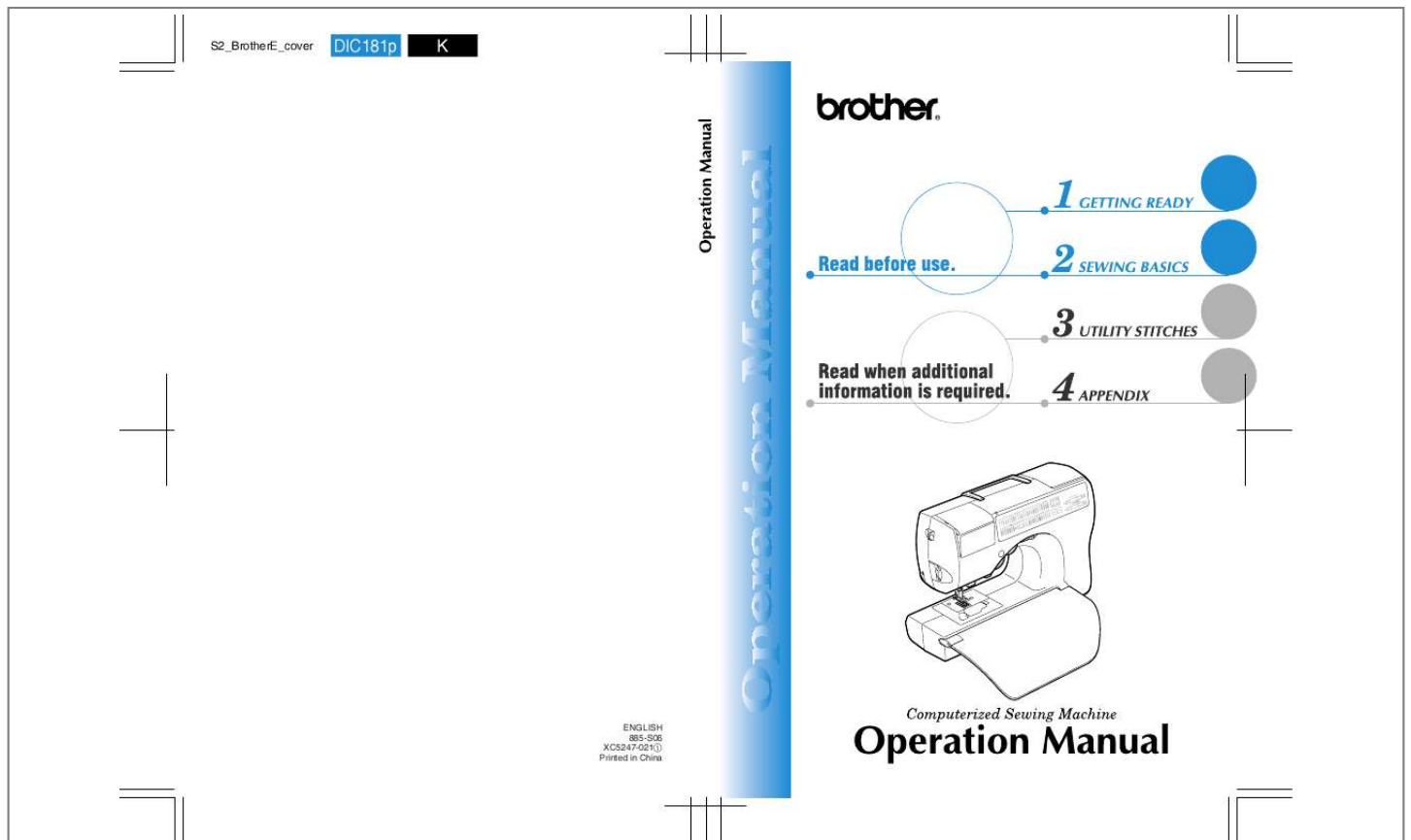




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for BROTHER CS-8060. You'll find the answers to all your questions on the BROTHER CS-8060 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BROTHER CS-8060
User guide BROTHER CS-8060
Operating instructions BROTHER CS-8060
Instructions for use BROTHER CS-8060
Instruction manual BROTHER CS-8060



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Manual abstract:

2. 3. 4. 5. 6. 7. 8. 9. 10.* 11.
12. 13. 14. 15. 16.
17. 18. 19. 20. 21.

22. 23. 24. 25. * 75/11 2 needles 90/14 2 needles 90/14 2 needles: Ball point needle (gold colored) No. 1 2 3 4 5 6 7 8 9 10 11 12 13 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" Seam ripper Bobbin (4) Needle set Twin needle Cleaning brush Eyelet punch Part Code U.S.A. Others XC2691-051 XC3098-051 X53840-351 X59370-051 XC3021-051 XC4051-051 X59375-151 X54243-001 SA156 XA5539-151 X58358-051 X59296-051 X59476-051 135793-051 No. 14 15 16 17 18 19 20 21 22 23 24 25 Part Name Screwdriver Spool cap (large) Spool cap (small) Extra spool pin Spool net Foot controller Thread cassette (on machine) Spool cap (orange) (on machine) Needle-changing tool Operation manual Quick reference guide Spool cap (special) Part Code U.

S.A. @@@@ Thread tension dial Use the thread tension dial to adjust the tension of the upper thread. 5 Thread cutter Pass the threads through the thread cutter to cut them. 6 Arm 7 Flap Use the flap to create a table. When the sewing machine is not being used, store the machine with the flap folded up. Remove the flap to sew cylindrical pieces such as sleeve cuffs. 8 Sliding leg Pull out the sliding leg during free-arm sewing. 9 Operation buttons Use the operation buttons to start the sewing machine and raise and lower the needle. (page Cover D) 0 Operation panel Select a stitch from those that appear in the operation panel.

(page Cover E) A Bobbin winder Use the bobbin winder when winding the bobbin. B Bobbin thread spool pin Place the spool of thread for the bobbin onto this spool pin in order to wind the bobbin. C Bobbin storage compartment Store the bobbins designed specifically for this sewing machine in this compartment. D Bobbin winder cover Open this cover when winding the bobbin. E Thread guide for bobbin winding Pass the thread around this thread guide when winding the bobbin thread.

