

brother

Please visit us at http://s.brother/cpmaa/ where you can get the support information (Instruction Videos, FAQs, etc.) for your Brother

Be sure to read this document before using the machine. We recommend that you keep this document nearby for future reference.

IMPORTANT SAFETY INSTRUCTIONS

Please read these safety instructions before attempting to use the

▲ DANGER

1 Always unplug the machine from the electrical outlet immediately after using, when cleaning, when making any user servicing adjustments mentioned in this manual, or if you are leaving the machine unattended.

A WARNING

- To reduce the risk of burns, fire, electric shock, or injury to persons.

- **2** Always unplug the machine from the electrical outlet when making any adjustments mentioned in the instruction manual: · To unplug the machine, switch the machine to the symbol "O"
- position to turn it off, then grasp the plug and pull it out of the electrical outlet. Do not pull on the cord. · Plug the machine directly into the electrical outlet. Do not use
- an extension cord.
- · Always unplug your machine if the power is cut.

3 Electrical Hazards:

- This machine should be connected to an AC power source within the range indicated on the rating label. Do not connect it to a DC power source or inverter. If you are not sure what kind of power source you have, contact a qualified electrician. This machine is approved for use in the country of purchase only.
- 4 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,

repair, electrical or mechanical adjustment. · While the machine is stored or in use if you notice anything

authorized Brother dealer or service center for examination,

unusual, such as an odor, heat, discoloration or deformation, stop using the machine and immediately unplug the power cord.

or water is spilled on the unit. Return the machine to the nearest

- · When transporting the machine, be sure to carry it by its handle. Lifting the machine by any other part may damage the machine or result in the machine falling, which could cause injuries.
- When lifting the machine, be careful not to make any sudden or careless movements, otherwise you may injure your back or knees.
- **5** Always keep your work area clear:
- · Never operate the machine with any air openings blocked. Keep ventilation openings of the 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
- · Do not use the machine near a heat source, such as a stove or iron; otherwise, the machine, power cord or garment being sewn may ignite, resulting in fire or an electric shock.
- Do not place this machine on an unstable surface, such as an unsteady or slanted table, otherwise the machine may fall, resulting in injuries.

6 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.
- · Do not turn on the machine while pressing down the foot controller. The machine may start unexpectedly and cause personal injury or damage to the machine
- · Switch the 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
- · Do not push or pull the fabric when sewing, and follow careful instruction when freehand stitching so that you do not deflect the needle and cause it to break.

7 This machine is not a toy:

- · Your close attention is necessary when the machine is used by or near children.
- · The plastic bag that this machine was supplied in should be kept out of the reach of children or disposed of. Never allow children to play with the bag due to the danger of suffocation.
- Do not use outdoors.

8 For a longer service life:

- · When storing this machine, avoid direct sunlight and high humidity locations. Do not use or store the machine near a space heater, iron, halogen lamp, or other hot objects.
- · Use only neutral soaps or detergents to clean the case. Benzene, thinner, and scouring powders can damage the case and machine, and should never be used.
- · Always consult the operation manual when replacing or installing any assemblies, the presser feet, needle, or other parts to assure correct installation.

9 For repair or adjustment:

- If the light unit (light-emitting diode) is damaged, it must be replaced by authorized Brother Service Center.
- 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 Service Center.

Use this machine only for its intended use as described in this manual. Use accessories recommended by the manufacturer as contained in this manual. The contents of this manual and specifications of this product are

subject to change without notice.

For additional product information, visit our web site at www.brother.

SAVE THESE INSTRUCTIONS

This machine is intended for household use.

FOR USERS IN COUNTRIES EXCEPT **CENELEC COUNTRIES**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

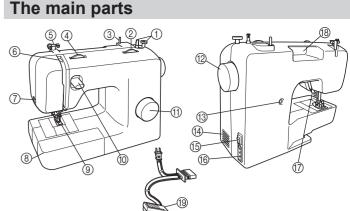
FOR USERS IN CENELEC COUNTRIES

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

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 · Always replace the fuse cover. Never use plugs with the fuse cover
- If the available electrical outlet is not suitable for the plug supplied
- with this equipment, you should contact your authorized Brother Service Center to obtain the correct lead.



