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You can read the recommendations in the user guide, the technical guide or the installation guide for BROTHER INNOV-IS 1500. You'll find the answers to all your questions on the BROTHER INNOV-IS 1500 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 1500
User guide BROTHER INNOV-IS 1500
Operating instructions BROTHER INNOV-IS 1500
Instructions for use BROTHER INNOV-IS 1500
Instruction manual BROTHER INNOV-IS 1500

brother.

Computerized Sewing and Embroidery Machine
Operation Manual

- Getting Ready
- Sewing Basics
- Utility Stitches
- Character/Decorative Stitches
- Embroidery
- Embroidery Edit
- My Custom Stitch
- Appendix



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Manual abstract:

@@@2. 3. Do not allow this machine to be used as a toy. @@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. 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 retailer or service center for examination, repair, electrical or mechanical adjustment. Never operate the machine with any air openings blocked. @@Never drop or insert any object into any opening. Do not use outdoors.

@@To disconnect, turn the main switch to the symbol " outlet. " position which represents off, then remove plug from 4. 5. 6. 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. @@16. This sewing machine is not intended for use by young children or infirm persons without supervision. 17. Young children should be supervised to ensure that they do not play with this machine. 18. If the Light unit is damaged, it must be replaced by authorized dealer. SAVE THESE INSTRUCTIONS This machine is intended for household use. 1 FOR USERS IN THE UK, EIRE, MALTA AND CYPRUS ONLY If this machine is fitted with a three-pin non-rewireable BS plug then please read the following.

IMPORTANT If the available socket outlet is not suitable for the plug supplied with this equipment, it should be cut off and an appropriate three-pin plug fitted. With alternative plugs an approved fuse must be fitted in the plug. NOTE The plug served from the main lead must be destroyed as a plug with bared flexible cords is hazardous if engaged in a live socket outlet. In the event of replacing the plug fuse, use a fuse approved by ASTA to BS 1362, i.e. carrying the mark, rating as marked on plug. Always replace the fuse cover, never use plugs with the fuse cover omitted. **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. 2 Federal Communications Commission (FCC) Declaration of Conformity (For USA Only) Responsible Party: Brother International Corporation 100 Somerset Corporate Boulevard Bridgewater, NJ 08807-0911 USA TEL : (908) 704-1700 declares that the product Product Name: Model Number: Brother Sewing Machine NV1500D/NV1500 complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help.

· The included interface cable should be used in order to ensure compliance with the limits for a Class B digital device. · Changes or modifications not expressly approved by Brother Industries, Ltd. could void the user's authority to operate the equipment. 3 CONGRATULATIONS ON CHOOSING OUR MACHINE Your machine is the most advanced computerized household embroidery and sewing machine. To fully enjoy all the features incorporated, we suggest that you study the manual. PLEASE READ BEFORE USING THIS MACHINE For safe operation 1. Be sure to keep your eye on the needle while sewing. Do not touch the handwheel, thread take-up lever, needle, or other moving parts. 2. Remember to turn off the power switch and unplug the cord when: Operation is completed Replacing or removing the needle or any other parts A power failure occurs during use Maintaining the machine Leaving the machine unattended.

3. Do not store anything on the foot controller. 4. Plug the machine directly into the wall. Do not use extension cords.

For a longer service life 1. When storing this machine, avoid direct sunlight and high humidity locations. Do not use or store the machine near a space heater, iron, halogen lamp, or other hot objects. 2. Use only neutral soaps or detergents to clean the case.

Benzene, thinner, and scouring powders can damage the case and machine, and should never be used. 3. Do not drop or hit the machine. 4. Always consult the operation manual when replacing or installing any assemblies, the presser feet, needle, or other parts to assure correct installation. For repair or adjustment In the event a malfunction occurs or adjustment is required, first follow the troubleshooting table in the back of the operation manual to inspect and adjust the machine yourself. If the problem persists, please consult your local authorized Brother dealer. For additional product information and updates, visit our web site at www.brother.com The contents of this manual and specifications of this product are subject to change without notice.

4 HOW TO USE THIS MANUAL Chapters 1 and 2 describe to the first-time user the initial operations for using this machine and the basic sewing operations. To sew utility stitches Continue with chapter 3 to learn how to select a stitch and sew using the various stitches. Chapter 1 Chapter 2 Chapter 3 To sew characters and patterns Continue with chapter 4 to learn basic operations, from selecting patterns to sewing, in addition to operations such as combining and editing patterns to rotate or resize them, and storing combined patterns.



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Chapter 1 Chapter 2 Chapter 4 To embroider Continue with chapter 5 to learn basic embroidering operations, from selecting patterns to sewing, as well as operations such as editing patterns to rotate or resize them and utilizing more useful functions or techniques. In chapter 6, you can learn how to edit more advanced embroidery patterns and combine patterns. Chapter 1 Chapter 2 Chapter 5 Chapter 6 · Parts related to operations described in the procedures are highlighted in blue. Perform the operations while comparing the screens in the procedures with those that appear on the machine. · If, while using the machine, you have questions about an operation or you would like to know more about a specific function, refer to the index (P.197) and the table of contents to find the section of the manual to refer to. 5 Contents CONTENTS NAMES OF MACHINE PARTS AND THEIR FUNCTIONS .

