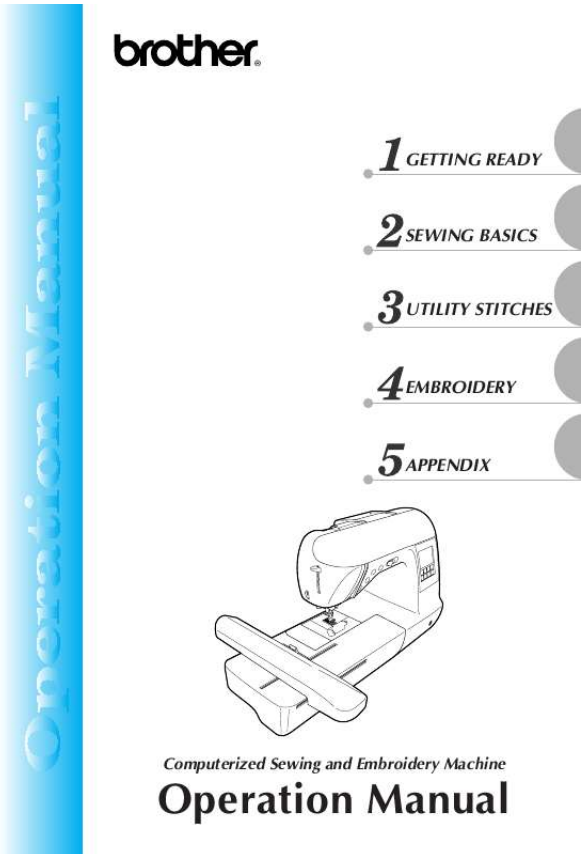




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for BROTHER INNOV-IS 1200. You'll find the answers to all your questions on the BROTHER INNOV-IS 1200 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 1200  
User guide BROTHER INNOV-IS 1200  
Operating instructions BROTHER INNOV-IS 1200  
Instructions for use BROTHER INNOV-IS 1200  
Instruction manual BROTHER INNOV-IS 1200



The image shows the cover of the Brother INNOV-IS 1200 Operation Manual. On the left, a vertical blue bar contains the text "Operation Manual" written vertically. To the right of this bar is the "brother" logo. Below the logo is a list of five numbered sections: 1 GETTING READY, 2 SEWING BASICS, 3 UTILITY STITCHES, 4 EMBROIDERY, and 5 APPENDIX. Each section is preceded by a small dot and a horizontal line. Below the list is a line drawing of the Brother INNOV-IS 1200 sewing machine. At the bottom of the cover, the text "Computerized Sewing and Embroidery Machine" is written above the title "Operation Manual".



[You're reading an excerpt. Click here to read official BROTHER INNOV-IS 1200 user guide](http://yourpdfguides.com/dref/2359637)  
<http://yourpdfguides.com/dref/2359637>

**Manual abstract:**

· Plug the machine directly into the electrical outlet. Do not use an extension cord. @@@@Keep ventilation openings of the sewing machine and foot control free from the build up of lint, dust, and loose cloth. · 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 operate where aerosol (spray) products are being used or where oxygen is being administered. 5 Special care is required when sewing: · Always pay close attention to the needle. 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. @@@@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. 8 For repair or adjustment: · If the Light unit 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 the 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 and updates, visit our web site at [www.brother.com](http://www.brother.com) 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. 2

----- Contents Important Safety Instructions -----

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 .....  
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.....1 Introduction ...

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 .....  
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 .....  
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.....7 Sewing Machine Features ...

.....  
 .....  
 .....  
 .....  
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.....  
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.....  
*..7 Accessories..*

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*...8 Included accessories .*

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*..... 8 Optional accessories ....*

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

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*.....11 Front view ..*

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*..... 11 Needle and presser foot section .*

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*..... 12 Right-side/rear view ...*

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*... 12 Operation buttons ..*

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*.. 13 Operation panel .....*

.....  
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*.... 14 GETTING READY 15 Turning the Machine On/Off.....*

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

.....16 Power supply precautions ...

.....  
.....  
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.... 16 Turning on the machine .....

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.... 17 Turning off the machine .

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

.... 17 LCD (Liquid Crystal Display) Operation.....

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

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

.....  
18 Viewing the LCD.....

.....  
.....

.....  
.....  
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.....  
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. 18 Changing the machine settings .....

.....  
.....  
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. 19 Checking machine operating procedures .....

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

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.....

*21 Winding/Installing the Bobbin.....*

.....

.....  
.....  
.....  
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.....  
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*.23 Bobbin precautions ....*

.....

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*... 23 Winding the bobbin .....*

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.... 23 *Installing the bobbin* .

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.... 27 *Upper Threading* .....

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.....29 *About the spool of thread* .....

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*... 29 Threading the upper thread .....*

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*..... 29 Threading the needle ..*

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.....

*.. 32 Threading the needle manually (without using the needle threader) .....*

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

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

*..... 33 Using the twin needle ....*

.....  
.....  
.....  
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.....  
*... 38 Needle types and their uses..*

.....  
.....  
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*... 39 Checking the needle ..*

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*... 40 Replacing the needle.....*

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... 40 Replacing the Presser Foot ..

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

...42 Presser foot precautions .....

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.....  
.....  
.....  
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.....  
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.... 42 Replacing the presser foot .....

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. 42 Removing and attaching the presser foot holder ....

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*44 Sewing Cylindrical Pieces.....*

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*...45 Free-arm sewing.....*

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*45 SEWING BASICS 47 Sewing.....*

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.....

*..48 General sewing procedure .....*

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.....  
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.....  
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*..... 48 Selecting stitching ..*

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*.. 49 Positioning the fabric ...*

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*. 50 Starting to sew.....*

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*..... 51 Securing the stitching ....*

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*53 Cutting the thread .....*

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.....  
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.....  
..... *54 Setting the Stitch .*

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*56 Adjusting the stitch width .....*

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*..... 56 Adjusting the stitch length ..*

.....  
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..... 57 *Adjusting the thread tension* .....

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*80 Sewing overcasting stitches using the side cutter* .....

.....

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*... 81 Basic Stitching ..*

.....

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.....

*.....83 Basting ..*

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.... *83 Basic stitching* .

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.....

..... *83 Blind Hem Stitching* .

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....*85 Buttonhole Stitching/Button Sewing*....

.....

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.....  
.....  
*..87 Buttonhole sewing ...*  
.....