Cover B S2_brotherE.book Page C Thursday, February 13, 2003 11:03 AM ----- Names of Machine Parts and Their Functions Needle and presser foot section 1 2 Right-side/rear view 1 2 3 3 7 7 6 5 4 4 5 1 Handle Carry the sewing machine by its handle when transporting the machine. 2 Balance wheel Turn the balance wheel toward you to raise and lower the needle to sew one stitch. 3 Main power switch Use the main power switch to turn the sewing machine on and off. 4 Power supply jack Insert the plug on the power supply cord into the power supply jack.

5 Foot controller jack Insert the plug on the end of the foot controller cable into the foot controller jack. 6 Air vent The air vent allows the air surrounding the motor to be exchanged. Do not cover the air vent while the sewing machine is being used. 7 Feed dog position switch Use the feed dog position switch to lower the feed dogs. 6 1 Buttonhole lever Lower the buttonhole lever when sewing buttonholes and bar tacks. 2 Needle bar thread hook Pass the upper thread through the needle bar thread hook. 3 Needle plate The needle plate is marked with guides for sewing straight seams. 4 Bobbin cover/shuttle Remove the bobbin cover, and then insert the bobbin into the shuttle. 5 Feed dogs The feed dogs feed the fabric in the sewing direction. 6 Presser foot The presser foot applies pressure consistently on the fabric as the sewing takes place.

Attach the appropriate presser foot for the selected stitching. 7 Presser foot holder The presser foot is installed onto the presser foot holder. Memo G Refer to Cover B, D or E pages while you are learning to use your machine. Cover C S2_brotherE.book Page D Thursday, February 13, 2003 11:03 AM Operation buttons The operation buttons help you to easily perform various basic sewing machine operations. 1 2 3 7 6 5 4 1 Thread cassette indicator The indicator lights up or goes off depending on the condition of the sewing machine. Green: A thread cassette can be inserted. Red: A thread cassette cannot be inserted. Off: The sewing machine has been turned off or a thread cassette is already inserted. 2 Thread cutter button (Only for models equipped with the thread cutter button) Press the thread cutter button after stopping sewing to cut both the upper and the bobbin threads.

For details, refer to "Cutting the thread" (page 49). 3 Needle position button Press the needle position button to raise or lower the needle. Pressing the button twice sews one stitch. 4 Start/stop button Press the start/stop button to start or stop sewing. The machine sews at a slow speed at the beginning of sewing while the button is depressed.

When sewing is stopped, the needle is lowered in the fabric. For details, refer to "Starting to sew" (page 45). 5 Presser foot lever Raise and lower the presser foot lever to raise and lower the presser foot. 6 Reverse/reinforcement stitch button Press the reverse/reinforcement stitch button to sew reverse stitches or reinforcement stitches. Reverse stitches are sewn by keeping the button pressed down to sew in the opposite direction.

Reinforcement stitches are sewn by sewing 3 to 5 stitches on top of each other. For details, refer to "Securing the stitching" (page 47). 7 Sewing speed controller Slide the sewing speed controller to adjust the sewing speed. CAUTION G Do not press the thread cutter button after the threads have already been cut, otherwise the needle may break, the threads may become tangled or damage to the machine may occur. Note G Do not press the thread cutter button if there is no fabric under the presser foot or while the machine is sewing, otherwise damage to the machine may occur. G When cutting thread thicker than #30, nylon thread or other special threads, use the thread cutter on the side of the machine. For details, refer to "Cutting the thread" (page 49). Cover D S2_brotherE.book Page E Thursday, February 13, 2003 11:03 AM ----- Names of Machine Parts and Their Functions Operation panel The operation panel, located on the front of the sewing machine, consists of various buttons and sliders for specifying how the stitch will be sewn. 1 2 4 5 6 3 7 8 9 1 Stitches There are 50 stitches.

Select stitch 00-49. A letter (A, G, J, N or R) indicating the presser foot that should be used appears below the stitch number. 2 Stitch indicator / 3 Stitch selection key Press the stitch selection key, and then select the number for the stitch that you wish to use. 50 stitches are available. For details, refer to "Selecting Stitching" (page 58). 4 Stitch length adjustment indicator / 5 Stitch length adjustment button / 6 Stitch length adjustment slider These are used to adjust the length of the stitch.



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Cover B Needle and presser foot section

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Cover C Right-side/rear view

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...Cover C Operation buttons ..

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..... 106 Changing the needle stop position ..

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.....108 5 S2_brotherE.book Page 6 Thursday, February 13, 2003 11:03 AM Important Safety Instructions When using this machine, basic safety precautions should always be taken, including the following: Read all instructions before using.

DANGER -never be left the risk of electric shock: in. Always unplug the machine To reduce 1. The machine should unattended while plugged from the electrical outlet immediately after using and before cleaning. **WARNING** - To reduce the risk of burns, fire, electric shock, or injury to persons: 1. Do not allow this machine to be used as a toy. Close attention is necessary when the machine is used by or near children. 2. Use this machine only for its intended use as described in this manual. Use only accessories recommended by the manufacturer as contained in this manual. 3. Never operate this machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment. 4. Never operate the machine with any air openings blocked. Keep ventilation openings of the machine and foot control free from the accumulation of lint, dust, and loose cloth. 5. Never drop or insert any object into any opening. 6. Do not use outdoors. 7. Do not operate where aerosol (spray) products are being used or where oxygen is being administered. 8. To disconnect, turn the main switch to the symbol " " position which represents off, then remove plug from outlet. 9. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord. 10. Keep fingers away from all moving parts. Special care is required around the machine needle. 11.

Always use the proper needle plate. The wrong plate can cause the needle to break. 12. Do not use bent needles. 13. Do not pull or push fabric while stitching. It may deflect the needle causing it to break. 14. Switch the machine to the symbol " " position when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, and the like. 15. Always unplug the machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual. 16. This sewing machine is not intended for use by young children or infirm persons without supervision. 17. Young children should be supervised to ensure that they do not play with this machine.

