User’s Guide

Tribute™ 145M

145TH ANNIVERSARY LIMITED EDITION SEWING MACHINE
This household sewing machine is designed to comply with IEC/EN 60335-2-28 and UL1594.

IMPORTANT SAFETY INSTRUCTIONS
When using an electrical appliance, basic safety precautions should always be followed, including the following:

Read all instructions before using this household sewing machine. Keep the instructions at a suitable place close to the machine. Make sure to hand them over if the machine is given to a third party.

DANGER – TO REDUCE THE RISK OF ELECTRIC SHOCK:

• A sewing machine should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning, removing covers, lubricating or when making any other user servicing adjustments mentioned in the instruction manual.

WARNING – TO REDUCE THE RISK OF BURNS, FIRE, ELECTRIC SHOCK, OR INJURY TO PERSON:

• Do not allow to be used as a toy. Close attention is necessary when this sewing machine is used by or near children.

• Use this sewing machine only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.

• Never operate this sewing machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the sewing machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.

• Never operate the sewing machine with any air openings blocked. Keep ventilation openings of the sewing machine and foot control free from the accumulation of lint, dust, and loose cloth.

• Keep fingers away from all moving parts. Special care is required around the sewing machine needle.

• Always use the proper needle plate. The wrong plate can cause the needle to break.
• Do not use bent needles.
• Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
• Wear safety glasses.
• Switch the sewing machine off (“0”) when making any adjustment in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
• Never drop or insert any object into any opening.
• Do not use outdoors.
• Do not operate where aerosol (spray) products are being used or where oxygen is being administrated.
• To disconnect, turn all controls to the off (“0”) position, then remove plug from outlet.
• Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
• The foot control is used to operate the machine. Avoid placing other objects on the foot control.
• Do not use the machine if it is wet.
• If the supply cord connected with the foot control is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person, in order to avoid a hazard.
• This sewing machine is provided with double insulation. Use only identical replacement parts. See instructions for Servicing of Double-Insulated Appliances.

SAVE THESE INSTRUCTIONS
FOR EUROPE ONLY:
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. The noise level under normal operating conditions is less than 75dB(A). The machine must only be used with foot control of type “21361”.

FOR OUTSIDE EUROPE:
This sewing machine 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 sewing machine by a person responsible for their safety. Children should be supervised to ensure that they do not play with the sewing machine. The noise level under normal operating conditions is less than 75dB(A). The machine must only be used with foot control of type “21361”.

SERVICING OF DOUBLE INSULATED PRODUCTS
In a double-insulated product, two systems of insulation are provided instead of grounding. No ground means is provided on a double-insulated product, nor should a means for grounding be added to the product. Servicing of a double-insulated product requires extreme care and knowledge of the system and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product. A double-insulated product is marked with the words ‘DOUBLE INSULATION’ or ‘DOUBLE INSULATED’.
We reserve the right to change the machine equipment and the assortment of accessories without prior notice, or make modifications to the performance or design. Such modifications, however, will always be to the benefit of the user and the product.

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Please note that on disposal, this product must be safely recycled in accordance with relevant National legislation relating to electrical/electronic products. Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. When replacing old appliances with new ones, the retailer may be legally obligated to take back your old appliance for disposal free of charge. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
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16. Thread tension dial
17. Needle up/down button
18. Speed control slider
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22. Stitch selection dial
23. Stitch width dial
24. Presser foot
25. Needle
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35. Free-arm
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EXTENSION TABLE

To Remove
Hook your fingers on the bottom left of the extension table and pull it to the left.

Free-arm Sewing
For stitching sleeves, waistbands, pant legs or any other tubular garments.
For darning socks or mending knees or elbows.

To Attach
Slide the extension table on and insert the pins into the holes and push the extension table to snap it in place.

1. Pin
2. Hole

Some fabrics have a lot of excess dye which can cause discoloration on other fabric but also on your sewing machine. This discoloring may be very difficult or impossible to remove.

