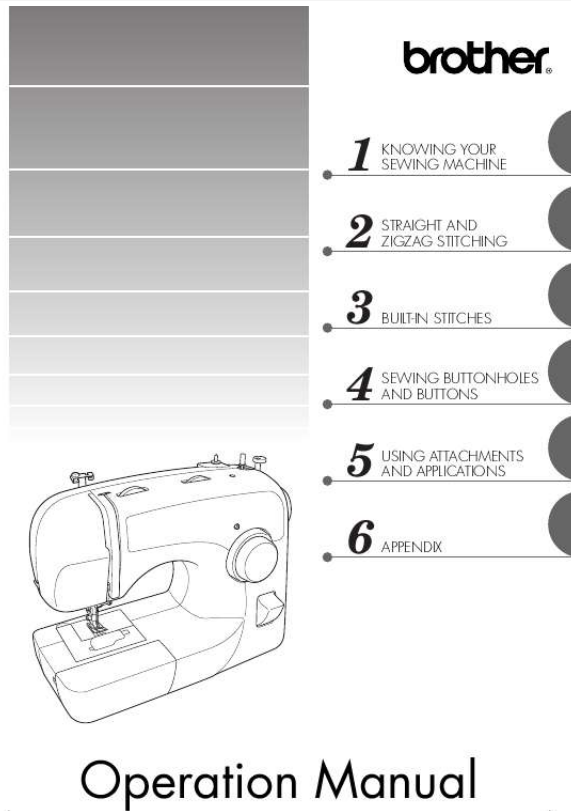




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for BROTHER XL-3600. You'll find the answers to all your questions on the BROTHER XL-3600 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BROTHER XL-3600
User guide BROTHER XL-3600
Operating instructions BROTHER XL-3600
Instructions for use BROTHER XL-3600
Instruction manual BROTHER XL-3600



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Manual abstract:

@@2. Always unplug the machine before you change the light bulb. @@Do not allow this machine to be used as a toy. @@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. @@5. Never drop or insert any object into any opening. 6. Do not use outdoors.

7. @@8. @@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. @@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. (For Australia and New Zealand only) 17. Young children should be supervised to ensure that they do not play with this machine. **SAVE THESE INSTRUCTIONS** This machine is intended for household use. **FOR USERS IN THE UK, EIRE, MALTA AND CYPRUS ONLY** If this machine is fitted with a three-pin non-rewireable BS plug then please read the following.

IMPORTANT If the available socket outlet is not suitable for the plug supplied with this equipment, it should be cut off and an appropriate three pin plug fitted. With alternative plugs an approved fuse must be fitted in the plug. **NOTE:** The plug severed from the main leads 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. **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 coloured in accordance with the following code: Blue Brown Neutral Live As the colours of the wiring in the main lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown. 1

UNPACKING/REPACKING INSTRUCTIONS Keep the carton and packing materials. You may have to take or send the machine to be repaired. If you do not pack it properly, or do not use the right packing material, the machine could be damaged. Please follow the diagram below to unpack and repack the machine. **IMPORTANT** This packing material is designed to prevent damage. Save this packing material if you need to take or send this machine to be repaired. **PLEASE READ THESE INSTRUCTIONS BEFORE YOU USE THE MACHINE.** To use the machine safely 1. Make sure you watch the needle carefully while you are sewing.

Do not touch the handwheel, thread take-up lever, needle, or other moving parts. 2. Turn off the main power and unplug the cord in the following circumstances: · When you have stopped using the machine · When you are replacing or removing the needle or any other part · If there is a power failure while you are using the machine · If you are checking or cleaning 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. To give your machine a longer life 1. Do not store this machine in direct sunlight or in high humidity conditions. Do not use or store the machine near a heater, iron, halogen lamp or other hot objects.

2. Use only mild 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 this manual before you replace or fit presser feet, the needle, or any other parts to make sure you fit them correctly. To repair or adjust the machine If the machine breaks down or needs adjustment, first follow the troubleshooting table in the Appendix to inspect and adjust the machine yourself. If the problem is still there, consult your local authorized dealer. For additional product information and updates, visit our web site at www.brother.com. The contents of this manual and specifications of this product are subject to change without notice. 2 **CONTENTS** 1. **KNOWING YOUR SEWING**

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J Presser foot lever (Page 21) Uecking the Needle Correctly Put the flat side of the needle on a flat surface.

Check the needle from the top and the sides. Dispose of any bent needles safely. 1 Turn on (toward the 'I' mark) 2 Turn off (toward the 'O' mark) 1 2 1 Parallel space 2 Level surface (bobbin cover, glass, etc.) Foot Controller When you press the foot controller down lightly, the machine will run at a low speed. When you press harder, the machine's speed will increase. When you take your foot off the foot controller, the machine will stop. You should make sure that nothing is placed on the foot controller when the machine is not in use. Replacing the Needle CAUTION Turn the main power switch off before 1 1 Foot controller CAUTION Do not allow pieces of cloth and dust to you change the needle. If you leave the main power on and step on the foot controller, the machine will start and you may be injured. Only use sewing machine needles for home use.

Other needles may bend or break and cause injury. Never sew with a bent needle. A bent needle will easily break and cause injury. 1 build up on the foot controller. Doing so could cause a fire or an electric shock. Remove the power supply plug from the outlet. Raise the needle to its highest position by turning Note (For U.S.A. only) Foot Controller: Model KD-1902 This foot controller can be used on the following machine models: XL-3500, XL-3500i XL-2600, XL-2600i XL-3510, XL-3510i XL-2610, XL-2610i XL-3520, XL-3520i XL-2620, XL-2620i 2 the handwheel toward you (counterclockwise) so that the mark on the handwheel points directly up.

3 Lower the presser foot lever. 1 1 Presser foot lever 8 4 use a coin or screwdriver to turn the needle Hold the needle with your left hand, and then clamp screw counterclockwise to remove the needle. CAUTION Make sure you insert the needle until it 1 Use a coin or screwdriver 2 Needle clamp screw touches the stopper, and securely tighten the needle clamp screw with a coin or screwdriver. If the needle is not fully inserted, or if the needle clamp screw is loose, the needle may break or the machine may be damaged. 1 Do not use excessive force when loosening or tightening the needle clamp screw, otherwise certain parts of the sewing machine may be damaged.