18. If the Light unit is damaged, it must be replaced by authorized dealer. **SAVE THESE INSTRUCTIONS** This machine is intended for household use. 6 S2_brotherE.book Page 7 Thursday, February 13, 2003 11:03 AM **FOR USERS IN THE UK, EIRE, MALTA AND CYPRUS ONLY** If this machine is fitted with a three-pin non-rewireable BS plug then please read the following. **IMPORTANT** If the available socket outlet is not suitable for the plug supplied with this equipment, it should be cut off and an appropriate three-pin plug fitted. With alternative plugs an approved fuse must be fitted in the plug. **NOTE** The plug served from the main lead must be destroyed as a plug with bared flexible cords is hazardous if engaged in a live socket outlet. In the event of replacing the plug fuse, use a fuse approved by ASTA to BS 1362, i.e. carrying the mark, rating as marked on plug. Always replace the fuse cover, never use plugs with the fuse cover omitted.



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WARNING DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER 'E', BY THE EARTH SYMBOL OR COLOURED GREEN OR GREEN AND YELLOW. The wires in this main lead are colored in accordance with the following code: Blue Brown Neutral Live As the colors of the wiring in the main lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows. The wire which is colored blue must be connected to the terminal which is marked with the letter 'N' or colored black or blue.

The wire which is colored brown must be connected to the terminal which is marked with the letter 'L' or colored red or brown. 7 S2_brotherE.book Page 8 Thursday, February 13, 2003 11:03 AM CONGRATULATIONS ON CHOOSING OUR MACHINE Your machine is one of the most advanced computerized household sewing machines. To fully enjoy all the features, we suggest that you study the manual before using the machine. PLEASE READ BEFORE USING THIS MACHINE For safe operation 1. Be sure to keep your eye on the needle while sewing. Do not touch the hand wheel, thread takeup lever, needle, or other moving parts. 2. Remember to turn off the power switch and unplug the cord when: · Operation is completed · Replacing or removing the needle or any other parts · A power failure occurs during use · Maintaining the machine · Leaving the machine unattended 3. Do not store anything on the foot controller. 4. Plug the machine directly into the wall. Do not use extension cords. For a longer service life 1. When storing this machine, avoid direct sunlight and high humidity locations.

Do not use or store the machine near a space heater, iron, halogen lamp, or other hot objects. 2. Use only neutral soaps or detergents to clean the case. Benzene, thinner, and scouring powders can damage the case and machine, and should never be used. 3.

Do not drop or hit the machine. 4. Always consult the operation manual when replacing or installing any assemblies, the presser feet, needle, or other parts to assure correct installation. For repair or adjustment In the event a malfunction occurs or adjustment is required, first follow the troubleshooting table in the back of the operation manual to inspect and adjust the machine yourself. If the problem persists, please consult your local authorized Brother dealer. For additional product information and updates, visit our web site at www.brother.com 8 S2_brotherE.book Page 9 Thursday, February 13, 2003 11:03 AM 1 GETTING READY The various preparations required before starting to sew are described in this chapter. Turning the Machine On/Off .

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10 Winding/Installing the Bobbin

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....18 Replacing the Needle .

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..30 Replacing the Presser Foot

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..35 Sewing Cylindrical Pieces ...

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book Page 10 Thursday, February 13, 2003 11:03 AM 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 G Use only regular household electricity for the power source. Using other power sources may result in fire, electric shock, or damage to the machine. G 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 G Do not use extension cords or multi-plug adapters with many other appliances plugged in to them. Fire or electric shock may result. G Do not touch the plug with wet hands. Electric shock may result. G 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. G 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. G Unplug the power cord if the machine is not to be used for a long period of time. Otherwise a fire may result. 10 S2_brotherE.book Page 11 Thursday, February 13, 2003 11:03 AM Turning on the machine 1 off (the main power switch is set to "O"), and 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. 1 Make sure that the sewing machine is turned then plug the power supply 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 supply cord into a 2 household electrical outlet. 2 the right side of the machine (set it to " 1 The sewing lamp goes off when the machine is turned off. 3 electrical outlet. Unplug the power supply cord from the Grasp the plug when unplugging the power supply cord. 1 Power supply jack 3 on the right side of the machine (set it to "V"). Press the right side of the main power switch 4 power supply jack. Unplug the power supply cord from the Note The sewing lamp comes on when the machine is turned on. 4 machine down toward you. Fold the flap at the front of the sewing G If a power outage occurs while the sewing machine is being operated, turn off the sewing machine and unplug the power supply cord. When restarting the sewing machine, follow the necessary procedure to correctly operate the machine. (For U. S.A only) G 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. Turning the Machine On/Off 11 S2_brotherE.book Page 12 Thursday, February 13, 2003 11:03 AM
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 G Only use the bobbin (part code: SA156, XA5539-151) designed specifically for this sewing G The enclosed bobbin was
designed specifically for this sewing machine.*



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If bobbins from older machine. Use of any other bobbin may result in injuries or damage to the machine. models are used, the machine will not operate correctly. Use only the enclosed bobbin or bobbins of the same type (part code: SA156, XA5539-151). Actual size 11.5 mm (7/16 inch) This model Older model Winding the bobbin Wind the thread around the bobbin to prepare the bobbin thread. 1 Turn on the sewing machine. 3 Move the bobbin thread spool pin up as far as Swing up the bobbin thread spool pin. possible. 1 2 the right side of the sewing machine.

Open the bobbin winder cover at the top on 1 Bobbin thread spool pin 4 so that the spring on the shaft fits into the Place the bobbin on the bobbin winder shaft notch in the bobbin. 1 2 1 Notch 2 Bobbin winder shaft spring 12 S2_brotherE.book Page 13 Thursday, February 13, 2003 11:03 AM 5 Slide the bobbin winder shaft to the right. CAUTION G Two spool cap sizes are available, 6 the bobbin thread spool pin. Place the spool of thread for the bobbin onto allowing you to choose a spool cap that best fits the size of spool being used.

