



*Headset and Tablet Device Sold Separately

Computerized Spiegel Sewing Machine

Model 60609

Operation Manual



DO NOT RETURN YOUR
SEWING MACHINE
TO THE STORE

FOR PRODUCT SUPPORT AND RETURNS, VISIT US ONLINE AT...

www.SpiegelSewing.com

RETAIN ALL ORIGINAL PACKAGING FOR USE WHEN SHIPPING YOUR MACHINE TO US

For customer service by telephone, (U.S. only) call...

U.S. +1.800.842.2878

CONGRATULATIONS ON PURCHASING YOUR SPIEGEL COMPUTERIZED SEWING MACHINE!



Dear Customer,

To celebrate our recent 150th Anniversary, Spiegel proudly introduced one of its most innovative products ever manufactured. Working hand-in-hand with engineers from Universal Instruments, we believe this sewing machine will uncover new frontiers in home sewing. Like any new product we have spent years developing, testing and perfecting this new innovation.

New patent-pending technology and built-in Wi-Fi connectivity facilitate an unparalleled sewing experience like never before. Our proprietary technology allows seamless connection from your Spiegel home sewing machine to your smart phone or tablet, affording new ways to “Share” your love of sewing on your favorite social media outlets. Our signature

Spiegel Social Sewing app also allows you to unlock hidden feature-sets on your machine, and even purchase premium stitches.

Your Spiegel sewing machine is one of the most advanced computerized sewing machines on the market. To fully enjoy all of its advanced features, we suggest that you study these instructions before using your new machine. It is also recommended that you download the Spiegel Social Sewing application from your device’s app store before you get started. This specially designed app will help you set up your machine and provide you with useful video tutorials, tools, tips, and tricks. We hope you fall in love with the Spiegel 60609, and we look forward to seeing all of your amazing sewing project posted on social media.

Sincerely yours,

A stylized, handwritten signature in yellow ink, appearing to read 'Richard Lowe'. The signature is fluid and expressive, with a long horizontal stroke extending to the right.

— *Richard Lowe*
International Creative Director - Spiegel, LLC



Download the Spiegel Sewing Application available for free on Google Play, the iTunes Store or the Amazon App Store.
www.SpiegelSewing.com

SAVE THESE INSTRUCTIONS

~ Please Read All Instructions Before Using Your Sewing Machine ~

Your Model 60609 Computerized Spiegel™ Sewing Machine incorporates multiple electric and electronic technologies. Please follow all guidelines listed herein to ensure safe operation and use of the machine. This machine is intended for indoor household use ONLY. Outdoor use is not recommended.

Safety Conventions Used In This Documentation



WARNING — Warnings indicate a potentially hazardous situation which, if not avoided, could result in personal injury.



CAUTION — Cautions alert the user to unsafe practices that could cause damage to the sewing machine or its accessories.

Throughout the sewing machine manual, you will also see the **NOTE** icon used to indicate information of which you should take special notice.



If you haven't already downloaded the Spiegel sewing app from Google Play, the iTunes Store, or the Amazon App Store, you should do so now.

Not only will the app guide you through the process of controlling your Stitch Cam™, but our website www.SpiegelSewing.com, contains many video tutorials that will help you get the most out of your Model 60609 sewing machine. You can access SpiegelSewing.com through the QR code shown here.

The contents of this manual and all the listed machine specifications for this product are subject to update or change without notice. Check our website regularly for updates concerning this product.

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Cover photo by Maddie Flanigan

FOR REPAIR OR ADJUSTMENT

In the event of a machine malfunction or other problem, please consult www.SpiegelSewing.com for online assistance and customer support. You may also contact your local authorized Spiegel Sewing Machine dealer.



For additional information and new product updates, and to contact customer service, please visit our website at www.SpiegelSewing.com, which is also accessible through the QR code shown here.

The contents of this manual and all the listed machine specifications for this product are subject to update or change without notice. Please check regularly for updates concerning this product.

*Limited
Edition*
SPIEGEL60609

150th
ANNIVERSARY



Spiegel

CERTIFICATE OF AUTHENTICITY

THIS CERTIFIES THAT THE BEARER OF THIS DOCUMENT IS THE OWNER OF A LIMITED EDITION MODEL OF A SERIES OF SPECIALIZED SEWING MACHINES BY SPIEGEL.

PROUDLY CELEBRATING 150 YEARS OF STYLE, SPIEGEL LAUNCHED THIS COMPUTERIZED SEWING MACHINE TO CELEBRATE ITS RICH HISTORY IN FASHION AND TECHNOLOGY.

THIS LIMITED EDITION MODEL 60609 WAS CREATED TO DEFINE AND DISRUPT THE MARKETPLACE.

WITH ITS SLEEK RETRO LOOK AND UNIQUE STYLING, THIS IS INDEED A ONE-OF-A-KIND MACHINE.

Date of Purchase _____ Serial Number _____

Retain your receipt. Register your sewing machine at Spiegelsewing.com



TABLE OF CONTENTS

IMPORTANT SAFETY AND CUSTOMER NOTICES.....	1
GETTING TO KNOW YOUR SEWING MACHINE.....	5
Machine Power and Sockets.....	7
Accessories.....	8
Controls Overview.....	9
Needle and Presser Foot.....	10
Operation Buttons.....	11
Numeric Selection Keypad Arrows.....	13
LCD (Liquid Crystal Display).....	13
LCD ICONS.....	14
Status Icons.....	14
Presser Foot Icons.....	16
CONTROLLING YOUR SEWING MACHINE.....	17
Using The Foot Controller.....	18
Speed Control Slider.....	18
CONNECTING TO YOUR STITCH CAM™.....	19
Overview.....	19
Using the Handy Hook™.....	20
Setting Up Your Sewing Machine.....	20
Using the USB Charging Station.....	21
HOW TO THREAD AND USE YOUR MACHINE.....	22
Upper Threading and Auto Threader.....	22
Upper Threading.....	22
Auto-threader.....	24
Winding the Bobbin in Preparation for Lower Threading.....	26
Lower (Bobbin) Threading.....	28
Bringing up the Lower Thread.....	30
Needle Types for Different Fabrics.....	31
Changing the Needle.....	31
Selecting Stitches.....	32
Attaching, Removing, & Replacing the Presser Foot.....	33
Adjusting the Presser Foot Pressure.....	34
Thread Tension.....	34
Lower Thread Tension.....	34
Upper Thread Tension.....	34
Buttonhole Foot Sewing.....	35
Sewing Zippers.....	36

SEWING TIPS 37

 Reverse Sewing..... 37

 Sewing Stretch Fabrics 37

 Sewing Free-Arm..... 37

 Applique, Patchwork, and Quilting..... 37

 Free-Motion Quilting 37

 Blind Hem Stitching..... 38

 Reinforcement Stitching..... 38

 Decorative Stitching..... 38

TROUBLESHOOTING 39

APPENDIX: STITCH TABLES..... 43

 Standard Stitches..... 43

 Premium Stitches 79

FEDERAL COMMUNICATIONS COMMISSION (FCC)

~ Declaration of Conformity (For USA Only) ~

Responsible Party: Universal Instruments Corporation
33 Broome Corporate Parkway
Conklin, New York 13748 USA



Declares that the product

Product Name: Spiegel Computerized Sewing Machine
Model Number: 60609

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the retailer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by Universal Instruments could void the user's authority to operate the equipment.