Changing the Presser Foot CAUTION Always turn off the power before you 5 back of the machine, insert the needle until it With the flat side of the needle toward the touches the needle stopper. Next, tighten the needle clamp using a coin or screwdriver. change the presser foot. If you leave the power on and step on the controller, the machine will start and you may be injured. Always use the correct presser foot for the stitch pattern you have chosen.

If you use the wrong presser foot, the needle may strike the presser foot and bend or break, and may cause injury. Only use presser feet that have been designed to be used with this machine. Using any other presser foot may cause accident or injury. You will have to change the presser foot depending on what you want to sew and how. Snap-on Type 1 Use a coin or screwdriver 2 Needle Stopper 3 Needle 1 turning the handwheel toward you Raise the needle to its highest position by (counterclockwise), and then raise the presser foot lever. Put the twin needle in the same way. 2 presser foot holder to release the presser foot. Press the black button at the back of the 1 Black button 2 Presser foot holder 3 Presser Foot 9 KNOWING YOUR SEWING MACHINE ----- 3 so that the bar on the presser foot is in line Put a different presser foot on the needle plate Flat Bed Attachment The accessories are stored in a compartment inside the flat bed attachment. 1 open it. with the slot on the shank.

Lower the presser foot lever and fix the 4 presser foot onto the shank. If the presser foot is in the correct place, the bar should snap in. Slide the flat bed attachment to the left to 1 1 Shank Presser Foot Installation Orientation 1 Flat bed attachment 2 Storage compartment 2 Note Put the accessories inside a bag, and then store the bag inside the compartment. If the accessories are not in a bag, they may fall out and be lost or damaged. Using a Free-arm Style Free-arm sewing is convenient for sewing tubular and hard-to-reach areas. To change your machine to the free-arm style, lift out the flat bed attachment. 1 release it. Slide the flat bed attachment to the left to 1 CAUTION If the presser foot is not installed with the 1 Flat bed attachment correct orientation, the needle may strike the presser foot, which may bend or break the needle and cause injury. 10 THE CONTROLS Pattern Selection Dial CAUTION When you use the pattern selection dial to choose a pattern, turn the handwheel toward you (counterclockwise) to set the needle in the highest position. If the needle is in the down position when you turn the pattern selection dial, the needle, presser foot or fabric may be damaged.

To choose a stitch, simply turn the pattern selection dial in either direction. The next section shows recommended stitch lengths and widths. 1 2 1 1 Pattern selection dial 2 Chosen pattern number 35 Stitches (only available on certain models) 25 Stitches 11 KNOWING YOUR SEWING MACHINE

----- Patterns and Stitch Names Pattern Stitç Name 35 Stitches 25 Stitches 1-STEP AUTOMATIC BUTTONHOLE STRAIGHT STITCH ZIGZAG STITCH BLIND HEM STITCH SHELL TUCK STITCH ELASTIC STITCH STRETCH BLIND HEM STITCH STRETCH BLIND HEM STITCH ELASTIC SHELL TUCK STITCH DOUBLE ACTION STITCH BRIDGING STITCH RAMPART STITCH TRIANGLE STITCH Recommended Width (mm (inch)) 3-5 (1/8 3/16) 0-5 (0-3/16) (Changes needle position) 0-5 (0-3/16) 3-5 (1/8-3/16) 3-5 (1/8-3/16) 3-5 (1/8-3/16) 3-5 (1/8-3/16) 3-5 (1/8-3/16) 3-5 (1/8-3/16) 0-5 (0-3/16) (Changes needle position) Recommended Length (mm (inch)) F- 1.5 (1/64-1/16) 1-4 (1/16-3/16) F-4 (1/64-3/16) F-2 (1/64-1/16) F-3 (1/64-1/8) F-2.5 (1/64-3/32) F-1.5 (1/64-1/16) F-1.5 (1/64-1/16) F-3 (1/64-1/8) F-3 (1/64-1/8) F-3 (1/64-1/8) F-3 (1/64-1/8) F- 1.5 (1/64-1/16) Fixed 2.5 (3/32)* Fixed 2.5 (3/32) Fixed 2.5 (3/32)* Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Instruction Manual Page 34 27, 37, 38, 41, 42, 43 28, 36, 39, 41 29 29 30 29 29 31 31 31 31 33 TRIPLE STRETCH STITCH 27 TRIPLE ZIGZAG STRETCH STITCH 3-5 (1/8-3/16) 32 STRETCH OVERLOCK STITCH 3-5 (1/8-3/16) 31 * The stitch can also be sewn when the stitch length dial is set to . 12 Pattern Stitç Name 35 Stitches 25 Stitches Recommended Width (mm (inch)) 3-5 (1/8-3/16) Recommended Length (mm (inch)) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.



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5 (3/32) Instruction Manual Page ELASTIC OVERLOCK STITCH 31 1 FEATHER STITCH 3-5 (1/8-3/16) 32 ARROWHEAD STITCH 3-5 (1/8-3/16) 31 ARROWHEAD STITCH 3-5 (1/8-3/16) 31 DECORATIVE STITCH 3-5 (1/8-3/16) 33 LEAF STITCH 3-5 (1/8-3/16) 33 TREE STITCH 3-5 (1/8-3/16) 33 LEGS STITCH 3-5 (1/8-3/16) 33 DECORATIVE STITCH 3-5 (1/8-3/16) 3-5 (1/8-13/64) 3-5 (1/8-13/64) 3-5 (1/8-13/64) 33 STRETCH OVERLOCK STITCH STRETCH OVERLOCK STITCH SMOCKING STITCH 33 33 31 13 KNOWING YOUR SEWING MACHINE

----- Pattern Stitch Name 35 Stitches 25 Stitches COMB STITCH COMB STITCH DECORATIVE STITCH FAGOTING STITCH DECORATIVE STITCH DECORATIVE HEM STITCH DECORATIVE STITCH Recommended Width (mm (inch)) 3-5 (1/8-3/16) 3-5 (1/8-3/16) 3-5 (1/8-3/16) 3-5 (1/8-13/64) 3-5 (1/8-3/16) 3-5 (1/8-3/16) 3-5 (1/8-3/16) Recommended Length (mm (inch)) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.

