

Video tutorials included on DVD



IMPORTANT SAFETY INSTRUCTIONS

Please read these safety instructions before attempting to use the

A DANGER

- To reduce the risk of electric shock:

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.

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, or water is spilled on the unit. Return the machine to the nearest authorized Brother dealer or service center for examination, repair, electrical or mechanical adjustment.
- · While the machine is stored or in use if you notice anything unusual, such as an odor, heat, discoloration or deformation, stop using the machine and immediately unplug the power cord.
- 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 the needle to break.
- · Do not push or pull the fabric when sewing, and follow careful instruction when freehand stitching so that you do not deflect the needle and cause it to break.

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

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 **EUROPEAN 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 EUROPEAN 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 omitted.
- 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.

XG4097-001

The main parts

- Bobbin winder
- This winds the thread onto the bobbin for use as the lower thread. 2 Spool pin
- This holds the spool of thread. ③ Thread guide
- This is used when winding the thread onto the bobbin and then threading the machine
- 4 Thread take-up lever (5) Hole for extra spool pin
- This holds a second spool of thread for sewing with the twin needle.
- ⑥ Upper tension-control dial This controls the tension of the upper thread
- 7 Thread cutter Pass the threads through the thread cutter to cut them.
- Presser foot

(8) Flat bed attachment with accessory compartment

- ® Reverse sewing lever Push this lever to stitch in the reverse direction.
- (1) Buttonhole fine-adjustment screw
- 12 Pattern selection dial Rotate the dial in either direction to choose the stitch you want.
- (3) Handwheel Used to manually raise and lower the needle.
- (14) 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.
- 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

Slide the attachment to the Storage compartment

• If a power outage occurs while the sewing machine is being operated, turn off the main

power and unplug the power supply cord.

necessary procedure to correctly operate the

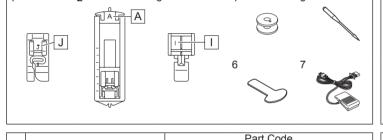
than the other). To reduce the risk of electric shock,

this plug is intended to fit in a polarized outlet only

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

reverse the plug.

Included accessories

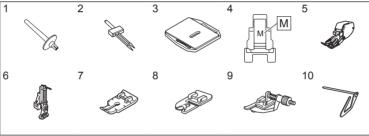


No.	Part Name	Part Code		
		Americas	Others	
1	Zigzag foot "J" (on machine)	XC4901-121		
2	Buttonhole foot "A"	X59369-321		
3	Zipper foot "I"	XE9369-001		
4	Bobbin (One is on machine)	SA156	SFB:XA5539-151	
5	Needle set (90/14 needle)	3-piece set: XE5328-001		
		2-piece set: XE7064-001		
6	Screwdriver	XF3557-001		
7	Foot controller	Model KD-1902 for 110-120V area		
		KD-1902 for 110-127V area (Brazil only)		
		Model KD-2902 for 220-240V area		

Note

• The included accessories vary depending on the machine model. • The foot controller part code differs depending on the country or region. Contact your Brother dealer or the nearest authorized Brother Service Center

Optional accessories



No.	Part Name	Part Code			
INO.	Fait Name	Americas	Others		
1	Extra spool pin	XG3488-001			
2	Twin needle (2.0/75 needle)	X57521-021			
3	Darning Plate	XC6063-021			
4	Button sewing foot "M"	XE2137-001			
5	Walking Foot	SA107	F034N: XC2165-002		
6	Quilting Foot	SA129	F005N: XC1948-052		
7	1/4-inch Quilting Foot	SA125	F001N: XC1944-052		
8	Narrow Hemmer Foot	SA127	F003N: XC1945-052		
9	Blind Stitch Foot	SA134	F018N: XC1976-052		
10	Quilting guide	SA132	F016N: XC2215-052		

Note

• The optional accessories are to be purchased separately. Depending on the model you purchased, some accessories may be included with your machine.