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171 172 173 173 Chapter 8 Appendix 175 7 8 NAMES OF MACHINE PARTS AND THEIR FUNCTIONS NAMES OF MACHINE PARTS AND THEIR
FUNCTIONS Machine Front View Right-side/Rear View a Top cover Open the top cover to thread the machine and wind the bobbin. a Handle When
transporting the machine, carry it by this handle. b Thread guide plate Pass the thread around the thread guide plate when threading the upper thread. b
Handwheel Turn the handwheel toward you to sew one stitch or to raise or lower the needle. c Thread take-up lever check window Look through the window
to check the position of the take-up lever. c Embroidery card slot Insert the embroidery cards (sold separately) into the embroidery card slot. d Needle
threader lever Use the needle threader lever when threading the needle automatically. d USB connector Plug in a USB cable to connect a computer. e Thread
cutter Pass the threads through the thread cutter to cut them. e Touch pen holder Use the touch pen holder to hold the touch pen when it is not being used.

f Flat bed attachment with accessory compartment Store presser feet and bobbins in the accessory compartment of the flat bed attachment. Remove the flat
bed attachment when sewing cylindrical pieces such as sleeve cuffs. f Foot controller jack Insert the plug on the end of the foot controller cord into the foot
controller jack. g Operation buttons (5 buttons) and sewing speed controller Use these buttons to perform various operations, such as starting sewing and
raising or lowering the needle. Slide the sewing speed controller to adjust the sewing speed while using utility stitches. g Foot controller Press the foot
controller to control the speed of the machine. h Jack connector Insert the power cord into the connector jack. i Main power switch Use the main power
switch to turn the machine ON and OFF. h Knee lifter slot Insert the knee lifter into the slot. j Air vent Do not cover the air vent while the sewing machine is
being used.

i Knee lifter Use the knee lifter to raise and lower the presser foot. j LCD (liquid crystal display) Stitch settings can be viewed and edited, and operations for
using the machine can be displayed, and error messages appear in the LCD. k Feed dog position switch Use the feed dog position switch to lower the feed
dogs. l Presser foot lever Raise and lower the presser foot lever to raise and lower the presser foot. k Spool pin Place a spool of thread on the spool pin.
l Spool cap Use the spool cap to hold the spool in place. m Bobbin winder Use the bobbin winder when winding the bobbin. n Supplemental spool pin Use this
spool pin to wind the bobbin thread while sewing or to sew with the twin needle. o Thread guide Pass the thread around this thread guide when winding the
bobbin thread. p Bobbin winding thread guide Pass the thread around this thread guide when winding the bobbin thread.

9 NAMES OF MACHINE PARTS AND THEIR FUNCTIONS Needle and Presser Foot Section Embroidery Unit a Buttonhole lever Lower the buttonhole lever
when sewing buttonholes and bar tacks. a Carriage The carriage moves the embroidery frame automatically when embroidering. b Presser foot holder The
presser foot is attached to the presser foot holder. b Release button (located under the embroidery unit) Press the release button to remove the embroidery
unit. c Presser foot holder screw Use the presser foot holder screw to hold the presser foot holder in place. c Embroidery unit connector Insert the embroidery
unit connector into the connection port to attach the embroidery unit. d Presser foot The presser foot consistently applies pressure to the fabric as it is sewn.
Attach the appropriate presser foot for the selected stitch.

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d Embroidery frame holder Attach the embroidery frame to the embroidery frame holder to hold the frame in place. e Feed dogs The feed dogs feed the fabric in the sewing direction.

e Frame-securing lever Press down the frame-securing lever to secure the embroidery frame. f Bobbin cover Open the bobbin cover to insert the bobbin. g Needle plate cover Remove the needle plate cover to clean the bobbin case and race. CAUTION · After the embroidery frame is set in the frame holder, be sure the frame-securing lever is correctly lowered. h Needle plate The needle plate is marked with guides to help sew straight seams. i Needle bar thread guide Pass the upper thread through the needle bar thread guide. j Needle clamp screw Use the needle clamp screw to hold the needle in place. 10 NAMES OF MACHINE PARTS AND THEIR FUNCTIONS Operation Buttons Included Accessories The accessories are stored in the flat bed attachment. Open the flat bed attachment as shown below. a "Start/Stop" button When this button is pressed, the machine sews a few stitches at a low speed, then begins sewing at the speed set by the sewing speed controller.

Press this button again to stop sewing. This button lights up in a different color depending on the machine's operating condition. Green: Red: The machine is ready to sew or is sewing. The machine cannot sew. b c a d b "Reverse/Reinforcement Stitch" button This button is used to sew reinforcement stitches at the beginning and end of stitching.

When this button is pressed, the machine sews 3 to 5 stitches in the same spot, then stops automatically. For straight and zigzag stitch patterns that take reverse stitches, the machine sews reverse stitches (stitches sewn in the opposite direction) at low speed only while the "Reverse/Reinforcement Stitch" button is held down. c "Needle Position" button Use this button to change the sewing direction or for detailed sewing in small areas. Press this button to raise or lower the needle position. Press this button twice to sew a single stitch.

a Embroidery foot "U" storage space b Bobbin stand (Place the bobbins on the pins to store them.) c Storage space d Presser foot storage tray (Store presser feet marked A, G, I, J, M, N, and R.) d "Thread Cutter" button Press this button after sewing to automatically trim the excess thread. e "Presser Foot Lifter" button Press this button to lower the presser foot and apply pressure to the fabric. Press this button again to raise the presser foot. f Sewing speed controller Slide the sewing speed controller to the left or right to adjust the sewing speed. Slide the controller to the left to sew at lower speeds. Slide the controller to the right to sew at higher speeds. Beginners should sew at a lower speed until they become familiar with the machine. CAUTION · Do not press the "Thread Cutter" button after the threads have already been cut.

Otherwise, the needle may break, the threads may become tangled, or damage to the machine may occur. 11 NAMES OF MACHINE PARTS AND THEIR FUNCTIONS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 75/11 2 needles 90/14 2 needles 90/14 2 needles: Ball point needle (gold colored) 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 12 NAMES OF MACHINE PARTS AND THEIR FUNCTIONS Part Code No. Part Name U.S.A./

Canada Others XD0313-051 X57789-151 XC3098-051 X53840-351 X59370-051 XC3021-051 X56409-051 130489-001 SA140 SA177 SA129 SA156 F033N:XC2214-102 F054:XC3879-002 F005N:XC1948-002 X54243-051 SFB:XA5539-151 X58358-051 X59296-151 XC1807-121 184944-001 X59476-051 135793-001 X55467-051 X55468-051 130013-154 X55260-153 130012-054 XC8619-051 X57045-051 XC1074-051 XA5523-050 SA439/EF75 SA441/EF81