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

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

*..... 88 Button sewing .....*  
.....  
.....  
.....

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

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.....  
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.....  
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*92 Zipper Insertion.....*  
.....  
.....  
.....

.....  
.....  
.....  
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.....  
..94 Inserting a centered zipper .....

.....  
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.....  
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..... 94 Inserting a side zipper .

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

. 123 4 ----- Sewing the Various Built-in Decorative Patterns .....

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

..126 Sewing beautiful patterns .....

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

.....  
.....  
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.....  
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.....  
.....  
.....  
.....  
..... *126 Sewing patterns ..*

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.... *126 Changing the pattern size .*

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..... *127 Changing the stitch density .....*

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.....

..... 127 Changing the length for satin stitches ..

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

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

. 128 Shifting patterns ....

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

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

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

..... 129 Combining patterns ....

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

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

. 130 Storing patterns .....

.....  
.....  
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.. 133 Realigning the pattern ...

.....  
.....

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

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.....  
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.....

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

... 134 Designing a Pattern (My Custom Stitch).....

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

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

.....137 Drawing a sketch of the pattern...

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

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

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.....  
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.... 137 Entering the pattern data .....

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

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.....

. 138 Examples of designs ....

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

..... 140 EMBROIDERY 141 Embroidering Neatly .....

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

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

.....  
.....

.....  
.....

.....142 What to prepare ..

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

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

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

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

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

..... 142 Embroidery step by step ..

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

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

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

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

..... 144 Attaching the Embroidery Foot....

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

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

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

....145 Attaching the embroidery foot .....

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



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

*148 Attaching the embroidery unit .....*

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

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

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

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

*..... 148 Removing the embroidery unit .*

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

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

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

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

*..... 150 Preparing the Fabric ...*

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

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

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

*.151 Attaching a stabilizer material to the fabric ....*

.....  
.....

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

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

*151 Setting the fabric in the embroidery frame .....*

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

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

*. 152 Attaching the Embroidery Frame .....*

.....  
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*.....155 Attaching the embroidery frame ....*

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.....

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.....

.....  
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*.. 155 Removing the embroidery frame .....*

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

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

.....  
.....

*.. 156 Selecting Embroidery Patterns...*

.....

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.....  
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.....  
.....  
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*.157 Copyright information ....*

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.....  
.....  
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*..... 157 Embroidery pattern types....*

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

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.....

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

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

... 157 LCD (liquid crystal display) operation .....

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

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

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

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

158 Selecting characters .....

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

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

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

.... 160 Selecting an embroidery pattern .....

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

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.....

161 Selecting a frame pattern .....

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

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.....  
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.....

..... *162 Using an embroidery card (sold separately) ...*

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

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.....

*. 163 Embroidering....*

.....

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.....  
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*.164 Sewing attractive finishes ....*

.....  
.....

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.....  
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.....  
.....  
.....  
.. 164 Embroidering a pattern ...

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

..... 165 Appliquéing ...

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

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.....  
.....  
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.. 167 Editing Patterns .....

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

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.....  
...169 Adjusting the layout ..

.....  
.....

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..... 169 Adjusting the thread tension ...

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

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.....  
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.....

..... 171 Resewing .

.....  
.....  
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.....  
..... 172 Thread runs out partway through a design.

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.....  
.....  
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.....  
172 Stopping while embroidering .....

.....  
.....

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

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

.....  
173 Using the Memory Function .....

.....  
.....

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

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

.....  
..175 Embroidery data precautions...

.....  
.....

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

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.....

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

.....  
*... 175 Storing patterns ..*

.....  
.....

.....  
.....  
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*.... 176 Recalling embroidery patterns from the computer .....*

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

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.....

..... 177 5 ----- APPENDIX 179 Care and Maintenance ...

.....  
.....  
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.....  
.....  
..180 *Cleaning the machine surface* ...

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

. 180 *Cleaning the race* ....

.....  
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.... 180 *Troubleshooting* .....

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....182 *Error messages* .....

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.... 190 Canceling the operation beep .....

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... 191 Upgrading Your Machine's Software .....

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..192 Index ...

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....193 6 ----- Introduction Thank you for purchasing this sewing machine.



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Before using this sewing machine, carefully read the "Important Safety Instructions" (page 1), and then study this manual for the correct operation of the various functions. In addition, after you have finished reading this manual, store it where it can quickly be accessed for future reference. Sewing Machine Features 1 2 4 3 6 5 a Simple bobbin-winding The bobbin can quickly and easily be wound with thread (page 23). b Built-in stitches You can select from the built-in stitches available, including utility stitches and decorative stitches (page 68). c Quick-set bobbin You can start sewing without pulling up the bobbin thread (page 27). d Automatic thread cutting The thread can be cut automatically after sewing (page 60). e Embroidery You can embroider built-in embroidery patterns, characters, framed decorations, and designs from optional embroidery cards (page 141). f Knee lifter Use the knee lifter to raise and lower the presser foot with your knee, leaving both hands free to handle the fabric (page 65). Introduction / Sewing Machine Features 7

----- Accessories Included accessories After opening the box, check that the following accessories are included. If any item is missing or damaged, contact your retailer.

Note (For U.S.A. only) Foot controller: Model T This foot controller can be used on this machine model NV1200. The screw of the presser foot holder is available through your authorized dealer. (Part code: XA4813-051) The organized accessory tray is available, through your authorized dealer. (Part code:

XC4489-051) 1. 2. 3. 4.

5. 6. 7. 8. 9.

10. 11. 12. 13. 14.

15. 16. 17. 18. 19.\* 20. 21. 22. 23. 24.

25. 26. 27. 28. 29. 30. 31. 32. 33. 34.

35. 36. 37. 38. 39.

40. 41. 42. 43. 44.

