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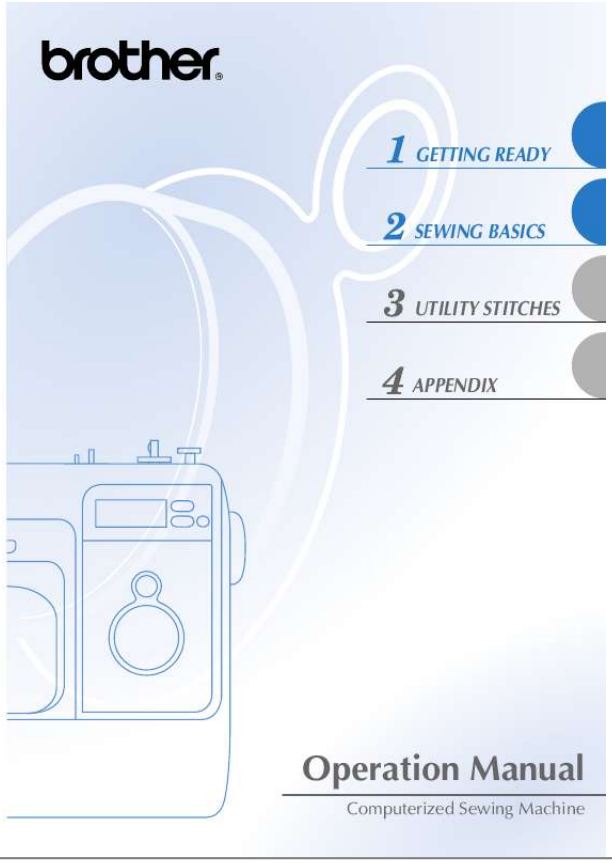
You can read the recommendations in the user guide, the technical guide or the installation guide for BROTHER INNOV-IS 10. You'll find the answers to all your questions on the BROTHER INNOV-IS 10 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BROTHER INNOV-IS 10
User guide BROTHER INNOV-IS 10
Operating instructions BROTHER INNOV-IS 10
Instructions for use BROTHER INNOV-IS 10
Instruction manual BROTHER INNOV-IS 10



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Manual abstract:

· Plug the machine directly into the electrical outlet. Do not use an extension cord. @@@@While the machine is stored or in use if you notice anything unusual, such as an odor, heat, discoloration or deformation, stop using the machine immediately and unplug the power cord. When transporting the sewing machine, be sure to carry it by its handle. Lifting the sewing machine by any other part may damage the machine or result in the machine falling, which could cause injuries. When lifting the sewing machine, be careful not to make any sudden or careless movements, otherwise you may injure your back or knees. 1 4 Always keep your work area clear: · Never operate the machine with any air openings blocked. @@· Do not store objects on the foot controller. · Do not use extension cords. Plug the machine directly into the electrical outlet.

· Never drop or insert any object into any opening. @@@@@@Do not use bent or damaged needles. · Keep fingers away from all moving parts. Special care is required around the machine needle. · Switch the sewing machine to the symbol "O" position to turn it off when making any adjustments in the needle area. · Do not use a damaged or incorrect needle plate, as it could cause the needle to break. · Do not push or pull the fabric when sewing, and follow careful instruction when freehand stitching so that you do not deflect the needle and cause it to break. 6 This machine is not a toy: · Your close attention is necessary when the machine is used by or near children. · The plastic bag that this sewing machine was supplied in should be kept out of the reach of children or disposed of. Never allow children to play with the bag due to the danger of suffocation.

· Do not use outdoors. 7 For a longer service life: · When storing this machine, avoid direct sunlight and high humidity locations. Do not use or store the machine near a space heater, iron, halogen lamp, or other hot objects. · Use only neutral soaps or detergents to clean the case. Benzene, thinner, and scouring powders can damage the case and machine, and should never be used. · Always consult the operation manual when replacing or installing any assemblies, the presser feet, needle, or other parts to assure correct installation. 2 8 For repair or adjustment: · If the Light unit (light-emitting diode) is damaged, it must be replaced by authorized dealer. · In the event a malfunction occurs or adjustment is required, first follow the troubleshooting table in the back of the operation manual to inspect and adjust the machine yourself. If the problem persists, please consult your local authorized Brother dealer. Use this machine only for its intended use as described in this manual.

Use accessories recommended by the manufacturer as contained in this manual. Save these instructions. The contents of this manual and specifications of this product are subject to change without notice. For additional product information, visit our web site at www.brother.com 3 FOR USERS IN THE UK, EIRE, MALTA AND CYPRUS ONLY IMPORTANT · In the event of replacing the plug fuse, use a fuse approved by ASTA to BS 1362, i.e. carrying the mark, rating as marked on plug. · Always replace the fuse cover. Never use plugs with the fuse cover omitted.

· If the available electrical outlet is not suitable for the plug supplied with this equipment, you should contact your authorized dealer to obtain the correct lead. FOR USERS IN AUSTRALIA AND NEW ZEALAND This sewing machine is not intended to be used by young children, and assistance may be required if used by a person with a disability. 4 5 ---------- Contents Important Safety Instructions ...

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..... 81 Clean to clean the bobbin case and race. g Feed dogs The feed dogs feed the fabric. h Quick-set bobbin Begin sewing without pulling up the bobbin thread. i Bobbin cover Remove the bobbin cover and then insert the bobbin into the bobbin case.
j Needle plate The needle plate is marked with guides to help sew straight seams. k Needle bar thread guide Pass the upper thread through the needle bar thread guide. l Presser foot lever Raise and lower this lever to raise and lower the presser foot. m Needle clamp screw Use the needle clamp screw to hold the needle in place. a Needle threader lever Use the needle threader to thread the needle.
b Buttonhole lever Lower the buttonhole lever when sewing buttonholes and bar tacks. Operation buttons The operation buttons help you to easily perform various basic sewing machine operations. a Start/stop button Press the start/stop button to start or stop sewing. The machine sews at a low speed at the beginning of sewing while the button is continuously pressed. When sewing is stopped, the needle is lowered into the fabric.
For details, refer to "Starting to sew" (page 42). b Reverse/reinforcement stitch button Press the reverse/reinforcement stitch button to sew reverse stitches or reinforcement stitches. Reverse stitches are sewn by keeping the button pressed down to sew in the opposite direction. Reinforcement stitches are sewn by sewing 3 to 5 stitches on top of each other. For details, refer to"Securing the stitching" (page 44). c Needle position button Press the needle position button to raise or lower the needle.