TO AVOID THE RISK OF ELECTRIC SHOCK, FIRE, BURNS, OR PERSONAL INJURY



WARNING — Outdoor use is not recommended. Use the sewing machine only as designed and intended. Do not use the machine with accessories not provided for sale by Spiegel. Use of unapproved accessories could result in injury and/or damage to the machine, and will void your limited Spiegel product warranty.

- This machine should not be operated near oxygen tanks or where oxygen is being administered. Do not operate the machine in proximity to any aerosol chemical.
- Your sewing machine has a polarized electrical plug (one blade is wider than the other). Always plug the blades in correctly to an approved, listed wall outlet to reduce your risk for electrical shock. Never force the plug. If the plug does not fit, make sure you have aligned the polarized blades correctly. If the plug still does not fit, contact a qualified electrical technician. Never modify the electrical plug in any way.
- **NEVER** operate the sewing machine if the power cord is damaged or exposed wires are visible. The sewing machine should not be operated after it has been exposed to water, after it has been subjected to impact damage, or if it has otherwise been damaged. Always have your sewing machine examined and repaired by an authorized Spiegel dealer if it has been damaged.
- Do not leave the sewing machine plugged in while it is unattended. Always unplug the sewing machine from the electrical outlet when it is not in use. Never clean or maintain your sewing machine while it is plugged in. **Do not unplug the machine while power is switched on.** Always switch the power off before unplugging the machine, and never pull the power cord by the cord itself. Always hold the power cord by the plug.
- Always switch off the sewing machine whenever you are changing the needle or whenever you are otherwise adjusting the sewing machine.
- Do not block the ventilation slots of the sewing machine. Proper air flow is required for operation of the machine. Do not allow fabric, dust, or debris to block the air vents. Never insert objects into any openings or seams on the machine.

TO AVOID THE RISK OF PERSONAL INJURY OR DAMAGE TO THE SEWING MACHINE



WARNING — Be extremely careful when placing your hands close to the needle and presser foot, components that always have the potential to cause injury to the hand. Never push or pull fabric into and through the needle and presser foot area, which can cause a feed dog failure, clog the bobbin, break the needle, or make the needle jump.

- Never permit children to operate the machine unsupervised or to play on or around it. Your Spiegel computerized sewing machine is not a toy. Adult supervision is required for younger users.
- Never use a damaged needle in the sewing machine. Bent or broken needles should be discarded immediately.
- Unplug the machine when storing it and when it is not in use, even for short periods of time. This is especially important when children are present in the household.
- Repair and service of your Spiegel computerized sewing machine must be conducted through and by an authorized dealer. Contact Spiegel customer service for more information. Complete contact information may be found at www.SpiegelSewing.com.

THANK YOU FOR YOUR PURCHASE!

PLEASE READ BEFORE STARTING YOUR NEW JOURNEY:

Safety Operation Instructions



WARNING — Be extremely careful when placing your hands close to the needle and presser foot, which always has the potential to cause injury to the hand. NEVER stop the hand wheel or touch it while it is moving. NEVER touch the needle or use the presser foot lever while the machine is operating.

- Never push or pull fabric into and through the needle and presser foot area, which can cause a feed dog failure, clog the bobbin, break the needle, or make the needle jump. Always switch off the sewing machine whenever you are threading the needle or bobbin, whenever you are changing the needle, and whenever you are otherwise adjusting the sewing machine.
- Always plug the machine directly into the wall outlet. Do not use the sewing machine with extension cords or outlet multipliers.
- Always switch off AND UNPLUG the sewing machine before replacing parts or changing accessories, during any power failure (especially if your household lights are flickering), or before cleaning or servicing the machine.
- Never hold the foot pedal down with any heavy object, or otherwise keep the foot pedal pressed using anything but your own foot.

Extended Lifetime Recommendations

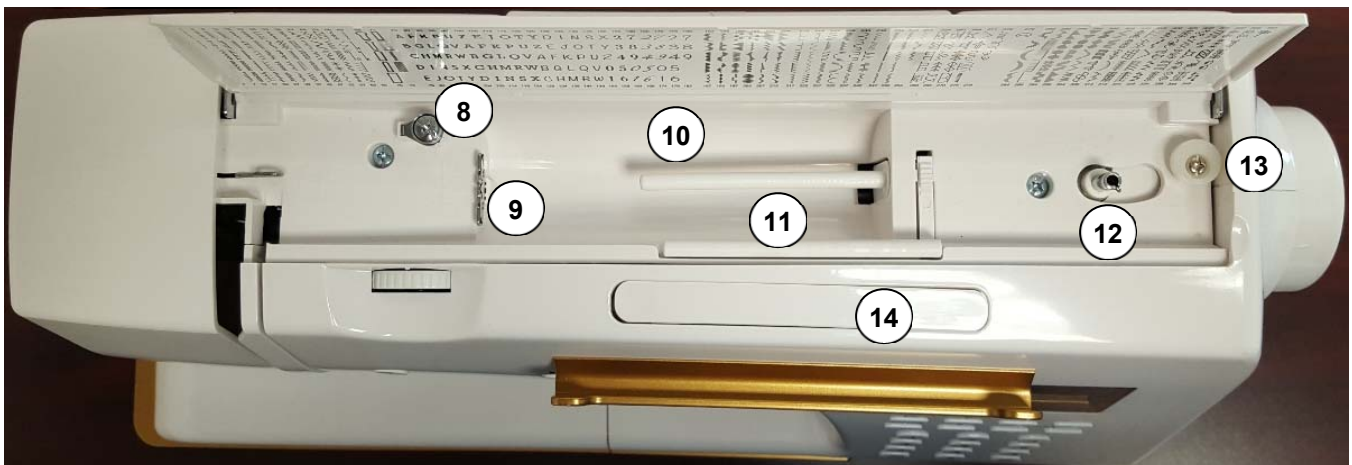
1. When storing this machine, avoid direct sunlight and humid/hot locations. Do not use or store the machine near a space heater, iron, halogen lamp, or other heat sources.
2. Avoid dropping or hitting the machine.
3. Consult the manual whenever installing any accessories, including presser feet, needles, or other components.