EF75:XC8481-052 Memo (For U.S.A. only) Foot controller: Model T This foot controller can be used with this machine model NV1500D/NV1500. 1 Embroidery foot "U" 2 Buttonhole foot "A" 3 Overcasting foot "G" 4 Monogramming foot "N" 5 Zipper foot "I" 6 Zigzag foot "J" (on machine) 7 Blind stitch foot "R" 8 Button fitting foot "M" 9 Walking foot 10 Side cutter foot 11 Free-motion quilting foot 12 Seam ripper 13 Bobbin × 4 14 Needle set 15 Twin Needle 16 Scissors 17 Chalk pen 18 Cleaning brush 19 Eyelet punch 20 Screwdriver (large) 21 Screwdriver (small) 22 Spool cap (small) 23 Spool cap (medium) × 2 24 Spool cap (large) 25 Vertical spool pin 26 Spool felt 27 Disc-shaped screwdriver 28 Spool net Embroidery frame set (large) 29 18 cm (H) × 13 cm (W) (7 inches (H) × 5 inches (W)) Embroidery frame set (extra large) 26 cm (H) × 16 30 cm (W) (10-1/4 inches (H) × 6-1/4 inches (W)) 31 Foot controller 32

Embroidery needle plate cover SA507 Memo · Always use accessories recommended for this machine.

· The screw for the presser foot holder is available through your authorized dealer (part code: XA4813-051). · This operation manual and the foot controller can be stored in the machine's hard case. EF81:XC9763-052 XD0501-021 (EU area) XC8816-021 (other area) XA9939-051 GS3:X81277-050 XA9940-051 XA6941-052 XD0745-051 XC8167-151 SA-EBT SA519 EBT-CEN: X81164-001 BM3:X81175-101 XD0550-051 XD0556-051 XC9640-051 33 Grid sheet set 34 Touch pen (stylus) 35 Knee lifter 36 USB cable Alternate bobbin case 37 (pink marking) (See page 131) 38 Embroidery bobbin thread 39 Stabilizer material 40 Operation Manual 41 Quick Reference Guide 42 Hard case 13 NAMES OF MACHINE PARTS AND THEIR FUNCTIONS Options 1 2 3 Note ·

Embroidery cards purchased in foreign countries may not work with your machine. · Visit your authorized dealer for complete listing of optional accessories available for your machine. 4 5 6 7 8 9 10 11 Part Code No.

1 Part Name Embroidery bobbin thread (White) Embroidery bobbin thread (Black) Stabilizer material Water soluble stabilizer Seam guide Embroidery frame set (small) 2 cm (H) × 6 cm (W) (1 inch (H) × 2-1/2 inches (W)) Embroidery frame set (medium) 10 cm (H) × 10 cm (W) (4 inches (H) × 4 inches (W))

Straight stitch needle plate Cord guide bobbin cover (with single hole) Table and free motion grip Spool stand SATFM 4000D SA539 U.S.A./ Canada Others SA-EBT EBT-CEN:X81164-001 SAEBT999 EBT-CEBN:XC5520-001 SA519 SA520 SA532 SA437/EF73 SA438/EF74 SA550 BM3:X81175-101

BM4:X81267-101 SG1:XC8483-05 EF73:XC8479-052 2 3 4 5 6 7 8 9 EF74:XC8480-052 SNP01:XD0606-052 XC8449-051 TFM2:XC8645-052 TS2:XC9655-052 Embroidery unit carrying 10 case 11 Embroidery card SA529 D6EUC:XC9862-052 Memo Please be aware that some specifications may

change without notice. 14 Chapter 1 Getting Ready TURNING THE MACHINE ON/OFF.



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36 TURNING THE MACHINE ON/OFF TURNING THE MACHINE ON/OFF WARNING · Use only regular household electricity as the power source. Using other power sources may result in fire, electric shock, or damage to the machine. · Turn the main power to OFF 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** · 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 the main power to OFF 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, or 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. · When leaving the machine unattended, either the main switch of the machine should be turned to OFF or the plug must be removed from the socket-outlet. · When servicing the machine or when removing covers, either the machine or the electrical set must be unplugged. · 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. a Insert the power cord into the power cord jack connector, then insert the plug into a wall outlet. b Turn the main power switch to "I" to turn on the machine. b a a b a Main power switch b Power cord c a OFF b ON Turn the main power switch to "O" to turn off the machine. 16 LCD SCREEN LCD SCREEN Display Precautions · Only touch the display with your finger or the touch pen included with the machine.

Do not use a mechanical pencil, screwdriver or any other hard or sharp objects. In addition, do not press the display with extreme pressure, otherwise damage to the display may result. · All or part of the display may sometimes become darker or lighter due to fluctuations in the surrounding temperature or other changes in the environment. This is not a sign of a malfunction. If the display is difficult to read, adjust its brightness (see page 21). · The display may be dark immediately after the machine is turned on. This is a normal characteristic of the backlight and is not a sign of a malfunction. After approximately 10 minutes, the display should reach its normal level of brightness. · If you are not directly facing the display, the colors may be distorted or the screen may be difficult to read. This is a normal characteristic of the display and is not a malfunction.

Be sure to sit in front of the display while using it. When the machine is turned on, the opening screen appears. The machine can be set so that the opening screen is not displayed (see page 21). Lightly press the display with your finger. Depending on the setting, either "1-01 Straight stitch (Left)" or "1-03 Straight stitch (Middle)" is automatically selected (see page 20).

1 Getting Ready Memo It may take some time until the opening screen appears. This is not a sign of a malfunction. a Shows whether the machine is set for a single needle or twin needle, and the needle position when the machine is stopped. The desired needle position can be set (see page 20). For a single needle a b c Single needle/down position For a twin needle Single needle/up position d Twin needle/down position Twin needle/up position e b Presser foot code Attach the indicated presser foot before sewing.

c Shows the number for the selected stitch (only for utility stitches). d Shows a preview of the selected stitch. e Shows the current page number and the total number of pages available. 17 LCD SCREEN Key Functions With your finger or the touch pen, press a key at the top of the display (screen that is displayed.) to change the 1 2 3 5 4 h 6 7 i j k l m n o r Operation panel No. Key Name Machine setting mode key Machine operation mode key Presser foot / Needle exchange key q p s Function Press this key to change the needle stop position, turn the buzzer on/off, adjust the pattern or screen, and change other machine settings. Press this key to see descriptions for upper threading, winding the bobbin, changing the presser foot, and other operations for using the machine. Press this key when changing the needle or presser foot. Pressing this key locks all keys and operation buttons so that parts can safely be changed. Press this key again to unlock the keys and buttons.