Fleece and denim fabric in especially red and blue often contain a lot of excess dye.
If you suspect that your fabric/ready-to-wear garment contains a lot of excess dye, always pre-wash it before sewing to avoid the discoloring.
STANDARD ACCESSORIES
AND STORAGE

1. Utility Foot A
2. Utility Foot B
3. Buttonhole Foot C
4. Adjustable Blind Hem Foot
5. Zipper Foot E
6. Non-stick Glide Foot H
7. Edging Foot J
8. Automatic Buttonhole Foot R
9. Transparent Foot B
10. Quilter’s 1/4” Piecing Foot P
11. Gathering Foot
12. Self-adhesive Glide Plates
13. Edge/quilting Guide
14. Needles
15. Bobbins
16. Screwdriver
17. Lint brush
18. Seam ripper (Buttonhole opener)
19. Spool holder (Large)
20. Spool holder (Small)
21. Vertical spool pin
22. Felt cushion
23. Accessory storage (open the extension table for storing accessories)
Getting Ready to Sew

CONNECTING THE POWER SUPPLY

Turn the power switch off.

Before plugging in the foot control, check to ensure that it is of type “21361” (see underside of foot control).

Insert the foot control plug into the machine socket.

Insert the power supply plug into the machine and the wall outlet.

Turn the power switch on.

1. Power switch
2. Foot control plug
3. Machine plug
4. Machine socket
5. Power supply plug
6. Wall outlet

Note: Before connecting to the power supply, make sure the voltage shown on the machine conforms to your electrical power.

For the USA and Canada:

This sewing machine has a polarized plug (one blade 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 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!
ADJUSTING THE SEWING SPEED
You can control the sewing speed in two ways; with the speed control slide or with the foot control.

Speed Control Slide
With the speed control slide, you can change the sewing speed to suit your needs. The slide limits how fast you can sew.
To increase the sewing speed, slide the bar to the right.
To reduce the sewing speed, slide the bar to the left.

Foot Control
You can control the sewing speed by using the foot control. The harder you press the foot control, the faster the machine sews.
If you press the foot control all the way, the machine runs at the maximum speed set by the speed control slide.

NEEDLE UP/DOWN
Touch this button to move the needle down or up. The setting of the needle stop position is changed at the same time.
1. Needle up/down
SEWING GUIDE REFERENCE CHART
Consult the Sewing Guide Reference Chart for the fast easy way to select the best stitch, stitch length, stitch width, thread tension, presser foot and presser foot pressure for your sewing technique and fabric.

Look in the column for your fabric type:

- **WOVEN FABRICS**: for stable fabrics that have no stretch. Usually woven.
- **STRETCH FABRICS**: for fabrics that have stretch. Usually knit.
- **LEATHER/VINYL**: for suede, real leather and for artificial leather and suede.

Select the stitch for the technique you want to sew:

- **SEAM**: sews two pieces of fabric together.
  
  *Note: For Stretch Fabrics the Sewing Guide Reference Chart recommends setting the zig zag stitch length to 1.5 and stitch width to 1.5 for a seam that stretches with the fabric.*

- **OVERCAST**: overcast fabric edges to prevent them from fraying and to help them lay flat.

- **SEAM/OVERCAST**: sews the seam and overcasts the edge all at one time.

- **BASTE**: a temporary stitching for fitting garments, gathering and marking. Use maximum stitch length.
  
  *Note: Basting will leave permanent holes in leather and vinyl.*

- **BLIND HEM**: creates an invisible hem on garments. Is not recommended for light weight fabric or for leather/vinyl.

- **HEM**: sews the best visible or top stitch hem for your fabric type and weight.

- **BUTTONHOLE**: sews the best buttonhole possible for your fabric.

1. Fabric
2. Presser foot pressure
3. Sewing technique
4. Stitch
5. Presser foot
6. Thread tension
7. Stitch length
8. Stitch width
REVERSE LEVER

When you press the reverse lever downwards, the machine will sew in reverse. The machine will only sew in reverse as long as the reverse lever is pressed down.

1. Reverse lever

PRESSER FOOT PRESSURE DIAL

Turn the pressure dial to adjust the pressure of the presser foot on the fabric when sewing on different thicknesses of fabric. The pressure dial should be set at 3 for regular sewing.

Reduce the pressure to 2 for appliqué, cutwork and basting. Set the setting mark at 1 when sewing stretch fabrics, chiffon, lace, organdy and other fine fabrics. Set on 0 for free motion.

1. Setting mark

LOWERING THE FEED TEETH

The drop feed lever is located on the free-arm on the back of the machine.

To lower the feed teeth, push the lever in the direction of the arrow, as illustrated.

To raise the feed teeth, push the lever in the direction of the arrow, as illustrated, and turn the handwheel toward you or start sewing to bring the feed teeth up.