If the spool cap is too small for the spool being used, the thread may catch on the slit in the spool or the needle may break. 1 Note G If a spool of thread 12 mm (1/2 inch) in diameter and 75 mm (3 inch) high is inserted onto the bobbin thread spool pin, use the special spool cap. 7 spool pin. Slide the spool cap onto the bobbin thread With the rounded side of the spool cap positioned toward the left, slide the spool cap onto the bobbin thread spool pin as far as possible until the right side of the spool touches the right end of the bobbin thread spool pin. 2 1 1 12 mm (1/2 inch) 2 75 mm (3 inch) Winding/Installing the Bobbin 13 S2_brotherE.

book Page 14 Thursday, February 13, 2003 11:03 AM GETTING READY

----- 9 the thread that wraps around the thread guide Memo G When using thread that winds off quickly, such as transparent nylon thread or metallic thread, place the enclosed spool net over the spool before placing the spool of thread onto the spool pin. If the spool net is too long, fold it to fit the size of the spool. While using your left hand to hold the end of for bobbin winding, use your right hand to wind the free end of the thread clockwise around the bobbin five or six times. 1 4 3 0 the slit in the bobbin winder seat. Pull the thread to the right and pass it through 2 1 2 3 4 Spool net Spool Spool pin Spool cap 1 1 Slit in bobbin winder seat (with built-in cutter) The thread is cut to a suitable length. 8 thread guide for bobbin winding. Pull out some thread, and then thread the Hold the thread with both hands, and then securely pass the thread as far as possible into the two slits in the thread guide. 1 CAUTION G Be sure to cut the thread as described. If the bobbin is wound without cutting the thread using the cutter built into the slit in the bobbin winder seat, the thread may become tangled in the bobbin or the needle may bend or break when the bobbin thread starts to run out. 2 1 Thread guide for bobbin winding 2 Two slits 14 S2_brotherE.

book Page 15 Thursday, February 13, 2003 11:03 AM a (so that the speed will be fast). Slide the sewing speed controller to the right e Slide the bobbin winder shaft to the left. 1 f Remove the bobbin from the shaft. 1 1 Sewing speed controller b Press (start/stop button) once. g Remove the spool cap and spool.

Swing down the bobbin thread spool pin, the sewing speed controller back to its original position. h close the bobbin winder cover, and then slide 1 1 Start/stop button The bobbin starts spinning and the thread is wound around the bobbin. The bobbin spins slowly when it is full. c Memo G When the sewing machine is started or the balance wheel is turned after winding the thread around the bobbin, the machine will make a clicking sound; this is not a malfunction. When the bobbin begins spinning slowly, press (start/stop button) once.

The sewing machine stops. d wound around the bobbin. Use scissors to cut the end of the thread Winding/Installing the Bobbin 15 S2_brotherE.book Page 16 Thursday, February 13, 2003 11:03 AM GETTING READY ----- 2

Remove the bobbin cover. Hold the bobbin with your right hand and Installing the bobbin Install the bobbin wound with thread.

3 hold the end of the thread with your left. CAUTION G Use a bobbin thread that has been correctly wound, otherwise the needle may break or the thread tension will be incorrect. · Be careful not to drop the bobbin. 4 thread unrolls to the left. Insert the bobbin into the shuttle so that the G The bobbin was designed specifically for this sewing machine.

If bobbins from older models are used, the machine will not operate correctly. Use only the enclosed bobbin or bobbins of the same type (part code: SA156, XA5539-151). Actual size 11.5 mm (7/16 inch) This model Older model · Be sure to insert the bobbin correctly. CAUTION G Be sure to hold down the bobbin with Memo G The order that the bobbin thread should be passed through the needle plate is indicated by marks around the shuttle. Be sure to thread the machine as indicated. your finger and unroll the bobbin thread correctly, otherwise the thread may break or the thread tension will be incorrect. 5 hand, and then guide the thread as shown Lightly hold down the bobbin with your right with your left hand. 1 Slide the bobbin cover latch to the right. 1 2 6 then pull the thread out toward the front.

Pass the thread through the slot as shown, and 1 Bobbin cover 2 Latch 1 The bobbin cover opens. 1 Cutter The cutter cuts the thread. 16 S2_brotherE.book Page 17 Thursday, February 13, 2003 11:03 AM 7 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. 2 1 1 The lower threading is finished. Next, thread the upper thread. Continue with the procedure in "Upper Threading" (on the next page). Memo G You can begin sewing without pulling up the bobbin thread. If you wish to pull up the bobbin thread before starting to sew, pull up the thread according to the procedure in "Pulling up the bobbin thread" (page 29).

Winding/Installing the Bobbin 17 S2_brotherE.book Page 18 Thursday, February 13, 2003 11:03 AM GETTING READY

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



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CAUTION G When threading the upper thread, carefully follow the instructions. If the upper threading is not correct, the thread may become tangled or the needle may bend or break. About the spool of thread With this sewing machine, a spool of thread can be loaded into the enclosed thread cassette, and then the thread cassette can be threaded.

Information about the spools of thread is described below. 1 Spools that can be loaded into the thread cassette Normally, a spool of thread is loaded into the thread cassette and used. The spools that can be loaded must have a diameter smaller than the orange spool cap and a height shorter than the mark on the cover of the thread cassette. 1 3 When using the extra spool pin, attach either the large or small white spool cap, depending on the size of the spool. Use the spool cap with a diameter that is slightly larger than the diameter of the spool.

1 2 3 1 Spool cap (large) 2 Spool cap (small) 3 Spool 1 Memo 2 1 Spool cap (orange) 2 Spool 3 Mark on thread cassette compartment cover G For details on using the extra spool pin, refer to "Using the extra spool pin" (page 24). G When using a spool of cross-wound thread, install the small white spool cap with some space between the cap and the spool. 1 Spools that cannot be loaded into the thread cassette When using spools that cannot be loaded into the thread cassette, use the enclosed extra spool pin. 1 3 2 1 Spool cap (small) 2 Gap 3 Spool 18 S2_brotherE.book Page 19 Thursday, February 13, 2003 11:03 AM **CAUTION** G Two spool cap sizes are available, Loading the spool into the thread cassette Load the spool of thread into the enclosed thread cassette to prepare the upper thread. allowing you to choose a spool cap that best fits the size of spool being used. If the spool cap is too small for the spool being used, the thread may catch on the slit in the spool or the needle may break. 1 Memo G The order for threading the thread cassette is indicated on the thread cassette. Also check the markings on the thread cassette while threading it. 1 Turn on the sewing machine.