When operations are displayed, the screen for the presser foot/needle replacement mode is not displayed. Press this key to select a straight stitch, zigzag stitch, buttonhole, blind hem stitch, or other stitch (utility stitch) commonly used in garment sewing. Page 20 1 2 3 22 33,34 4 Utility stitch key 48 5 Character/Decorative Stitch key Press this key to select character or decorative stitch patterns. 88 6 Embroidery key Press this key to sew embroidery. 114 7 Embroidery edit key Press this key to combine embroidery patterns. By editing embroidery patterns, you can create original emblems and name tags. 151 18 LCD SCREEN Screen No. Key Name Screen lock key Function Press this key to lock the screen. @@ Press this key again to unlock the settings. Press this key when you need help selecting the appropriate stitch pattern for the sewing application and when you need instructions on how to sew the selected stitch pattern.



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This key is very helpful for beginners. Page 45 h i j k Sewing type selection key 50 l Getting Ready Pattern explanation key Press this key to see how the selected stitch pattern can be used. 23 Stitch selection display Press the key for the stitch pattern that you want to sew. Press one of the keys to change the pattern selection screen. 48 l Automatic Press this key to select the automatic reinforcement stitching (reverse stitching) reinforcement stitch key setting. If you select this setting before sewing, the machine will automatically sew reinforcement stitches at the beginning and end of stitching (depending on the selected stitch pattern, reverse stitches may be sewn). Press this key again to cancel the setting. Automatic thread cutting key Press this key to select the automatic thread cutting setting. If you select this setting before sewing, the machine will automatically sew reinforcement stitches (or reverse stitches, depending on the selected stitch) and trim the threads when the "Reverse/Reinforcement Stitch" button is pressed. Press this key again to cancel the setting. Press this key to create a mirror image of the selected stitch pattern. · If this key appears as , it cannot be used. 43 m 44 n o Mirror image key 49 Needle mode selection Before sewing with the twin needle, press this key to select the setting for twin key (single/twin) needle sewing. Each time this key is pressed, the setting switches between that for single needle sewing and twin needle sewing. · If this key appears as , it cannot be used. 31 p q r Reset key Manual memory key Press this key to return the selected stitch pattern's saved settings to the original settings. Change the stitch pattern settings (zigzag width and stitch length, thread tension, automatic thread cutting or automatic reinforcement stitching, etc.), then save them by pressing this key. Shows the stitch width (zigzag width) and the stitch length settings of the currently selected stitch pattern. Press stitch length settings.

· If appears, the setting cannot be adjusted. or to adjust the stitch width and 49 49 Stitch width and stitch length keys 42 s Thread tension keys Shows the thread tension setting of the currently selected stitch pattern. The thread tension is usually set automatically. Press tension setting. or to adjust the thread 43 19 LCD SCREEN Using the Machine Setting Mode Key Press to change the needle stop position, turn the buzzer on/off, adjust the pattern or screen, and change other basic machine settings. a Select whether the needle stops in the raised or lowered position when the machine is stopped. b Select whether to use the sewing speed controller or to adjust the zigzag width (see page 64). c Make adjustments to the character and decorative a b c d e f stitch patterns (see page 92). d Adjust the presser foot height (select the height of the presser foot when the presser foot is raised) (see page 41). e Adjust the presser foot pressure between 1 (weak) and 4 (strong).

* The higher the number, the higher the pressure will be. Set the pressure to 3 for normal sewing. f Select whether "1-01 Straight stitch (Left)" or "1-03 Straight stitch (Middle)" is the utility stitch that is automatically selected when the machine is turned on. * Press to display the next page. a Select from among 5 embroidery frame displays (see page 125).

b Select whether the thread color name, thread color number or sewing time appears for the thread color display in the embroidery screen (see page 138). c Select the thread brand available when selecting a thread color number in the thread color display of the embroidery screen (see page 138). a b c * Press to display the next page. a Adjust the maximum embroidering speed. b Adjust the thread tension for embroidering.

c Adjust the height of embroidery foot "U" (see page 120). d Select the units (mm/inch) for displaying distances a b c d e and the sizes of embroidery patterns. e Select the initial screen (Embroidery/Embroidery Edit) when the embroidery unit is installed. * Press to display the next page. 20 LCD SCREEN a Adjust the density of the display. * Press * Press to make the screen lighter. to make the screen darker. and Adjust the density so that the contrast between a b c d e can be clearly seen. 1 Getting Ready b Turn on/off the buzzer. c Turn on/off the needle area and work area lights.

d Select whether or not the opening screen appears when the machine is turned on. e Select one of the 13 display languages: [English], [German], [French], [Italian], [Dutch], [Spanish], [Japanese], [Danish], [Norwegian], [Finnish], [Swedish], [Portuguese], [Russian] * Press to display the next page. a Display the service count of embroidery stitches. The service count is a reminder to take your machine in for regular servicing (Contact your authorized dealer for details.) b Shows the version of the software installed on this machine c Shows the product identification number for this machine. Memo a b c The latest version of software is installed in your machine. Check with your local authorized Brother dealer or at www.brother.com for notification of available updates (see page 189). 21 LCD SCREEN Using the Machine Operation Mode Key Basic machine operations and other information based on the contents of this Operation Manual are stored in this machine.