GETTING TO KNOW YOUR SEWING MACHINE

~ SPIEGEL 60609 OVERVIEW ~



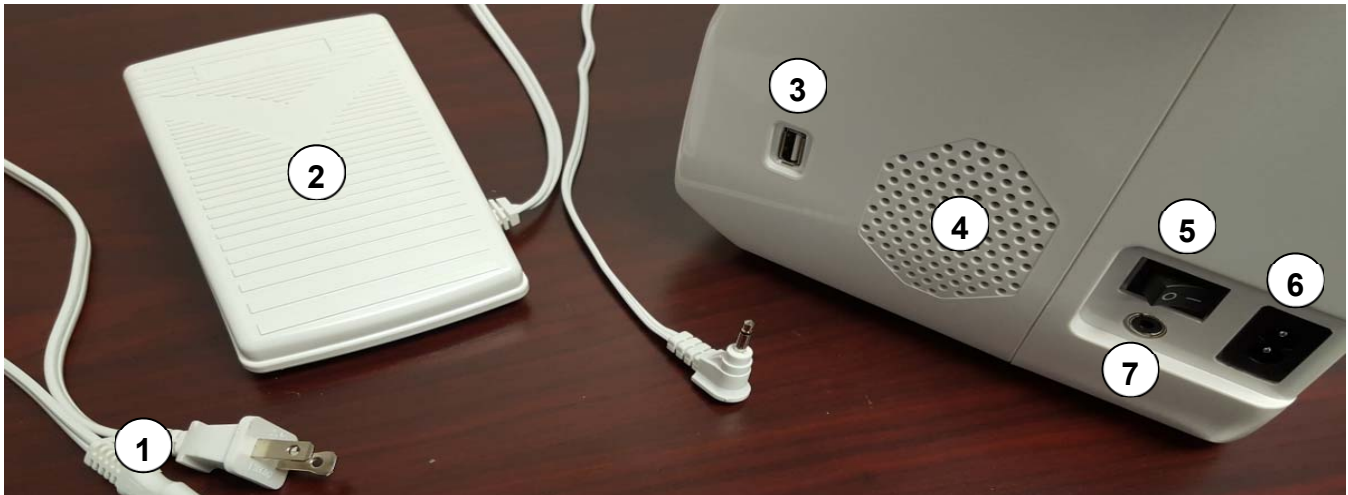
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| 1. Top Cap | 7. LCD Display | 11. Minor Spool Pin |
| 2. Thread Tension Dial | 8. Bobbin Winder Thread Dial | 12. Bobbin Winder Spindle |
| 3. Presser Foot Pressure Dial | 9. Thread Guide | 13. Bobbin Stop |
| 4. Thread Cutter | 10. Main Spool Pin | 14. Handy Hook™ |
| 5. Accessories Box | | |
| 6. Smart Device Holder | | |





- | | | | |
|--------------------------|-------------------------|------------------------------|---------------------------------------|
| 15. Hand Wheel | 19. Foot Control Socket | 23. Automatic Threader Lever | 27. Power Cord |
| 16. Carrying Handle | 20. Main Power Socket | 24. Fast-Change Foot Lever | 28. Foot Controller |
| 17. USB Charging Station | 21. Presser Foot Lever | 25. Buttonhole Lever Arm | 29. Camera and Light
(not visible) |
| 18. Main Power Switch | 22. Feed Dogs | 26. Needle Plate | |

Machine Power and Sockets



- (1) **Power Cord** — Connects to main power socket.
- (2) **Foot Controller** — This controls the sewing speed (up to the speed selected by the slider).
- (3) **USB Charging Station** — The USB charging station is available to charge your mobile devices.
- (4) **Air Vent** — Make sure the air vent is never obstructed in any way.
- (5) **Main Power Switch** — This switch toggles the main power on and off.
- (6) **Main Power Socket** — Connect the power cord to the power socket, then to the wall outlet.
- (7) **Foot Controller Socket** — Connect the foot controller to this port.

NOTE

If a power outage occurs while sewing, immediately switch off the machine power and unplug the power cord. When power is restored, restart the sewing machine normally.



WARNING — Your sewing machine has a polarized electrical plug (one blade is wider than the other). Always plug the blades in correctly to an approved, listed wall outlet to reduce your risk for electrical shock. Never force the plug. If the plug does not fit, make sure you have aligned the polarized blades correctly. If the plug still does not fit, contact a qualified electrical technician. Never modify the electrical plug in any way.