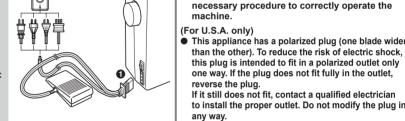
Using Your Sewing Machine

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
- 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
- · During electrical storms

A CAUTION

- Use only the power cord included with this machine. Do not use extension cords or multi-plug adapters with many other
- appliances plugged in to them. Fire or electric shock may result Do not touch the plug with wet hands. Electric shock may result. • When unplugging the machine, always turn off the main power first. Always grasp the plug to remove it from the outlet. Pulling on the cord may damage
- the cord, or lead to fire or electric shock. Do not allow the power cord to be cut, damaged, modified, forcefully bent, pulled, twisted, or bundled. Do not place heavy objects on the cord. Do not subject the cord to heat. These things may damage the cord and cause fire or electric shock. If the cord or plug is damaged, take the machine to your
- authorized 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 power switch toward the "I" mark to turn the controller down to start main power and sewing light sewing. Take your foot on. Press toward the "O" mark off the foot controller to

If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in

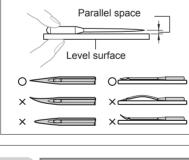
■ Foot controller **A** CAUTION Do not allow pieces of cloth and dust to build up on the foot controller Doing so could cause a fire or an electric shock.

Press the foot stop sewing

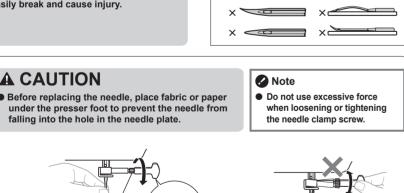
Replacing the needle

- **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.

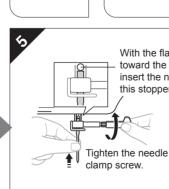
A CAUTION

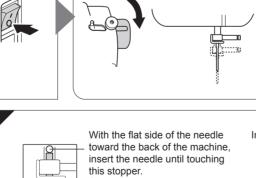


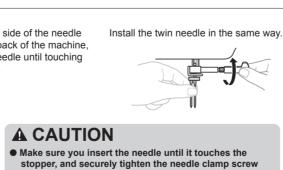
■ Checking the needle











with a screwdriver, otherwise the needle may break or

the 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.

too much or too little tension will weaken your seams or cause puckers on your fabric. Back of fabric

■ Correct tension

Correct tension is important as

Surface of Upper thread Lower thread

■ 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

Back of fabric Surface of fabric Upper Loops appear on thread Lower surface of fabric

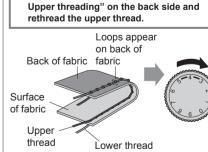
Solution: Reduce the tension by turning the

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



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

▲ CAUTION

If the presser foot is not

strike the presser foot.

orientation, the needle may

which may bend or break

the needle and cause injury.

Changing the presser foot

A CAUTION

Always turn off the machine before you change the presser foot. If you leave the power on and step on the controller, the machine will start and you may be injured Always use the correct presser foot for the stitch pattern

you have chosen. If you use the wrong presser foot, the

needle may strike the presser foot and bend or break,

falling into the hole in the needle plate.

Turn the screw

and may cause injury. Only use presser feet that have been designed to be used with this machine. Using any other presser foot may cause accident or injury.

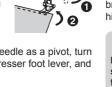




as those used for your project, and check the thread tension and stitch length and width



Changing the sewing



If the fabric does not fit easily under the presser

Sewing thick fabrics

foot, raise the presser

Mark on the wheel points up to raise

the needle



Sewing thin fabrics

Presser foot holde

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

When sewing thin

fabrics, the stitching

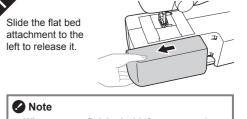
off any excess paper.

fabrics

First, baste the pieces of fabric



Sewing stretch Stitching cylindrical pieces



■ Presser foot installation orientation

Slide the part that you wish to sew onto the arm, and then sew from the top.

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

stitches is fixed at 2 mm

(1/16 inch).

then sew forward. The length of reverse

thread that are the same

the needle in the fabric at the point where you want to change 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.

foot lever even higher to bring the presser foot to its highest position

finished sewing tear

Remove the presser

vertically downward.

foot by pulling it

Stabilizer material or paper

Press the black button at the

to release the presser foot.