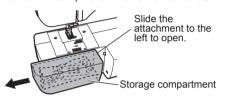
XH2149-001

- ① Bobbin winder This winds the thread onto the bobbin for use as the lower thread.
- ② Stitch length dial Rotate the dial to control the stitch length.
- (3) Spool pin
- This holds the spool of thread. 4 Upper tension-control dial
- This controls the tension of the upper thread
- ⑤ Thread quide This is used when winding the thread onto the bobbin and then
- threading the machine 6 Thread take-up lever
- Pass the threads through the thread cutter to cut them. 8 Flat bed attachment with accessory compartment

7 Thread cutter

- Presser foot
- (10) Reverse sewing lever
- Push this lever to stitch in the reverse direction. 11) Pattern selection dial
- Rotate the dial in either direction to choose the stitch you want.
- 12 Handwheel Used to manually raise and lower the needle.
- Buttonhole fine-adjustment screw
- (4) Air vent
- The air vent allows the air surrounding the motor to circulate. Do not cover the air vent while the machine is being used.
- (5) Main power and sewing light switch You can turn the main power and sewing light switch on and off
- (6) Foot controller jack / socket Plug in the foot controller plug and connect the machine to the power
- supply. Presser foot lever
- Used to raise and lower the presser foot. (18) Handle
- Carry the machine by its handle when transporting
- 19 Foot controller You can use this to control the sewing speed, and to start and stop sewing.

■ Flat bed attachment The accessories can be stored in a compartment inside the flat bed attachment



Using Your Sewing Machine

A WARNING

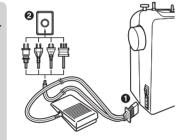
- Use only regular household electricity for the power source. Using other power sources may result in fire, electric shock, or damage to the machine. Make sure that the plugs on the power cord are firmly inserted into the electrical outlet and the power supply jack on the machine. Otherwise, a fire or electric shock may result
- Do not insert the plug on the power cord into an electrical outlet that is in poor
- 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 machine does not operate correctly due to a bad connection or a During electrical storms

· When the power fails during use

▲ CAUTION

- Use only the power cord included with this machine.
- Do not use extension cords or multi-plug adapters with many other appliances olugged 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 Brother Service Center 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.

■ Connecting plugs



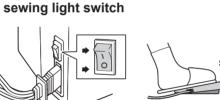
■ Main power and

Press the foot

controller down to start

sewing. Take your foot

off the foot controller to



Press the power switch toward the "I" mark to turn the main power and sewing light on. Press toward the "O" mark

■ Foot controller

(For U.S.A. only)

A CAUTION Do not allow pieces of cloth and dust to build up on the foot controller. Doing so could cause a fire or an electric shock

Note

• If a power outage occurs while the sewing machine

unplug the power supply cord. When restarting the

sewing machine, follow the necessary procedure

wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized

outlet only one way. If the plug does not fit fully in

If it still does not fit, contact a qualified electrician

to install the proper outlet. Do not modify the plug

is being operated, turn off the main power and

This appliance has a polarized plug (one blade

to correctly operate the machine.

the outlet, reverse the plug.

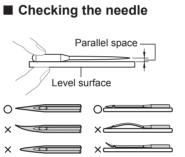
(For U.S.A. only) ● Foot Controller: Model KD-1902 This foot controller can be used on the machine with product code 888-X03, 888-X13 and 888-X23. The product code is mentioned

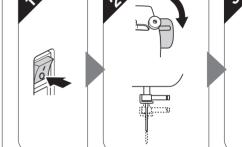
on the machine rating plate.

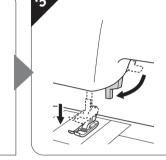
Replacing the needle

A CAUTION

- Always turn off the machine before you change the needle. Otherwise, injuries may occur if the foot controller is accidentally pressed and the machine starts sewing.
- Only use sewing machine needles for home use. Other needles may bend or break and cause injury.
- Never sew with a bent needle. A bent needle will easily break and cause injury.

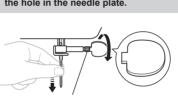






A CAUTION

 Before replacing the needle, place fabric or paper under the presser foot the hole in the needle plate.



Turn the screw counterclockwise

Changing the presser foot

 Always turn off the machine before you change the presser foot. If you leave the power on and

Always use the correct presser foot for the

stitch pattern you have chosen. If you use the

wrong presser foot, the needle may strike the

Only use presser feet that have been designed

to be used with this machine. Using any other presser foot may cause accident or injury.

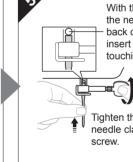
presser foot and bend or break, and may cause

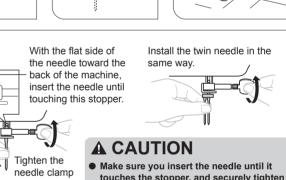
step on the controller, the machine will start and

A CAUTION

you may be injured.







the needle clamp screw with a screwdriver,

otherwise the needle may break or the

Mark on the wheel points up to raise

the needle.