Avoid sunlight



Fragile

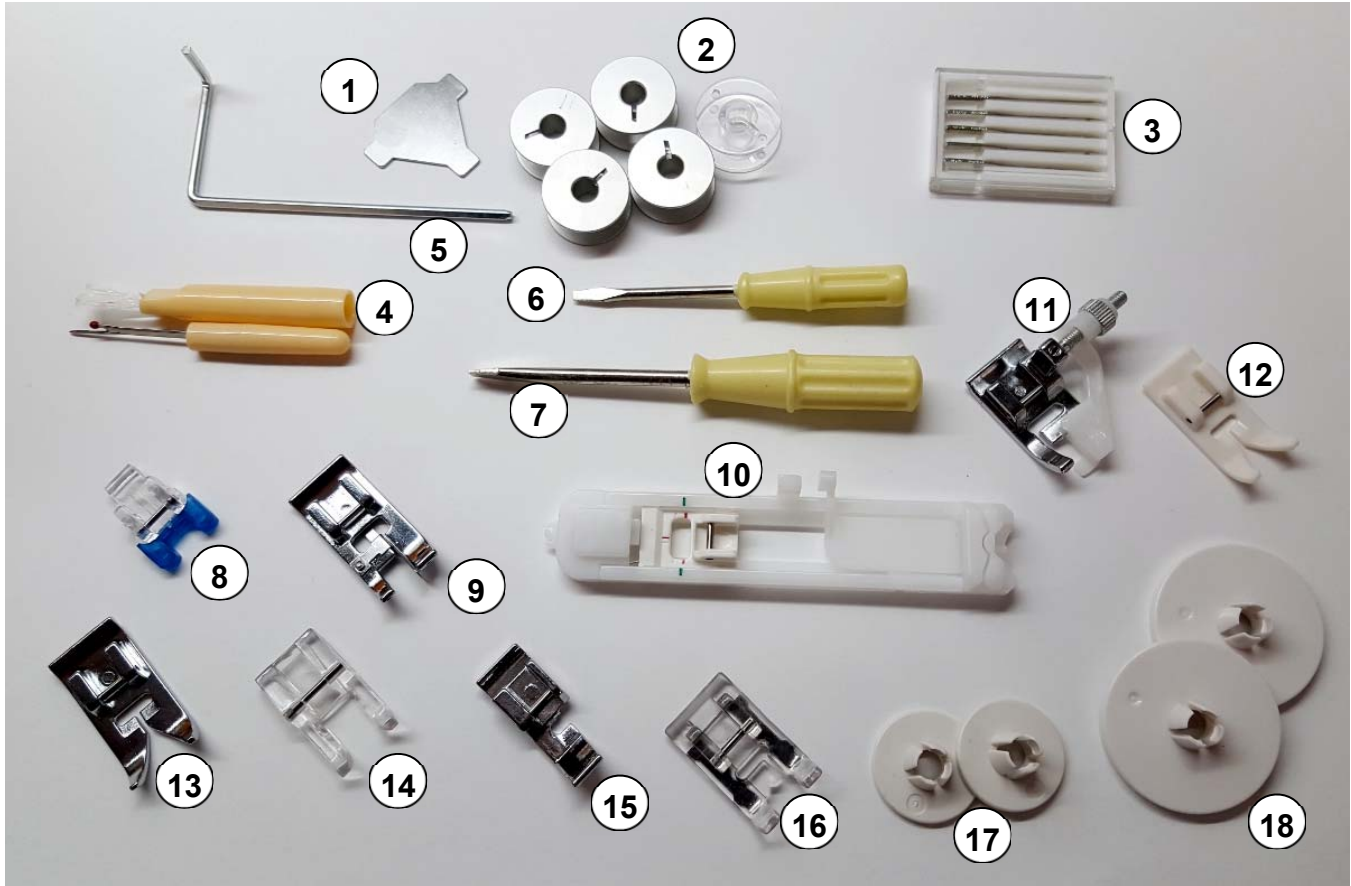


Avoid water

This sewing machine is intended for indoor household use only. Never use this sewing machine outside or expose it to the elements. Using this machine outdoors or exposing it to the elements could result in electric shock or damage to the machine. This machine is not intended for industrial use. Never expose the machine to extreme heat. Proper ventilation is required for normal operation. Poor ventilation or extreme heat could lead to machine failure, electrical fire, and increased risk of electric shock.

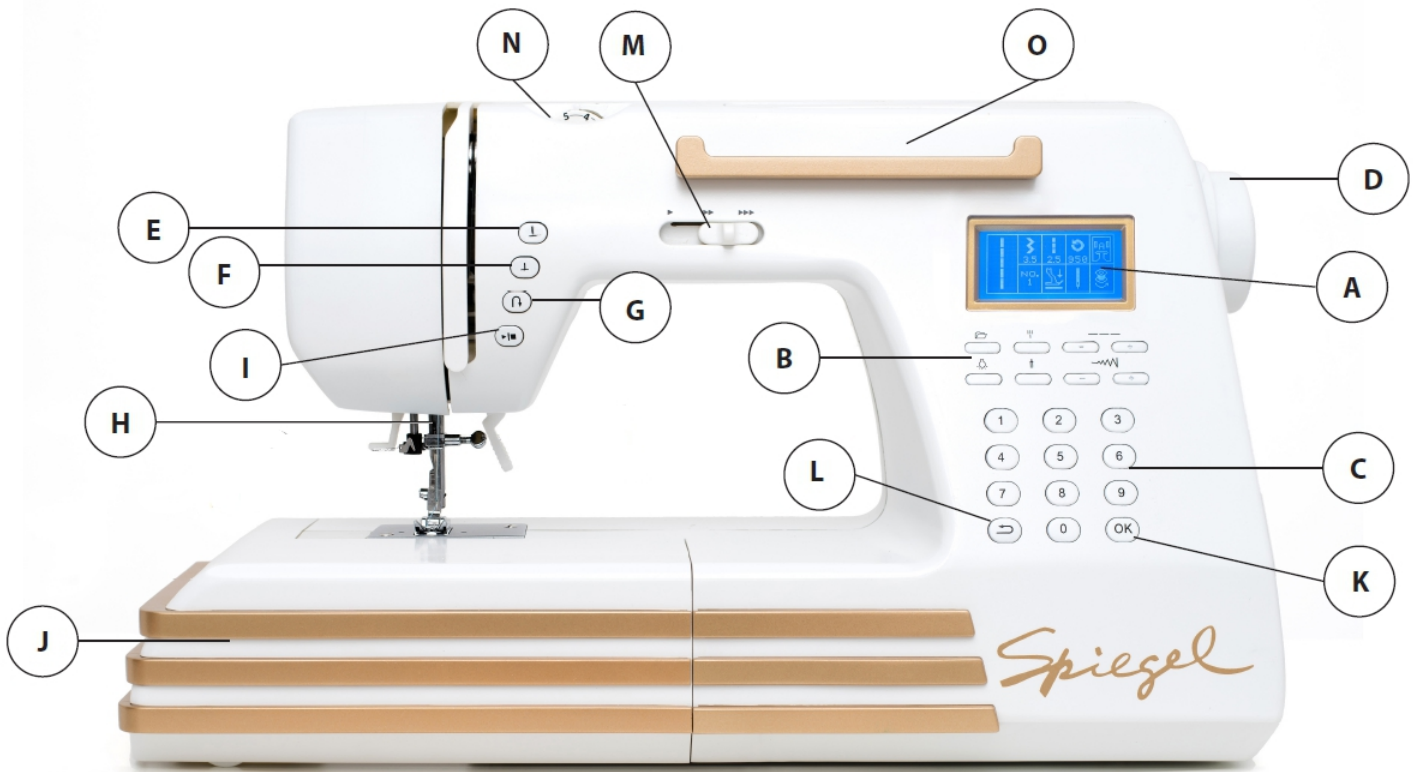
Accessories

Your sewing machine ships with all the accessories you need to begin sewing right away. These include the following items:



