Solution Center

To eliminate unnecessary repairs, listed below are common problems and possible solutions. Please refer to your instruction manual for further instructions.

Needle Breaks

Needle is inserted incorrectly
Needle clamp screw is loose
Bent needle is being used
Upper threading is not correct
Upper thread tension is set too tight/high
Needle and/or thread for fabric being sewn is not correct
Material pulled and/or moved excessively during sewing

Upper Thread Breaks

Upper thread is not correct Upper thread tension is set too high/tight Upper thread is too large for the needle eye

Lower Thread Breaks

Lower thread may be entangled in shuttle Lower thread tension is set too tight/high Lower threading is not correct

Loops on Top or Bottom of Fabric Form During Sewing

Upper or lower thread tension not set correctly Upper threading is not correct

Incorrect bobbin being used

Material Tends to Pucker During Sewing

Upper or lower thread tension is set too high/tight
Upper threading is not correct
Thread may be caught or is catching on something
Lower thread is unevenly wound on bobbin
Incorrect bobbin being used

Skips Stitches

Needle is not sharp and/or straight
Needle is inserted incorrectly
Needle and/or thread for fabric being sewn is not correct
Upper threading is not correct
Lint and/or debris caught on underside of needle plate

Machine Runs Slow and/or Noisy

Machine may require cleaning or lubrication
Lint and/or debris may be caught in the shuttle and/or feed dog assemblies

Bobbin is Wound Incorrectly

Use a small pair of scissors to remove thread

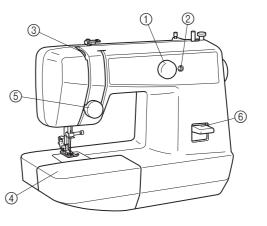
Brother International Corporation recommends the use of genuine parts and supplies and proper maintenance to keep your product running smoothly. Many of our resellers carry genuine Brother parts, accessories and supplies. If you are unable to locate these items, please visit us online at www.brothermall.com.

Relative Chart of Sewing Fabrics, Needles and Thread Combinations

	Sewing Fabrics		Needle Sizes	Thread Sizes
	Very Thin	Fine tricot, Fine lace, Thin linen, Silk, Organza, Chiffon	#65/9	Cotton: 80 Synthetic/Polyester Long Fiber Fine Mercerized Cotton
	Lightweight	Voile, Taffeta, Synthetics, Silk, Batiste	#75/11	Cotton: 60-80 Silk: "A" Synthetic/Polyester Long Fiber Mercerized 50
	Medium Weight	Cotton, Gingham, Poplin, Percale, Pique, Satin, Velvet, Lightweight wool, Fine corduroy, Suitings, Linen, Muslin	#90/14 (Supplied with your machine)	Cotton: 50-60 Silk: "A" Synthetic/Polyester Long Fiber Mercerized 50-60
	Heavyweight	Denim, Gabardine, Tweed, Corduroy, Canvas, Duck	#100/16	Cotton: 40-50 Mercerized Heavy Duty Polyester Long Fiber
	Knits	Single knit, Double knit, Jersey, Tricot	#90/14 (Ball point)	Cotton Wrapped Polyester Polyester Long Fiber

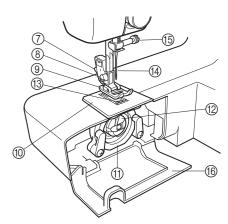
Quick Reference GuideKnowing Your Sewing Machine

Name of Machine Parts and Their Functions

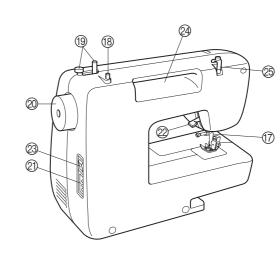


- Pattern Selection Dial
 Choose from 10 different stitches
- ② Buttonhole Fine-Adjusting Screw

 For use if the stitching on the two sides of the buttonhole do not appear uniform
- 3 Thread Take-up Lever
 Guide thread through the lever from right to left
 4 Flat Bed Attachment with Accessory Storage
- For easy storage of included accessories
- ⑤ Upper Tension Control Dial This controls the tension of the upper thread
- ® Reverse Sewing Lever To sew in reverse



- ⑦ Presser Foot Holder Assembly
- ® Presser Foot Screw
- 9 Presser Foot (Zigzag)
- 10 Needle Plate
- ① Shuttle Hook
- 12 Bobbin Case
- (3) Feed Dogs(4) Needle
- 15 Needle Clamp Screw
- **16 Shuttle Cover**



- Thread Cutter
- ® Spool Pin

Pull up on spool pin to level thread

- (9) Bobbin Winder Place unfilled bobbin on winder
- Handwheel

Use for lower threading

- ② Foot Controller Jack
- Insert plug in jack to operate foot controller
- Presser Foot Lever
- Used to raise and lower the presser foot
- Main Power/Sewing Light Switch Turns your machine/sewing light on
- ② Built-in Handle

 Ideal for easy and efficient transporting
- Thread Guide/Bobbin Winding Pre-tension Disc Used when winding the bobbin and then threading the machine

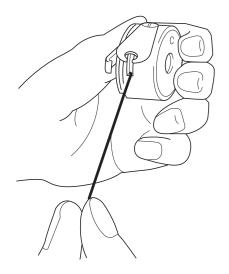
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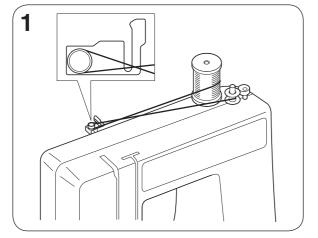
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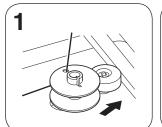
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Winding the Bobbin

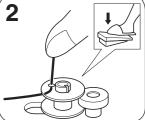




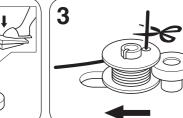
Pull up on the thread spool pin to lengthen the height. Place the thread spool on the pin and pass the thread around the bobbin winder pre-tension disc.