The feed teeth must be up for regular sewing.

1. Raised position
2. Lowered position
RAISING AND LOWERING THE PRESSER FOOT

The presser foot is raised and lowered with the presser foot lever. The presser foot must be down when sewing.

By raising the presser foot lever as far as it goes the lift height of the presser foot can be increased by 1/4” (0.6 cm). This is useful for easy removal of the presser foot or when placing heavy fabrics under the foot.

1. Lowered position
2. Normal lift height
3. Extra lift height

CHANGING THE PRESSER FOOT

⚠️ *Turn off the power switch.*

1. Make sure the needle is in the highest position. Pull the presser foot towards you.

2. To put foot on, line up the cross pin on the foot between the spring and the presser foot ankle. Press back until the foot snaps into place.
CHANGING THE NEEDLE

⚠️ Turn off the power switch.

Your machine uses standard sewing machine needles.

1. Lower the presser foot. Loosen the screw in the needle clamp by turning it counterclockwise. Remove the needle.
2. Push up the new needle as far as it will go with the flat side away from you. Tighten the screw firmly by turning it clockwise.

a. Stop  
b. Flat side  
c. Needle clamp screw

To Check for a Good Needle:

Put the flat side of the needle onto something flat (needle plate, glass etc.). The gap between the needle and the flat surface should be consistent.

Never use a blunt needle. A damaged needle can cause permanent snags or runs in knits, fine silks and silk-like-fabrics.

Note: Check the needle frequently for barbed or blunt points.
PLACING THE THREAD SPOOL ON THE SPOOL PIN

Place the thread spool on the spool pin with the thread coming off as illustrated. With large thread spools, the large holder is placed in front of the thread. If you use narrow thread spools, the small holder is placed in front of the thread.

1. Large spool holder
2. Small spool holder

REMOVING THE BOBBIN

⚠️ Turn off the power switch.

1. Push the bobbin cover release button to the right and remove the cover.
   a. Release button
   b. Bobbin cover plate

2. Lift out the bobbin.
BOBBIN WINDING

1. Pull the handwheel out to put the machine in bobbin wind position (the needle will not go up and down).
2. Guide the thread around the bobbin thread tension guide into the tension disk.
3. Thread through the hole in the bobbin from the inside to the outside. Put the bobbin on the bobbin winder spindle with the free end of the thread coming out at the top.
4. Slide the bobbin winder spindle to the right.

Note: Do not move the bobbin winder spindle while the machine is running.

5. With the free end of the thread held in your hand, press the foot control. Stop the machine when the bobbin has made a few turns, and cut the thread as illustrated.
6. Press the foot control again. When the bobbin is fully wound, it will stop automatically. Slide the bobbin winder to its original position by moving the spindle to the left, and cut the thread as illustrated.
7. Push in the handwheel.

To use the vertical spool pin, set the felt and the spool as shown above.
   a. Vertical spool pin
   b. Spool pin felt
   c. Spool pin hole
PLACING THE BOBBIN

⚠️ Turn off the power switch.

1. Place the bobbin in the bobbin case with the thread pulling off as illustrated.

2. Guide the thread into the front notch (a) on the front side of the bobbin case. Draw the thread to the left, sliding it between the tension spring blades.

3. Continue to draw the thread lightly until the thread slips into the side notch (b).

4. Pull out about 10 cm (4") of thread. Attach the bobbin cover. Check the threading by referring to the chart shown on the bobbin cover.
THREADING THE MACHINE

⚠️ Turn off the power switch.

Make sure the presser foot is raised and the needle is in the up position.

1. Bring the thread from the spool and pass it through the thread guide. Then draw it down along the right slot.

2. Guide the thread around the bottom of the thread guide plate.

3. Firmly draw the thread from right to left over the take-up lever and down into the take-up lever eye.

4. Slide the thread from the left behind the needle bar thread guide.

5. Use the needle threader to thread the needle (see page 14).
NEEDLE THREADER

⚠️ Turn off the power switch.

1. Raise the needle to its highest position. Lower the needle threader as far as it will go. The hook comes through the needle eye from behind.

2. Bring the thread from the left around the guide and under the hook.
   a. Guide
   b. Hook

3. Release the knob slowly while holding the thread end with your hand. A loop of the thread is pulled through the needle eye.