■ Presser foot installation orientation

machine may be damaged

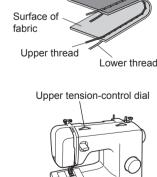
Thread tension

The tension of the thread will affect the quality of your stitches. You may need to adjust it when you change fabric or thread. We recommend that you do a test sample on scrap of a fabric before you start to sew.

your fabric

■ Correct tension Correct tension is important as too much or too little tension will weaken your seams or cause puckers on

Back of fabric

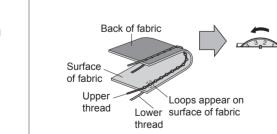


■ Upper tension is too tight

Loops will appear on the surface of the fabric.

Note

 If the bobbin thread was incorrectly threaded, the upper thread may be too tight. In this case, refer to 1 Lower threading" on the back side to rethread the bobbin thread.

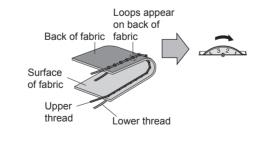


Solution: Reduce the tension by turning the upper tension control dial to a lower number

■ Upper tension is too loose Loops appear on the back of the fabric.

Note

 If the upper thread was incorrectly threaded, the upper thread may be too loose. In this case, refer to "2 Upper threading" on the back side and rethread the upper thread.

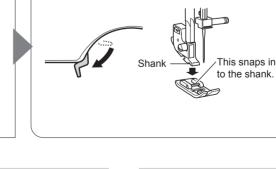


Solution: Increase the tension by turning the upper tension control dial to a higher number.

Press the black button at the back of the presser foot holder to release the presser foot.

resser foot holder

Black



Trial sewing

Use a piece of fabric and thread that are the same as those used for your project, and check the thread tension and stitch length and width

Stop the machine with the needle in the fabric at the point where you want to change the sewing direction

Changing the sewing direction

and then raise the presser foot lever. Using the needle as a pivot, turn the fabric, lower the presser foot lever and then continue sewing.



▲ CAUTION

If the presser foot is

not installed with the

correct orientation, the

needle may strike the

the needle and cause

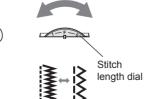
injury.

presser foot, which may bend or break

Depending on the selected stitch, you may need to adjust the stitch

THE HIGHER THE NUMBER, THE LONGER THE STITCH. With the "0" setting, material is not fed. This is used when sewing a button The "F"-"1" range is for making a satin stitch (closed zigzag stitch) which is used for making buttonholes and decorative stitches. The position needed for making the satin stitch varies according to the material and thread being used. To determine the exact dial position,





Longer

Shorter

length and continue sewing. Do not continue sewing without lengthening the stitch length, otherwise the needle may break and cause injury

• If the stitches are bunched

together, lengthen the stitch

A CAUTION

Sewing stretch fabrics First, baste the pieces



Reverse sewing · To sew in reverse, push the

reverse sewing lever in as far as possible and hold it in that position while you lightly push the foot controller

· To sew forward, release

the reverse sewing lever.

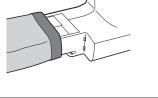
The machine will then sew forward. The length of reverse stitches is fixed at 2 mm (1/16 inch).

Note



Stitching cylindrical pieces

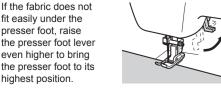
the left to release it. When you are finished with free-arm sewing, install the flat bed attachment back in



Stitch length dial

length for best results. The numbers marked on the stitch length dial represent the stitch length in millimeters (mm) (1/25 inch).

first test the stitch and length settings on a scrap piece of fabric to observe the feeding of the material.





Sewing thick fabrics

When sewing thin

Sewing thin fabrics

fabrics, the stitching may become misaligned or the fabric may not feed correctly. If this occurs, place thin paper or stabilizer material under the fabric and sew it together with the fabric. When you have finished sewing tear off any excess paper.