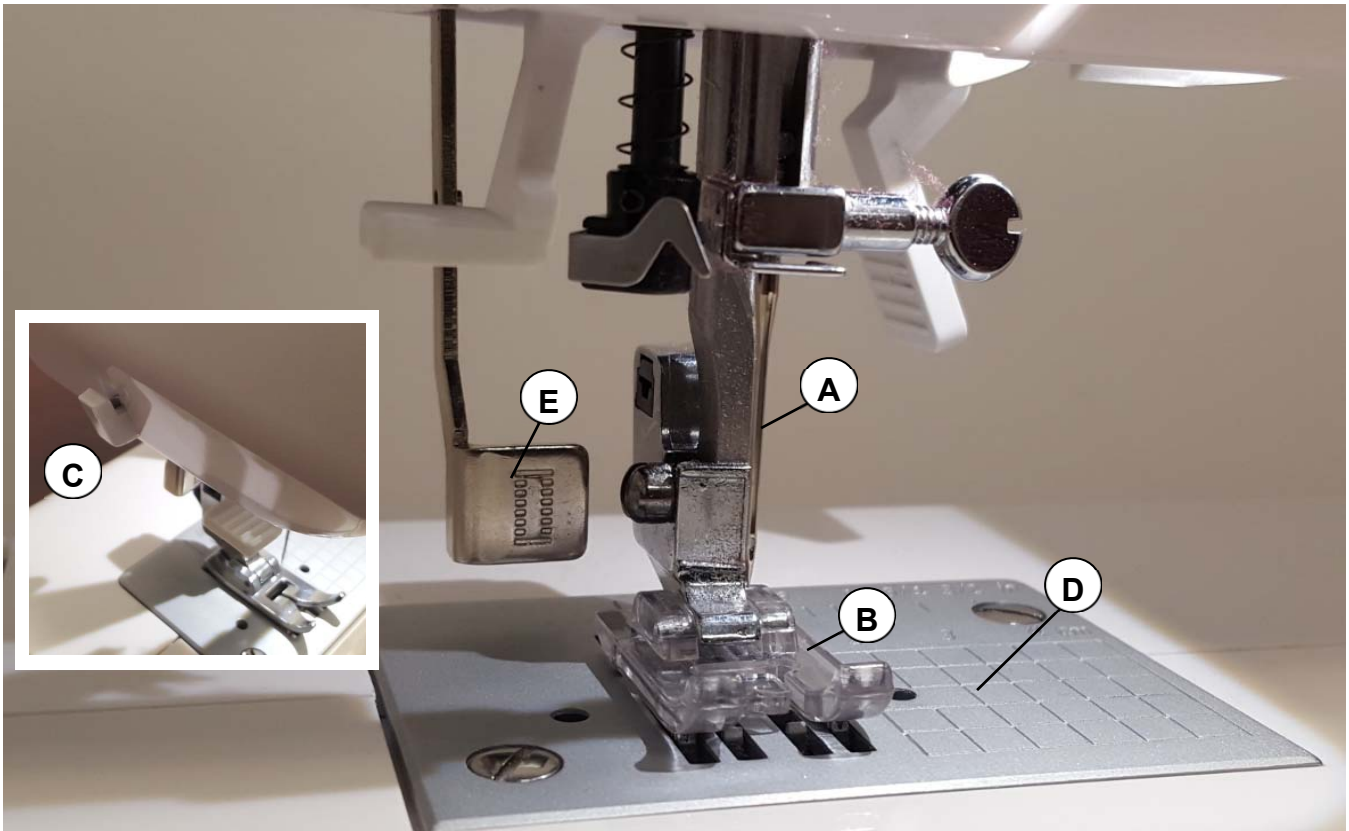
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|---|------------------------------------|
| 1. T-Shaped Screwdriver | 10. Buttonhole Foot |
| 2. Bobbins (6 total included; 1 is installed) | 11. Blind Hem Foot |
| 3. Needle Pack | 12. Zigzag Foot |
| 4. Seam Ripper/Brush | 13. Non-stick Foot |
| 5. Edge/Quilting Guide | 14. Open Toe Foot |
| 6. Screwdriver (Small) | 15. Zipper Foot |
| 7. Screwdriver (Large) | 16. Monogramming Foot (installed) |
| 8. Button Fitting Foot | 17. Spool Cap (Small) (2 included) |
| 9. Overcasting Foot | 18. Spool Cap (Large) (2 included) |

Controls Overview



- (A) **LCD Display** — This backlit panel provides feedback on operation selections.
- (B) **Menu Function Keys** — These keys allow the user to enter menu selections.
- (C) **Numeric Selection Keys** — These keys allow the user to enter stitch selections.
- (D) **Handwheel** — This allows the user to raise and lower the needle manually.
- (E) **Needle Up Key** — This automatically raises the needle, allowing the user to move and trim fabric.
- (F) **Needle Down Key** — This automatically lowers the needle, preventing slippage.
- (G) **Reverse Stitch Key** — When this key is pressed, the sewing machine automatically sews in reverse.
- (H) **Needle and Presser Foot** — Refer to the details on pages 6 and 10 for more information.
- (I) **Start/Stop Key** — This key allows the user to start and stop the sewing machine.
- (J) **Accessories Box** — This detachable tray holds accessories for your sewing machine. (While not a “control,” it is a very useful organizational tool.)
- (K) **OK Key** — This key allows the user to confirm entries.
- (L) **Cancel/Clear Key** — Press this key to cancel the previous entry.
- (M) **Speed Control Slider** — The user may slide this lever left or right to control the speed of the machine.
- (N) **Thread Tension Dial** — This dial is used to adjust the upper thread tension. Tension is adjusted automatically to the setting selected.
- (O) **Smart Device Holder** — This tray can be used to hold your smartphone, tablet, or other wireless device for use with the Stitch Cam™ feature.

Needle and Presser Foot



(A) Needle — The needle of your sewing machine can be changed by turning the screw on the shaft above the needle. The flat side of the needle must be flush to the shaft (if the needle is installed backwards, it will fall out). Your sewing machine also incorporates an automatic threading mechanism that threads the needle when you pull the lever connected to the mechanism.

(B) Presser Foot — The presser foot maintains pressure on the fabric during stitching, keeping fabric smooth and in position. Open areas within the shape of the presser foot accommodate different stitches. There are different presser feet for zigzag stitches, for buttonhole stitches, and for zipper stitches. Your sewing machine ships from the factory with a basic presser foot already installed. This is sufficient for sewing basic stitches.

(C) Thread Cutter — Your sewing machine is equipped with a thread cutter. Simply draw the thread through the opening in the cutter and pull down gently over the blade set in the plastic hook, using enough pressure to separate the thread. You may then remove the fabric.

(D) Needle Plate — The needle plate incorporates moving grooves beneath the presser foot (“feed dogs”), which pull the fabric through the machine as you sew. The feed dogs can be dropped (lowered) for quilting projects.

(E) Buttonhole Lever Arm — This arm is used with the one-step buttonhole foot when sewing buttons. Refer to page 35, “Buttonhole Foot Sewing,” for more information.

NOTE

Always remove pins prior to sewing. Always keep feed dogs free of debris, pins, and scraps of fabric or thread, to prevent clogging and jamming of the bobbin.

Operation Buttons

(1) **Sewing Speed Control Slider** — Moving the slider from left (slow) to right (faster) changes the speed (for those stitches where faster speeds are available).

NOTE

The highest speed of 950 stitches per minute is available only in straight-stitch sewing. Certain stitches have different maximum speeds, which are set in the sewing machine software. These maximum speeds cannot be exceeded. Changing the speed controller will not increase the speed of the stitch past this point.