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Pressing the button twice sews one stitch. d Sewing speed controller Slide the sewing speed controller to the left or right to adjust the sewing speed. Slide the sewing speed controller to the left to reduce the sewing speed, or slide the speed controller to the right to increase the sewing speed. 9 Operation panel The operation panel, located on the front of the sewing machine, allows you to select a stitch and specify how the stitch will be sewn.

Flat bed attachment The accessories are stored in the storage space in the flat bed attachment. a toward you to open the storage space. Swing the lid of the flat bed attachment a LCD (liquid crystal display) Error messages (1), the stitch length (mm) (2), and the stitch width (mm) (3) are displayed here. b Stitch length key (page 40) Use to adjust the length of the stitch. (Press the "" side for a shorter stitch length, or press the "+" side for a longer stitch length.) c Stitch width key (page 41) Use to adjust the width of the stitch. (Press the "" side for a more narrow stitch width, or press the "+" side for a wider stitch width.) d Automatic reverse/reinforcement stitch key (page 46) The sewing machine can be set to automatically sew reverse or reinforcement stitches at the beginning and end of the stitching. a b a Flat bed attachment b Accessory compartment The bag of accessories is in the storage space. Note Place the accessories in the bag before storing them in the flat bed attachment.
If the accessories are not placed in the accessory bag when stored in the flat bed attachment, accessories may fall out and be lost or damaged. 10 Accessories After opening the box, check that the following accessories are included. If any item is missing or damaged, contact your dealer. Included accessories The following items should also be included in the box. Note (For U.
S.A. only) Foot controller: Model T This foot controller can be used on this machine model NV10. The screw for the presser foot holder is available through your authorized dealer. (Part code: XA4813-051) 1.
2. 3. 4. 5. 6. 7. 8. 9. 10. 11.*

12. 13. 14. 15. 16. 17. 18. 19. 20. 21.
*22. 23. * 75/11 1 needle 90/14 1 needle 100/16 1 needle Part Code No. 1 2 3 4 5 6 7 8 9 10 11 12 Part Name Buttonhole foot "A" Overcasting foot "G" 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 Screwdriver (large) U.S.*
A./ Canada Others XC2691-033 XC3098-031 X59370-021 XC3021-051 X56409-051 130489-001 X54243-051 SA156 SFB (XA5539-151) XC8834-021 X59296-121 X59476-021 XC8349-021 No. 13 14 15 16 17 18 19 20 21 22 23 Part Name Spool cap (large) Spool cap (medium) Spool cap (small) Extra spool pin Spool net Foot controller Operation manual Quick reference guide Accessory bag Disc-shaped screwdriver Soft case U.S.A.
/ Canada Part Code Others 130012-054 XE1372-001 130013-154 XE2241-001 XA5523-020 XD0501-021 (EU area) XC8816-021 (other area) XE2430-001 XE2429-001 XC4487-021 XC1074-051 XC1103-022 11 Optional accessories The following are available as optional accessories. 1. 2. 3. 4. 5. 6. 7. 8. 9.

10. 11. Part Code No. 1 2 3 4 5 6 Part Name Side cutter U.S.A./ Canada Others No. 7 8 9 Part Name Non stick foot Open toe foot Stitch guide foot "P" U.S.A. / Canada Part Code Others SA177 F054 (XC3879-002) F016N Quilting guide SA132 (XC2215-002) WT8 Wide table SA552 (XE2472-001) F033N Walking foot SA140 (XC2214-002) F005N Quilting foot SA129 (XC1948-002) F036N Adjustable zipper/piping foot SA161 (XC1970-002) 10 1/4 inch quilting foot 1/4 inch quilting foot with 11 guide SA114 F007N (XC1949-002) F027N SA147 (XC1964-002) F035N SA160 (XC1969-002) F001N SA125 (XC1944-052) F057 SA185 (XC7416-252) Memo To obtain optional accessories or parts, contact the nearest authorized dealership. All specifications are correct at the time of printing. The part codes are subject to change without notice. Visit your Brother dealer for a complete listing of optional accessories available for your machine. 12 1 GETTING READY Turning the Machine On/Off This section explains how to turn the sewing machine on and off.
1 Power supply precautions Be sure to observe the following precautions concerning the power supply. WARNING Use only regular household electricity for the power source. Using other power sources may result in fire, electric shock, or damage to the machine. Make sure that the plugs on the power cord are firmly inserted into the electrical outlet and the power supply jack on the machine. Do not insert the plug on the power cord into an electrical outlet that is in poor condition.
Turn off the main power and remove the plug in the following circumstances: · · · · · When you are away from the machine After using the machine When the power fails during use When the machine does not operate correctly due to a bad connection or a disconnection During electrical storms CAUTION Use only the power cord included with this machine. Do not use extension cords or multi-plug adapters with many other appliances plugged in to them. Fire or electric shock may result. Do not touch the plug with wet hands. Electric shock may result. When unplugging the machine, always turn off the main power first. Always grasp the plug to remove it from the outlet. Pulling on the cord may damage the cord, or lead to fire or electric shock. Do not allow the power cord to be cut, damaged, modified, forcefully bent, pulled, twisted, or bundled. Do not place heavy objects on the cord.

Do not subject the cord to heat. These things may damage the cord and cause fire or electric shock. If the cord or plug is damaged, take the machine to your authorized dealer for repairs before continuing use. Unplug the power cord if the machine is not to be used for a long period of time. Otherwise a fire may result. 13 GETTING READY ----------
---------- Turning on the machine Prepare the included power cord. a off (the main power switch is set to " Turning off the machine When you are finished using the sewing machine, turn it off. In addition, before transporting the sewing machine to another location, be sure to turn it off. a Make sure that the sewing machine is turned "), and then plug the power cord into the power supply jack on the right side of the machine. Make sure that the machine is not sewing.
Press the left side of the main power switch on "). Insert the plug of the power cord into a b household electrical outlet. b the right side of the machine (set it to " The sewing lamp and the LCD go off when the machine is turned off.