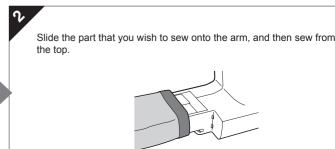


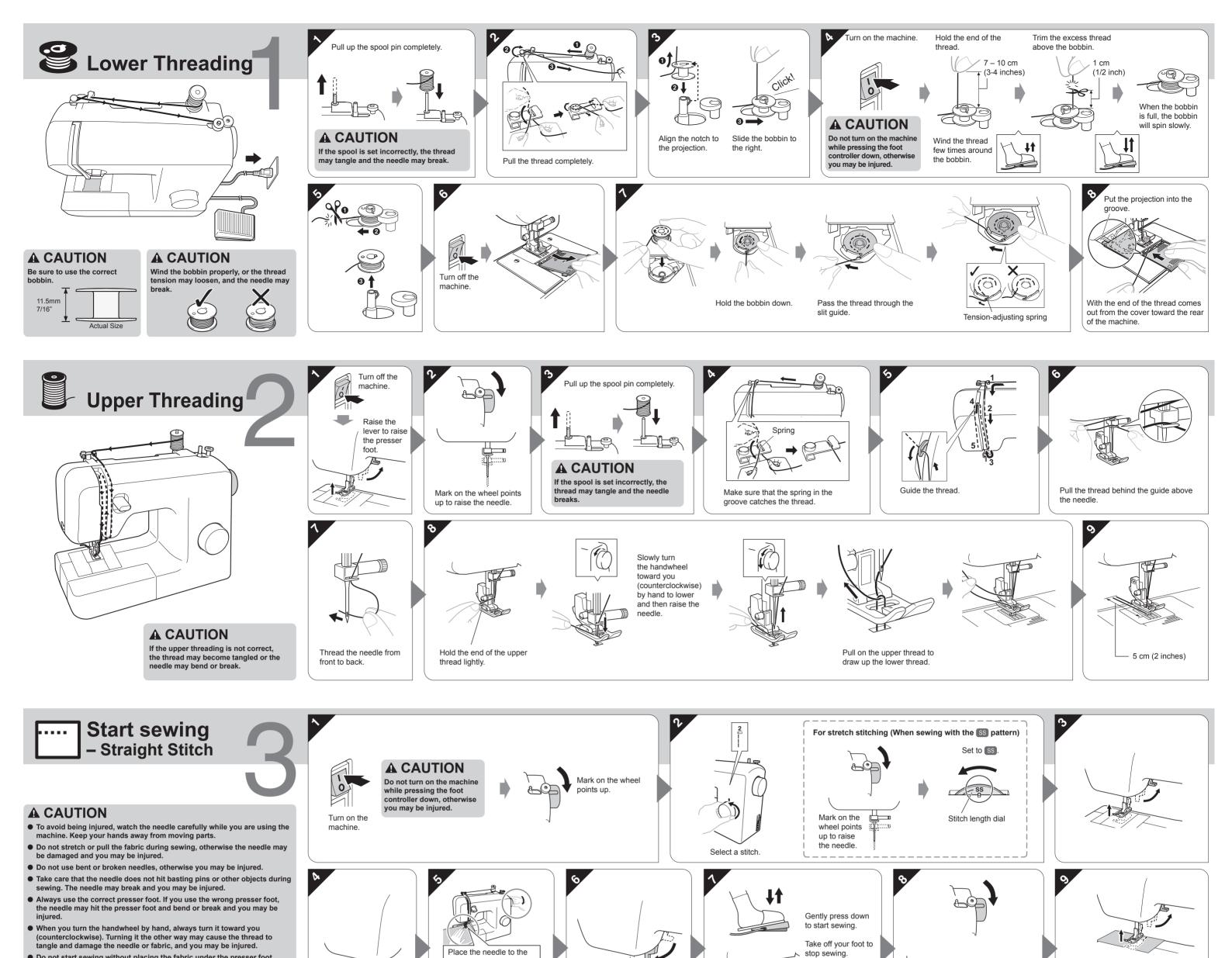
of fabric together, and then sew without stretching the fabric.

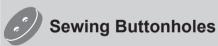
Slide the flat bed attachment to

its original position.









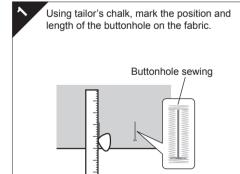
otherwise the presser foot may be damaged.

Do not start sewing without placing the fabric under the presser foot,

A CAUTION

Always turn off the machine before replacing the presser foot. Otherwise, injuries may occur if the foot controller is accidentally pressed and the machine starts sewing.

1 Preparation



2 Making a buttonhole

1. Set the pattern selection dial to "a"

1. Turn the pattern selection dial to "b".

2. Sew the length of the tailor's chalk line. . Stop the machine when the needle is at the left side of the stitch and then raise the

. Turn the pattern selection dial to "c" (same

Stop the machine when the needle is at the

right side of the stitch and then raise the

2. Sew the right side until the needle reaches

needle from the material.