Press to open the screen shown below. Six categories are displayed at the top of the screen. Press a key to see more information about that category. Contents of Each Category Names of Machine Parts and Their Functions Sewing Basics Troubleshooting Presser foot lever Sewing speed controller Handwheel Feed dog position switch Flat bed attachment with accessory compartment Knee lifter Foot controller Main Buttons Upper threading Bobbin winding Changing the needle Changing the presser foot Setting the bobbin Basic Embroidering Operations Maintenance "Thread Cutter" button "Presser Foot Lifter" button "Start/Stop" button Attaching iron-on stabilizer to the fabric Inserting the fabric Attaching the embroidery frame Cleaning the race and bobbin case "Reverse/Reinforcement Stitch" button "Needle Position" button Attaching the embroidery unit Attaching embroidery foot "U" Correct stabilizer to use 22 LCD SCREEN Example: a Displaying information about upper threading . .

Using the Pattern Explanation Key To learn more about the uses for a stitch pattern, select the stitch, and then press the selected stitch. to see a description of Press Press b A list of basic operations appears in the lower half of the screen. 1 Getting Ready Example: c Displaying information on the use for . Press (upper threading). a Select , and then press .



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The instructions for threading the machine appear. d Press to view the next page. Uses for appear. b When you are finished with the instructions, press . e When you are finished with the instructions, press . 23 LOWER/UPPER THREADING LOWER/UPPER THREADING Winding the Bobbin This section describes how to wind thread onto a bobbin. With this machine, you can use the supplemental spool pin to wind the bobbin while sewing using the main spool pin. c Set the supplemental spool pin in the "up" position. a CAUTION · 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: X52800-150). Actual size 11.5 mm (approx. 7/16 inch) This model Other models d a Supplemental spool pin Place the spool of thread on the supplemental spool pin so that the thread unwinds from the front. Then, slide the spool cap as far as possible onto the supplemental spool pin to secure the thread spool. a Using the Supplemental Spool Pin While sewing embroidery, the bobbin can conveniently be wound. b c 65 a 3, 4 2 a Supplemental spool pin b Spool cap c Thread spool 7, 8 9 CAUTION · If the thread spool and/or spool cap are set incorrectly, the thread may tangle on the spool pin and cause the needle to break. · Use the spool cap (large, medium, or small) that is closest in size to the thread spool. If a spool cap smaller than the thread spool is used, the thread may become caught in the slit on the end of the spool. o a Supplemental spool pin a b 1 1 Turn on the machine, and then open the top cover.

Align the groove in the bobbin with the spring on the bobbin winder shaft, and then set the bobbin on the shaft. a b Note When using cross-wound thread on a thin spool, use the small spool cap, and leave a small gap between the cap and the thread spool. a b c a Gap b Cross-wound thread c Spool cap (small) a Groove in bobbin b Spring on bobbin winder shaft 24 LOWER/UPPER THREADING e While holding the thread from the spool in your right hand, hold the end of the thread with your left hand, and then pass the thread through the thread guide. a i Slide the bobbin holder to the left until it snaps into place. * When the bobbin holder is set to the left, it works as a switch to make the bobbin wind automatically.

1 Getting Ready a a Bobbin holder (switch) a Thread guide f Pass the thread under the pin on the bobbin winding thread guide, and then pass it around the pretension disk. * Make sure that the thread passes under the pretension disk. The bobbin stops spinning automatically when it is full, and the bobbin holder returns to its original position. j Cut the thread, and then remove the bobbin. a b Note a Pin b Pretension disk g When removing the bobbin, pull up only on the bobbin.

Do not pull on the bobbin winder seat, otherwise it may become loose, resulting in damage to the machine. Wind the thread clockwise around the bobbin four or five times. CAUTION 2 · Setting the bobbin improperly may cause the thread tension to loosen, breaking the needle and possibly resulting in injury. 3 h 1 Pass the end of the thread through the guide slit in the bobbin winder seat, and then pull the thread to the right to cut it with the cutter. b a a Guide slit b Bobbin winder seat CAUTION · Be sure to follow the process described. If the thread is not cut with the cutter, and the bobbin is wound, when the thread runs low, it may tangle around the bobbin. 25 LOWER/UPPER THREADING Winding the Bobbin Using the Spool Pin The main spool pin cannot be used to wind the bobbin while sewing. For details, see "Using the Supplemental Spool Pin" on page 24. e Slide the spool cap as far as possible onto the spool pin, and then return the spool pin to its original position. While holding the thread from the spool with both hands, pull the thread through the lower notch in the thread guide plate, then through the upper notch.

2 8 f 7 3 6 5 4 9 b a o a b c l 1 g a Lower notch in the thread guide plate b Upper notch in the thread guide plate Pass the thread through the thread guide. a Turn on the machine. Open the top cover. Align the groove in the bobbin with the spring on the bobbin winder shaft, and then slide the bobbin onto the shaft. a b h a Thread guide Pass the thread under the pin on the bobbin winding thread guide, and then pass it around the pretension disk. * Make sure that the thread passes under the pretension disk. a a Groove in bobbin b Spring on bobbin winder shaft d b Pivot the spool pin so that it angles upward, and then place the spool of thread on the spool pin. * Make sure that the thread unwinds from the front. a Pin b Pretension disk c a b i Follow steps g through j on page 25. a Spool cap b Thread spool c Spool pin 26 LOWER/UPPER THREADING e Setting the Bobbin This section describes how to set a bobbin wound with thread into the machine.

You can begin sewing without pulling up the bobbin thread. If you wish to pull up the bobbin thread, for example, when sewing gathers, follow the procedure described in the next section. Lightly hold down the bobbin with your right hand, and then, while slightly pulling the thread with your left hand, guide it through the groove. 1 Getting Ready CAUTION · Use a bobbin thread that has been correctly wound. Otherwise, the needle may break or the thread tension will be incorrect.

f After guiding the thread completely through the groove, pull it toward you to cut it with the cutter. a Press the "Presser Foot Lifter" button to raise the presser foot. Slide the bobbin cover latch to the right, and then remove the bobbin cover. a b a Cutter g a b Attach the bobbin cover by inserting the tab in the lower-left corner of the bobbin cover, then lightly press down on the right side of the cover until it snaps into place. a Bobbin cover b Latch c Hold the bobbin with your right hand and hold the end of the thread with your left hand.

a a Tab Pulling Up the Bobbin Thread There may be some sewing applications where you may want to pull up the bobbin thread, for example, when making gathers or with free-motion quilting. Follow the procedure described below to pull up the bobbin thread. d Insert the wound bobbin into the bobbin case so that the thread unwinds in the direction of the arrow. Memo Thread the upper thread before pulling up the bobbin thread. For details, see "Upper Threading" on page 28. a Follow steps a through d from the previous section to insert the bobbin into the bobbin case. CAUTION · Be sure to hold down the bobbin with your finger and unwind the bobbin thread correctly.