2 at the top on the left side of the machine. Open the thread cassette compartment cover Upper Threading 19 S2_brotherE.book Page 20 Thursday, February 13, 2003 11:03 AM **GETTING READY** -----

3 side of the machine toward the back. Push the thread cassette eject lever on the left 6 spool pin. Place the spool for the upper thread onto the Slide the spool onto the spool pin so that the thread unwinds from the left, as seen from the top. 1 1 1 Thread cassette eject lever The thread cassette is raised. · If the sewing machine is turned off, the thread cassette will not be ejected correctly. 4 1 Spool 7 With the rounded side of the spool cap Slide the spool cap onto the spool pin. Remove the thread cassette. positioned toward the top, slide the spool cap onto the spool pin as far as possible until the down side of the spool touches the down end of the spool pin.

· Only the orange spool cap should be placed on the spool pin in the thread cassette. 5 toward you, and then pull off the spool cap Pull the cover of the thread cassette out that is inserted onto the spool pin. 1 **CAUTION** G If the spool or the spool cap is not positioned correctly, the thread may become tangled around the spool pin or the needle may break. 2 3 1 Spool cap (orange) 2 Spool pin 3 Cover 20 S2_brotherE.book Page 21 Thursday, February 13, 2003 11:03 AM 8 right hand and the thread cassette with your While holding the end of the thread with your left hand, close the cover.

· When using special thread such as metallic thread, use the thumb of your left hand to press down on the area indicated in the illustration to create an opening that allows for easier threading. 1 1 9 the thread cassette. Pass the thread through the slit in the top of Follow arrow 2 indicated on the thread cassette. 1 Push 2 Gap a cassette. 2 Pass the thread along the bottom of the thread Follow arrow 4 indicated on the thread cassette. 0 the slit along the left side of the thread Pull the thread to the left and pass it through cassette. Follow arrow 3 indicated on the thread cassette. b lower-right corner of the thread cassette, and Pass the thread through the notch in the then pull the thread to the left. Follow arrow 5 indicated on the thread cassette. 1 1 Notch Upper Threading 21 S2_brotherE.book Page 22 Thursday, February 13, 2003 11:03 AM **GETTING READY**

----- c the lower-left corner and around to the right, Pull the thread under the disc at the front in and then cut the thread with the cutter. Follow arrow 6 indicated on the thread cassette. Threading the needle In this section, the procedures for installing the thread cassette and threading the needle are described. The needle threader is used to thread the needle at the same time that the thread cassette is inserted. Memo G The needle threader can be used with sewing machine needles 75/11 through 100/16.

G Thread with a thickness of 130/20 or less cannot be used with the needle threader. G The needle threader cannot be used with the wing needle or the twin needle. G If the needle threader cannot be used, refer to "Threading the needle manually" (page 25). 1 2 1 up in green. 1 Disc 2 Cutter Check that the thread cassette indicator is lit 1 The spool of thread is now loaded in the thread cassette. Note G Be sure to cut the thread as described above, otherwise the needle threader cannot be used to thread the needle. 1 Thread cassette indicator If the thread cassette indicator is lit up in red, the needle has not been raised to the correct position. Press (needle position button) once to raise the needle. 1 1 Needle position button 22 S2_brotherE.book Page 23 Thursday, February 13, 2003 11:03 AM · If the needle is not raised to the correct position, the needle cannot be threaded with the needle threader.

Be sure to check that the thread cassette indicator is lit up in green before inserting the thread cassette. Insert the thread cassette into the thread 2 cassette compartment. Slowly press down on the thread cassette until it clicks into place. 1 1 Needle bar thread hook 1 At the same time that the thread cassette is inserted, the needle is threaded. The thread cassette indicator goes off.

· If the needle could not be threaded or the thread was not passed through the needle bar thread hook, refer to "Loading the spool into the thread cassette" (page 19) and perform the procedure again starting from step 2. **CAUTION** G The needle threader is operated when the needle is threaded.



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Be sure to keep your hands and other items away from the needle, otherwise injuries may occur. 3 the loop of thread passed through the eye of Raise the presser foot lever, carefully pull on the needle to pull out the end of the thread. Carefully pull the loop of thread toward the rear of the machine. 1 1 10-15 cm (3/8-5/8 inch) Pass the thread through the presser foot, and of thread toward the rear of the machine. 1 1 10-15 cm (3/8-5/8 inch) The upper threading is finished. Upper Threading 23 S2_brotherE.book Page 24 Thursday, February 13, 2003 11:03 AM GETTING READY ----- 5 Close the thread cassette compartment cover. Using the extra spool pin When using spools with a size that cannot be loaded into the thread cassette, use the enclosed extra spool pin. Now that the upper threading and the lower threading are finished, you are ready to begin sewing. 1 pin. Place the spool of thread onto the extra spool 1 Note G When inserting the thread cassette into its compartment, slowly press it down. G If the sewing machine could not be threaded, try performing the procedure again starting from loading the spool of thread into the thread cassette. 1 Extra spool pin 2 Spool 2 onto the spool pin.

2 Slide the spool cap for the size of the spool 1 1 Spool cap · For more details, refer to "About the spool of thread" (page 18). 3 holes on the top of the thread cassette. Insert the tabs on the extra spool pin into the 24 S2_brotherE.book Page 25 Thursday, February 13, 2003 11:03 AM 4 from the spool on the extra spool pin. Thread the thread cassette with the thread Thread the needle manually (without using the needle threader) When using special thread, thread with a thickness of 130/20 or less, the wing needle or the twin needle which cannot be used with the needle threader, thread the needle as described below. 1 · Refer to "Replacing the needle" (page 32). 1 Remove the needle. · When using the wing needle, the twin needle or thread that cannot be used with the needle threader, be sure to remove the needle, otherwise the machine may be damaged. · For more details, refer to "Loading the spool into the thread cassette" (page 19). 5 pin attached) into the thread cassette 2 up in green, and then insert the thread cassette Check that the thread cassette indicator is lit into the thread cassette compartment.