4. Pull the loop of thread behind the needle eye.
BRINGING UP
THE BOBBIN THREAD

⚠️ *Turn off the power switch.*

1. Raise the presser foot and hold the needle thread lightly with your left hand.

2. Turn the handwheel slowly toward you one complete turn. Bring the bobbin thread up by pulling the needle thread as illustrated.
   
   a. Needle thread
   
   b. Bobbin thread

3. Pull 10 cm (4”) of both threads back and under the presser foot.
STITCH SELECTION
Raise the needle to its highest position. Turn the stitch selection dial to set the desired stitch pattern number at the setting mark.

1. Stitch selection dial
2. Setting mark

Note: Always raise the needle above the fabric and presser foot before you turn the stitch selection dial.

STITCH LENGTH
Turn the stitch length dial to set the desired stitch length number at the setting mark. The higher the number, the longer the stitch.

The [ ] mark shows the adjustment range when sewing the buttonhole.

3. Stitch length dial

Set the stitch length dial at “stretch” when sewing stretch stitches.

Note: Always raise the needle above the fabric and presser foot before you turn the stitch length dial.
ADJUSTING STRETCH STITCH BALANCE

If the stretch stitches are unbalanced when you sew on a particular fabric, balance them by turning the stitch length dial, within the stretch range.

To Adjust the Distorted Stitches:
If the stitches are spread out (a), correct them by turning the dial in the “–” direction. If the stitches are close together (b), correct them by turning the dial in the “+” direction.

STITCH WIDTH
Turn the stitch width dial to set the desired stitch width number at the setting mark.
The higher the number, the wider the stitch.
1. Stitch width dial
2. Setting mark

Note: Always raise the needle above the fabric and presser foot before you turn the stitch width dial.

VARIABLE NEEDLE POSITION
The needle position of the straight stitches can be varied between the center (5) and left (0) with the stitch width dial.
BALANCING NEEDLE THREAD TENSION

The thread tension may be adjusted depending on the sewing materials, layers of fabric and sewing method.

**Balanced Tension:**
The ideal straight stitch has threads locked between two layers of fabric, as illustrated.

For an ideal zigzag stitch, the bobbin thread does not show on the right side (top side) of the fabric, and the needle thread shows slightly on the wrong side (bottom side) of the fabric.

1. Needle thread
2. Bobbin thread
3. Right side
4. Wrong side

**Needle Thread Tension Is Too Tight:**
The bobbin thread appears on the right side of the fabric. Loosen the needle thread tension by moving the dial to a lower number.

**Needle Thread Tension Is Too Loose:**
The needle thread appears on the wrong side of the fabric. Tighten the needle thread tension by moving the dial to a higher number.
Basic Sewing

STRAIGHT STITCH SEWING

Machine Setting
Consult the Sewing Guide Reference Chart for the settings recommended.

Starting to Sew
Raise the presser foot and position the fabric next to a seam guide line on the needle plate. Lower the needle to the point where you want to start. Lower the presser foot and pull the threads toward the back. Press the foot control. Gently guide the fabric along the seam guide line letting the machine feed the fabric.

Changing the Sewing Direction
Stop the machine and press the Needle Up/Down button or turn the handwheel to bring the needle down into the fabric. Raise the presser foot. Pivot the fabric to change sewing direction as desired. Lower the presser foot and continue sewing in the new direction.
FINISHING SEWING

1. Press the reverse lever and sew several stitches in reverse at the end of the seam, to lock the stitch.

2. Raise the presser foot and remove the fabric, drawing the threads to the back.

3. Draw the threads up and into the thread cutter. The threads are cut the proper length for starting the next seam.
SEAM GUIDES ON
THE NEEDLE PLATE

The seam guides on the needle plate help you measure seam allowance. The numbers indicate the distance between the center needle position and the seam guide.

1. Seam guides:

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>SPACING (CM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>1.5</td>
</tr>
<tr>
<td>20</td>
<td>2.0</td>
</tr>
<tr>
<td>4/8</td>
<td>1.3</td>
</tr>
<tr>
<td>5/8</td>
<td>1.6</td>
</tr>
<tr>
<td>6/8</td>
<td>1.9</td>
</tr>
</tbody>
</table>

PIVOTING

Seam along the 5/8” guide. Stop stitching and lower the needle when the fabric edge facing you lines up with the cornering guides as shown. Raise the presser foot and pivot the fabric to line up to the edge with the 1.6 cm (5/8”) seam guide. Lower the presser foot and begin sewing in the new direction.