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c outlet. Unplug the power cord from the electrical Grasp the plug when unplugging the power cord.
a Main power switch b Power cord c on the right side of the machine (set it to "\"). Press the right side of the main power switch d supply jack. Unplug the power cord from the power Note If a power outage occurs while the sewing machine is being operated, turn off the sewing machine and unplug the power cord. When restarting the sewing machine, follow the necessary procedure to correctly operate the machine. (For U.
S.A. only) This appliance has a polarized plug (one blade wider than the other). To reduce the risk of electrical shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way. The sewing lamp and the LCD come on when the machine is turned on. 14 Preparing for Upper and Lower Threading Winding the bobbin Wind the thread onto the bobbin. 1 c a Hook of the bobbin-winding thread guide b Pretention disk c Bobbin winder shaft d Bobbin a b d CAUTION Only use the bobbin (part code: SA156, SFB(XA5539-151)) designed specifically for this sewing machine.

Use of any other bobbin may result in injuries or damage to the machine. The included bobbin was designed specifically for this sewing machine. If bobbins from other models are used, the machine will not operate correctly. Use only the included bobbin or bobbins of the same type (part code: SA156, SFB(XA5539-151)). a This model c b Other model c 11.5 mm (7/16 inch) (actual size) a b a Turn on the sewing machine. d spool cap. Swing up the spool pin, and then remove the a b Place the bobbin on the bobbin winder shaft b so that the spring on the shaft fits into the notch in the bobbin. a Spool pin b Spool cap e onto the spool pin. a Fully insert the spool of thread for the bobbin Slide the spool onto the pin so that the spool is horizontal and the thread unwinds to the front at the bottom.
b a Notch b Bobbin winder shaft spring c it snaps into place. Slide the bobbin winder shaft to the right until CAUTION If the spool is not positioned so that the thread unwinds correctly, the thread may become tangled around the spool pin. 15 GETTING READY

--- f With the slightly rounded side of the spool cap Slide the spool cap onto the spool pin. g pull the thread with your left hand, and then While holding the spool with your right hand, pass the thread under the thread guide. positioned toward the left, slide the spool cap onto the spool pin as far as possible to the right so that the spool is moved to the right end of the spool pin. Memo When sewing with fine, cross-wound thread, use the small spool cap, and leave a small space between the cap and the spool. 1 a Thread guide h from the back to the front. Pass the thread under the thread guide cover Hold the thread with your right hand so that there is no slack in the thread that is pulled out, and then pass the thread under the thread guide cover with your left hand. c b a a Spool cap (small) b Spool (cross-wound thread) c Space When using thread that winds off quickly, such as transparent nylon thread or metallic thread, place the spool net over the spool before placing the spool of thread onto the spool pin. If the spool net is too long, fold it to fit the size of the spool.
When the spool net is used, the tension of the upper thread will slightly increase. Be sure to check the thread tension. For details, refer to "Adjusting the thread tension" (page 47). a a Thread guide cover i hook of the bobbin-winding thread guide, and Pull the thread to the right, pass it under the then wind the thread counterclockwise between the discs, pulling it in as far as possible. 1 2 3 4 a b c d Spool net Spool Spool cap Spool pin a Hook of the bobbin-winding thread guide b Pretension disk 16 j that was passed through the bobbin-winding While using your left hand to hold the thread thread guide, use your right hand to wind the end of the thread clockwise around the bobbin five or six times. m Press (start/stop button) once. The bobbin starts spinning and the thread is wound around the bobbin. 1 k the bobbin winder seat, and then pull the Pass the end of the thread through the slit in thread to the right to cut it. a Start/stop button n press When the bobbin winding becomes slow, (start/stop button) once to stop the machine. a a Slit in bobbin winder seat (with built-in cutter) CAUTION When the bobbin winding becomes slow, stop the machine, otherwise the sewing machine may be damaged.

o to the left, and then remove the bobbin from The thread is cut to a suitable length. CAUTION Be sure to cut the thread as described. If the bobbin is wound without cutting the thread using the cutter built into the slit in the bobbin winder seat, the bobbin may not be wound correctly. In addition, the thread may become tangled in the bobbin or the needle may bend or break when the bobbin thread starts to run out. l to increase the bobbin winding speed and Cut the thread, slide the bobbin winder shaft the shaft. Slide the sewing speed controller to the right slide to left to decrease. Memo When the sewing machine is started or the handwheel is turned after winding the thread around the bobbin, the machine will make a clicking sound; this is not a malfunction. The needle cannot move (sewing is not possible) while the bobbin winder shaft is moved to the right. a Sewing speed controller 17 GETTING READY

--- b Turn off the sewing machine (set it to " "). Installing the bobbin Install the bobbin wound with thread.
CAUTION Use a bobbin that has been correctly wound, otherwise the needle may break or the thread tension will be incorrect. c cover to the right, and then remove the Slide the latch on the right side of the bobbin bobbin cover. a b The bobbin was designed specifically for this sewing machine. If bobbins from other models are used, the machine will not operate correctly. Use only the included bobbin or bobbins of the same type (part code: SA156, SFB(XA5539-151)).
a Bobbin cover b Latch d the thread unwinds to the left side, and then Insert the bobbin with your right hand so that pull the thread firmly under the tab with your left hand. c a b a This model b Other model c 11.5 mm (7/16 inch) (actual size) Before installing the bobbin or replacing the needle, be sure to turn off the sewing machine, otherwise injuries may occur if the start/stop button is accidentally pressed and the machine starts sewing.

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Press (needle position button) once or a twice to raise the needle, and then raise the presser foot lever. a a Tab CAUTION Be sure to hold down the bobbin with your finger and install the bobbin so that the thread unwinds in the correct direction, otherwise the needle may break or the thread tension will be incorrect.

a Needle position button 18 e hand, and guide the thread through the slot, Lightly hold down the bobbin with your right and then pull it toward you to cut it with the cutter. f Insert the tab in the lower-left corner of the Reattach the bobbin cover. bobbin cover (A), and then press down on the right side (B). B 1 a A b Memo a Slot b Cutter You can begin sewing without pulling up the bobbin thread. If you wish to pull up the bobbin thread before starting to sew, finish threading the machine, and then pull up the thread according to the procedure in "Pulling up the bobbin thread" (page 50). The cutter cuts the thread. · Make sure that the thread is correctly passed through the flat spring of the bobbin case. If it is not inserted correctly, reinstall the bobbin. a a Flat spring Memo The direction for feeding the bobbin thread is indicated by marks around the needle plate cover. Be sure to thread the machine as indicated.