5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Instruction Manual Page 31 31 33 31 31 33 33 Stitch Length Dial Depending on the selected stitch, you may need to adjust the stitch length for best results. The numbers marked on the stitch length dial represent the stitch length in millimeters (mm) (1/25 inch). THE HIGHER THE NUMBER, THE LONGER THE STITCH. With the "0" setting, material is not fed. This is used when sewing a button. The "F" range is for making a satin stitch (close zigzag stitch), which is used for making buttonholes and decorative stitches. The position needed for making the satin stitch varies according to the material and thread being used. To determine the exact dial position, first test the stitch and length settings on a scrap piece of fabric to observe the feeding of the material.

2 1 3 1 CAUTION If the stitches are bunched together, lengthen the stitch length and continue sewing. Do not continue sewing without lengthening the stitch length, otherwise the needle may break and cause injury. 1 Stitch length dial 2 Shorter 3 Longer 14 Stretch Stitching Raise the needle to its highest position by turning the handwheel toward you (counterclockwise) so that the mark on the handwheel points directly up. 35 Stitches Selecting a Stretch Stitch Setting the stitch length dial to " " or " " changes the selected pattern to a stretch stitch. Stitch Width Dial Raise the needle to its highest position by turning the handwheel toward you (counterclockwise) so that the mark on the handwheel points directly up. The numbers marked on the dial represent the stitch width. THE HIGHER THE NUMBER, THE WIDER THE STITCH. 1 Note When the Straight or Triple Stretch Stitch is selected, the needle position can be changed from left to right by adjusting the stitch width dial. . 25 Stitches Selecting a Stretch Stitch Setting the stitch length dial to " " changes the selected pattern to a stretch stitch.

1 1 Stitch width dial Reverse Sewing Lever You can use reverse sewing for back tacking and reinforcing seams. To sew in reverse, push the reverse sewing lever in as far as possible and hold it in that position while you lightly push the foot controller. To sew forward, release the reverse sewing lever. The machine will then sew forward. 1 1 Reverse sewing lever 15 KNOWING YOUR SEWING MACHINE

----- THREADING THE MACHINE Winding the Bobbin CAUTION Only use bobbins (part code: SA156, SFB (XA5539-151)) that have been designed for this sewing machine.

Using other bobbins may cause damage to the machine. We designed the bobbin that comes with this machine. If you use bobbins from other models, the machine will not work properly. Only use the bobbin that comes with this machine or bobbins of the same type (part code: SA156, SFB (XA5539-151)). Actual size 11.

5 mm (7/16 inch) This model Other models 1 2 1 Pre-tension disk 2 Bobbin winder shaft 1 pass the thread around the pre-tension disk. Put the spool of thread on the spool pin and 2 the bobbin from the inside of the bobbin. Pass the end of the thread through the hole on CAUTION If the spool of thread is not in the right place, the thread may tangle on the spool pin. 16 3 and slide the bobbin winder shaft to the right. Put the bobbin onto the bobbin winder shaft 6 Press the foot controller to start. Turn the bobbin clockwise, by hand, until the spring on the shaft slides into the groove of the bobbin. 1 2 1 1 Spring on the shaft 2 Groove of the bobbin 7 spinning slowly, take your foot off the foot When the bobbin seems full and begins controller. Note Make sure that the thread between the spool and the bobbin is pulled tight. . 8 to the left and remove the bobbin.

Cut the thread, slide the bobbin winder shaft Note The needle bar does not move when you slide the bobbin winder shaft to the right. Immediately after winding the bobbin, it is normal to hear the sound of the clutch engaging when beginning to sew or turning the handwheel. 4 press the foot controller to wind the thread While holding the end of the thread, gently around the bobbin a few times. Then stop the machine. CAUTION Make sure you follow the instructions carefully. If you do not cut the excess thread completely before winding the bobbin, when the thread runs low it may tangle around the bobbin and cause the needle to break. 5 Trim the excess thread above the bobbin. CAUTION Not winding the bobbin properly may cause the thread tension to loosen, and may break the needle. 1 1 Wound evenly 2 Wound poorly 2 17 KNOWING YOUR SEWING MACHINE

----- 1 turning the handwheel toward you Raise the needle to its highest position by (counterclockwise) and raise the presser foot lever. Lower Threading · For more details on using the quick-set bobbin, see page 19.

CAUTION Not winding the bobbin properly may cause the thread tension to loosen, and may break the needle. 2 Slide the button and open the cover. 1 2 1 Cover 2 Slide button 3 the direction shown by the arrow. Put the bobbin in so the thread comes out in 1 1 Wound evenly 2 Wound poorly 2 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 enclosed bobbin or bobbins of the same type (part code: SA156, SFB (XA5539-151)). Actual size 11.5 mm (7/16 inch) This model Other models · Only use bobbins that were designed to be used with this machine.



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CAUTION Make sure you set the bobbin so the thread unrolls in the right direction. If the thread unrolls in the wrong direction, it may cause the thread tension to be incorrect or break the needle.

Make sure that the thread is correctly inserted through the tension-adjusting spring of the bobbin case. If it is not inserted, reinsert the thread. Threading the machine. If you accidentally step on the foot controller and the machine starts to sew, you could be injured. 1 Tension-adjusting spring 18 4 down with your finger, pass the thread. Hold the end of the thread, push the bobbin through the slit, and then pull out a short length of thread, as shown. Lower Threading (for models equipped with a quick-set bobbin) This feature is only available on certain models. CAUTION Winding the bobbin improperly may cause the thread tension to loosen, breaking the needle and resulting in injury. 1 5 place (see arrow 1), and then press lightly on Reattach the bobbin cover. Put the left tab in the right side (see arrow 2) until the cover clicks into place. 2 1 Wound evenly 2 Wound poorly 2 1 Replace the cover so that the end of the thread comes out from the left side of the cover (as shown by the line in the illustration).