45. \*75/11 2 needles 90/14 2 needles 90/14 2 needles: Ball point needle (gold colored) 8

----- No. 1 2 3 4 5 6 7 8 9 Part Code U.S.A. / Canada Others Buttonhole

foot "A" XC2691-053 Overcasting foot "G" XC3098-051 Monogramming foot "N" X53840-351 Zipper foot "I" X59370-051 Zigzag foot "J" (on machine) XC3021-051 Blind stitch foot "R" X56409-051 Part Name Button fitting foot "M" Walking foot Quilting foot 130489-001 No. 24 25 26 27 28 29 Part Name Screwdriver (small) Spool cap (large) Spool cap (medium) (2) Spool cap (small) Extra spool pin Spool net Part Code U.S.A. / Canada Others X55468-051 130012-054 X55260-153 130013-154 XC4654-051 XA5523-050 XD0501-021(EU area) XD8816-021(other areas) XD1534-051 XD1237-051 XD0474-051 SA444/EF84 EF84: XD0600-002 EF85: XD0601-002 BM3: X81175-001 X81164-001 EBT-CEN 30 Foot controller 10 Stitch guide foot "P" 11 Adjustable zipper/piping foot 12 Non stick foot 13 Open toe foot 14 1/4 inch quilting foot 15 Side cutter "S" 16 Quilting guide 17 Seam ripper 18 Bobbin (4) 19 20 21 22 23 Needle set Twin needle Cleaning brush Eyelet punch Screwdriver (large) F033N: SA140 31 Operation manual XC2214-002 F005N: 32 Quick reference guide SA129 XC1948-002 F035N: SA160 33 Embroidery foot "Q" XC1969-002 Embroidery set (large) F036N: 34 H 18cm x W 13 cm SA161 XC1970-002 (H 7 inches x W 5 inches) Embroidery set (extra large F007N: 35 (multi-position)) SA114 XC1949-002 H 30 cm x W 13 cm (H 12 inches x W 5 inches) F027N: Stabilizer material for SA147 36 embroidery XC1964-002 F001N: Embroidery bobbin thread SA125 XC1944-002 37 (white) F054: 38 Alternate bobbin case SA177 XC3879-002 (pink marking) F016N: SA132 39 Knee lifter XC2215-002 X54243-051 40 USB cable SFB: 41 Grid sheet set SA156 XA5539-151 X58358-051 42 Scissors X59296-151 43 Hard case X59476-051 44 Accessory bag 135793-001 45 Disc-shaped screwdriver XC8349-051 SA445/EF85 SA519 SA-EBT XC8167-251 XA6941-052 SA527 XD0745-051 GS4: XC4549-050 XC1807-121 XC9701-052 XC4487-051 XC1074-051 Accessories 9

----- Optional accessories The following are available as optional

accessories.

1. 2. 3. 4. 5. 6. No. Part Name Embroidery bobbin thread (white) Embroidery bobbin thread (black) Embroidery card Embroidery set (small) H 2 cm x W 6 cm (H 1 inch x W 2-1/2 inches) Embroidery set (medium) H 10 cm x W 10 cm (H 4 inches x W 4 inches) Water soluble stabilizer 1 2 3 4 Part Code U.S.A. / Canada Others X81164-001 SA-EBT EBT-CEN XC5520-001 SAEBT999 EBT-CEN SA442/ EF82 SA443/ EF83 SA520 SA519 SA551 EF82: XD0598-002 EF83: XD0599-002 BM4: X81267-001 BM3: X81175-001 WT5: XC9567-152 5 6 Stabilizer material for embroidery Wide table Memo To obtain optional accessories or parts, contact your sales representative or the nearest authorized service center. All specifications are correct at the time of printing. The part codes are subject to change without notice. Visit your nearest authorized retailer for a complete listing of optional accessories available for your machine. 10

----- Names of Machine Parts and Their Functions The names of the various

parts of the sewing machine and their functions are described below.

Before using the sewing machine, carefully read these descriptions to learn the names of the machine parts. Front view a Thread guide plate Pass the thread around the thread guide plate when threading the upper thread. b Thread guide cover Like with the thread guide plate, pass the thread around the thread guide cover when threading the upper thread. c Spool pin Place a spool of thread on the spool pin. d Bobbin winding thread guide Pass the thread around this thread guide when winding the bobbin thread.

e Top cover Open the top cover to place the spool of thread on the spool pin. f Bobbin winder Use the bobbin winder when winding the bobbin. g Operation panel From the operation panel, stitch settings can be viewed and edited, and operations for using the machine can be displayed (page 14). h Knee lifter mounting slot Plug the knee lifter into the knee lifter mounting slot. i Embroidery unit connector slot Plug in the connector for the embroidery unit. j Presser foot lever Raise and lower the presser foot lever to raise and lower the presser foot. k Operation buttons Use these buttons to operate the machine. l Flat bed attachment Insert the accessories tray into the accessory compartment of the flat bed attachment. Remove the flat bed attachment when sewing cylindrical pieces such as sleeve cuffs. m Thread cutter Pass the threads through the thread cutter to cut them.

n Needle threader lever Use the needle threader lever to thread the needle.



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*o Thread take-up lever check window* Look through the window to check the position of the take-up lever. *Names of Machine Parts and Their Functions 11*

----- *Needle and presser foot section Right-side/rear view* *a Buttonhole lever* Lower the buttonhole lever when sewing buttonholes and bar tacks. *b Thread guide disk* Pass the thread through the thread guide disk when using the needle threader to thread the needle. *c Needle bar thread guide* Pass the upper thread through the needle bar thread guide. *d Needle plate* The needle plate is marked with guides for sewing straight seams. *e Needle plate cover* Remove the needle plate cover to clean the bobbin case and race. *f Bobbin cover/bobbin case* Remove the bobbin cover, and then insert the bobbin into the bobbin case. *g Feed dogs* The feed dogs feed the fabric in the sewing direction. *h Presser foot* The presser foot applies pressure consistently on the fabric as the sewing takes place.

*Attach the appropriate presser foot for the selected stitching.* *i Presser foot holder* The presser foot is installed onto the presser foot holder. *a Handle* Carry the sewing machine by its handle when transporting the machine. *b Handwheel* Turn the handwheel toward you (counterclockwise) to raise and lower the needle to sew one stitch. *c Embroidery card slot* Insert the embroidery card.

*d USB port connector* Plug the USB cable into the USB port connector. *e Air vent* The air vent allows the air surrounding the motor to be exchanged. Do not cover the air vent while the sewing machine is being used. *f Main power switch* Use the main power switch to turn the sewing machine on and off. *g Foot controller jack* Insert the plug on the end of the foot controller cable into the foot controller jack.

*h Power supply jack* Insert the plug on the power supply cord into the power supply jack. *i Feed dog position switch* Use the feed dog position switch to lower the feed dogs. *j Presser foot pressure dial* Use the presser foot pressure dial to adjust the amount of pressure that the presser foot applies. *Memo* Refer to pages 11 through 14 while you are learning to use your machine. *12* -----

*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 slow speed at the beginning of sewing while the button is pressed. When sewing is stopped, the needle is lowered in the fabric. For details, refer to "Starting to sew" (page 51). The button changes color according to the machine's operation mode.