19 GETTING READY ----------

---------- Threading the upper thread In this section, the procedures for installing the spool for the upper thread and threading the needle are described. a b a Spool pin b Mark on handwheel CAUTION When threading the machine, carefully follow the instructions. If the upper threading is not performed correctly, the thread may become tangled and the needle may bend or break. The needle threader can be used with sewing machine needles 75/11 through 100/16. Use appropriate thread and needle combinations. For details on appropriate needle and thread combinations, refer to "Needle types and their uses" (page 28). Thread with a thickness of 130/20 or thicker cannot be used with the needle threader. The needle threader cannot be used with the wing needle or the twin needle. If the needle threader cannot be used, refer to "Manually threading the needle" (page 24). a Turn on the sewing machine.

b Raise the presser foot lever. a a Presser foot lever CAUTION If the presser foot is not raised, the sewing machine cannot be threaded correctly. 20 c twice to raise the needle. Press (needle position button) once or e onto the spool pin Fully insert the spool for the upper thread Slide the spool onto the pin so that the spool is horizontal and the thread unwinds to the front at the bottom. 1 a Needle position button · If the needle is not correctly raised, the sewing machine cannot be threaded.

Check that the mark on the handwheel points up as shown in the illustration below. If the handwheel is not in this position, be sure to press the needle position button to raise the needle before continuing the procedure. CAUTION If the spool is not positioned so that the thread unwinds correctly, the thread may become tangled around the spool pin and the thread or needle may break. If the spool cap that is used is smaller than the spool, the thread may catch, for example, on the notch in the spool, or the needle may break. a a Mark on handwheel d spool cap.

Swing up the spool pin, and then remove the a b a Spool pin b Spool cap 21 GETTING READY

---------- f Slide the spool cap onto the spool pin. g pull the thread with your left hand, and then While holding the spool with your right hand, pass the thread under the thread guide. Memo When sewing with fine, cross-wound thread, use the small spool cap, and leave a small space between the cap and the spool. 1 c b a Thread guide h from the back to the front. Pass the thread under the thread guide cover Hold the thread with your right hand so that there is no slack in the thread that is pulled out, and then pass the thread under the thread guide cover with your left hand. a a Spool cap (small) b Spool (cross-wound thread) c Space When using thread that winds off quickly, such as transparent nylon thread or metallic thread, place the spool net over the spool before placing the spool of thread onto the spool pin. If the spool net is too long, fold it to fit the size of the spool. When the spool net is used, the tension of the upper thread will slightly increase. Be sure to check the thread tension. For details, refer to "Adjusting the thread tension" (page 47).

a a Thread guide cover i along the path indicated by the number on the Thread the machine by guiding the thread machine. 1 2 3 4 a b c d Spool net Spool Spool cap Spool pin 22 j from the right to the left. Slide the thread into the thread take-up lever m hook the thread onto the guide. While lowering the needle threader lever, a 1 a Thread take-up lever Memo If the needle is not raised, the thread takeup lever cannot be threaded. Be sure to press the needle position button to raise the needle before threading the thread take-up lever. k guide. Pass the thread behind the needle bar thread The thread can easily be passed behind the needle bar thread guide by holding the thread in your left hand, and pulling the thread into the guide from right to left. n a Needle threader b Thread c Guide Catch the thread on the hook as shown below. a a a Needle bar thread guide l a Needle threader lever o the end of the thread which passed through Raise the needle threader lever, and then pull the eye of the needle. Lower the presser foot lever.

a a Presser foot lever CAUTION Be careful not to pull on the thread with force or it may bend the needle. 23 GETTING READY

---------- p the thread through the presser foot, and then Raise the presser foot lever, pass the end of pull out about 5 cm (2 inches) of thread toward the rear of the machine. d Raise the presser foot lever. a a Presser foot lever a a 5 cm (2 inches) e foot, and then pull out about 5 cm (2 inches) Pass the end of the thread through the presser of thread toward the rear of the machine. The upper threading is finished.

Manually threading the needle If the needle threader cannot be used, thread the needle as described below.

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Thread the machine to the needle bar thread a guide, as described in steps a through k of "Threading the upper thread", and then lower the presser foot lever. b a a 5 cm (2 inches) Turn off the sewing machine. CAUTION Be sure to turn off the sewing machine, otherwise injuries may occur if the start/stop button is accidentally pressed and the machine starts sewing. c the needle from front to back.

Manually pass the thread through the eye of 24 Using the twin needle With the twin needle, you can sew two parallel lines of the same stitch with two different threads. Both upper threads should have the same thickness and quality. Be sure to use the twin needle and the extra spool pin. For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 79). c upper thread. Manually thread the left needle with the Pass the thread through the eye of the needle from the front to the back. 1 a a Twin needle b Extra spool pin b d bobbin winder shaft. Insert the extra spool pin onto the end of the a Bobbin winder shaft b Extra spool pin c Thread spool CAUTION Only use the twin needle (part code: X59296121). Use of any other needle may bend the needle or damage the machine. Never use bent needles.

Bent needles can easily break, possibly resulting in injuries. The needle threader cannot be used with the twin needle. If the needle threader is used with the twin needle, the sewing machine may be damaged. Select a stitch width of 5.0 mm (3/16 inch) or less, otherwise the needle may break or the machine may be damaged. After adjusting the stitch width, slowly turn the handwheel toward you (counterclockwise) and check that the needle does not touch the presser hoot. If the needle hits the presser foot, the needle may bend or break. a · For details on installing a needle, refer to e thread. Install the thread spool and thread the upper Memo When setting the thread spool, set it so that the thread winds off from the front of the spool. f the same way that the upper thread for the Thread the upper thread for the right side in left side was threaded.