Pass the thread through the hole on the bobbin from inside. thread, press the foot controller spin slowly and becomes full, Use upper hole, not both. Place on bobbin shaft and slide to the right.



While holding the end of the to begin winding the thread. Cut the thread from the top and proceed winding.



When the bobbin starts to release the foot controller. Cut the thread, slide the bobbin winding shaft to the left and remove the bobbin.

CAUTION

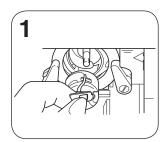
Not winding the bobbin properly may cause the thread tension to loosen, and may break the needle.



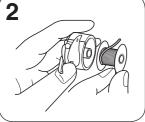


1 1) Wound evenly

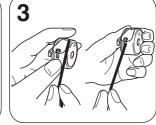
Inserting the Bobbin



Raise the needle to its highest Hold the bobbin case as position and remove the bobbin case by pulling the

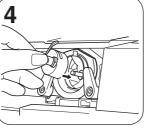


shown. Insert the bobbin with the thread coming from the bottom toward the top and the thread tail hanging out of the bobbin case.



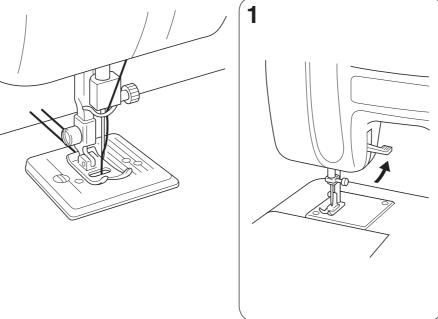
the slot, down and to the left, until it enters the delivery eye under the tension spring. insert the case into the shuttle CAUTION: Make sure you set the bobbin so the thread unrolls in the right direction. If the thread unrolls in the wrong direction, it may cause the thread tension to

be incorrect or break the needle.

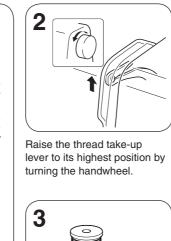


Pull the trailing thread through Holding the bobbin case by the latch, align your finger with the top opening of the shuttle race, race and release the latch.

Threading the Needle

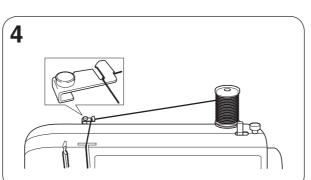


Raise the presser foot lifter

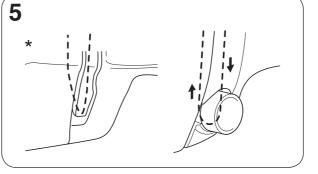


Place the thread spool on the

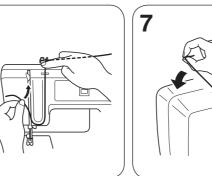
(Don't forget to pull up the pin)



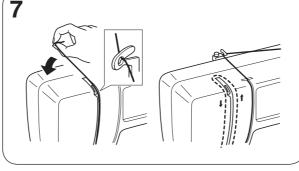
Pass the thread through the thread guide and down the right channel on the front of the machine.



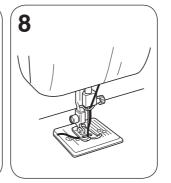
Pass the thread into the thread tension discs or *behind the thread tension dial from the right to the left.



ensure it is in place.

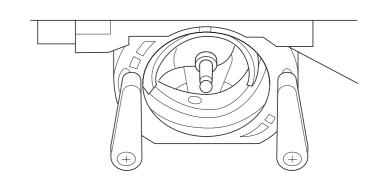


Grasp the thread on both sides Guide the thread up the left channel, clear to the back of the of the tension disc and pull to opening around the take-up lever and back down the left side of to back and pull out about 2" the channel to thread the take-up lever.



Thread the needle from front

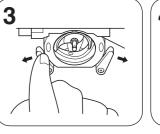
Cleaning the Bobbin Case



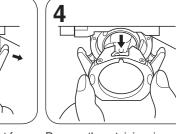
Remove the power plug from the outlet.



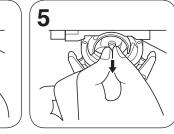
position, pull the latch and remove the bobbin case.



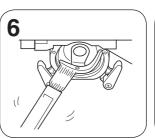
the retaining ring.



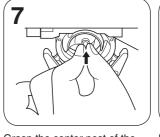
Raise the needle to its highest Slide the latch levers out from Remove the retaining ring.



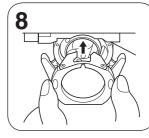
Remove the hook by grasping the center post and pulling out. Note its position related to the driver.



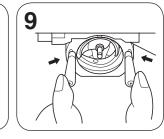
Remove any accumulated lint and thread with a brush.



Grasp the center post of the hook, match the hook position the notch up. opposite the driver and insert.



Insert the retaining ring with



Push the latch levers into their locked position. Replace the bobbin case.

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