*Green:* Red: Orange: The machine is ready to sew or is sewing. The machine can not sew. The machine is winding the bobbin thread, or the bobbin winder shaft is moved to the right side. *Note* Do not press the thread cutter button if there is no fabric under the presser foot or while the machine is sewing, otherwise damage to the machine may occur. When cutting thread thicker than #30, nylon thread or other special threads, use the thread cutter on the side of the machine. For details, refer to "Using the thread cutter" (page 55). *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 53).

*c Needle position button* Press the needle position button to raise or lower the needle. Pressing the button twice sews one stitch. *d Thread cutter button* Press the thread cutter button after sewing is stopped to cut both the upper and the bobbin threads. For details, refer to "Cutting the thread" (page 54). *e Sewing speed controller* Slide the sewing speed controller to adjust the sewing speed.

**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. *Names of Machine Parts and Their Functions 13*

----- *Operation panel* The front operation panel has an LCD (liquid crystal display) and operation keys. *a c b f d e i g a LCD (liquid crystal display) (touch panel)* Selected pattern settings and messages are displayed. Touch the keys displayed on the LCD to perform operations. For details, refer to "LCD (Liquid Crystal Display) Operation" (page 18).

*b Back key* Press to return to the previous screen. *c Previous page key* Displays the previous screen when there are items that are not displayed on the LCD. *d Next page key* Displays the next screen when there are items that are not displayed on the LCD. *e Memory key* Press to enter character embroidery, combined stitch patterns, My Custom Stitch patterns, etc into the sewing machine memory. *h f Utility stitch key* Press this key to select a utility stitch or decorative stitch or to design a stitch pattern using the My Custom Stitch function. *g Embroidery key* Press this key to sew embroidery. *h Settings key* Press to set the needle stop position, the buzzer sound, and more. *i Sewing machine help key* Press to get help on using the sewing machine. Displays simple explanations of setting upper thread / bobbin winding / setting bobbin thread / needle replacement / embroidery unit attachment / embroidery frame attachment / embroidery foot attachment / presser foot replacement. *14 1 GETTING READY* The various preparations required before starting to sew are described in this chapter.

Turning the Machine On/Off .....

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..16 Power supply precautions .....

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....16 Turning on the machine .

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.....17 Turning off the machine .

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....17 LCD (Liquid Crystal Display) Operation.....

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18 Viewing the LCD .....

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.18 Changing the machine settings....

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*.19 Checking machine operating procedures .....*

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*21 Winding/Installing the Bobbin.....*

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*.23 Bobbin precautions .....*

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*....23 Installing the bobbin .....*

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.....27 Upper Threading .....

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.....29 About the spool of thread .....

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.....29 Threading the upper thread...

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..29 Threading the needle...

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..32 Threading the needle manually (without using the needle threader)..

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.....33 Using the twin needle .....

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*...34 Pulling up the bobbin thread.....*

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*.36 Replacing the Needle .....*

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*.....38 Needle precautions .....*

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*.....38 Needle types and their uses...*

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*..39 Checking the needle...*

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*...40 Replacing the needle ..*

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*...40 Replacing the Presser Foot ..*

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*....42 Presser foot precautions .*

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*.....42 Replacing the presser foot .*

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*.42 Removing and attaching the presser foot holder .....*

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*....44 Sewing Cylindrical Pieces.*

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*..45 Free-arm sewing...*

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*....45 GETTING READY ----- Turning the Machine On/Off This section explains how to turn the sewing machine on and off. Power supply precautions Be sure to observe the following precautions concerning the power supply.*



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**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. 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** 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. 16

----- Turning on the machine Prepare the included power cord. a off (the main power switch is set to "Turning off the machine When you are finished using the sewing machine, turn it off. In addition, before transporting the sewing machine to another location, be sure to turn it off.

a Make sure that the sewing machine is turned "off", and then plug the power supply cord into the power supply jack on the right side of the machine. Insert the plug of the power supply cord into a 1 Make sure that the machine is not sewing. Press the left side of the main power switch on machine off (set it to "off"). b the right side of the machine to turn the b household electrical outlet. 1 The sewing lamps go off when the machine is turned off.  
c electrical outlet. Unplug the power supply cord from the Grasp the plug when unplugging the power supply cord. a Power supply jack Press the right side of the main power switch c on the right side of the machine to turn the machine on (set it to "I"). d supply jack. Unplug the power supply 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 supply 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 light, LCD and (Start/stop button) light up when the machine is turned on. Turning the Machine On/Off 17 GETTING READY

----- LCD (Liquid Crystal Display) Operation Selected stitch, pattern settings and messages are displayed on the LCD (liquid crystal display) on the front of the sewing machine. Viewing the LCD When the power is turned on, the LCD comes on, and the following screen is displayed. The screen is changed using the keys below the screen, and operations performed by directly touching the icons on the LCD screen. Utility stitch selection screen ml a b c d e j h i g f k a b c d e f g h Selected stitch Presser foot to be used Stitches Stitch settings and twin needle sewing Stitch width (mm) Stitch length (mm) Thread tension Number of the selected stitch i Number of stitches contained in the selected stitch type j Horizontal mirror image k Automatic thread cutting l Automatic reverse/reinforcement m Single/twin needle sewing and needle stop position Stitch type selection screen Press (Utility stitch key) to display the screen for selecting the stitch type. The details are explained in "Selecting stitching" (page 49).

Memo A different screen is displayed when the embroidery unit is attached. Refer to "Error messages" (page 187) for messages displayed on the LCD. Depending on the model of sewing machine, an animation may be displayed when the power is turned on. When an animation is displayed, the screen above will be displayed if you touch the LCD with your finger. 18 ----- Changing the machine settings Various sewing machine operations and sewing settings can be changed.