- (2) **Needle Up Key** — Press the Needle Up key to stop the needle in the upper position. This is used when operating the automatic needle threader and when removing fabric from the machine.
- (3) **Needle Down Key** — Press the Needle Down key to stop the needle in the lower position. This is used to more easily trim and maneuver fabric.
- (4) **Reverse Stitch Key** — Press the Reverse Stitch key to sew reverse stitches.

NOTE

The key must be held down for reverse stitching. Release the key to stop sewing. Only straight stitches can be reversed evenly.

- (5) **Start/Stop Key** — Press the Start/Stop key to start or stop sewing.

NOTE

The Start/Stop key functions **ONLY** when the foot controller is **NOT** plugged in. Once the Start/Stop key has been pressed to start the machine, the machine **WILL NOT STOP** until the key is pressed again.

- (6) **LCD (Liquid Crystal Display)** — This provides visual indication of settings for the selected stitch and also displays status and error messages.
- (7) **Folder Setting Key** — Press this key to enter the numeric designation for a specific stitch (which is confirmed with the **OK** key).
- (8) **Stretch Stitch Key** — Press this key to reverse 3-5 stitches, which reinforces the stitching.

NOTE This feature works with straight stitches only.

- (9) **LED Light/Camera Key** — Press this key to turn on/off the LED light and camera.

NOTE Switching off the light and camera also switches off WiFi connectivity.

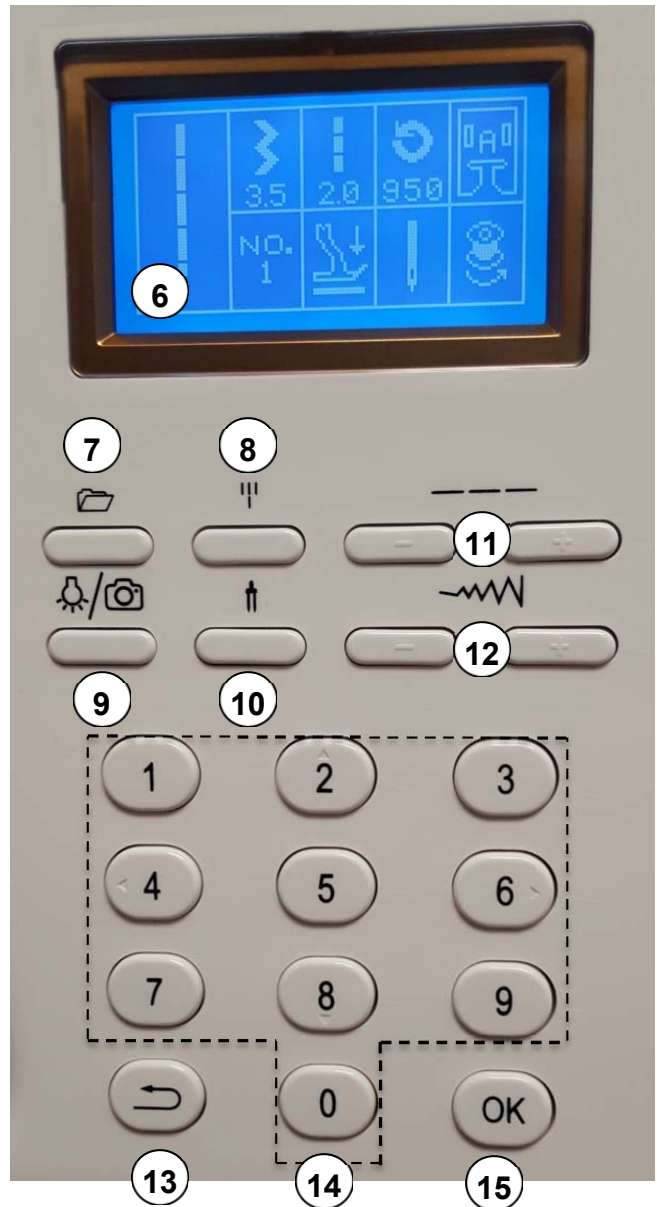
- (10) **Needle Type Key (Single/Twin)** — Press this key to toggle between single needle sewing and twin needle sewing.

NOTE Stitch width automatically adjusts to 4mm when twin needle sewing is toggled on.

- (11) **Stitch Length Keys** — Press "-" or "+" to adjust the stitch length.
- (12) **Stitch Width Keys** — Press "-" or "+" to adjust the stitch width.

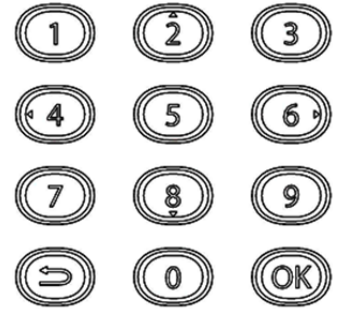
NOTE Stitch width cannot be changed on certain preprogrammed stitches.

- (13) **Cancel/Clear Key** — Press this key to cancel the entry.
- (14) **Numeric Selection Keys (0-9)** — These keys are used to enter the numeric designations for specific stitches.
- (15) **OK Key** — Press this key to confirm entries when entering stitch code numbers.



Numeric Selection Keypad Arrows

Arrows on the 2, 4, 6, and 8 keys of the Numeric Selection Keypad can be used when selecting stitches (refer to **Selecting Stitches** for more information). Normally, to select a specific stitch, you would press the **Folder Setting** key, then the number of the stitch you want. If you do not first press the **Folder Setting** key, the 2, 4, 6, and 8 keys function as directional inputs.



Left Arrow (4 Key): This lets you scroll backwards through previously used stitches. For example, if you used stitch #1, stitch #5, and stitch #10, you could left-arrow back to stitch #5 from stitch #10.

NOTE

Stitches only become available in this “scroll back” list after you have sewn with them. Simply entering the stitch and confirming with the OK key does not add the stitch.

Right Arrow (6 Key): This lets you scroll forward through previously used stitches if you have already scrolled backward. For example, if you used stitch #1, stitch #5, and stitch #10, you could left-arrow back to stitch #5 from stitch #10, then right-arrow forward to stitch #10 again.

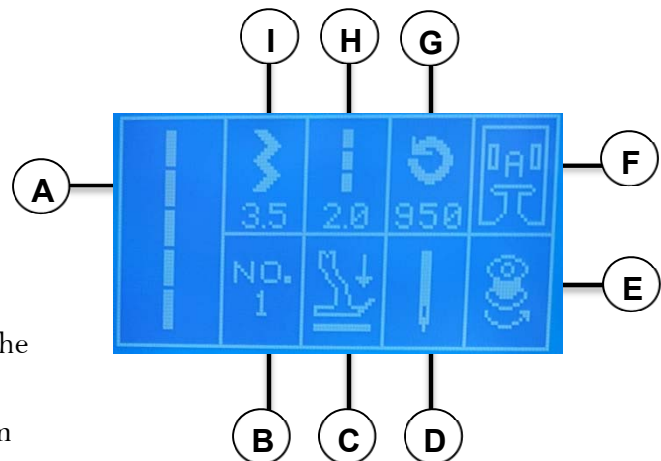
Up Arrow (2 Key): This lets you scroll up through the stitch catalog stitch by stitch.