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Otherwise, the thread may break or the thread tension will be incorrect. 27 LOWER/UPPER THREADING b Guide the bobbin thread through the groove, following the arrow in the illustration. Upper Threading This section describes how to thread the machine and the needle.

The machine is marked with numbers that indicate the threading order. Note · Do not cut the thread with the cutter. · Do not attach the bobbin cover. CAUTION · Be sure to thread the machine properly. Improper threading can cause the thread to tangle and break the needle, leading to injury. · When using accessories not included with this machine, attach the accessory to the machine after threading the machine. c While lightly holding the upper thread, press the "Needle Position" button twice to lower, then raise the needle. 7 4, 5 8 12,13 11 10 9 14,15 a b 6 3 2,16 d Gently pull the upper thread to pull up the bobbin thread. 1 Turn on the machine. Press the "Presser Foot Lifter" button to raise the presser foot.

The upper thread shutter opens so the machine can be threaded. a A loop of the bobbin thread comes out from the hole in the needle plate. e Pull out about 100 mm of the bobbin thread, and then pass it under the presser foot toward the rear of the machine, making it even with the upper thread. a Upper thread shutter a b Memo This machine is equipped with an upper thread shutter, allowing you to check that the upper threading is performed correctly. a Upper thread b Bobbin thread f Attach the bobbin cover.

28 LOWER/UPPER THREADING c Press the "Needle Position" button to raise the needle. g While holding the thread from the spool in your right hand, hold the end of the thread with your left hand, and then guide the thread through the groove, following the arrows in the illustration. 1 Getting Ready Note If you try to thread the needle with the needle threader lever without raising it, damage to the machine may result. d h Pivot the spool pin so that it angles upward, and then place the spool of thread on the spool pin. * Make sure that the thread unwinds from the front.

Guide the thread down, up, then down through the groove, as shown in the illustration. a c a b a Upper thread shutter a Spool cap b Thread spool c Spool pin e Memo Look through the take-up lever check window to check the position of the take-up lever. Before threading the machine, make sure that the take-up lever is in the raised position. Slide the spool cap as far as possible onto the spool pin, and then return the spool pin to its original position. CAUTION · If the thread spool and/or spool cap are set incorrectly, the thread may tangle on the spool pin and cause the needle to break. · Use the spool cap (large, medium, or small) that is closest in size to the thread spool. If a spool cap smaller than the thread spool is used, the thread may become caught in the slit on the end of the spool and cause the needle to break. f a b a Upper thread shutter b Thread take-up lever check window i While holding the thread from the spool with both hands, pull the thread through the lower notch in the thread guide plate, then through the upper notch. Pass the thread through the needle bar thread guide (marked "6"). * Hold the thread with both hands and guide it as shown in the illustration.

b a a a Lower notch in the thread guide plate b Upper notch in the thread guide plate a Needle bar thread guide 29 LOWER/UPPER THREADING j Pass the thread through the thread guide disks (marked "7"). * Make sure that the thread passes through the groove in the thread guide. * Make sure that the thread securely enters the thread guide disks, otherwise the needle may not be threaded. m Release the needle threader lever. The thread passes through the eye of the needle. n Carefully pull the end of thread that was passed through the eye of the needle. Note a Do not pull the thread strongly. Otherwise, the needle may bend or break. * If a loop was formed in the thread passed through the eye of the needle, carefully pull on the loop of thread through to the back of the needle. a Groove in thread guide k Pull the thread up through the thread cutter to cut the thread, as shown in the illustration.

a a Thread cutter o Note When using thread that quickly winds off the spool, such as metallic thread, it may be difficult to thread the needle if the thread is cut. Therefore, instead of using the thread cutter, pull out about 80 mm (approx. 3 inches) of thread after passing it through the thread guide disks (marked "7"). Pull out about 100 mm (approx. 3-4 inches) of the thread, and then pass it under the presser foot toward the rear of the machine.

a a 100 mm a p Press the "Presser Foot Lifter" button to lower the presser foot before starting to sew. a 80 mm or more l Memo This completes the upper threading procedure. Lower the needle threader lever slowly until it clicks. * The hook is rotated and passes through the eye of the needle. Note · The needle threader can be used with home sewing machine needles 75/11 through 100/16.

For details on appropriate needle and thread combinations, see "Fabric/Thread/Needle Combinations" on page 36. · If automatic needle threading could not be completed correctly, repeat the procedure, starting with the needle bar thread guide (marked "6"). · Some needles cannot be threaded with the needle threader. In this case, instead of using the needle threader after passing the thread through the needle bar thread guide (marked "6"), manually pass the thread through the eye of the needle from the front. Note · If the needle threader lever is lowered quickly, the needle may not be threaded. · Make sure that no objects, such as the fabric, are touching the hook. b a a Hook b Needle thread lever 30 LOWER/UPPER THREADING c Using the Twin Needle Using the twin needle, you can sew two parallel lines of the same stitch. Although the same bobbin thread is used, interesting patterns can be sewn by threading each needle with a different color of thread. Both upper threads should have the same thickness and quality. The twin needle can only be used with patterns where appears when they are selected.

Check the "STITCH SETTING CHART" at the end of this manual for patterns that can be used with the twin needle. Pass the thread through the needle bar thread guide, and then thread the needle on the left side. 1 a Getting Ready a Needle bar thread guide d CAUTION · Use only twin needles made for this machine (part code X59296-151). Other needles could break, resulting in damage. · Be sure to set the twin needle mode when using the twin needle. Using the twin needle while the machine is in single needle mode could cause the needle to break, resulting in damage.