· For details, refer to 1 through 2 (page 22). Pass the thread through the needle bar thread hook. Insert the thread cassette (with the extra spool compartment. Use both hands to press down on both sides of the extra spool pin. 1 1 Needle bar thread hook 3 · Refer to "Replacing the needle" (page 32). 4 from front to back. Install a needle. Pass the thread through the eye of the needle At the same time that the thread cassette is inserted, the needle is threaded. The extra spool pin is now installed. Upper Threading 25 S2_brotherE.book Page 26 Thursday, February 13, 2003 11:03 AM GETTING READY ----- 3 onto the extra spool pin. Load the spool for the second thread color Using the twin needle Using the twin needle, you can sew two parallel lines of the same stitch with two different colors. Both upper threads should have the same thickness and quality. Be sure to use the enclosed twin needle and the extra spool pin. For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 96). CAUTION G Only use the twin needle (Part code : X59296-051). Use of any other needle may bend the needle or damage the machine. G Never use bent needles. Bent needles can easily break, possibly resulting in injuries. G Do not try installing the twin needle while the thread cassette is not installed, otherwise the needle may break or damage to the machine may result.

1 · For details, refer to "Replacing the needle" · For more details, refer to steps 1 through 4 in "Using the extra spool pin" (page 24). 4 cassette, and then cut the threads. Use the two threads to thread the thread Thread the thread cassette along arrows 3 through 6, indicated on the thread cassette. Remove the needle. (page 32). 2 the thread cassette. Load the spool for the first thread color into Thread the thread cassette up to arrow 2, indicated on the thread cassette. · For more details, refer to steps 0 through c in "Loading the spool into the thread cassette" (page 19). · For more details, refer to steps 1 through 9 in "Loading the spool into the thread cassette" (page 19). 26 S2_brotherE.book Page 27 Thursday, February 13, 2003 11:03 AM 5 pin attached) into the thread cassette Insert the thread cassette (with the extra spool compartment. 8 stitch from the needle bar thread hook, and Remove the thread for the right side of the then use it to thread the right needle. 1 9 · For details on changing the presser foot, refer Attach zigzag foot "J". to "Replacing the presser foot" (page 35). · For more details, refer to step 5 in "Using the extra spool pin" (page 24).

Pass both threads through the needle bar thread hook. · The needle threader cannot be used. If the needle threader is used with the twin needle, the sewing machine may be damaged. 6 · For details, refer to "Replacing the needle" CAUTION G When using the twin needle, be sure to attach zigzag foot "J", otherwise the needle may break or the machine may be damaged. 0 stitch.

Turn on the sewing machine, and then select a · @ · For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 96). · Select a stitch width of 5,0 mm (3/16 inch) or less. Install the twin needle. (page 32). 7 thread for the left side of the stitch. Manually thread the left needle with the · For details, refer to "Thread the needle manually" (page 25). CAUTION G When using the twin needle, be sure to select an appropriate stitch, otherwise the needle may break or the machine may be damaged. G Slect a stitch width of 5,0 mm (3/16 inch) or less, otherwise the needle may break or the machine may be damaged. G After adjusting the stitch width, slowly turn the balance wheel toward you and check that the needle dose not touch the presser foot. If the needle hits the presser foot, the needle may break or the machine may be damaged.

Upper Threading 27 S2_brotherE.book Page 28 Thursday, February 13, 2003 11:03 AM GETTING READY ----- a · For details on starting to sew, refer to Start sewing.



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"Starting to sew" (page 45). Two lines of stitching are sewn parallel to each other. Note G When changing the sewing direction, press (needle position button) to raise the needle from the fabric, and then raise the presser foot lever and turn the fabric. CAUTION G Do not try turning the fabric with the twin needle left in the fabric, otherwise the needle may break or the machine may be damaged. 28 S2_brotherE.book Page 29 Thursday, February 13, 2003 11:03 AM Pulling up the bobbin thread When making gathers or before free-motion quilting, first pull up the bobbin thread as described below. 1 Refer to steps 1 through 5 of "Installing the 5 bobbin thread under the presser foot toward Pull out about 10-15 cm (3/8-5/8 inch) of the the rear of the machine. Insert the bobbin into the shuttle.

bobbin" (page 16). 1 2 Do not cut the thread with the cutter. Pass the bobbin thread through the slot. 6 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.

3 your left hand, press While lightly holding the upper thread with (needle position button) twice to raise the needle. 2 1 1 1 Needle position button The bobbin thread is looped around the upper thread and can be pulled up. 4 out the end of the bobbin thread. Carefully pull the upper thread upward to pull Upper Threading 29 S2_brotherE.book Page 30 Thursday, February 13, 2003 11:03 AM GETTING READY

----- Replacing the Needle This section provides information on sewing machine needles.

Needle precautions Be sure to observe the following precautions concerning the handling of the needle. Failure to observe these precautions is extremely dangerous, for example, if the needle breaks and fragments are dispersed. Be sure to read and carefully follow the instructions below. CAUTION G Only use home sewing machine needles. Use of any other needle may bend the needle or damage the machine. G Never use bent needles. Bent needles can easily break, possibly resulting in injuries. Needle types and their uses The sewing machine needle that should be used depends on the fabric and thread thickness. Refer to the following table when choosing the thread and needle appropriate for the fabric that you wish to sew. Thread Type Cotton thread Synthetic thread Silk thread Cotton thread Synthetic thread Silk thread Thread for knits Cotton thread Easily frayed fabrics Synthetic thread Silk thread For top-stitching Synthetic thread Silk thread 30 90/14 100/16 5080 65/9 90/14 Size 6080 75/11 90/14 5080 6080 5080 3050 50 5060 90/14-100/16 Ball point needle (golden colored) 75/11 90/14 Fabric Type/Application Broadcloth Medium weight fabrics Taffeta Flannel, Gabardine Lawn Thin fabrics Georgette Challis, Satin Denim Thick fabrics Stretch fabrics Corduroy Tweed Jersey Tricot Size of Needle 65/9 75/11 30 S2_brotherE.

book Page 31 Thursday, February 13, 2003 11:03 AM Memo G The smaller the thread number, the thicker the thread, and the larger the needle number, the thicker the needle. G Use the ball point needle when sewing on stretch fabrics or fabrics where skipped stitches easily occur. G Use a 90/14 to 100/16 needle with transparent nylon threads, regardless of the fabric being sewn. G A 75/11 needle is already installed when the sewing machine is purchased. 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. 1 1 2 CAUTION G The appropriate fabric, thread and needle combinations are shown in the table on the previous page. If the combination of the fabric, thread and needle is not correct, particularly when sewing thick fabrics (such as denim) with thin needles (such as 65/9 to 75/11), the needle may bend or break. In addition, the stitching may be uneven or puckered or there may be skipped stitches. 1 Flat side 2 Needle type marking I Correct needle 1 1 Flat surface I Incorrect needle If the distance between the needle and the flat surface is not even, the needle is bent.