1 Install the twin needle. "Replacing the needle" (page 29). b · For details, refer to steps Thread the upper thread for the left needle. a through j of "Threading the upper thread" (page 20). a Thread guide cover · For details, refer to step a through j of "Threading the upper thread" (page 20).

25 GETTING READY ---------- g needle bar thread guide, manually thread the Without passing the thread through the k · For details on starting to sew, refer to Start sewing. right needle. Pass the thread through the eye of the needle from the front to the back. "Starting to sew" (page 42). Two lines of stitching are sewn parallel to each other.

h · For details on changing the presser foot, refer Attach zigzag foot "J". to "Replacing the presser foot" (page 31). Note When using the twin needle, the stitches may become bunched together, depending on the types of thread and fabric that are used. If this occurs, increase the stitch length. For details on adjusting the stitch length, refer to "Adjusting the stitch length and width" (page 40). CAUTION When using the twin needle, be sure to attach zigzag foot "J", otherwise the needle may break or the machine may be damaged. i Turn on the sewing machine. CAUTION When changing the sewing direction, press (needle position button) to raise the needle from the fabric, and then raise the presser foot lever and turn the fabric. Otherwise the needle may break or the machine may be damaged. Do not try turning the fabric with the twin needle left down in the fabric, otherwise the needle may break or the machine may be damaged.

The LCD comes on. j · For details on selecting a stitch, refer to Select a stitch. "Selecting a stitch" (page 40). · For details on the stitches that can be sewn with the twin needle, refer to "Stitch Settings" (page 79). 26 Replacing the Needle This section provides information on sewing machine needles. Needle precautions Be sure to observe the following precautions concerning the handling of the needle. Failure to observe these precautions is extremely dangerous, for example, if the needle breaks and fragments are dispersed. Be sure to read and carefully follow the instructions below. 1 CAUTION Only use home sewing machine needles. Use of any other needle may bend the needle or damage the machine.

Never use bent needles. Bent needles can easily break, possibly resulting in injuries. 27 GETTING READY ---------- Needle types and their uses The sewing machine needle that should be used depends on the fabric and thread thickness. Refer to the following table when choosing the thread and needle appropriate for the fabric that you wish to sew. Thread Fabric Type/Application Type Broadcloth Medium weight fabrics Taffeta Flannel, Gabardine Lawn Thin fabrics Georgette Challis, Satin Denim Thick fabrics Corduroy Tweed Stretch fabrics Jersey Thread for knits Tricot Cotton thread 5080 Easily frayed fabrics Synthetic thread Silk thread Synthetic thread For top-stitching Silk thread 5060 90/14100/16 50 65/990/14 5060 Cotton thread 6080 Synthetic thread Silk thread Cotton thread 6080 Synthetic thread Silk thread Cotton thread Synthetic thread 5060 Silk thread Ball point needle (golden colored) 75/1190/14 50 3050 90/14100/16 65/975/11 50 75/11-90/14 Weight Size of Needle Memo The smaller the thread number, the thicker the thread, and the larger the needle number, the thicker the needle.

Use the ball point needle when sewing on stretch fabrics or fabrics where skipped stitches easily occur. Use a 90/14 to 100/16 needle with transparent nylon threads, regardless of the fabric being sewn. A 75/11 needle is already installed when the sewing machine is purchased. CAUTION The appropriate fabric, thread and needle combinations are shown in the table above. If the combination of the fabric, thread and needle is not correct, particularly when sewing thick fabrics (such as denim) with thin needles (such as 65/9 to 75/11), the needle may bend or break.

In addition, the stitching may be uneven or puckered or there may be skipped stitches. 28 Checking the needle Sewing with a bent needle is extremely dangerous since the needle may break while the machine is being operated.

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Before using the needle, place the flat side of the needle on a flat surface and check that the distance between the needle and the flat surface is even. Replacing the needle Replace the needle as described below. Use the screwdriver and a correct needle, as described in "Checking the needle". a twice to raise the needle. 1 Press (needle position button) once or a b a Needle position button b Turn off the sewing machine. a Flat side b Needle type marking a a Flat surface If the distance between the needle and the flat surface is not even, the needle is bent. Do not use a bent needle. CAUTION Before replacing the needle, be sure to turn off the sewing machine, otherwise injuries may occur if the start/stop button is accidentally pressed and the machine starts sewing.

c Lower the presser foot lever. a a Flat surface a a Presser foot lever CAUTION Before replacing the needle, place fabric or paper under the presser foot to prevent the needle from falling into the hole in the needle plate. 29 GETTING READY
---------- d the needle. Loosen the needle clamp screw and remove Hold the needle with your left hand, and then turn the screwdriver counterclockwise with your right hand. f tighten the needle clamp screw. While holding the needle with your left hand, Turn the screwdriver clockwise. a b Install the twin needle in the same way. a Needle clamp screw b Screwdriver · Do not apply extreme force when loosening or tightening the needle clamp screw, otherwise damage to the machine may result. CAUTION Be sure to insert the needle until it touches the needle stopper and securely tighten the needle clamp screw with the screwdriver, otherwise the needle may break or damage may result. e rear of the machine, insert the needle until it With the flat side of the needle toward the touches the needle stopper.
a a Needle stopper 30 Replacing the Presser Foot Presser foot precautions Be sure to observe the following precautions concerning the presser feet. 1 CAUTION Use the presser foot appropriate for the type of stitch that you wish to sew, otherwise the needle may hit the presser foot, causing the needle to bend or break. Only use presser feet designed specifically for this sewing machine. Use of any other presser foot may result in injuries or damage to the machine. Replacing the presser foot Replace the presser foot as described below.
a twice to raise the needle. c Raise the presser foot lever. Press (needle position button) once or a a Presser foot lever d presser foot holder to remove the presser foot. Press the black button at the back of the a Needle position button b Turn off the sewing machine. a b a Black button b Presser foot holder CAUTION Before replacing the presser foot, be sure to turn off the sewing machine, otherwise injuries may occur if the start/stop button is accidentally pressed and the machine starts sewing.
Make sure that the presser foot is installed in the correct direction, otherwise the needle may strike the presser foot, causing it to break and cause injuries. 31 GETTING READY ----------
---------- e holder so that the presser foot pin is aligned Place the presser foot to be installed below the with the notch in the holder. Position the presser foot so the letter indicating the presser foot type (J, A, etc.) is positioned to be read. g presser foot is securely attached. Raise the presser foot lever to check that the a b c a Presser foot holder b Notch c Pin Removing the presser foot holder Remove the presser foot holder when cleaning the sewing machine or when installing the optional walking foot. a · For details, refer to "Replacing the presser Memo The code for the presser foot to be used with each stitch appears in the pattern display window. For details on selecting a stitch, refer to "Selecting a stitch" (page 40). Slowly lower the presser foot lever so that the f presser foot pin snaps into the notch in the presser foot holder. a b c d Presser foot lever Presser foot holder Notch Pin Remove the presser foot.