Step

Step 1

tack)

Step 2 (Left side)

needle.

(Back bar tack)

position as in step 1).

needle from the material.

1. Set the pattern selection dial to "d".

the stitches sewn in step 1.

2. Sew 5 to 6 stitches.

Step 3

Step 4

(Right side)

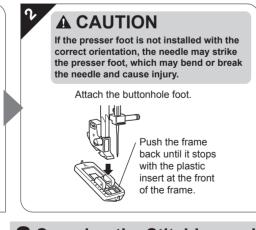
(Front bar

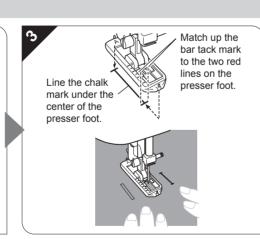
stitches.

Sewn section

. Stop the machine when the needle is at the

left side of the stitches and then raise the





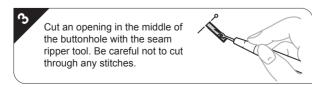
starting point.

3 Securing the Stitching and Cutting the Buttonhole

Pattern 2. Lower the presser foot and sew 5 to 6

To secure the stitching, turn the material 90 degrees counterclockwise and sew straight stitches to the end of the front bar tack of the buttonhole.

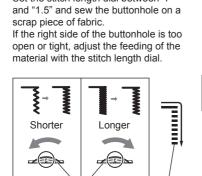
Remove the material from the machine. We recommend that you put pins across both ends of the buttonhole to prevent the stitches from being cut.

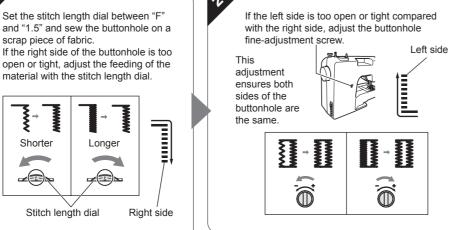


A CAUTION

When using the seam ripper to open the buttonhole, do not put your hand or finger in the path of the ripper. The seam ripper may slip and you may be injured.

Adjusting buttonholes





Maintenance

Restrictions on oiling

In order to prevent damaging this machine, it must not be oiled by the user. This machine was manufactured with the necessary amount of oil applied to ensure correct operation, making periodic oiling unnecessary. If problems occur, such as difficulty turning the handwheel or an unusual noise, immediately stop using the machine, and contact your authorized

Brother Service Center or the nearest authorized Brother Service Center.

Precautions on storing the machine

Do not store the machine in any of the locations described below, otherwise damage to the machine may result, for example, rust caused by condensation

· Exposed to extremely high temperatures Exposed to extremely low temperatures

Mark on the wheel points up to raise the

needle.

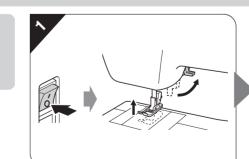
- Exposed to extreme temperature changes
- Exposed to high humidity or steam
- · Near a flame, heater or air conditioner · Outdoors or exposed to direct sunlight
- Exposed to extremely dusty or oily environments

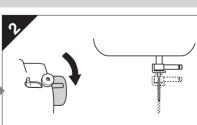
• In order to extend the life of this machine, periodically turn it on and use it. Storing this machine for an extended period of time without using it may reduce its efficiency.

Cleaning

A CAUTION

Make sure you unplug the machine before you clean it, otherwise you risk getting an electric shock or being injured.





Mark on the wheel points up to raise the



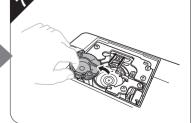
Cut the thread

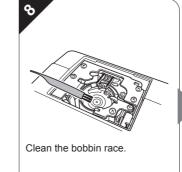


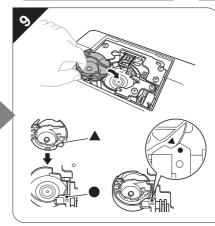


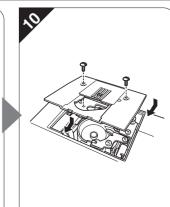


needle









Never use a bobbin case that is scratched; otherwise the upper thread may become tangled, the

A CAUTION

needle may break, or sewing performance may suffer. For a new bobbin case, contact your nearest authorized Brother Service Center. Make sure that you fit the bobbin case properly, otherwise the needle