Do not use a bent needle. 1 1 Flat surface Replacing the Needle 31 S2_brotherE.book Page 32 Thursday, February 13, 2003 11:03 AM GETTING READY

----- 4 use a screwdriver to turn the needle clamp Hold the needle with your left hand, and then screw counterclockwise to remove the needle. 1 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".

1 twice to raise the needle. Press (needle position button) once or 2 1 Screwdriver 2 Needle clamp screw · Do not apply a strong force when loosening or tightening the needle clamp screw, otherwise certain parts of the sewing machine may be damaged. 1 1 Needle position button 2 Turn off the sewing machine. 5 rear of the machine, insert the needle until it With the flat side of the needle toward the touches the needle stopper. 1 CAUTION G 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.

3 1 Needle stopper Lower the presser foot lever. 1 1 Presser foot lever 32 S2_brotherE.book Page 33 Thursday, February 13, 2003 11:03 AM 6 use the screwdriver to tighten the needle While holding the needle with your left hand, clamp screw. 1 Using the needle-changing tool Use the enclosed needle-changing tool to replace the needle as described below. 1 Install the twin needle in the same way. 1 needle-changing tool. Pass the needle through the hole in the CAUTION G 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 fork hooks onto the needle clamp screw. Lift up the needle-changing tool so that the 3 clamp screw. Using the screwdriver, loosen the needle Replacing the Needle 33 S2_brotherE.

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----- 4 Lower the needle-changing tool. 7 stopper, and then use the screwdriver to Insert the needle until it touches the needle tighten the needle clamp screw.



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The needle can be removed from the needle bar. The needle is installed. Insert the new needle into the hole in the 5 needle-changing tool. Insert the needle with the flat side of the needle toward the rear of the machine. 8 needle. Lower the needle-changing tool off of the 6 fork hooks onto the needle clamp screw. Lift up the needle-changing tool so that the 34 S2_brotherE.book Page 35 Thursday, February 13, 2003 11:03 AM 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. 1 CAUTION G 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. G 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.

For details on using the side cutter " S" , refer to " Sewing overcasting stitches using the optional side cutter" (page 62). 1 twice to raise the needle. CAUTION G Before replacing the presser foot, be sure Press (needle position button) once or to turn off the sewing machine, otherwise injuries may occur if the start/stop button is accidentally pressed and the machine starts sewing. 3 Raise the presser foot lever. 1 1 1 Needle position button The needle is raised. 2 1 Presser foot lever The presser foot is raised. Replacing the Presser Foot 35 S2_brotherE.book Page 36 Thursday, February 13, 2003 11:03 AM GETTING READY ----- 4 presser foot holder.

Press the black button at the back of the 7 presser foot is securely attached. Raise the presser foot lever to check that the 1 2 1 Black button 2 Presser foot holder The presser foot holder releases the presser foot. 5 so that the presser foot pin is aligned with the Note G For details on the presser foot that should be used with the selected stitch, refer to " Stitch Settings" (page 96). 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. 1 2 3 1 Presser foot holder 2 Notch 3 Pin 6 presser foot pin snaps into the notch in the Slowly lower the presser foot lever so that the presser foot holder.

1 1 Presser foot lever The presser foot is attached. 36 S2_brotherE.book Page 37 Thursday, February 13, 2003 11:03 AM 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. 1 Removing the presser foot holder 1 · For details, refer to " Replacing the presser 2 your right hand, and then tighten the screw Hold the presser foot holder in place with using the screwdriver in your left hand. 1 Remove the presser foot. foot" (page 35). 1 Screwdriver 2 holder screw. Use the screwdriver to loosen the presser foot Note G If the presser foot holder is not correctly installed, the thread tension will be incorrect. 2 13 1 Screwdriver 2 Presser foot holder 3 Presser foot holder screw 1 Attaching the presser foot holder 1 left side of the presser bar.

Align the presser foot holder with the lower- Replacing the Presser Foot 37 S2_brotherE.book Page 38 Thursday, February 13, 2003 11:03 AM GETTING READY ----- Using the optional walking foot With the walking foot, both pieces of fabric are fed evenly by the feed dogs and the teeth on the presser foot. This is useful when sewing fabrics that are hard to feed such as vinyl and leather and when sewing fabrics that easily slip such as velvets or when quilting. Use the screwdriver to attach the walking foot. CAUTION G Be sure to securely tighten the screw with the screwdriver, otherwise the needle may touch the presser foot, causing it to bend or break.

G Before starting to sew, slowly turn the balance wheel toward you and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break. Note I Attaching the walking foot 1 · For details, refer to " Removing the presser G When sewing with the walking foot, sew at a speed between slow and medium. 1 Removing the walking foot 1 twice to raise the needle. Remove the presser foot holder. foot holder" (on the previous page). 2 onto the needle clamp screw. Press (needle position button) once or Hook the connecting fork of the walking foot 1 2 1 1 Needle position button The needle is raised. 1 Connecting fork 2 Needle clamp screw 3 foot holder screw, and then tighten the screw 2 Turn off the sewing machine. Lower the presser foot lever, insert the presser with the screwdriver. 1 1 Presser foot holder screw 38 S2_brotherE.book Page 39 Thursday, February 13, 2003 11:03 AM 3 Raise the presser foot lever. 1 1 1 Presser foot lever The presser foot is raised. 4 holder screw, and then remove the walking With a screwdriver, loosen the presser foot foot. 1 1 Presser foot holder screw 5 · For details, refer to " Removing the presser Attach the presser foot holder.