foot" (page 31). b then remove the presser foot holder. Loosen the presser foot holder screw, and Turn the screwdriver counterclockwise. a b a b c a Screwdriver b Presser foot holder c Screw c d The presser foot is attached. 32 Attaching the presser foot holder Align the presser foot holder with the presser a bar. Using the optional walking foot With the optional walking foot, both pieces of fabric are fed evenly by the feed dogs and the teeth on the presser foot. This is useful when sewing fabrics that are hard to feed such as vinyl and leather and when sewing fabrics that easily slip such as velvets or when quilting. Use the screwdriver to attach the walking foot. 1 a b a Presser bar b Presser foot holder b right hand, and tighten the screw. Attaching the walking foot a · For details, refer to "Removing the presser Hold up the presser foot holder with your With your left hand, turn the screwdriver clockwise.
Remove the presser foot holder. foot holder" (page 32). b onto the needle clamp screw. Hook the connecting fork of the walking foot a b Note If the presser foot holder is not correctly installed, the thread tension will be incorrect. a Connecting fork b Needle clamp screw CAUTION Be sure to securely tighten the presser foot holder screw, otherwise the presser foot holder may fall off and the needle may strike it, causing the needle to bend or break.
33 GETTING READY ----------
---------- c foot holder screw, and then tighten the screw Lower the presser foot lever, insert the presser with the screwdriver. c Raise the presser foot lever. a a a Presser foot lever a Presser foot holder screw The presser foot is raised. d holder screw, and then remove the walking With a screwdriver, loosen the presser foot foot. CAUTION Be sure to securely tighten the screw with the screwdriver, otherwise the needle may touch the presser foot, causing it to bend or break.
Before starting to sew, slowly turn the handwheel toward you (counterclockwise) and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break. a a Presser foot holder screw Note When sewing with the walking foot, sew at a speed between slow and medium.

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e · For details, refer to "Removing the presser Attach the presser foot holder. @@@@@@@@@@@@@@@@@ Never use bent needles. Bent needles can easily break, possibly resulting in injuries. @@@@@@For details, refer to "Turning on the machine" (page 14). @@For details, refer to "Selecting a stitch" (page 40). @@@@ 4 Start sewing. Position the fabric, and then start sewing.

When sewing is finished, cut the threads. @@@@@@@@@@@@If the needle hits the presser foot, the needle may bend or break. If the stitches become bunched together, increase the stitch length. @@@@@@@@@@@@ When sewing is stopped, the needle remains lowered (in the fabric). @@@@@@@@@@For details, refer to "Stitch Settings" (page 79). 45 SEWING BASICS

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-- Cutting the thread a sewing machine is stopped, press When you wish to finish the stitching and the (needle position button) once to raise the needle. Automatically sewing reverse/ reinforcement stitches The sewing machine can be set to automatically sew reverse or reinforcement stitches at the beginning and end of the stitching. With straight stitches and zigzag stitches, reverse stitches, not reinforcement stitches, are automatically sewn. a · For details, refer to "Selecting a stitch" Select a stitch. (page 40).

a Needle position button The needle is raised. b b stitch key). Press (automatic reverse/reinforcement Raise the presser foot lever. a a Automatic reverse/reinforcement stitch key a appears in the LCD. · This step is not necessary if a stitch such as those for sewing buttonholes and bar tacks is selected where reinforcement stitches are automatically sewn.

· Press (automatic reverse/reinforcement stitch key) again to cancel automatic reverse/ reinforcement stitching. c turn the handwheel toward you to insert the a Presser foot lever c and then pass the threads through the thread Pull the fabric to the left side of the machine, cutter to cut them. Position the fabric under the presser foot, and needle into the fabric. a a Thread cutter d Press (start/stop button) once. a Start/stop button After reverse/reinforcement stitches are sewn, the machine starts sewing.

46 e the reverse/reinforcement stitch button once. After reaching the end of the stitching, press 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. a a Wrong side of fabric b Right side of fabric c Upper thread b d Bobbin thread a Reverse/reinforcement stitch button · This step is not necessary if a stitch such as those for sewing buttonholes and bar tacks is selected where reinforcement stitches are automatically sewn. 2 c d After reverse/reinforcement stitches are sewn, the sewing machine stops. Upper thread is too tight If the bobbin thread is visible from the right side of the fabric, the upper thread is too tight. a Wrong side of a fabric b Right side of fabric c Upper thread b d Bobbin thread e The bobbin thread e is visible from the c d right side of the fabric. Turn the thread tension dial to the left to loosen the upper thread. Memo Reverse/reinforcement stitches WILL NOT be sewn until (reverse/reinforcement stitch button) is pressed. (start/stop button) may be pressed to stop stitching when needed such as for pivoting corners.

Upper thread is too loose 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. If the thread and needle combination is correct for the type of fabric being sewn (according to "Needle types and their uses" (page 28)), 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 to increase or decrease the tension of the upper thread. If the upper thread is visible from the wrong side of the fabric, the upper thread is too loose. a Wrong side of e a fabric b Right side of fabric c Upper thread b d Bobbin thread e The upper thread is visible from the c d wrong side of the fabric. Turn the thread tension dial to the right to tighten the upper thread. 47 SEWING BASICS

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-- Useful Sewing Tips Various ways to achieve better sewing results are described below. Refer to these tips when sewing. Trial sewing After a stitch is selected, the machine automatically sets the stitch width and length for the stitch that was 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 fabric layers 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. 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 a sewing machine.