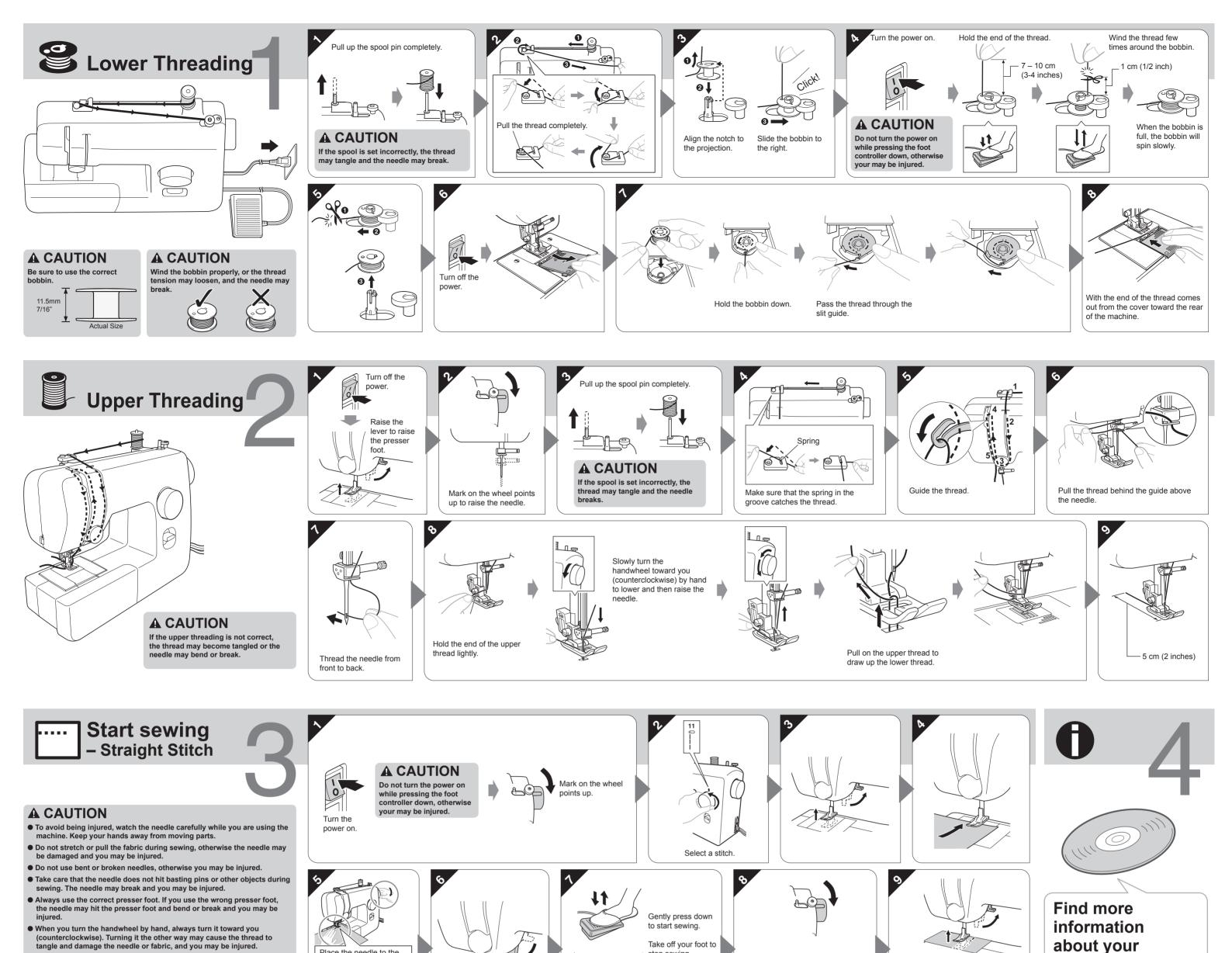
back of the presser foot holder

together. and then sew without stretching the fabric.