The stitch or machine attributes that can be set are listed below. Attribute Needle position Stitch width control Vertical pattern adjustment Horizontal pattern adjustment Icon Details Specifies where the needle is positioned when the sewing machine is stopped. Allows the stitch width to be adjusted with the sewing speed controller. Adjusts the up and down position of the pattern (page 134). Adjusts the left and right position of the pattern (page 134). Changes the thread color display on the embroidery screen. (When "Thread No. #123" is selected) Selects the measurement units that are displayed (only for embroidering). Adjusts the thread tension for embroidering (only for embroidering). Specifies the maximum embroidering speed. Specifies whether or not a beep is sounded with each operation (page 191). Sets whether or not to display the opening screen when the power is turned on. (There are models where this cannot be changed.) Select the straight stitch that is automatically selected when the machine is turned on. Allows the language used in the screens to be changed.

English/German/French/Italian/Dutch/ Spanish/Japanese/Danish/Norwegian/ Finnish/Swedish/Portuguese/Russian/ Korean/Thai/others Lighter Darker -9 to +9 Settings Down Up 1 -9 to +9 Thread color/Time to embroider/ Needle count/Thread number (#123) Embroidery/Country/Madeira poly/ Madeira rayon/Sulky/Robison anton mm/INCH -8 to +8 Thread color display Display unit Embroidery tension Max embroidery speed Buzzer Opening screen Initial needle position Language LCD brightness Adjusts the brightness of the LCD. Display the service count and the total number of embroidery stitches. The service count is a reminder to take your machine in for regular servicing. (Contact your authorized dealer for details.) NO.: The "NO." is the number for the sewing and embroidery machine. Stitch counter Product number Program version VERSION: Display the program version. LCD (Liquid Crystal Display) Operation 19 GETTING READY ----- a Turn on the sewing machine.



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The LCD comes on.

b panel. Press (Settings key) on the operation The settings screen appears. c Switch screens using Press the item to be set. (Previous page key) and (Next page key). · The items shown in reverse highlighting are the settings at the time of purchase.

Example: Changing the needle stop position 20 ----- d (Back key). When settings are complete, press Checking machine operating procedures Displays simple explanations of setting upper thread / bobbin winding / setting bobbin thread / needle replacement / embroidery unit attachment / embroidery frame attachment / embroidery foot attachment / presser foot replacement on the LCD.

a 1 Turn on the sewing machine. The initial screen appears again. Note Settings that are changed are not lost when the power is turned off.

The LCD comes on. b operation panel. Press (Sewing machine help key) on the The sewing machine help screen appears. c Press the item to be displayed. 1 2 3 4 5 6 8 7 a b c d e f g h Upper threading Bobbin winding Bobbin installation Needle replacement Embroidery unit attachment Embroidery frame attachment Embroidery foot attachment Presser foot replacement The first screen describing the procedure for the selected topic appears. · Pressing (Back key), returns you to the item selection screen. LCD (Liquid Crystal Display) Operation 21 GETTING READY

----- d next page. Press (Next page key) to switch to the If you press (Previous page key), you return to the previous page. Example: Upper threading e key) two times. After you finish looking, press (Back The initial stitch screen appears again.

Note For details on each topic, refer to the corresponding page in this Operation Manual. 22

----- Winding/Installing the Bobbin This section describes how to wind the thread onto the bobbin, and then insert the bobbin thread. Bobbin precautions Be sure to observe the following precautions concerning the bobbin. Winding the bobbin Wind the thread around the bobbin to prepare the bobbin thread. a 1 CAUTION Only use the Bobbin (part code: 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). Actual size 11.

5 mm (7/16 inch) This model Other model Turn on the sewing machine. b Open the top cover. c that the spring on the shaft fits into the notch Place the bobbin on the bobbin winder shaft so in the bobbin. Press down on the bobbin until it snaps into place. 1 2 a Notch b Bobbin winder shaft spring d arrow until it snaps into place.

Slide the bobbin winder in the direction of the · (Start/stop button) lights up in orange. Winding/Installing the Bobbin 23 GETTING READY

----- e spool pin. Remove the spool cap that is inserted onto the g Slide the spool cap as far as possible to the right, as shown, with the rounded side on the left. Slide the spool cap onto the spool pin. 1 2 a Spool pin b Spool cap CAUTION If the spool or the spool cap is not installed correctly, the thread may become tangled around the spool pin, causing the needle to break.

Three spool cap sizes are available, allowing you to choose a spool cap that best fits the size of spool being used. If the spool cap is too small for the spool being used, the thread may catch on the slit in the spool or the needle may break. Place the spool of thread for the bobbin onto f the spool pin. Slide the spool onto the pin so that the spool is horizontal and the thread unwinds to the front at the bottom. · If the spool is not positioned so that the thread unwinds correctly, the thread may become tangled around the spool pin. 24 -----

Memo When sewing with fine, cross-wound thread, use the small spool cap, and leave a small space between the cap and the spool. i and then pull it to the right. Pass the thread under the thread guide plate, 1 c b a 1 a Spool cap (small) b Spool (cross-wound thread) c Space a Thread guide plate j guide, and then wind it counterclockwise Pass the thread under the hook on the thread under the pretension disk. 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.

1 1 2 1 3 4 a b c d Spool net Spool Spool cap Spool pin a Thread guide h your right hand, as shown, pull the thread with While holding the thread near the spool with Note Make sure that the thread passes under the pretension disk. your left hand, and then pass the thread behind the thread guide cover and to the front. 1 a Thread guide cover Winding/Installing the Bobbin 25 GETTING READY ----- k

wind the thread that was pulled out clockwise While holding the thread with your left hand, around the bobbin five or six times with your right hand. n winding the bobbin. Press (Start/stop button) once to start 1 a Start/stop button Note Make sure that the thread between the spool and the bobbin is pulled tight. Be sure to wind the thread clockwise around the bobbin, otherwise the thread will become wrapped around the bobbin winder shaft. · When the bobbin winding becomes slow, press machine. (Start/stop button) once to stop the CAUTION When the bobbin winding becomes slow, stop the machine, otherwise the sewing machine may be damaged. o wound around the bobbin. l slit in the bobbin winder seat, and then pull Pass the end of the thread through the guide the thread to the right to cut it.

Use scissors to cut the end of the thread 1 a Guide slit in bobbin winder seat (with built-in cutter) 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 thread may become tangled in the bobbin or the needle may bend or break when the bobbin thread starts to run out. m p then remove the bobbin from the shaft. Slide the bobbin winder shaft to the left, and Slide the sewing speed controller to the right.



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q the spool pin, and then close the top cover.