When 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). Sewing thick fabrics Raise the presser foot lever, and then turn the b fabric. Turn the fabric using the needle as a pivot. If the fabric does not fit under the presser foot Raise the presser foot even higher to bring the presser foot to its highest position.

(At this time, the presser foot lever is not secured.) c sewing. Lower the presser foot lever and continue CAUTION The thickness of fabric differs depending on the fabric type. If the fabric is forcefully pushed, the needle may break or bend. a a Presser foot lever 48 If thick seams are being sewn and the fabric does not feed at the beginning of stitching Zigzag foot "J" is equipped with a feature that keeps the presser foot level. Sewing thin fabrics When sewing thin fabrics, the stitching may become misaligned or the fabric may not feed correctly. @@@@@@@@@@@@@@@@@@@@@@@With the pattern selection dial, select or .

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Turn on the machine. With the pattern selection dial, select or . c · For details, refer to "Replacing the presser Attach zigzag foot "J".

foot" (page 31). c · For details, refer to "Replacing the presser Attach overcasting foot "G". foot" (page 31). d needle dropping off the edge at the right. Sew along the edge of the fabric with the d against the guide of the presser foot, and then Position the fabric with the edge of the fabric lower the presser foot lever. a a a a a Needle drop point a Presser foot guide e check that the needle does not touch the CAUTION After adjusting the stitch width, slowly turn the handwheel toward you and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break. Slowly turn the handwheel toward you and presser foot. f presser foot guide. Sew with the edge of the fabric against the a a Needle drop point 52 Basic Stitching Straight stitches are used for sewing plain seams.

Three stitches are available for basic stitching. Presser Foot Pattern Stitch Width [mm (inch)] Application Auto Manual Auto Manual Stitch Length [mm (inch)] Twin Needle Stitch Name Walking Foot Reverse/ Reinforcement Stitching Straight stitch Left Basic stitching, J sewing gathers or pintucks, etc. Attaching zippers, basic stitching, and J sewing gathers or pintucks, etc. Attaching sleeves, sewing inseams, J sewing stretch fabrics and decorative stitching 0.0 (0) 0.

07.0 (01/4) 2.5 0.25.0 *1 No (3/32) (1/643/16) Yes Reverse Center 2.

5 0.25.0 Yes *1 (3/32) (1/643/16) (J) Yes Reverse Triple stretch stitch 0.0 (0) 0.07.0 (01/4) 2.5 1.54.0 No No Reinforcement (3/32) (1/163/16) 3 *1Do not use reverse stitching. @@ CAUTION Before replacing the presser foot, be sure to turn off the sewing machine, otherwise injuries may occur if a button is accidentally pressed and the machine starts sewing.

a b c Baste or pin together the fabric pieces. Turn on the machine. With the pattern selection dial, select , or . h When sewing is finished, cut the thread. Changing the needle position The needle position can be adjusted with the straight stitch (left needle position) and the triple stretch stitch by adjusting the stitch width. Press the "" side of the stitch width key for a left needle position, or press the "+" side for a right needle position. d · For details, refer to "Replacing the presser Attach zigzag foot "J". foot" (page 31). e needle into the fabric 3 to 5 stitch lengths in If reverse stitches are to be sewn, lower the a b front of the point where the stitching will begin, and then sew the reverse stitches. · For details, refer to "Securing the stitching" (page 44).

f · For details, refer to "Starting to sew" Start sewing. (page 42). c a b c d d If reverse stitches are to be sewn at the end of g stitching, sew 3 to 5 reverse stitches. · For details, refer to "Securing the stitching" (page 44). Stitch width Stitch width key Moves the needle position to the left Moves the needle position to the right 53 UTILITY STITCHES ----- Blind Hem Stitching The bottoms of skirts and pants are hemmed.

Two stitches are available for blind hem stitching. Presser Foot Pattern Stitch Width [mm (inch)] Application Auto Manual Auto Manual Stitch Length [mm (inch)] Twin Needle Stitch Name Walking Foot Reverse/ Reinforcement Stitching Blind hem stitching R on medium weight fabrics Blind hem stitch 0 (0) 0 (0) -3 3 2.0 (1/16) 2.0 (1/16) 1.03.

5 No No Reinforcement (1/161/8) 1.03.5 No No Reinforcement (1/161/8) R Blind hem stitching on stretch fabrics 3 3 @@ Memo When stitch or is selected Press the "" side of the stitch width key so that "0", "-1", "-2" or "-3" appears in the LCD to move the needle drop point to the left. Press the "+" side of the stitch width key so that "0", "1", "2" or "3" appears in the LCD to move the needle drop point to the right. Sew a blind hem according to the following procedure. CAUTION Before replacing the presser foot, be sure to turn off the sewing machine, otherwise injuries may occur if a button is accidentally pressed and the machine starts sewing. a hem, and then baste it about 5 mm (3/16 Fold the fabric along the desired edge of the inch) from the edge of the fabric. After basting, fold back the fabric along the basting, and then position the fabric with the wrong side facing up. b c Turn on the machine. With the pattern selection dial, select or .

d e b b d d · For details, refer to "Replacing the presser Attach blind hem foot "R". foot" (page 31). a c a b c d e Wrong side of fabric Basting stitching Desired edge of hem 5 mm (3/16 inch) Edge of hem a 54 e hem against the guide of the presser foot, and Position the fabric with the edge of the folded then lower the presser foot lever. Memo If the needle is incorrectly positioned, the stitching results will be as shown below. Correct each result as described below. If the needle catches too much of the hem fold The needle is positioned too far to the left. Press the "+" side of the stitch width key to adjust the needle position so that the needle slightly catches the fold of the hem. 4 a b a Wrong side of fabric b Fold of hem c Presser foot guide c f adjust the stitch width until the needle slightly Press the "" side of the stitch width key to 3 a b a Wrong side of fabric b Right side of fabric If the needle does not catch the hem fold The needle is positioned too far to the right. Press the "" side of the stitch width key to adjust the needle position so that the needle slightly catches the fold of the hem. catches the fold of the hem, and then sew with the edge of the fabric against the presser foot guide.

a 4 b c a Needle b Needle drop point c Fold of hem CAUTION Slowly turn the handwheel toward you and check that the needle does not touch the presser foot. If the needle hits the presser foot, the needle may bend or break. a b a Wrong side of fabric b Right side of fabric For details, refer to "Adjusting the stitch length and width" (page 40). g Remove the basting stitching. a a Wrong side of fabric b Right side of fabric b 55 UTILITY STITCHES ----- Buttonhole Stitching Buttonholes can be sewn.

