dial to select the b stitch to be sewn. Turn the dial to the right to increase the number, or turn the dial to the left to decrease the number.

a b c d a + Stitch length key Stitch length Fine Coarse a Pattern selection dial The stitch appears in the LCD. c Attach the presser foot indicated in the LCD. a a Presser foot type · For details, refer to "Replacing the presser foot" (page 33). Memo The presser foot to be used is indicated by the letter (J, A, etc.) that appears above the stitch number.

d length. If necessary, adjust the stitch width and stitch · For details on making adjustments, refer to the next section, "Adjusting the stitch length and width" 42 c key) to adjust the stitch width. Press "+" or "-" side of (stitch width 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. a a b c d Stitch width key Stitch width Narrow Wide Turn on the sewing machine. The straight stitch (left needle position) is automatically selected.

2 Memo When the stitch length or stitch width is changed from the default setting, around or disappears from the LCD. When the stitch length or stitch width is reset back to the default setting, reappears around or in the LCD. @@If the needle hits the presser foot, the needle may bend or break. If the stitches become bunched together, increase the stitch length. @@@@ When sewing is stopped, the needle remains lowered (in the fabric). @@@@ If the fabric is forcefully pushed, the needle may break or bend. a a Presser foot lever 50 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. 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.



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When you have finished sewing, tear off any excess paper.

a b a Sewing direction b Misalignment 2 a When starting sewing with a seam that is too a thick for the fabric to be fed, raise the presser foot lever. b (presser foot holding pin) on the left side of a Stabilizer material or paper Using the index finger press the black button the zigzag foot "J", then use left thumb to level the presser foot by gently pushing down on the front of the presser foot. You will hear a "click"; continue pressing the presser foot holding pin while lowering the presser foot. Sewing stretch fabrics First, baste the pieces of fabric together, and then sew without stretching the fabric. In addition, a better result can be achieved by using thread for knits or a stretch stitch. a a a Basting a Black button c fabric to be fed. The presser foot remains level, enabling the · After the seam is sewn, the presser foot will return to its normal operation. CAUTION The thickness of fabric differs depending on the fabric type. If the fabric is forcefully pushed, the needle may break or bend. 51 SEWING BASICS -----

----- 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 d of "Installing the bobbin" (page 18). b Do not cut the thread with the cutter. Pass the bobbin thread through the slot.

f Insert the tab in the lower-left corner of the Reattach the bobbin cover. bobbin cover (A), and then lightly press down on the right side (B). c your left hand with the needle in the up- While lightly holding the upper thread with B position, press (needle position button) twice to lower and raise the needle. A 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 52 3 UTILITY STITCHES Overcasting Sew overcasting along the edges of cut fabric to prevent them from fraying. Six stitches are available for overcasting. Pattern numbers vary depending on the machine model. @ @70 stitches model 60 stitches model 50 stitches model 40 stitches model Application Auto Manual Auto Manual Pattern Stitich Width [mm (inch)] Stitich Length [mm (inch)] Reverse/ Reinforcement Stitiching Stitich Name Zigzag stitich Overcasting and J 05 05 05 05 attaching appliquéés Overcasting on medium weight or J 06 06 06 06 stretch fabrics, attaching elastic, darning, etc. Overcasting on thin G 07 07 07 07 or medium weight fabrics G 08 08 08 08 3.5 (1/8) 0.07.0 (01/4) 1.4 (1/16) 0.04.

0 (03/16) Yes \*1 (J) Yes 3 Reverse 3-point zigzag stitich 5.0 1.57.0 1.0 0.24.0 Yes No Reinforcement (3/16) (1/161/4) (1/16) (1/643/16) (J) 3.5 2.55.0 2.0 1.04.0 No No Reinforcement (1/8) (3/323/16) (1/16) (1/163/16) Overcasting on thick 5.0 2.55.

0 2.5 1.04.0 No No Reinforcement fabrics (3/16) (3/323/16) (3/32) (1/163/16) Overcasting stitich Preventing fraying in 5.0 3.

55.0 2.5 1.04.0 G 09 09 09 09 thick fabrics and fabNo No Reinforcement (3/16) (1/83/16) (3/32) (1/163/16) rics that fray easily J 10 10 10 10 Overcasting on stretch fabrics 5.0 (3/16) 0.07.0 (01/4) 2.5 0.54.

0 Yes No Reinforcement (3/32) (1/323/16) (J) \*1 Do not use reverse stitiching. The values below "Auto" are set when the pattern is selected. The setting can be adjusted to any value within the range indicated below "Manual". Observe the following precautions while stitiching. CAUTION Before replacing the presser foot, be sure to turn off the sewing machine, otherwise injuries may occur if a button is accidentally pressed and the machine starts sewing. 53 UTILITY STITCHES -----

----- Sewing overcasting stitiches using zigzag foot "J" a b Sewing overcasting stitiches using overcasting foot "G" a b Turn on the machine. With the pattern selection dial, select , or . Turn on the machine. With the pattern selection dial, select , or . c · For details, refer to "Replacing the presser Attach zigzag foot "J" foot" (page 33). c · For details, refer to "Replacing the presser Attach overcasting foot "G". foot" (page 33). d needle dropping off the edge at the right. Sew along the edge of the fabric with the d against the guide of the presser foot, and then Position the fabric with the edge of the fabric lower the presser foot lever.

a a a a Needle drop point a Presser foot guide e check that the needle does not touch the CAUTION After adjusting the stitich width, slowly turn the handwheel 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. Slowly turn the handwheel toward you and presser foot. f presser foot guide. Sew with the edge of the fabric against the a a Needle drop point 54 Basic Stitiching Straight stitiches are used for sewing plain seams.

Three stitiches are available for basic stitiching. Pattern numbers vary depending on the machine model. @ @70 stitiches model 60 stitiches model 50 stitiches model 40 stitiches model Application Auto Manual Auto Manual Pattern Stitich Width [mm (inch)] Stitich Length [mm (inch)] Reverse/ Reinforcement Stitiching Stitich Name Straight stitich Left Center Basic stitiching, sewJ 01 01 01 01 ing gathers or pintucks, etc. Attaching zippers, basic stitiching, and J 02 02 02 02 sewing gathers or pintucks, etc. 0.0 (0) 3.5 (1/8) 0.07.0 (01/4) 0.07.

0 (01/4) 2.5 0.25.0 Yes \*1 (3/32) (1/643/16) (J) Yes 2.5 0.25.0 Yes \*1 (3/32) (1/643/16) (J) Yes Reverse Reverse 3 Triple stretch stitich Attaching sleeves, sewing inseams, sew0.0 J 03 03 03 03 ing stretch fabrics (0) and decorative stitiching 0.07.0 (01/4) 2.

5 1.54.0 Yes No Reinforcement (3/32) (1/163/16) (J) \*1 Do not use reverse stitiching. The values below "Auto" are set when the pattern is selected. The setting can be adjusted to any value within the range indicated below "Manual".

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



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