This snaps in

to the shank.





tangle and damage the needle or fabric, and you may be injured.

otherwise the presser foot may be damaged.

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

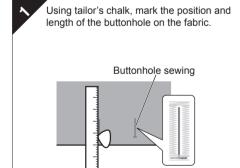
Sewing Buttonholes and Buttons

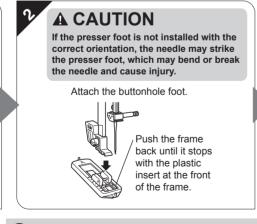
A CAUTION Always turn off the machine before replacing the presser foot. Otherwise, injuries may occur if the foot controller is accidentally pressed and the machine starts sewing.

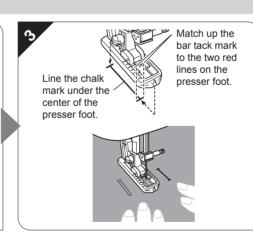
Place the needle to the

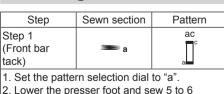
starting point.

1 Preparation









2. Lower the presser foot and sew 5 to 6 . Stop the machine when the needle is at the

2 Making a buttonhole

left side of the stitches and then raise the needle from the material.

Step 2 (Left side)

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 needle.

Step 3 (Back bar tack)

. Turn the pattern selection dial to "c" (same position as in step 1).

. Sew 5 to 6 stitches. . Stop the machine when the needle is at the right side of the stitch and then raise the

needle from the material. Step 4 (Right side)

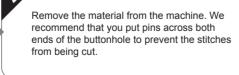
the stitches sewn in step 1.

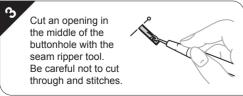
1. Set the pattern selection dial to "d".

2. Sew the right side until the needle reaches

3 Securing the Stitching and Cutting the Buttonhole

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





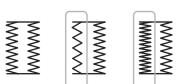
A CAUTION When using the seam ripper to open the buttonhole do not put your hand or finger in the path of the ripper. The seam ripper may slip and you may be

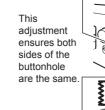
Adjusting buttonholes

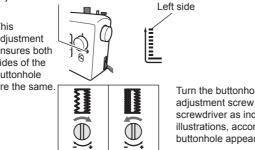
After sewing the left side of the buttonhole, stitch the right side and observe the feeding.

If the left side is too open or tight compared with the right side, adjust the buttonhole fineadjustment screw









Turn the buttonhole fineadjustment screw with a large screwdriver as indicated in the illustrations, according to the buttonhole appearance.

stop sewing.

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

sewing machine

instructional DVD.

in the included

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

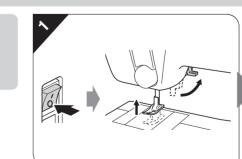
Exposed to extremely dusty or oily environments

• 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

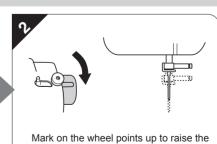
A CAUTION

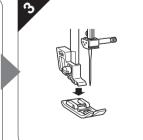
Make sure you unplug the machine before you clean it, otherwise you risk getting an lectric shock or being injured.



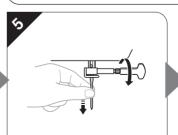
Mark on the wheel points

up to raise the needle.



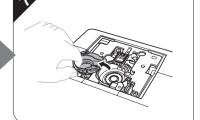


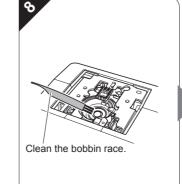


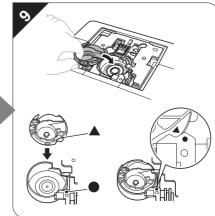


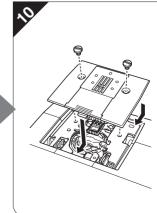


needle.











scratched; otherwise the upper thread may become tangled, the needle may break, or sewing performance may suffer. For a new bobbin case (part code: XE9326-001), contact your nearest authorized Brother Service Center. Make sure that you fit the bobbin case properly, otherwise the needle may break.