Down Arrow (8 Key): This lets you scroll down through the stitch catalog stitch by stitch.

LCD (Liquid Crystal Display)

The LCD displays status and error codes for your sewing machine. These are displayed in the form of icons. The icons are arranged as follows:

- (A) — Selected Stitch
- (B) — Numeric designation for the selected stitch
- (C) — Presser foot status (raised or lowered)
- (D) — Twin/single needle sewing status
- (E) — Winding status (highlighted while winding bobbins)
- (F) — Presser foot type that is installed (refer to the **Presser Foot Icons** section)
- (G) — Maximum sewing speed (which ranges from 90 to 950 stitches per minute)
- (H) — Stitch length (0mm to 5mm)
- (I) — Stitch width (0mm to 7mm)



LCD ICONS










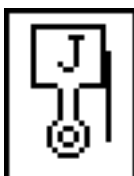


Status Icons

Icon	Explanation	Icon	Explanation
	Selected stitch number		This is how the display appears when editing the stitch number
	Stitch length (system set)		Stitch width (system set)
	Stitch length cannot be adjusted		Stitch width cannot be adjusted
	Stitch length (manually adjusted)		Stitch width (manually adjusted)
	The highest sewing speed for the current stitch (in standby mode)		The highest sewing speed for the current stitch when sewing
	Presser foot is lowered		Presser foot is raised
	Bobbin winding in dormant mode (off/disengaged)		Bobbin winding is working (on/engaged)
	Single needle for current stitch		Twin-needle for current stitch

LCD SCREEN STATUS EXAMPLE



Presser Foot Icons

Icon	Explanation	Icon	Explanation
	A- Zigzag Foot		B- Buttonhole Foot
	C- Blind Hem Foot		D- Button Fitting Foot
	E- Overcasting Foot		F- Non-Stick Foot
	G- Open Toe Foot		H- Quilting Foot (not included)
	I- Monogramming Foot		J- Embroidery/Darning Foot (not included)
	K- Zipper Foot		L- Walking Foot (not included)

NOTE

Please refer to our online support center and video tutorials for instructions on selecting and easily changing the presser foot. The Embroidery/Darning Foot and Walking Foot presser foot are sold separately at www.spiegelsewing.com.



WARNING — Always switch off the sewing machine when changing the presser foot. Be extremely careful when placing your hands close to the needle.

CONTROLLING YOUR SEWING MACHINE

Your computerized sewing machine uses electrical power. Follow all relevant safety guidelines to avoid the risk of shock, fire, and injury.



WARNING — Outdoor use is not recommended. Use the sewing machine only as designed and intended. Do not use the machine with accessories not provided for sale by Spiegel. Use of unapproved accessories could result in injury and/or damage to the machine, and will void your limited Spiegel product warranty.

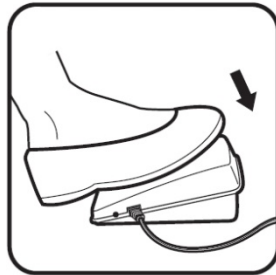
- This machine should not be operated near oxygen tanks or where oxygen is being administered. Do not operate the machine in proximity to any aerosol chemical.
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- Always switch off the sewing machine whenever you are changing the needle or whenever you are otherwise adjusting the sewing machine.
- Do not block the ventilation slots of the sewing machine. Proper air flow is required for operation of the machine. Do not allow fabric, dust, or debris to block the air vents. Never insert objects into any openings or seams on the machine.

Using The Foot Controller

The speed control slider sets the maximum speed at which you sew, but the foot controller allows you to control the *actual* speed at which you sew, from zero up to the maximum speed selected by the slider.

Connect the foot controller to the socket on the sewing machine. Then simply press lightly on the foot controller with your heel resting at the base.

The more pressure you exert, the faster the sewing machine operates. When you release pressure on the foot control, the sewing machine will stop.



NOTE

Before using the foot controller, connect it to the foot controller socket on the sewing machine.



WARNING —

Always watch the needle or the Stitch Cam™ when sewing. Keep fingers away from the needle area. You may feel the natural urge to look down at the foot pedal the first few times you use it, but resist this urge to reduce the risk of personal injury. Operate the foot pedal through feel and watch the needle or the Stitch Cam™ as you sew.

Always switch off the sewing machine before connecting the foot controller. This prevents the machine from running accidentally when the controller is connected.

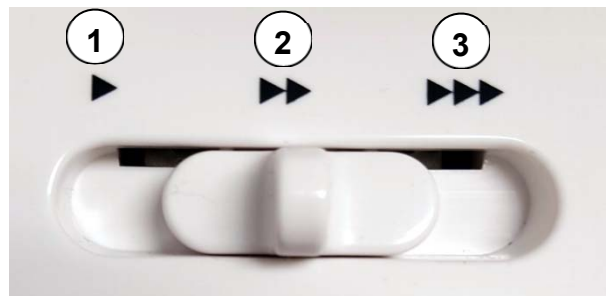
NOTE

The Start/Stop key cannot be used to start and stop the sewing machine when the foot controller is connected to the sewing machine.

Speed Control Slider

Slide the speed control to the left (1) for slower speed and to the right (3) for the highest speed. You can adjust the speed only to the maximum for the selected stitch, which varies from stitch to stitch. The setting selected by the slider becomes the foot controller's maximum speed. The speeds are as follows:

1. Low — 90-300 stitches per minute
2. Medium — 300-500 stitches per minute
3. High — 500-950 stitches per minute



CONNECTING TO YOUR STITCH CAM™

~ Spiegel 60609 WIFI STATION & CAMERA ~

Overview

Your Spiegel WiFi capable sewing machine comes equipped with a camera that overlooks the sewing work area. A smartphone, tablet, or other wireless device running the Spiegel sewing app must be connected to your sewing machine's local WiFi network to facilitate viewing the sewing area in a real-time close-up view. The tablet/smartphone Handy Hook™ on top of the sewing machine allows you to safely mount your wireless device on the machine while the viewing application is in use. A USB charging station is also located on the sewing machine for your convenience.



Using the Handy Hook™

The Handy Hook™ can be used to hold your smartphone, tablet, or other device securely on the sewing machine so that you can take full advantage of the machine's advanced features. For large devices, use the Handy Hook™ with the rotating hook positioned at the top of the shaft for maximum possible reach. For smaller devices, remove the hook and reverse it within the shaft as shown so that the hook can be positioned close enough to hold the device.