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 enclosed bobbin or bobbins of the same type (part code: SA156, SFB (XA5539-151)). Actual size 11.5 mm (7/16 inch) This model Other models CAUTION Be sure to turn off the power. If you accidentally step on the foot controller and the machine begins to operate, injury could result. 19 KNOWING YOUR SEWING MACHINE ----- 1 Follow steps 1 and 2 from "Lower Threading". Put the bobbin in, feed the end of the thread 3 place (see arrow 1), and then press lightly on Reattach the bobbin cover. Put the left tab in the right side (see arrow 2) until the cover clicks into place. 2 through the slit, and then pull the thread to cut it.

2 1 Only use bobbins that were designed to be used with this machine. CAUTION Make sure you set the bobbin so the thread unrolls in the right direction. If the thread unrolls in the wrong direction, it may cause the thread tension to be incorrect or break the needle.

Check the table on page 26 for the appropriate needle and thread combinations. If you are using transparent nylon mono-filament thread, you can only use needles in the range of 90/14-100/16.

Other needles could break and damage the machine. Make sure that the needle does not strike the presser foot. Do not sew with bent needles. The needle could break and injure you. Thread the right needle.

Instead, thread the twin needle by hand, from front to back. Take care that the needle does not hit basting pins or other objects during sewing. The needle may break and you may be injured. Always use the correct presser foot. If you use the wrong presser foot, the needle may hit the presser foot and bend or break and you may be injured. When you turn the handwheel by hand, always turn it toward you (counterclockwise). Turning it the other way may cause the thread to tangle and damage the needle or fabric, and you may be injured. 4 position the needle 1 cm (3/8 inch) from the Put the fabric under the presser foot and edge of the fabric. Straight Stitch Stitch Name Pattern Stitch Stitch Length Width [mm (inch)] [mm (inch)] 1-4 (1/64-3/16) Fixed 2.5 (3/32) Fixed 2.

5 (3/32) 5-0* (3/16-0) 5 Lower the presser foot. To back tack, push down the reverse sewing Straight Stitch 6 lever as far as possible, and then press the foot controller to start reverse sewing. Release the foot controller to stop sewing. 7 sewing in the forward direction by pressing Triple Stretch Stitch Release the reverse sewing lever and start the foot controller. *Turn the stitch width dial to adjust the needle position. Setting the dial to 5 selects the left needle position; setting the dial to 0 selects the right needle position. Starting Sewing 1 stitch number you want. You also need to set Turn the pattern selection dial to choose the the pattern selection dial to the Straight Stitch or Triple Stretch Stitch. 2 the presser foot lever. 3 presser foot.

You can use reverse sewing for locking the end of seams and to strengthen a stitch. Raise the needle to its highest position and lift CAUTION Make sure the needle does not hit a pin Pull the upper thread though the toes of the or any other object during sewing. The thread could tangle or the needle could break, and you may be injured. 27 STRAIGHT AND ZIGZAG STITCHING ----- Changing Sewing Direction 1 to change direction with the needle still in the Stop the machine at the point where you want fabric. 4 pull about 10 cm (4 inch) of thread through To prepare the machine for the next seam, the toes of the presser foot toward the back of the machine.

Top Stitching and Stretch Materials You can use a straight stitch for top stitching and sewing lightweight fabrics. You can use a triple stretch stitch for sewing stretch fabrics. 2 new direction using the needle as a pivot. Raise the presser foot and turn the fabric to its Zigzag Stitching Stitch Name Pattern Stitch Length Width [mm (inch)] [mm (inch)] F-4 (1/64-3/16) 0-5 (0-3/16) Lower the presser foot and start sewing in the 3 new direction. Finishing Sewing You can use stitching to lock the threads at the end of the seam or to strengthen a stitch.

1 Zigzag Stitch Stitch to the end of the seam and stop. Push the reverse sewing lever and stitch the fabric. 2 backwards for 1 cm (3/8 inch) from the end of Zigzag Stitch Turn the pattern selection dial to the Zigzag Stitch, and then start sewing. Removing the Material from the Machine 1 Stop the machine. Raise the needle to its highest position and make sure that the thread take-up lever is also in its highest position. Lift the presser foot, raise the needle to its We recommend that you sew using the Straight Stitch at the beginning and end of zigzag stitches. (This acts as a reinforcement stitch.) 2 highest position, and then pull the fabric out gently to the left hand side. Raise the needle to its highest position and make sure that the thread take-up lever is also in its highest position. 3 left hand side of the machine.

Cut both threads with the thread cutter on the Satin Stitch Setting the Zigzag Stitch length in the "F" range produces a satin stitch (close zigzag stitch). The Satin Stitch can be used for making buttonholes and decorative stitches.



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Set the pattern selection dial to the Zigzag Stitch, set the stitch length in the "F" range, and set the stitch width dial between 0 and 5. 1 Thread cutter 28 3 BUILT-IN STITCHES 5 Blind Hem Stitch as shown in Fig. D. When the fabric is unfolded you will have a Blind Hem Stitching Stitch Name Blind Hem Stitch Stretch Blind Hem Stitch Stretch Blind Hem Stitch Stretch Pattern Length Width [mm (inch)] [mm (inch)] F-2 (1/64-1/16) F-1.5 (1/64-1/16) F-1.5 (1/64-1/16) 3-5 (1/8-3/16) 2 3 1 A 1 B 2 1 2 4 C 3-5 (1/8-3/16) D 2 1 3 You can use the Blind Hem Stitch to finish the edge of a project, like the hem of a pair of trousers, without the stitch showing. @@@@B. Leave a Fold back the hem, as shown in Fig.

A. @@@@Each is explained below. Set the pattern selection dial to the Elastic Stitch. @@@@The Overlock Stitches are also useful for sewing stretch materials while the Arrowhead Stitch is ideal for sewing the edge of a blanket. 1 stitch.