Remove the spool for the bobbin thread from Memo When the sewing machine is started or the handwheel is turned after winding the bobbin, the machine will make a clicking sound; this is not a malfunction. 1 a Speed controller 26

----- d the thread unrolls to the left. Insert the bobbin into the bobbin case so that Installing the bobbin Install the bobbin wound with thread. CAUTION Use a bobbin that has been correctly wound with thread, otherwise the needle may break or the thread tension will be incorrect. 1 · Be sure to insert the bobbin correctly.

CAUTION Be sure to install the bobbin so that the thread unwinds in the correct direction, otherwise the thread may break or the thread tension will be incorrect. 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). Actual size 11.5 mm (7/16 inch) This model a Memo The order that the bobbin thread should be passed through the bobbin case is indicated by marks around the bobbin case. Be sure to thread the machine as indicated. Other model Slide the bobbin cover latch to the right. 1 2 e hand, and then guide the thread as shown with Lightly hold down the bobbin with your right your left hand. a Bobbin cover b Latch The bobbin cover opens.

b Remove the bobbin cover. Hold the bobbin with your right hand and hold c the end of the thread with your left. CAUTION When installing the bobbin, be sure to hold it down with your finger. If the bobbin is not correctly installed, the thread tension will be incorrect. · Be careful not to drop the bobbin.

Winding/Installing the Bobbin 27 GETTING READY ----- f then pull the thread out toward the front. Pass the thread through the slot as shown, and g Insert the tab in the lower-left corner of the Reattach the bobbin cover. bobbin cover, and then lightly press down on the right side. 2 1 1 a Cutter The cutter cuts the thread. The bobbin threading is finished.

Next, thread the upper thread. Continue with the procedure in "Upper Threading" (page 29). Note Make sure that the thread is correctly inserted through the tension-adjusting spring of the bobbin case. If it is not inserted correctly, reinsert the thread. Memo You can begin sewing without pulling up the bobbin thread.

If you wish to pull up the bobbin thread before starting to sew, pull up the thread according to the procedure in "Pulling up the bobbin thread" (page 36). 1 a Tension-adjusting spring 28 ----- Upper Threading This section describes how to position the spool for the upper thread, and then thread the needle. CAUTION When threading the upper thread, carefully follow the instructions. If the upper threading is not correct, the thread may become tangled or the needle may bend or break. 1 About the spool of thread Information about the spools of thread is described below.

Threading the upper thread Set the spool of thread on the spool pin, and then thread the machine. a CAUTION Three spool cap sizes are available, allowing you to choose a spool cap that best fits the size of spool being used. If the spool cap is too small for the spool being used, the thread may catch on the slit in the spool or the needle may break. Turn on the sewing machine. b foot. Raise the presser foot lever to raise the presser a a Presser foot lever Note If the presser foot is not raised, the sewing machine cannot be threaded. Upper Threading 29 GETTING READY

----- c twice to raise the needle. Press (Needle position button) once or f Slide the spool onto the pin so that the spool is Place the spool of thread onto the spool pin. horizontal and the thread unwinds to the front at the bottom. 1 a Needle position button The needle is correctly raised when the mark on the handwheel is at the top, as shown below.

Check the handwheel and, if this mark is not at this position, press (Needle position button) until it is. CAUTION If the spool or the spool cap is not positioned correctly, the thread may become tangled around the spool pin or the needle may break. g Slide the spool cap as far as possible to the 1 Slide the spool cap onto the spool pin. right, as shown, with the rounded side on the left. a Mark on handwheel d Open the top cover. h right hand, pull the thread with your left hand, While holding the thread lightly with your Remove the spool cap that is inserted onto the e spool pin. and then pass the thread behind the thread guide cover and to the front. 1 2 a Spool pin b Spool cap a Thread guide cover 30

----- i and then pull it up. Pass the thread under the thread guide plate, 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, then feeding the thread with your right hand, as shown.

1 1 a Thread guide plate j thread passed under the thread guide plate, 1 While using your right hand to lightly hold the a Needle bar thread guide pass the thread through the guides in the order shown below. 1 a Shutter Note If the presser foot has been lowered and the shutter is closed, the machine cannot be threaded. Be sure to raise the presser foot and open the shutter before threading the machine. In addition, before removing the upper thread, be sure to raise the presser foot and open the shutter. This machine is equipped with a window that allows you to check the position of the take-up lever.

Look through this window and check that the thread is correctly fed through the take-up lever. Upper Threading 31 GETTING READY

----- Threading the needle This section describes how to thread the needle. Note If the thread is pulled through and cannot be cut correctly, lower the presser foot so that the thread is held in place before cutting the thread. If this operation is performed, skip step c. 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").



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Memo The needle threader can be used with sewing machine needles 75/11 through 100/16. Thread with a thickness of 130/20 or thicker cannot be used with the needle threader. The needle threader cannot be used with the wing needle or the twin needle. If the needle threader cannot be used, refer to "Threading the needle manually (without using the needle threader)" (page 33). a needle bar thread guide to the left, and then Pull the end of the thread passed through the pass the thread through the thread guide disk from the front. 1 1 a 80mm or more c presser foot. Lower the presser foot lever to lower the 1 a Thread guide disk b of the machine. a Presser foot lever d side of the machine until it clicks, and then Cut the thread with the cutter on the left side Lower the needle threader lever on the left 1 slowly return the lever to its original position.

1 a Cutter a Needle threader lever The thread is passed through the eye of the needle. 32

----- Note If the needle was not completely threaded, but a loop in the thread was formed in the eye of the needle, carefully pull the loop through the eye of the needle to pull out the end of the thread. Threading the needle manually (without using the needle threader) When using special thread, thread with a thickness of 130/20 or thicker, the wing needle or the twin needle which cannot be used with the needle threader, thread the needle as described below. a guide. 1 Thread the machine to the needle bar thread · For details, refer to "Upper Threading" (page 29). b Lower the presser foot lever. CAUTION When pulling out the thread, do not pull it with extreme force, otherwise the needle may break or bend. Raise the presser foot lever, pass the end of the e thread through the presser foot, and then pull out about 5 cm of thread toward the rear of the machine. 1 a Pressor foot lever c from front to back. Pass the thread through the eye of the needle 1 a 5 cm The upper threading is finished.

Now that the upper threading and the lower threading are finished, you are ready to begin sewing. d thread through the presser foot, and then pull Raise the presser foot lever, pass the end of the out about 5 cm of thread toward the rear of the machine. Note If the needle is not raised, the needle threader cannot thread the needle. Be sure to press (Needle position button) to raise the needle before using the needle threader. Upper Threading 33 GETTING READY ----- d winder shaft.