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Three stitches are available for sewing buttonholes. Presser Foot Pattern Stitch Width [mm (inch)] Application Auto Manual Auto Manual Stitch Length [mm (inch)] Twin Needle Walking Foot Reverse/ Reinforcement Stitching Stitch Name Secured buttonA holes for fabrics that have backings Horizontal buttonholes on thin and A medium weight fabrics Keyhole buttonA holes for thick or furry fabrics 5.0 (3/16) 3.05.0 (1/8-3/16) 0. 5 0.21.0 Automatic No No (1/32) (1/64-1/16) Reinforcement Buttonhole stitch 5.0 (3/16) 3.0-5.0 (1/8-3/16) 0.5 0.2-1.0 Automatic No No (1/32) (1/64-1/16) Reinforcement 7.0 (1/4) 3.

07.0 (1/8-1/4) 0.5 0.31.0 Automatic No No (1/32) (1/64-1/16) Reinforcement @@ Buttonholes with a maximum length of 30 mm (1-3/16 inches) (diameter + thickness of the button) can be sewn. Buttonholes are sewn as shown below. a a a Reinforcement stitching CAUTION Before replacing the presser foot, be sure to turn off the sewing machine, otherwise injuries may occur if a button is accidentally pressed and the machine starts sewing. The names of parts of buttonhole foot "A", which is used for sewing buttonholes, are indicated below. a Button guide plate b Presser foot scale a c Pin d Marks on buttonhole foot b e 5 mm (3/16 inch) e c d A 56 a and length of the buttonhole. Use chalk to mark on the fabric the position c d Turn on the machine. With the pattern selection dial, select , or . a b e · For details, refer to "Replacing the presser Attach buttonhole foot "A". foot" (page 31). a Marks on fabric b Finished stitching b foot "A", and then insert the button that will Pull out the button guide plate of buttonhole be put through the buttonhole. f in the presser foot, and then pull it under the Pass the upper thread down through the hole presser foot, as shown. 3 g buttonhole mark aligned with the red marks Position the fabric with the front end of the If the button does not fit in the button guide plate Add together the diameter and thickness of the button, and then set the button guide plate to the calculated length. (The distance between the markings on the presser foot scale is 5 mm (3/16 inch).) on the sides of the buttonhole foot, and then lower the presser foot lever. a b A a b a Mark on fabric (front) b Red marks on buttonhole foot b c Note When lowering the presser foot, do not push in the front of the presser foot, otherwise the buttonhole will not be sewn with the correct size. a Presser foot scale b Length of buttonhole (diameter + thickness of button) c 5 mm (3/16 inch) Example: For a button with a diameter of 15 mm (9/16 inch) and a thickness of 10 mm (3/8 inch), the button guide plate should be set to 25 mm (1 inch) on the scale. a b a 10 mm (3/8 inch) b 15 mm (9/16 inch) The size of the buttonhole is set. 57 UTILITY STITCHES ---- h possible. Pull down the buttonhole lever as far as m the pin and open the buttonhole. Use the enclosed seam ripper to cut towards a a a Buttonhole lever The buttonhole lever should be positioned behind the metal bracket on the buttonhole foot. a Seam ripper For keyhole buttonholes ( ), use the a commercial eyelet punch to make a hole in the rounded end of the buttonhole, and then use the seam ripper to cut open the buttonhole. b a Buttonhole lever b Bracket i your left hand, and then start sewing. a a Eyelet punch · When using the eyelet punch, place thick paper or some other protective sheet under the fabric before punching the hole in the fabric. Gently hold the end of the upper thread in CAUTION Once sewing is completed, the machine automatically sews reinforcement stitches, then stops. j and then remove the fabric. When opening the buttonhole with the seam ripper, do not place your hands in the cutting path, otherwise injuries may result if the seam ripper slips.

Do not use the seam ripper in any other way than how it is intended. Cut the threads, raise the presser foot lever, Changing the stitch length Press the "+" or "" side of the stitch length key to adjust the stitch length. Raise the buttonhole lever to its original k position. Insert a pin along the inside of one bar tack at l the end of the buttonhole stitching to prevent the stitching from being cut. a b + a a Stitch length key b Stitch length c Fine d Coarse · If the fabric does not feed (for example, if it is too thick), increase the coarseness of the stitching. a Pin 58 Changing the stitch width Press the "+" or "" side of the stitch width key to adjust the stitch width. Button sewing Buttons can be sewn on with the sewing machine. Buttons with 2 or with 4 holes can be attached. a button to be attached. + Measure the distance between the holes in the b a a b c d Stitch width key Stitch width Narrow Wide b drop feed lever, located at the rear of the Raise the presser foot lever, and then slide the machine on the base, to (to the left as seen from the rear of the machine). Memo Before sewing buttonholes, check the stitch length and width by sewing a trial buttonhole on a scrap piece of fabric. 3 a a Drop feed lever (as seen from the rear of the machine) The feed dogs are lowered. c d e Turn on the sewing machine. Select stitch . Attach button fitting foot "M". · f the distance between the holes in the button. Adjust the stitch width so that it is the same as 59 UTILITY STITCHES ---- g Place the button into button fitting foot "M". i Set the sewing speed controller to the left (so Start sewing. that the speed will be slow). a a Button The button is held in place. · When attaching four-hole buttons, first sew the two holes closest to you. Then, slide the button so that the needle goes into the two holes toward the rear of the sewing machine, and then sew them in the same way. The sewing machine automatically stops after sewing reinforcement stitches. · If additional strength is needed to secure the button, perform the button-sewing operation twice. j bobbin thread at the beginning of the Use scissors to cut the upper thread and the stitching. Pull the upper thread at the end of the stitching to the wrong side of the fabric, and then tie it with the bobbin thread. h (counterclockwise) to check that the needle Turn the handwheel toward you correctly goes into the two holes of the button. If it seems as if the needle will hit the button, remeasure the distance between the holes in the button.

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