Feather Stitching Stitch Name Pattern Stitch Length Width [mm (inch)] [mm (inch)] Fixed 2.5 (3/32) Fixed 2.5 (3/32) 3-5 (1/8-3/16) Set the pattern selection dial to an overedge Feather Stitch 2 the seamline (or arrowhead point) is Put the fabric under the presser foot so that approximately 3 mm (1/8 inch) to the left of the center of the presser foot. This stitch works best with a seam allowance of approximately 5 mm (3/16 inch) as this allows the right (zigzag) side of the stitch to overlock the cut edge of the fabric. Use the Feather Stitch as a decorative top stitch when embroidering or when hemming blankets, tablecloths, or draperies.

1 Stitch. Set the pattern selection dial to the Feather Place the fabric right side up and sew 1 cm Trim close to the stitching. 2 (3/8 inch) from the edge of the fabric. 3 The stitch will prevent the fabric from unravelling. 3 pattern, trim away any excess fabric after If the seam allowance is wider than the stitch stitching. A finished Elastic Overlock Stitch is shown in the illustration below. Triple Zigzag Stretch Stitching Stitch Name Pattern Stitch Length Width [mm (inch)] [mm (inch)] Fixed 2.5 (3/32) Fixed 2.5 (3/32) 3-5 (1/8-3/16) Triple Zigzag Stretch Stitch This stitch can be used wherever a zigzag stitch would be used to sew heavyweight stretch fabrics. The Triple Zigzag Stretch Stitch can also be used as a decorative top stitch.

Set the pattern selection dial to the Triple Zigzag Stretch Stitch. 32 Decorative Stitching Stitch Name Pattern Stitch Length Width [mm (inch)] [mm (inch)] F-1.5 (1/64-1/16) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) Fixed 2.

5 (3/32) Fixed 2.5 (3/32) Fixed 2.5 (3/32) 3-5 (1/8-3/16) 3-5 (1/8-3/16) Triangle Stitch Decorative Stitch Leaf Stitch 3-5 (1/8-3/16) 3 Tree Stitch 3-5 (1/8-3/16) Legs Stitch 3-5 (1/8-3/16) Decorative Stitch Stretch Overlock Stitch Stretch Overlock Stitch Decorative Stitch Decorative Hem Stitch Decorative Stitch 3-5 (1/8-3/16) 3-5 (1/8-13/64) 3-5 (1/8-13/64) 3-5 (1/8-3/16) 3-5 (1/8-3/16) 3-5 (1/8-3/16) These stitches can be used for decorative top stitching and for smocking. Set the pattern selection dial to the Triangle Stitch, Leaf Stitch, etc. 33 SEWING BUTTONHOLES AND BUTTONS

4 SEWING BUTTONHOLES AND BUTTONS 4 Open the button plate and insert the button. Making a Buttonhole (1-Step Automatic Buttonhole) Pattern Stitch Length Width [mm (inch)] [mm (inch)] F-1.5 (1/64-1/16) 3-5 (1/8-3/16) Foot Buttonhole Foot Memo We recommend that you practice making a buttonhole on a scrap piece of fabric before you try it on an actual garment. When making buttonholes on soft fabrics, place a stabilizer material on the underside of the fabric. Making a buttonhole is a simple process that provides reliable results. Making a Buttonhole 1 length of the buttonhole on the fabric. 1 Starting mark on the fabric 2 Marks on the foot 3 Button plate 5 slightly. Lower the buttonhole lever and push it back Using tailor's chalk, mark the position and 1 6 the machine. While gently holding the upper thread, start 7 the order shown. The bar tacks of the buttonhole are sewn in 3 1 Marks on fabric 2 selection dial to "F". Attach the buttonhole foot and set the pattern 2 4 3 the presser foot to align the marks on the foot You need to sew the front bar tack first.

Lower 1 8 finished. with the mark on the fabric. Stop the machine when buttonhole stitching is 34 Making a Buttonhole on Stretch Fabrics When sewing buttonholes on stretch fabric, the buttonhole stitching is sewn over a gimp thread. Using tailor's chalk, mark the position of the 1 buttonhole on the fabric, and then attach the buttonhole foot and set the pattern selection dial to "F". Adjusting Buttonholes If the stitching on the two sides of the buttonhole is not the same, you can make the following adjustments. 1 and sew the buttonhole on a scrap piece of Set the stitch length dial between "F" and 1.5 fabric to observe how the material is fed. 1 2 or tight, adjust the feeding of the material If the right side of the buttonhole is too open with the stitch length dial. 1 1 Marks on fabric 2 the buttonhole foot, bring the two gimp Hook the gimp thread onto the back end of thread ends to the front of the foot, insert them into the grooves, and then temporarily tie them there. 4 2 3 3 the gimp thread.

4 Set the stitch width to match the diameter of Lower the presser foot and start sewing. Once sewing is completed, gently pull the trim off the excess. 1 Right side 2 Shorter 3 Longer 3 side, stitch the buttonhole and observe the 5 gimp thread to remove any slack, and then After obtaining a satisfactory feed on the right feeding. 35 SEWING BUTTONHOLES AND BUTTONS ----- 4 4 with the right side, adjust the buttonhole fine- If the left side is too open or tight compared Place the darning plate on the needle plate. adjustment screw as described below.

If the left side is too open, turn the buttonhole fine-adjustment screw with a large screwdriver in the direction. If the left side is too tight, turn the buttonhole fine-adjustment screw with a large screwdriver in the + direction. This adjustment ensures both sides of the buttonhole are the same. 2 1 3 5 Turn on the machine. Put a button between the foot and the fabric 6 and make sure that the needle enters the holes without hitting the button. If it hits, see step 1. 4 4 7 At a slow speed, sew about 10 stitches.



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1 2 3 4 Stitch length dial Buttonhole fine-adjustment screw Left side Buttonhole appearance Sewing Buttons Stitch Stitch Stitch Pattern Length Width Name [mm (inch)] [mm (inch)] Zigzag Stitch F (1/64) Any Foot Other 8 the upper and lower threads and tie both Remove the material from the machine. Cut threads at the back of the material. Button Sewing Darning Plate Foot 1 buttonholes and mark the fabric. Then set the Measure the distance between the pattern selection dial to the Zigzag Stitch, and set the width you want. 2 3 CAUTION Make sure the needle does not hit the Turn off the machine. Change the foot to the button sewing foot. button during sewing. The needle may break and you may be injured.