Insert the extra spool pin onto the bobbin Insert the extra spool pin so that it is perpendicular to the bobbin winder shaft. 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, the extra spool pin and the spool cap. For details on the stitches that can be sewn with the twin needle, refer to "Stitch Setting Chart" (page 68).

1 a Bobbin winder shaft e horizontal. Swing down the spool pin so that it is CAUTION Only use the twin needle (part code: X59296-151). 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. a f the right side onto the extra spool pin, and Place the upper thread spool for the needle on then secure it with the spool cap. The thread should unroll from the top front of the spool. Install the twin needle. · For details on installing a needle, refer to "Replacing the needle" (page 40). Thread the upper thread for the left needle b eye.

· For details, refer to steps a through k of "Threading the upper thread" (page 29). c thread. 1 2 Manually thread the left needle with the upper Pass the thread through the eye of the needle from the front. a Spool cap b Spool · 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. 34 ----- g the upper thread for the left side was threaded. Thread the upper thread in the same way that j Turn on the sewing machine and select a stitch. · For stitch selection see "Selecting stitching" (page 49). · See "Stitch Setting Chart" (page 68) for stitches that use a twin needle. 1 1 Note When using the pintuck foot (sold separately) to sew straight pintucks with the twin needle, select the stitch with the center needle position.

a Thread guide cover · For details, refer to steps h through j of "Threading the upper thread" (page 30). Without passing the thread through the needle h bar thread guide, manually thread the right needle. Pass the thread through the eye of the needle from the front. CAUTION When using the twin needle, be sure to select an appropriate stitch, otherwise the needle may break or the machine may be damaged. k Press .

· 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. i Attach zigzag foot "J". · For details on changing the presser foot, refer to "Replacing the Presser Foot" (page 42). l The screen for setting the twin needle appears. Press . CAUTION When using the twin needle, be sure to attach zigzag foot "J". If bunched stitches occur, use presser foot "N" or attach stabilizer material. displays in reverse highlight. · If pressed again, it returns to The twin needle can now be used. . Upper Threading 35 GETTING READY

----- m Press (Back key). The initial screen appears again, and appears. Pulling up the bobbin thread When making gathers or before free-motion quilting, first pull up the bobbin thread as described below. a Insert the bobbin into the bobbin case.

· Refer to steps a through e of "Installing the bobbin" (page 27). Pass the bobbin thread through the slot. b Do not cut the thread with the cutter. CAUTION When using the twin needle, be sure to select the twin needle setting, otherwise the needle may break or the machine may be damaged. n c your left hand, press Start sewing. · For details on starting to sew, refer to "Starting to sew" (page 51). Two lines of stitching are sewn parallel to each other. While lightly holding the upper thread with (Needle position button) twice to raise the needle. a a Needle position button The bobbin thread is looped around the upper thread and can be pulled up.



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d out the end of the bobbin thread.

Carefully pull the upper thread upward to pull Note When changing the sewing direction, press (Needle position button) to raise the needle from the fabric, and then raise the presser foot lever and turn the fabric. CAUTION 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. 36 ----- e bobbin thread under the presser foot toward Pull out about 10-15 cm (4-5 inches) of the the rear of the machine. I f Insert the tab in the lower-left corner of the Reattach the bobbin cover. bobbin cover, and then lightly press down on the right side.

2 1 Upper Threading 37 GETTING READY ----- Replacing the Needle This section describes how to replace the needle. Needle precautions Be sure to observe the following precautions concerning the handling of the needle. Failure to observe these precautions is extremely dangerous, for example, if the needle breaks and fragments are dispersed. Be sure to read and carefully follow the instructions below. CAUTION 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. 38 ----- 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 Jersey Stretch fabrics Tricot Cotton thread 5080 Easily frayed fabrics Synthetic thread Silk thread Synthetic thread For top-stitching Silk thread Thread and needle number The lower the thread number is, the larger the thread, and the larger the needle number, the larger the needle. Ball point needle (gold colored) To avoid skipped stitches use ball point needles with stretch fabrics. Transparent nylon thread Use a 90/14 to 100/16 needle, regardless of the fabric or thread. Embroidery needles Use a 75/11 home sewing machine needle. When embroidering on thick fabrics such as denim, use a 90/14 or 100/16 home sewing machine needle.

A 75/11 needle is already installed when the sewing machine is purchased. 30 90/14100/16 50 65/990/14 Thread for knits 5060 Cotton thread 6080 Synthetic thread Silk thread Cotton thread 6080 Synthetic thread Silk thread Cotton thread Synthetic thread 50 Silk thread Ball point needle (gold colored) 75/1190/14 50 3050 90/14100/16 65/975/11 50 75/1190/14 Size Size of Needle 1 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. Replacing the Needle 39 GETTING READY ----- Checking the needle Sewing with a bent needle is extremely

dangerous since the needle may break while the machine is being operated. Before using the needle, place the flat side of the needle on a flat surface and check that the distance between the needle and the flat surface is even. Replacing the needle Replace the needle as described below. Use the screwdriver and a needle that has been determined to be straight according to the instructions in "Checking the needle". a twice to raise the needle. Press (Needle position button) once or 1 2 1 a Needle position button a Flat side b Needle type marking b Turn off the sewing machine.

CAUTION 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 (Start/stop button) is accidentally pressed and the machine starts sewing. c 1 Lower the presser foot lever. 1 a Flat surface a Presser foot lever d cover the hole in the needle plate.

1 Place fabric or paper under the presser foot to Note Before replacing the needle, cover the hole in the needle plate with fabric or paper to prevent the needle from falling into the machine. 40 ----- e use a screwdriver to turn the needle clamp Hold the needle with your left hand, and then screw toward you (counterclockwise) to remove the needle. g use the screwdriver to tighten the needle clamp While holding the needle with your left hand, screw. 1 1 Install the twin needle in the same way. 2 a Screwdriver b Needle clamp screw · Do not apply a strong force when loosening or tightening the needle clamp screw, otherwise certain parts of the sewing machine may be damaged.

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. f of the machine, insert the needle until it With the flat side of the needle toward the rear touches the needle stopper.