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· Do not sew with bent needles. The needle could break and cause injury. · When using the twin needle, be sure to use presser foot "J". In case bunched stitches may occur, use the presser foot "N".

a Set the supplemental spool pin in the "up" position. a Supplemental spool pin e Press , and then install the twin Place the additional spool of thread on the supplemental spool pin so that the thread unwinds from the front. Then, slide the spool cap as far as possible onto the supplemental spool pin to secure the thread spool. a needle (see "CHANGING THE NEEDLE" on page 34). b c a Spool cap b Supplemental spool pin c Thread spool b Thread the machine for the first needle according to the procedure for threading a single needle (see "Upper Threading" on page 28).

f While holding the thread from the spool in your right hand, hold the end of the thread with your left hand, and then pass the thread through the thread guide.

* Do not pass the thread through the bobbin winding thread guide. a b a Bobbin winding thread guide b Thread guide 31 LOWER/UPPER THREADING g While holding the thread from the spool with both hands, pull the thread through the lower notch in the thread guide plate, then through the upper notch. Hold the end of the thread with your left hand, and then guide the thread through the groove, following the arrows in the illustration. k Press to select the setting for twin needle sewing.

* The stitch width becomes narrower than with single needle sewing. a a Single needle/twin needle setting appears. a Shutter h Without passing the thread through the needle bar thread guide, thread the needle on the right side. CAUTION · Be sure to set the twin needle mode when using the twin needle. Using the twin needle while the machine is in single needle mode could cause the needle to break, resulting in damage. l a Press the "Start/Stop" button after lowering the presser foot lever. Memo a Needle bar thread guide To change the sewing direction with the twin needle, raise the needle from the fabric, raise the presser foot lever, and then turn the fabric. Note The needle threader cannot be used. Manually pass the thread through the eye of the needle from the front. If the needle threader is used, damage to the machine may result.

i Press screen. , or press in the j Select a stitch pattern. Note If appears as after a stitch is selected, the twin needle cannot be used with the selected stitch. 32 CHANGING THE PRESSER FOOT CHANGING THE PRESSER FOOT CAUTION · Always press in the operation panel before changing the presser foot. If is not pressed and the "Start/Stop" button or another button is pressed, the machine will start and may cause injury. · Always use the correct presser foot for the selected stitch pattern. If the wrong presser foot is used, the needle may strike the presser foot and bend or break, and may cause injury. · Only use presser feet made for this machine. Using other presser feet may lead to accident or injury. c 1 Getting Ready Removing the Presser Foot a Raise the presser foot lever.

Press the "Needle Position" button to raise the needle. d Press the black button on the presser foot holder to remove the presser foot. b Press . a b a Black button b Presser foot holder Attaching the Presser Foot a Place the presser foot under the holder, aligning the pin on the foot with the notch in the holder, and then lower the presser foot lever so that the presser foot pin snaps into the notch in the holder. The screen changes, and all keys and operation buttons are locked.

a b a Notch b Pin b Press screen. , or press in the All keys and operation buttons are unlocked, and the previous screen is displayed. c Raise the presser foot lever. 33 CHANGING THE NEEDLE CHANGING THE NEEDLE CAUTION · Always press in the operation panel before changing the needle. If is not pressed and the "Start/ Stop" button or another operation button is pressed accidentally, the machine will start and injury may result.

· Use only sewing machine needles made for home use. Other needles may bend or break and may cause injury. · Never sew with a bent needle. A bent needle will easily break and may cause injury. Checking the Needle Place the flat side of the needle on a flat surface (such as the needle plate or a piece of glass) and check that the gap between the needle and the flat surface is even. b Press . Note Never use bent or blunt needles. a b a Even gap b Flat surface (bobbin cover, glass, etc.) a Press the "Needle Position" button to raise the needle. The screen changes, and all keys and operation buttons are locked.

34 CHANGING THE NEEDLE c Use the included screwdriver to turn the needle clamp screw toward the front of the machine to loosen it, and then remove the needle. 1 Getting Ready Note Do not apply extreme force when loosening or tightening the needle clamp screw, otherwise damage to the machine may result. d With the flat side of the needle facing the back, insert the new needle until it touches the needle stopper. Use the screwdriver to securely tighten the needle clamp screw. a b c a Needle stopper b Hole for setting the needle c Flat side of needle CAUTION · Be sure to push in the needle until it touches the stopper, and securely tighten the needle clamp screw with a screwdriver. If the needle is not completely inserted or the needle clamp screw is loose, the needle may break or the machine may be damaged. e Press screen. , or press in the All keys and operation buttons are unlocked, and the previous screen is displayed. 35 CHANGING THE NEEDLE About the Needle The sewing machine needle is probably the most important part of the sewing machine. Choosing the proper needle for your sewing project will result in a beautiful finish and fewer problems.

Below are some things to keep in mind about needles. · The smaller the needle number, the finer the needle. As the numbers increase, the needles get thicker. · Use fine needles with lightweight fabrics, and thicker needles with heavyweight fabrics. · To avoid skipped stitches, use ball point needle (gold colored) 90/14 with stretch fabrics.

· To avoid skipped stitches, use ball point needle (gold colored) 90/14 when sewing character or decorative stitches. · Use needle 75/11 for embroidery. Ball point needles (gold colored) 90/14 are not recommended for embroidery, as they may bend or break, causing injury. · It is recommended that a 90/14 needle should be used when embroidering on heavyweight fabrics or stabilizing products (for example, denim, puffy foam, etc.).

A 75/11 needle may bend or break, which could result in injury.