36 5 USING ATTACHMENTS AND APPLICATIONS 4 and place the zipper under the folded section. Fold the edge of the material 2 cm (3/4 inch) Zipper Insertion Stitch Name Straight Stitch Pattern Stitch Length Width [mm (inch)] [mm (inch)] 2-3 (1/16-1/8) 2.5 (center) (3/32) Foot Lower the needle into the notch located either on the left or right side of the zipper foot. CAUTION Zipper Foot Turn the handwheel by hand to make You can use the zipper foot to sew different types of zippers, and can easily position it to the right or left side of the needle. When sewing the right side of the zipper, attach the shank to the left pin of the zipper foot. When sewing the left side of the zipper, attach the shank to the right pin of the zipper foot. sure the needle does not hit the zipper foot before you start sewing. Choosing a different stitch will cause the needle to hit the presser foot and break, and you may be injured. 5 top on both sides. The needle should be Sew from the bottom of the zipper toward the positioned on the zipper side of the foot for best results.

1 2 3 1 Zipper foot 2 Right pin for sewing the left side of the zipper 3 Left pin for sewing the right side of the zipper 1 foot. 5 Turn off the machine and raise the presser 6 turn the machine off and raise the presser foot 2 Stitch. Set the stitch length between 2 Set the pattern selection dial to the Straight (1/16 inch) and 3 (1/8 inch). Set the stitch width at 2.5 (3/32 inch) to move the needle into the correct position.

To sew the opposite side of the zipper, first 3 foot lever either on the left or right pin of the To attach the zipper foot, lower the presser zipper foot. lever. Release the zipper foot by pressing the button located at the back of the foot, then fit the foot on the other side of the zipper. Continue sewing using the pin on that side of the zipper foot. CAUTION Make sure the needle does not hit the zipper during sewing.

If the needle hits the zipper, the needle may break and you may be injured. 37 USING ATTACHMENTS AND APPLICATIONS

----- Gathering Stitch Name Pattern Stitch Length [mm (inch)] 4 (3/16) Darning Stitch Name Straight Stitch Pattern Stitch Length [mm (inch)] Any Foot Other Straight Stitch Zigzag Presser Darning Plate Foot 1 Stitch. Set the pattern selection dial to Straight 1 Place the darning plate on the needle plate, Turn off the machine. then turn on the machine. Loosen the tension of the upper thread so that 2 the lower thread lies on the underside of the material. 3 stitches. 4 Sew a single row (or many rows) of straight Pull the lower threads to gather the material. 2 Stitch. Set the pattern selection dial to the Straight 3 presser foot together with fabric for Put the section you want to darn under the reinforcement. 4 Lower the presser foot.

Begin sewing by alternating between gently it toward you. 5 drawing the work away from you and pulling 6 filled with parallel lines of stitching. Repeat this motion until the darn section is 38 Appliqués Stich Name Pattern Zigzag Stich Stich Length Stich Width [mm (inch)] [mm (inch)] F-2 (1/64-1/16) Any Monogramming and Embroidering Stich Name Zigzag Stich Stich Length Pattern [mm (inch)] Any Stich Width Foot [mm (inch)] Any None Other You can create an applique by cutting a different piece of fabric into a shape and using it as a decoration. 1 Darning Plate Baste the cut design to the fabric.

Preparing for Monogramming and Embroidering 1 Place the darning plate on the needle plate, Carefully sew around the edge of the design 2 with a zigzag stitch. Turn off the machine. then turn on the machine. 2 3 stitching. Set the pattern selection dial to Zigzag Stitch. Cut away any fabric that is left outside the Draw the lettering (for monogramming) or 3 design (for embroidering) on the surface of the fabric.

4 as firmly as possible, with the underside of the 5 Stretch the fabric between embroidery hoops fabric on the bottom of the inside hoop. 5 presser bar with the foot removed. Put the work under the needle and lower the 4 Remove the basting, if necessary. 6 position by turning the handwheel and make a Pull the lower thread up through the starting few holding stitches. Memo Make reinforcing straight stitches at the beginning and the end of the zigzag stitching.

CAUTION Be careful that the needle does not hit a pin during sewing. The needle could break, and you may be injured. 39 USING ATTACHMENTS AND APPLICATIONS ----- 7 forefingers while pressing the fabric with your Grip the hoop with your thumbs and Embroidering 1 embroidery hoop. middle and third fingers and supporting the outside of the hoop with your little fingers. Stitch the outline of the design by moving the CAUTION Keep fingers away from moving parts, 2 of the design to the inside and from the inside Fill in the design alternating from the outline to the edge of the outline until the design is completely filled in.

Keep the stitching close together. especially needles. Monogramming 1 lettering at a constant speed. 2 of the last letter. Sew by moving the hoop slowly along the Secure with a few straight stitches at the end Memo You can make long stitches by moving the embroidery hoop rapidly and short stitches by moving it slowly. 3 of the design. Secure with a few straight stitches at the end CAUTION Keep fingers away from moving parts, especially needles. CAUTION Keep fingers away from moving parts, especially needles. 40 OPTIONAL ACCESSORIES Using the Walking Foot Stich Name Stich Stich Pattern Length Width [mm (inch)] [mm (inch)] 1-4 (1/16-3/16) 1-4 (1/16-3/16) 2-3 (1/16-1/8) 0-5 (0-3/16) 4 lever to the needle clamp, and fit the walking Attach the forked section of the connecting foot to the presser bar. 1 Straight Stitch Zigzag Stich 2 This foot is very useful for sewing materials such as vinyl cloth, synthetic leather, thin leather, etc.