2. Cornering guide.
Utility Sewing

Consult the Sewing Guide Reference Chart for the fast easy way to select the best stitch, stitch length, stitch width, thread tension, presser foot and presser foot pressure for your sewing technique and fabric.

**BASIC ZIGZAG**
Simple zigzag stitching is widely used for overcasting, sewing on buttons etc.

**THREE-STEP ZIGZAG**

⚠️ When using the Edging Foot J for three-step zigzag, make sure the needle does not hit the pin in the needle hole.

Three-step zigzag is suitable for overcasting most fabrics. It is used on the seam allowance to prevent fabrics from fraying at raw edges. Make sure that the needle sews over the edge of the fabric.

**SEAM AND OVERCAST**
The Seam/Overcast stitch sews the seam and overcasts the edge all at one time.
REINFORCED STRAIGHT STITCH

Machine setting:
1. Stitch pattern: 1
2. Stitch width: 0 or 5
3. Stitch length: stretch
4. Thread tension: 2 – 5
5. Presser foot: Utility foot A

This stitch is stronger than regular straight stitch, due to the fact that it is a triple and elastic stitch.

The reinforced straight stitch can be used for heavy stretch fabrics, for crotch seams which are subject to considerable strain and for topstitching in heavy fabrics.

BUTTON SEWING

Machine setting:
1. Stitch: 2
2. Stitch width: Adjust as necessary
3. Stitch length: Any
4. Thread tension: 3 – 7
5. Feed teeth: Lowered

Mark the fabric where the button is to be located. Lower the feed teeth. Place the material under the presser foot ankle. Place the button on marking and lower the presser bar so that the presser foot ankle is between the holes of the button. Hold the thread ends to one side. Turn the handwheel and check to be sure that the needle goes into the holes of the button. Sew 5-6 stitches. Set the stitch width dial to 0 and lock the threads with a few stitches.

Note: Do not use this technique if the button is less than 1 cm (3/8”) in diameter.

Raise the feed teeth after button sewing.
AUTOMATIC BUTTONHOLE

Machine setting:
1. Stitch pattern: 
2. Stitch width: 4 – 5
3. Stitch length: 
4. Thread tension: 3 – 5
5. Presser foot: Automatic buttonhole foot R

Note: The size of buttonhole is automatically set by placing the button in the automatic buttonhole foot R. The button holder of the foot takes a button size up to 2.5 cm (1”) in diameter. Make a test buttonhole on a fabric sample duplicating the interfacing and seams of the actual garment. Use stabilizer under all fabric.

Turn the handwheel toward you to raise the needle to its highest position.
1. Snap on the automatic buttonhole foot R.
2. Pull the button holder to the back, and place the button in it. Push back the button holder against the button to hold it tight.
3 Pull the buttonhole lever down as far as it will go.
   a. Buttonhole lever

4 Raise the foot and put the needle thread through the hole and under the foot. Draw both threads to the left. Insert the fabric under the foot and lower the needle at the starting point. Lower the foot.

   b. Needle thread
   c. Bobbin thread
   d. Hole
   e. Starting point

Note: Make sure there is no gap between the slider and front stop. If there is a gap, the length of the right and left rows of the buttonhole will differ.

   f. Slider
   g. Front stop
   h. Difference
   i. There should be no gap.
5. Sew slowly. The machine will stitch the complete buttonhole. Stop the machine at the starting point when the buttonhole is completed. The machine sews the front bartack and left column first, then the back bartack and right column.

6. Raise the foot and remove the fabric. Cut both needle and bobbin threads leaving about 10 cm (4”) of thread ends loose. Draw the needle thread to wrong side of the fabric by pulling the bobbin thread. Then, knot the threads. Place a pin on one end of the bartack position so that you do not need to worry about cutting the end of the buttonhole. Then cut the opening with seam ripper.

To sew another buttonhole, turn the stitch selector to , then back to again, as shown. Move fabric to next buttonhole marking.
Now, simply step on the foot control to sew an identical buttonhole.
7. When finished, push the buttonhole lever up as far as it will go.

Adjusting the Buttonhole Stitch Density

Turn the stitch length dial within the range of to adjust the buttonhole stitch density.