@@@G Never use bent needles. Bent needles can easily break, possibly resulting in injuries. @@@@ Place the area to be sewn under the presser foot. @@@@ 4 Position the fabric. 5 Start sewing. Start sewing. @@ 6 Cut the thread. Cut the thread at the end of sewing. For details on cutting the thread, refer to " Cutting the thread" (page 49). Sewing 43 S2_brotherE. book Page 44 Thursday, February 13, 2003 11:03 AM SEWING BASICS

----- Positioning the fabric 1 Turn on the sewing machine. The straight stitch (left needle position) is automatically selected. 2 5 Lower the presser foot lever. Press (needle position button) once or twice to raise the needle. 1 1 Presser foot lever The fabric is now positioned to be sewn.

1 1 Needle position button 3 Place the fabric under the presser foot. @@@@G When sewing is stopped, the needle remains lowered (in the fabric). @@@@ Pressing it down hard starts sewing too quickly. @@@@G When sewing with thread thicker than #30, nylon or metallic threads, or other special threads, use the thread cutter on the side of the machine to cut the threads.



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----- Adjusting the Thread Tension The tensions of the upper thread and of the bobbin thread (thread tension) should be adjusted so that they are equal. Changing the tension of the upper thread If the thread and needle combination is correct for the type of fabric being sewn (according to " Needle types and their uses" on page 30), the thread tension will automatically be adjusted to the appropriate setting. However, if the preset thread tension does not give the desired result or if you are sewing with special thread or on special fabric, use the thread tension dial on the left side of the machine to adjust the tension of the upper thread. 1 Correct thread tension The upper thread and the bobbin thread should cross near the center of the fabric. Only the upper thread should be visible from the right side of the fabric, and only the bobbin thread should be visible from the wrong side of the fabric. Turn the thread tension dial downward to loosen the upper thread. 1 Upper thread is too loose If the upper thread is visible from the wrong side of the fabric, the upper thread is too loose. 5 1 2 3 4 1 2 3 4 5 Wrong side of fabric Right side of fabric Upper thread Bobbin thread The upper thread is visible from the wrong side of the fabric. 1 Turn the thread tension dial upward to tighten the upper thread. 2 Tight 3 1 2 3 4 4 Loose Wrong side of fabric Right side of fabric Upper thread Bobbin thread 1 Upper thread is too tight If the bobbin thread is visible from the right side of the fabric, the upper thread is too tight.

1 1 Thread tension dial 1 2 3 4 1 2 3 4 5 Wrong side of fabric Right side of fabric Upper thread Bobbin thread The bobbin thread is visible from the right side of the fabric. 50 S2_brotherE.book Page 51 Thursday, February 13, 2003 11:03 AM Adjusting the Stitch Width and Length The zigzag width (pattern width) and stitch length of utility stitches can be adjusted. Normally, when a stitch is selected, the appropriate width and length are automatically selected. For details on the range of values within which the width and length can be set, refer to " Stitch Settings" (page 96). Adjusting the stitch width Press the stitch width adjustment button in 1 the operation panel. The stitch width adjustment indicator lights up. 2 left or right. CAUTION G After adjusting the stitch width, slowly turn the balance wheel toward you and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break.

2 Slide the stitch width adjustment slider to the Sliding the stitch width adjustment slider to the right makes the stitch width wider; sliding the slider to the left makes the stitch width narrower. 1 2 3 1 Stitch width adjustment indicator 2 Stitch width adjustment button 3 Stitch width adjustment slider 1 Changing the needle position With the straight stitch (left needle position) and the triple stretch stitch, the needle position can be adjusted. Sliding the stitch width adjustment slider to the right moves the needle to the right; sliding the slider to the left moves the needle to the left. · To automatically select the stitch width most appropriate for the selected stitch, press the stitch width adjustment button again. Adjusting the Thread Tension/Adjusting the Stitch Width and Length 51 S2_brotherE.

----- Adjusting the stitch length 1 the operation panel. Press the stitch length adjustment button in The stitch length adjustment indicator lights up. 2 left or right. Slide the stitch length adjustment slider to the Sliding the stitch length adjustment slider to the right makes the stitching coarser; sliding the slider to the left makes the stitching finer. 1 2 4 3 5 1 2 3 4 5 Stitch length adjustment indicator Stitch length adjustment button Stitch length adjustment slider Straight stitch Zigzag stitch · To automatically select the stitch length most appropriate for the selected stitch, press the stitch length adjustment button again.

CAUTION G If the stitches are bunched together, increase the stitch length. Continuing to sew with the stitches bunched together may result in the needle bending or breaking. 52 S2_brotherE.book Page 53 Thursday, February 13, 2003 11:03 AM Useful Sewing Tips Various ways to achieve better results for your sewing projects are described below. Refer to these tips when sewing your project. Trial sewing After you have set up the machine with the thread and needle appropriate for the type of fabric being sewn, the machine automatically sets the thread tension and stitch length and width for the stitch that is selected. However, a trial piece of fabric should be sewn since, depending on the type of fabric and stitching being sewn, the desired results may not be achieved. For the trial sewing, use a piece of fabric and thread that are the same as those used for your project, and check the thread tension and stitch length and width. Since the results differ depending on the type of stitching and the number of layers of fabric sewn, perform the trial sewing under the same conditions that will be used with your project. Sewing curves Stop sewing, and then slightly change the sewing direction to sew around the curve.

For details on sewing with an even seam allowance, refer to " Sewing an even seam allowance" (page 55). 2 When sewing along a curve while using a zigzag stitch, select a shorter stitch length in order to obtain a finer stitch. Changing the sewing direction 1 sewing machine. When the stitching reaches a corner, stop the Leave the needle lowered (in the fabric). If the needle remained up when the machine stopped sewing, press (needle position button) to lower the needle. 2 fabric. Raise the presser foot lever, and then turn the Turn the fabric using the needle as a pivot. 3 sewing. Lower the presser foot lever and continue Useful Sewing Tips 53 S2_brotherE.book Page 54 Thursday, February 13, 2003 11:03 AM SEWING BASICS

----- Sewing thick fabrics I If the fabric does not fit under the presser foot If the fabric does not fit easily under the presser foot, raise the presser foot lever even higher to bring the presser foot to its highest position. CAUTION G If fabric more than 6 mm (15/64 inch) thick is sewn or if the fabric is pushed with too much force, the needle may bend or break. I 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.



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