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These materials are difficult to feed when sewing. The walking foot prevents these materials from crumpling, slipping or sticking between the presser foot and the material. 3 Note Only use the walking foot with straight or zigzag stitches. Do not use other patterns. Reverse stitches can not be sewn with the walking foot. 1 Forked part of operation lever 2 Presser bar holder 3 Needle clamp 5 the presser foot screw. 5 1 2 Turn off the machine. Raise the needle and the presser foot. Loosen the presser foot screw to remove the Lower the presser foot lever and then tighten 3 presser foot holder. 2 3 1 1 Use a coin or screwdriver 2 Presser foot holder 3 Presser foot screw 1 Presser foot screw 1 41 USING ATTACHMENTS AND APPLICATIONS

4 A shown in the illustration is above the Attach the quilting foot, making sure that part needle clamp screw.

Then lower the presser foot lever and tighten the presser foot screw. · Make sure that the needle clamp screw is firmly tightened. CAUTION Use a coin or screwdriver to tighten the screw securely. If the screw is loose, the needle may hit the presser foot and you may be injured. Before you start sewing, make sure you turn the handwheel toward you (counterclockwise) to check that the needle does not hit the presser foot.

Be careful not to touch the needle, otherwise you may be injured. A 1 2 Note When sewing with the walking foot, sew at medium to low speeds. 1 Presser foot screw 2 Needle clamp screw CAUTION Using the Quilting Foot Stitch Name Straight Stitch Stitch Width Pattern Length [mm (inch)] [mm (inch)] Any 2.5 (3/32) Other Darning Plate Be careful not to touch the needle, otherwise you may be injured. Use a coin or screwdriver to tighten the The Quilting Foot is useful for darning and free-motion machine quilting.

1 2 presser foot holder screw securely. If the screw is loose, the needle may hit the presser foot and you may be injured. Before you start sewing, make sure you turn the handwheel toward you (counterclockwise) to check that the needle does not hit the presser foot. 5 Turn on the machine. Turn off the machine. Raise the needle and the presser foot. Loosen the presser foot screw to remove the Put the darning plate on the needle plate. 3 presser foot holder. 2 3 1 1 Use a coin or screwdriver 2 Presser foot holder 3 Presser foot screw 6 Stitch. Set the pattern selection dial to the Straight · Before starting to sew, draw the quilting design on the fabric.

4 2 7 stretched and move the fabric to sew over the Use both hands to keep the fabric firmly drawn design. 3 Turn on the machine. Attach the 1/4-inch Quilting Foot. 4 sew as shown in the illustration below. Position the presser foot over the fabric and 1 Achieving an Accurate Seam Allowance 1 2 1 Quilting design 8 quickly you move the fabric and on the The length of the stitch depends on how machine's sewing speed. Sew while moving the fabric slowly. 3 4 1 2 3 4 Beginning of stitching Align this mark with the edge of the fabric. End of stitching Align this mark with the edge of the fabric. Using the 1/4-inch Quilting Foot

Stitch Name Pattern Stitch Stitch Length Width [mm (inch)] [mm (inch)] 2-2.5 2.

5 (center) (1/16-3/32) (3/32) Stitching the Top of a Quilt 1 Straight Stitch 5 You can use the 1/4-inch Quilting Foot to sew seams when piecing together a quilt. 2 1 Top of fabric 2 Seam 3.2 mm (1/8 inch) 1 1 Seam allowance 6.5 mm (1/4 inch) 1 Turn off the machine. Set the pattern selection dial to the Straight

(1/16 inch) and 2. 5 (3/32 inch). Set the stitch width at 2.5 (3/32 inch) (center). 2 Stitch. Set the stitch length between 2 43 APPENDIX

6 APPENDIX MAINTENANCE Changing the Light Bulb CAUTION

Turn off the main power switch and 4 Put the light cover back on and fasten the screw.

unplug the machine before you change the light bulb. If the main power switch is on when you change the light bulb, you may get an electric shock. If the machine is on and you step on the foot controller, you may be injured. To avoid burns, let the light bulb cool down before you change it. Remove the power supply plug from the 1 outlet. 2 head. Then remove the light cover from the Cleaning CAUTION Make sure you unplug the machine before you clean it, otherwise you risk getting an electric shock or being injured. 1 2 Loosen the screw on the back of the sewing Switch the machine off and unplug it. Raise the needle and the presser foot. Loosen the presser foot screw and the needle holder and the needle.

machine. 3 clamp screw to remove the presser foot 3 Replace the sewing light bulb. 4 and then slide it toward you to remove the 1 2 3 Grasp both sides of the needle plate cover, needle plate cover. 1 Bulb 2 Loosen 3 Tighten 1 Needle plate cover 1 44 5 Lift up the needle plate as shown in the Using a coin, remove the two screws. 8 on the bobbin case aligns with the spring. Insert the bobbin case so that the projection illustration, and then slide the needle plate to the left to remove it. 1 Use a coin or screwdriver Grasp the bobbin case, and then lift it out to 6 the left. 1 Projection 2 Spring 9 to secure it, and then tighten the screws. Install the needle plate, sliding it to the right Make sure that the tab on the left side of the needle plate is aligned with the notch in the bobbin case. 3 7

remove any dust from the race and its Use the cleaning brush or a vacuum cleaner to surrounding area.

1 Tab 2 Notch 3 Screws 0 Insert the tabs on the needle plate cover into 6 Install the needle plate cover. the notches in the needle plate, and then slide the cover back into position. CAUTION Never use a bobbin case that is 1 Cleaning brush 2 Race · Do not apply oil to the bobbin case. scratched; otherwise the upper thread may become tangled, the needle may break, or sewing performance may suffer. For a new bobbin case (part code: XC8993-021), contact your nearest authorized service center.

Make sure that you fit the bobbin case properly, otherwise the needle may break. 45 APPENDIX

----- Troubleshooting If the machine stops working properly, check the following possible problems. If the problem is still there, contact your retailer or the nearest authorized service center. Symptom Possible cause The machine is not plugged in. The sewing machine does not work.

The bobbin-winder shaft is pushed to the right. You have not used the foot controller properly. The needle is not fitted properly. The needle clamp screw is loose. The needle is bent or blunt. You have not used the right combination of fabric, thread and needle.