Note: If the button is extremely thick, make a test buttonhole. If it is difficult to fit the button through the test buttonhole, lengthen the size by pulling back the button holder which will increase the buttonhole length.

1. Gap
CORDED BUTTONHOLE

Machine setting:
1. Stitch pattern: □
2. Stitch width: 4 – 5
3. Stitch length: ■□
4. Thread tension: 3 – 5
5. Presser foot: Automatic buttonhole foot R

1. With the buttonhole foot raised, hook the filler cord on the spur at the back of the buttonhole foot. Bring the cord under the foot and hook the filler cord into the notches on the front of the foot to hold them tight.
   a. Spur

2. Draw both needle and bobbin thread to the left. Lower the needle into the fabric where the buttonhole will start and lower the foot. Press the foot control gently and sew the buttonhole over the cord. The sewing sequence is the same as the automatic buttonhole.
   b. Needle thread
   c. Bobbin thread
   d. Starting point

3. Pull the left end of the filler cord to tighten it. Thread the end of the cord through a darning needle, draw to the wrong side of the fabric and cut. To cut the buttonhole opening, refer to the instructions on page 26.
MANUAL BUTTONHOLE
Consult the Sewing Guide Reference Chart for recommended settings.

If the diameter of the button is more than 2.5 cm (1”), make the buttonhole manually as follows:

1. Snap on buttonhole foot C.

2. Pull the buttonhole lever down as far as it will go. Draw both needle and bobbin thread to the left. Lower the needle into the fabric where the buttonhole is to start, and lower the foot.
   a. Needle thread
   b. Bobbin thread
   c. Starting point
4. Sew the front bartack and left column to the desired length then stop sewing.

5. Pull the buttonhole lever toward you.

6. Sew the back bartack and right column and then stop sewing at the starting point.

7. When finished, push the buttonhole lever up as far as it will go.
SEWING ZIPPER

Machine setting:
1. Stitch pattern: 1
2. Stitch width: 5
3. Stitch length: 1.5 – 4
4. Thread tension: 3 – 6
5. Presser foot: Zipper foot E

To Snap On the Zipper Foot

Snap on the zipper foot.
1. Groove
2. Pin

To sew the left side of the zipper, snap on zipper foot on the right bar on the side.
To sew the right side of zipper, snap on the zipper foot on the left bar on the side.

Fabric Preparation

1. Add 1 cm (3/8”) to the zipper size for the overall opening size.
   a. Right side of the fabric
   b. 1 cm (3/8”)
   c. Opening size
   d. Zipper size
   e. Slider
   f. Zipper teeth
   g. Zipper tape
   h. Wrong side of the fabric
   i. End of the opening
2. Place right sides of the fabric together. Sew a seam from the bottom 2 cm (5/8”) from the right edge to the end of the zipper opening. Sew a few stitches in reverse to lock. Increase the stitch length to “4”, set needle thread tension to “1”, and baste the length of the zipper opening.

j. 2 cm (5/8”)
k. Basting
l. Reverse stitch
m. End of the opening
n. Straight stitch

To Sew
1. Snap on the zipper foot with the bar on the right side. Turn under the right seam allowance to form a 0.4 cm (1/8”) fold.

a. Lower layer
b. End of opening
c. Zipper teeth
d. 0.4 cm margin
e. Wrong side of the fabric
f. Opening size
g. Fold
h. Basting stitch line

2. Place zipper teeth next to the fold and pin in place. Align the zipper foot with the fold. Return thread tension and stitch length to original settings. Sew a seam the entire length of zipper tape, removing pins as you go.
3. Sew through all layers next to the fold. Stop just before the zipper foot reaches the slider on the zipper tape. Lower the needle slightly into the fabric. Raise the zipper foot and open the zipper. Lower the foot and stitch the remainder of the seam.

   i. Slider
   j. 5 cm (2”)

4. Close the zipper and spread the fabric flat with the right side facing up. Baste the opened fabric and zipper tape together.

   k. Basting
   l. Zipper tape
5. Remove the zipper foot and snap on with pin on left side. Guide the edge of the foot along the zipper teeth and stitch through the fabric and zipper tape, about 1 cm (3/8”
) distance from the basting line. Stop about 5 cm (2’’)
from the top of the zipper.

m. Remove the basting stitches
n. 1 cm (3/8”)

6. Unzip a few centimeters/inches to clear a path for the stitch. At end of seam, sew a few stitches in reverse to lock. Once both sides of zipper are sewn, use the seam ripper to open the rest of the basting stitch.
BLIND HEM
Consult the Sewing Guide Reference Chart for recommended settings.