1 a Needle stopper Replacing the Needle 41 GETTING READY ----- Replacing the Presser Foot This section describes how to replace the presser foot. Presser foot precautions Be sure to observe the following precautions concerning the presser feet. 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. c Raise the presser foot lever. Replacing the presser foot Replace the presser foot as described below. a twice to raise the needle.

Press (Needle position button) once or a Presser foot lever The presser foot is raised. 1 d presser foot holder. Press the black button at the back of the a Needle position button b a Turn off the sewing machine. b CAUTION Before replacing the presser foot, be sure to turn off the sewing machine, otherwise injuries may occur if (Start/stop button) is accidentally pressed and the machine starts sewing.



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a Black button b Presser foot holder The presser foot holder releases the presser foot. 42

----- e so that the presser foot pin is aligned with the Place a different presser foot below the holder notch in the holder. Position the presser foot so the letter indicating the presser foot type (A, G, I, J, M, N or R) is positioned to be read. Note When a stitch is selected, the icon for the presser foot that should be used appears in the screen. Check that the correct presser foot is attached before starting to sew. If the wrong presser foot is installed, turn off the sewing machine, attach the correct presser foot, and then select the desired stitch again.

1 a b c a Presser foot holder b Notch c Pin f presser foot pin snaps into the notch in the Buttonhole foot "A" Overcasting foot "G" Zigzag foot "J" Button fitting foot "M" Monogramming foot "N" Blind stitch foot "R" Side cutter "S" Slowly lower the presser foot lever so that the presser foot holder. 1 a Presser foot lever For details on the presser foot that should be used with the selected stitch, refer to "Stitch Setting Chart" (page 68). The presser foot is attached. g presser foot is securely attached. Raise the presser foot lever to check that the Replacing the Presser Foot 43 GETTING READY

----- c right hand, and then tighten the screw using Hold the presser foot holder in place with your the screwdriver in your left hand.

Removing and attaching the presser foot holder Remove the presser foot holder when cleaning the sewing machine or when installing a presser foot that does not use the presser foot holder, such as the embroidery foot and quilting foot. Use the screwdriver to remove the presser foot holder. a Remove the presser foot. @@Use the screwdriver to loosen the presser foot a Screwdriver 1 b holder screw. Note If the presser foot holder is not correctly installed, the thread tension will be incorrect.

b ac a Screwdriver b Presser foot holder c Presser foot holder screw Attaching the presser foot holder a Raise the presser foot lever. Align the presser foot holder with the lower- b left side of the presser bar. 44 ----- Sewing

Cylindrical Pieces Free-arm sewing makes sewing cylindrical pieces easy. Free-arm sewing Removing the flat bed attachment allows for free-arm sewing, making it easier to sew cylindrical pieces such as sleeve cuffs and pant legs. a 1 Pull the flat bed attachment off to the left. With the flat bed attachment removed, freearm sewing is possible. b arm, and then sew from the top. Slide the part that you wish to sew onto the c install the flat bed attachment back in its When you are finished with free-arm sewing, original position. Sewing Cylindrical Pieces 45 GETTING READY

----- 46 2 SEWING BASICS The necessary preparations for sewing are described in this chapter. Sewing.

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.....48 General sewing procedure ....

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..48 Selecting stitching ...

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*..54 Setting the Stitch .....*

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*...56 Adjusting the stitch width ..*

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*.....56 Adjusting the stitch length.....*

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*.....57 Adjusting the thread tension ...*

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*57 Useful Functions.....*

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.....59 *Automatically sewing reverse/reinforcement stitches ...*

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.....59 *Automatically cutting the thread...*

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...60 *Mirroring stitches.*

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...61 *Useful Sewing Tips .....*

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..62 *Trial sewing.....*

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*.62 Changing the sewing direction ....*

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*.62 Sewing curves .....*

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*.62 Adjusting the presser foot pressure ....*

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*....62 Sewing thick fabrics .*

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*63 Sewing thin fabrics .....*

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*...64 Sewing stretch fabrics .....*

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*.64 Sewing leathers or vinyl fabrics.....*

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*.....64 Sewing an even seam allowance .....*

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*..64 Hands-free raising and lifting of the presser foot ...*

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*....65 SEWING BASICS ----- Sewing Basic sewing operations are described below.*

*Before operating the sewing machine, read the following precautions. CAUTION While the machine is in operation, pay special attention to the needle location. In addition, keep your hands away from all moving parts such as the needle and handwheel, otherwise injuries may occur. Do not pull or push the fabric too hard while sewing, otherwise injuries may occur or the needle may break. Never use bent needles.*

*Bent needles can easily break, possibly resulting in injuries. Make sure that the needle does not strike basting pins, otherwise the needle may break or bend.*

*General sewing procedure Follow the basic procedures below to sew. 1 Turn on the machine. Turn on the sewing machine.*

*For details on turning on the machine, refer to "Turning on the machine" (page 17). 2 Select the stitch. Select the stitch appropriate for the area to be sewn.*

For details on selecting a stitch, refer to "Selecting stitching" (page 49). 3 Attach the presser foot. Attach the presser foot appropriate for the stitch. (Be sure to turn off the machine before replacing the presser foot.) For details on replacing the presser foot, refer to "Replacing the presser foot" (page 42). 4 Position the fabric. Place the area to be sewn under the presser foot. Be sure that the fabric pieces are sewn in the correct order and that the right and wrong sides of the fabric are aligned correctly. For details on positioning the fabric, refer to "Positioning the fabric" (page 50). 5 Start sewing. Start sewing. For details on starting to sew, refer to "Starting to sew" (page 51).

6 Cut the thread. Cut the thread at the end of sewing. For details on cutting the thread, refer to "Cutting the thread" (page 54). 48

----- Selecting stitching Stitches are selected using LCD operations. There are 71 utility stitches. Right after turning the power on, the straight stitch (left needle position) is selected. The machine can also be set to select the straight stitch (center needle position). For details on changing the setting, refer to page 19. a matching presser foot ready. Determine the stitch to be used, and get the - Refer to "Stitch Setting Chart" (page 68).

Example: 11 is selected: 2 b The machine comes with zigzag foot "J" Attach the presser foot. attached. CAUTION Use the presser foot appropriate for the stitch. If the wrong presser foot is used, the needle may hit the presser foot and break or bend. c The stitch is selected, and the stitch number and settings are displayed.

e reverse/reinforcement stitching and adjust the If necessary, specify the setting for automatic stitch length, etc.



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