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The presser foot you are using is not appropriate for the type of stitch that you want to sew. You are pulling the fabric too much. You have not fitted the spool properly. How to put it right Plug the machine in.

Move the bobbin-winder shaft to the left. Use the foot controller properly. Fit the needle properly. Use a coin or screwdriver to firmly tighten the screw. Replace the needle. Choose a thread and needle that are appropriate for the type of fabric. Attach the presser foot that is correct for the type of stitch that you want to sew. Lightly guide the fabric. Fit the spool properly. Reference page 7 page 8 page 17 page 8 page 8 page 9 page 8 page 26 The main power switch is turned off.

Turn on the main power switch. page 25 The upper thread tension is too tight. Loosen the upper thread tension. The needle breaks. page 21, 25 The area around the hole in the nee- Replace the needle plate.

Contact your retailer or the nearest dle plate is scratched. authorized service center. The area around the hole in the presser foot is scratched. The bobbin case is scratched. You have not used a bobbin that has been designed for this machine.

You have not threaded the upper thread properly. (For example, you have not fitted the spool properly, or the thread has come out of the guide above the needle.) There are knots or tangles in the thread. The upper thread breaks. The needle is not appropriate for the thread you are using. Replace the presser foot. Contact your retailer or the nearest authorized service center. Replace the bobbin case. Contact your retailer or the nearest authorized service center. Incorrect bobbins will not work properly.

Only use a bobbin that has been designed for this machine. page 16 Correct the upper threading. page 21 Remove any knots or tangles. Choose a needle that is appropriate for the type of stitch. Remove the tangled thread. If the thread is tangled in the bobbin case, clean the bobbin case. Replace the needle.

Insert the needle properly. page 26 page 25 page 44 page 8 page 9 The upper-thread tension is too tight. Loosen the upper thread tension.

The thread is tangled. The needle is bent or blunt. You have not inserted the needle properly. 46 Symptom Possible cause How to put it right Reference The area around the hole in the nee- Replace the needle plate. Contact your retailer or the nearest dle plate is scratched.

authorized service center. The area around the hole in the presser foot is scratched. The bobbin case is scratched, or has a burr on it. You have not used a bobbin that has been designed for this machine. You have not wound the bobbin thread properly.

The bobbin is scratched or does not turn smoothly. The lower thread is tangled or breaks. The thread is tangled. You have not used a bobbin that has been designed for this machine. Bobbin is set incorrectly. You have not threaded the upper thread properly. You have not wound the bobbin thread properly. You have not threaded the right combination of thread and needle for the fabric you are using. The thread tension is incorrect. You have not attached the presser foot holder properly.

The thread tension is incorrect. You have not used a bobbin that has been designed for this machine. Bobbin is set incorrectly. You have not threaded the upper thread properly or fitted the bobbin properly. You have not fitted the spool properly. The fabric is wrinkled. You have not used the right combination of fabric, thread and needle. The needle is bent or blunt. If you are sewing thin fabric, the stitch is too thick. The thread tension is incorrect.

Replace the presser foot. Contact your retailer or the nearest authorized service center. Replace the bobbin case. Contact your retailer or the nearest authorized service center. Incorrect bobbins will not work properly.

Only use a bobbin that has been designed for this machine. Wind the bobbin properly. Replace the bobbin. Remove the tangled thread and clean the bobbin case. Incorrect bobbins will not work properly.

Only use a bobbin that has been designed for this machine. Reset the bobbin thread correctly. Correct the upper threading. Wind the bobbin thread properly.

Choose a thread and needle that are appropriate for the type of fabric. Attach the presser foot holder properly. Adjust the tension of the upper thread.

Incorrect bobbins will not work properly. Only use a bobbin that has been designed for this machine. Reset the bobbin thread correctly.

Thread the upper thread and wind the bobbin thread properly. Fit the spool properly. Choose a thread and needle that are appropriate for the type of fabric. Replace the needle. Sew with stabiliser material under the fabric. Adjust the tension of the upper thread. The upper thread breaks. page 16 page 16 page 44 page 16 page 18-20 page 21 page 16 page 26 page 25 page 16 page 18-20 page 18-22 page 21, 25 page 26 page 8 6 page 25 47 APPENDIX

----- Symptom Possible cause You have not threaded the upper thread properly. You have not used the right combination of fabric, thread and needle. How to put it right Correct the upper threading.

Choose a thread and needle that are appropriate for the type of fabric. Replace the needle. Insert the needle properly. Remove the needle plate cover and clean the plate and the bobbin case. Clean the bobbin case.

Correct the upper threading. Replace the bobbin case. Contact your retailer or the nearest authorized service center. Incorrect bobbins will not work properly. Only use a bobbin that has been designed for this machine.

Turn the handwheel toward you (counterclockwise) to raise the needle holder to the highest position. Insert the needle properly. Attach the presser foot that is correct for the type of stitch that you want to sew. Adjust the tension of the upper thread. Remove the tangled thread. If the thread is tangled in the bobbin case, clean the bobbin case. Lengthen the stitch length. Remove the darning plate. Choose a thread and needle that are appropriate for the type of fabric. Remove the tangled thread.

If the thread is tangled in the bobbin case, clean the bobbin case. Replace the sewing light bulb. Reference page 21 page 26 page 8 page 8 page 44 page 44 page 21 Stitches are skipped. The needle is bent or blunt. You have not inserted the needle properly. Dust has accumulated under the needle plate or in the bobbin case. Dust has built up in the feed dogs or in the bobbin case. You have not threaded the upper thread properly. The bobbin case is scratched. You have not used a bobbin that has been designed for this machine.

You have not moved the needle holder to its highest position. You have not inserted the needle properly. The presser foot that you are using is not correct for the type of stitch. There is a highpitched noise while sewing. page 16 The needle threader can not be used.

page 22 page 9 page 25 page 44 The stitch is not sewn correctly.



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...39 Needle threader

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... 22 O Overedge stitching

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.... 31 B Blind hem stitching .

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.....34 Buttonhole fine-adjustment screw

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.....36 Buttons sewing ..

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..36 P Pattern selection dial ...

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11 Patterns

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...12 Presser foot changing

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