1. Fold the hem under the fabric as illustrated for fine or medium fabrics. Fold a hem with the wrong side up forming a 0.5 cm (1/8”) allowance.
   - a. Wrong side of the fabric
   - b. 0.5 cm (1/8”)
   - c. Heavy weight fabric
   - d. Light/medium weight fabric

2. Snap on the adjustable blind hem foot. Place hem under the presser foot. When the needle comes to the left side, position the fabric so that the folded edge comes to the left side of the guide. Lower the presser foot.

3. Turn the orange dial on the blind hem foot backward or forward to adjust the foot from side to side until the wide stitch of the blind hem barely catches the fabric.

   - e. Right side of the fabric
PRESSER FEET

Non-stick Glide Foot H
Consult the Sewing Guide Reference Chart for recommended settings.
When sewing foam, plastic, plastic coated fabrics, leather and imitation leathers, the Non-stick Glide Foot H feeds over the fabric without sticking. Use it for general sewing and buttonholes on plastic and leather type fabrics.
Snap on the Non-stick Glide Foot H.
Select desired stitch and sew.

Quilting Guide
The quilting guide will help keep stitching lines straight.
Slide the guide into the clip on the ankle. Adjust from side to side to the correct position. Sew, guiding the quilt guide over the previous row of stitching.

1. Clip
2. Quilting guide
3. Seam spacing

Transparent Foot B
Satin stitch applique, taper stitches and decorative stitches. Length as desired.
The tunnel on the underside of the foot feeds smoothly over the stitches. Because it is clear and has red guidelines, visibility and accuracy is improved. Use stabilizers as needed.
Snap on foot. Set decorative or satin stitch. Sew.
Gathering Foot (4127971-45)
Gather fabric or gather and attach a ruffle in one step. Suitable for light to medium weight fabrics. Straight stitch, (left needle position), length 4. The longer the length, the more fabric will gather. Snap on Gathering Foot.

For gathered fabric:
Place fabric under Gathering Foot and sew. Increase upper tension for tighter gathers.

To gather and attach gathered fabric in one step:
Place fabric to be gathered under the presser foot right side up. Place fabric to have ruffle attached to it in the groove of the foot right side down. Sew, guiding the under fabric but do not hold it back. Keep the top fabric in the groove moving steadily as needed. Increase the stitch length and the upper tension for more gathers.

Quilter's 1/4" Piecing Foot
Sew a scant 1/4” seam allowance. Red lines mark 1/4” and 1/8” pivot points in front of and behind the needle. Straight stitch, length 2.0-2.5.
Place to pieces of fabric right sides together. Sew with edge of fabric at edge of foot. To pivot 1/4” from end of fabric, stop sewing with needle stop down, when fabric edge reaches first red mark on foot.
Care and Maintenance

⚠️ *Turn off the power switch.*

Do not dismantle the machine other than as explained in this section. Clean the outside of the machine with a soft cloth and mild soap.

**CLEANING THE HOOK ASSEMBLY AREA AND FEED TEETH**

1. Remove the presser foot and needle. Remove screw on the left side of the needle plate with the screwdriver supplied with the machine. Remove the needle plate and take out the bobbin.
   a. Screw

2. Lift up the bobbin case and remove it.

3. Brush out dust and lint.

4. Clean the feed teeth and hook assembly area with the lint brush.

5. Wipe out gently with a soft, dry cloth.

*Note: You may also use a vacuum cleaner.*
REPLACING THE BOBBIN CASE

⚠️ **Turn off the power switch.**

1. Insert the bobbin case into the hook assembly area.

2. Make sure the knob of the bobbin case fits next to the stopper in the assembly area.
   
   a. Knob
   b. Stopper

3. Insert the bobbin. Replace the needle plate, inserting the two needle plate guide pins into the holes in the needle plate. Replace the screw.
   
   c. Guide holes
   d. Screw

REPLACING THE LIGHT BULB

⚠️ **Turn off the power switch.** **Wait for the light bulb to cool down before touching it.**

Remove the cap and screw. Remove the face plate.
To remove: Draw out slowly.
To replace: Push in.

*Note: Replace bulb with same type rated 12 Volt, 5 Watt.*
## Troubleshooting

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