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· A home sewing machine needle 75/11 is inserted in the sewing machine. Fabric/Thread/Needle Combinations The following table provides information concerning the appropriate thread and needle for various fabrics. Please refer to this table when selecting a thread and needle for the fabric you wish to use. Fabric Type Medium weight fabric Broadcloth Taffeta Lightweight fabric Lawn, Batiste Georgette Challis, Satin Heavyweight fabric Denim Corduroy Tweed Stretch fabric Jersey Tricot For top stitching Synthetic mercerized Silk 30 30 Cotton Synthetic mercerized Cotton Synthetic mercerized Silk Cotton Synthetic mercerized Silk Thread for knits Thread Size 60 - 80 60 - 80 50 60 - 80 60 - 80 50 30 - 50 50 50 50 - 60 Ball point needle (gold colored) 75/11 - 90/14 90/14 - 100/16 90/14 - 100/16 65/9 - 75/11 75/11 - 90/14 Size of needle Flannel, Gabardine Silk or silk finished Memo For transparent nylon thread, always use needle 90/14 - 100/16. The same thread is usually used for the bobbin thread and upper threading. CAUTION · Be sure to follow the needle, thread, and fabric combinations listed in the table. Using an improper combination, especially a heavyweight fabric (i.e., denim) with a small needle (i.

e., 65/9 - 75/11), may cause the needle to bend or break, and lead to injury. Also, the seam may be uneven, the fabric may pucker, or the machine may skip stitches. 36 Chapter 2 Sewing Basics SEWING

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.....38 Sewing a Stitch...

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.38 Using the Foot Controller.....

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.....39 Using the Knee Lifter...

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40 Sewing Reinforcement Stitches

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.....40 Sewing Curves.

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.....40 Changing Sewing Direction.

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*.....40 Sewing a Seam Allowance of 0.
5 cm or Less*

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.....40 Sewing Heavyweight Fabric ...

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41 If the Fabric Does Not Fit Under the Presser Foot....*

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41 If the Fabric Does Not Feed*

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..41 Sewing Lightweight Fabric ...*

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.....41 ADJUSTING STITCH SETTINGS ..

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.....42 Adjusting the Stitch Width

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..42 Adjusting the Stitch Length

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.....42 Adjusting the Thread Tension...

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....43 Correct Thread Tension.

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.....43 USEFUL FUNCTIONS

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....43 Automatic Reinforcement Stitching .

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.43 Automatic Thread Cutting.....

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.....44 Locking the Screen ..

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.....45 SEWING SEWING CAUTION · To avoid injury, pay special attention to the needle while the machine is in operation. Keep your hands away from moving parts while the machine is in operation. · Do not stretch or pull the fabric during sewing. Doing so may lead to injury. · Do not use bent or broken needles. Doing so may lead to injury. · Take care that the needle does not strike basting pins or other objects during sewing. Otherwise, the needle may break and cause injury. · If stitches become bunched, lengthen the stitch length setting before continuing sewing. Otherwise, the needle may break and cause injury. d Sewing a Stitch a b Turn on the machine, and then press the "Needle Position" button to raise the needle. Select a stitch pattern. Place the fabric under the presser foot, hold the fabric and thread ends with your left hand, and then turn the handwheel to lower the needle into the fabric at the starting point of the stitching. * The black button on the left side of presser foot "J" should be pressed only if the fabric does not feed or when sewing thick seams. Normally, you can sew without pressing the black button. e Lower the presser foot lever. Memo You can start sewing without pulling up the bobbin thread. The symbol for the correct presser foot appears in the upper-left corner of the LCD. c f Slide the sewing speed controller to adjust the sewing speed. Install the presser foot (see "CHANGING THE PRESSER FOOT" on page 33). Memo The sewing speed can also be adjusted during sewing. CAUTION · Always use the correct presser foot. If the wrong presser foot is used, the needle may strike the presser foot and bend or break, possibly resulting in injury. g a b a Slow b Fast Lightly place your hands on the fabric to guide it, and then press the "Start/Stop" button to start sewing.

38 SEWING h To stop sewing, press the "Start/Stop" button again. Using the Foot Controller You can also use the foot controller to start and stop sewing. CAUTION · Do not allow fabric pieces and dust to collect in the foot controller. Doing so could cause a fire or an electric shock. i Press the "Thread Cutter" button to trim the threads. Memo · When the foot controller is being used, the "Start/ Stop" button has no effect on sewing. · The foot controller cannot be used when embroidering. a 2 Sewing Basics Insert the foot controller plug into its jack on the machine. The needle automatically stops in the raised position. b a CAUTION · Do not press the "Thread Cutter" button after the threads have been cut. Doing so could tangle the thread or break the needle and damage the machine. · Do not press the "Thread Cutter" button when there is no fabric set in the machine or during machine operation. The thread may tangle, possibly resulting in damage. a Foot controller b Foot controller jack b Slowly press the foot controller to start sewing. Note When cutting thread thicker than #30, nylon thread or other decorative threads, use the thread cutter on the side of the machine. Memo The speed set using the sewing speed controller is the foot controller's maximum sewing speed. c j Release the foot controller to stop the machine. When the needle has stopped moving, raise the presser foot and remove the fabric. Memo (For U.S. A. only) Foot controller: Model T This foot controller can be used with model NV1500D/ NV1500. Note This machine is equipped with a bobbin thread sensor that warns you when the bobbin thread is almost empty. When the bobbin thread is nearly empty, the machine stops automatically and a message appears in the screen. When this message appears, change the bobbin with one full of thread. However, if the "Start/Stop" button is pressed, a few stitches can be sewn. 39 SEWING Using the Knee Lifter Using the knee lifter, you can raise and lower the presser foot with your knee, leaving both hands free to handle the fabric. a Sewing Reinforcement Stitches Generally stitching must be secured at the beginning and end with reverse/reinforcement stitches. Press the "Reverse/Reinforcement Stitch" button to sew reverse/ reinforcement stitches. Depending on the selected stitch pattern, reverse or reinforcement stitches are sewn while the "Reverse/ Reinforcement Stitch" button is kept pressed. With reinforcement stitches, 3 to 5 stitches are sewn at the same place. With reverse stitches, the stitching is sewn at a low speed in the opposite direction. In addition, this machine can be set to sew reinforcement stitches (or reverse stitches) automatically. For details, see "Automatic Reinforcement Stitching" on page 43. Align the tabs on the knee lifter with the notches in the jack, and then insert the knee lifter as far as possible.



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