Setting Up Your Sewing Machine

To connect to the Stitch Cam™, you will need to download the Spiegel sewing app. Once installed, the app will guide you through the necessary steps to get your Stitch Cam™ working.

NOTE The default password is **Style150**. Your Spiegel 60609 is compatible with 2.4ghz routers ONLY.

1. Download and install the Spiegel sewing app from Google Play, the iTunes Store, or Amazon App Store, depending on your device and operating system.
2. Turn on your sewing machine.
3. From your smartphone, tablet, or other wireless device, run the Spiegel sewing app and follow the instructions to connect with your sewing machine.



Download the Spiegel Sewing App right now from Google Play, the iTunes Store, or the Amazon App Store!

Not only will the app guide you through the process of controlling your Stitch Cam™, but our website www.SpiegelSewing.com, contains many video tutorials that will help you get the most out of your Model 60609 sewing machine. You can access SpiegelSewing.com through the QR code shown here.

NOTE

Depending on your device, it may be necessary to exit the Spiegel sewing app in order to connect or reconnect to the appropriate wireless network. This may also be necessary when updating firmware for your sewing machine, or when updating the app itself. For more information and help with connecting your device, visit www.SpiegelSewing.com.

Using the USB Charging Station

Your sewing machine is equipped with a state-of-the-art USB charging station located at the bottom front area of the sewing machine's right side.



Any supported device can be plugged into this port and charged while it is used in conjunction with the Stitch Cam™.



WARNING — Plug in your device to charge only when necessary. Make sure USB cables do not become snagged or pulled into the sewing machine. If any cord or USB plug appears damaged, discontinue use immediately to avoid risk of electric shock or machine power failure. **DO NOT** insert foreign objects into the USB charging station. Make sure the USB charging station does not become blocked with pins, needles, thread, fabric, or other debris.

NOTE

USB connectors can be inserted in the charging station in only one direction. Do not force connectors. Check the orientation of the plug before attempting to reinsert it.

If your device does not charge when connected to the USB charging station, it may be incompatible with the charging station, or the charging station may not generate sufficient power for your device to register the charge. If this occurs, use an alternate charging method.

HOW TO THREAD AND USE YOUR MACHINE

~ Watch Video Demonstrations at www.SpiegelSewing.com ~

Upper Threading and Auto Threader



WARNING — Always switch off the machine power before performing upper threading.

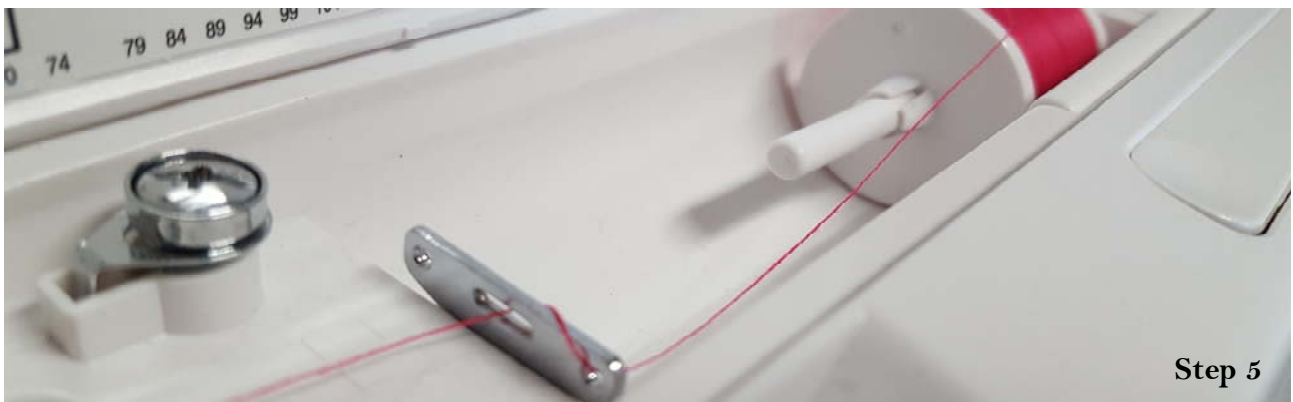
1. Raise the presser foot lever.
2. Rotate the handwheel counter-clockwise to raise the needle to its highest position.
3. Open the top cover of the machine.

Upper Threading

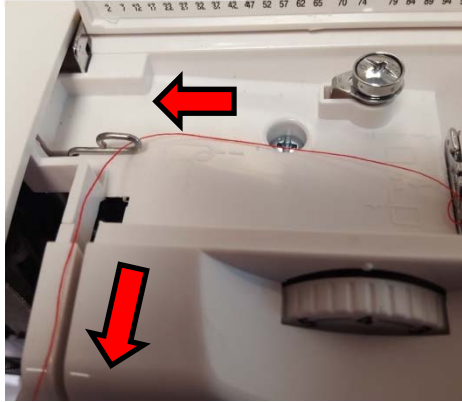
4. Insert the spool of thread and secure it with one of the supplied spool caps.



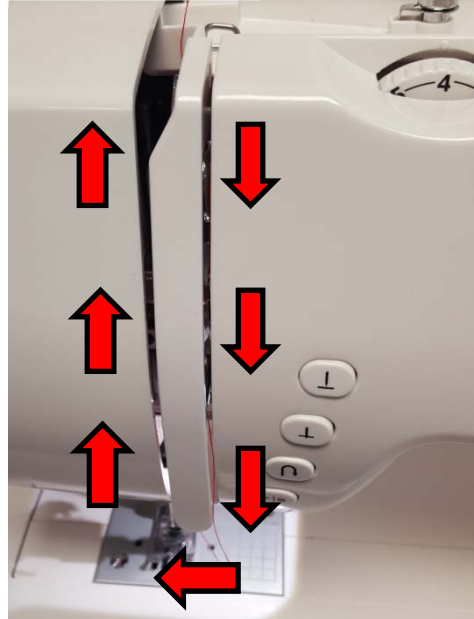
5. Pull the thread through the thread guide as shown.



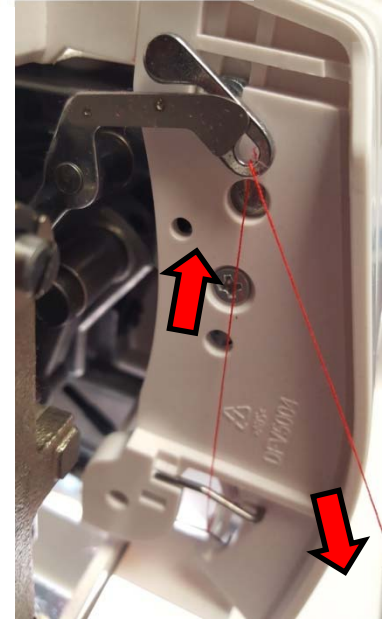
Step 6



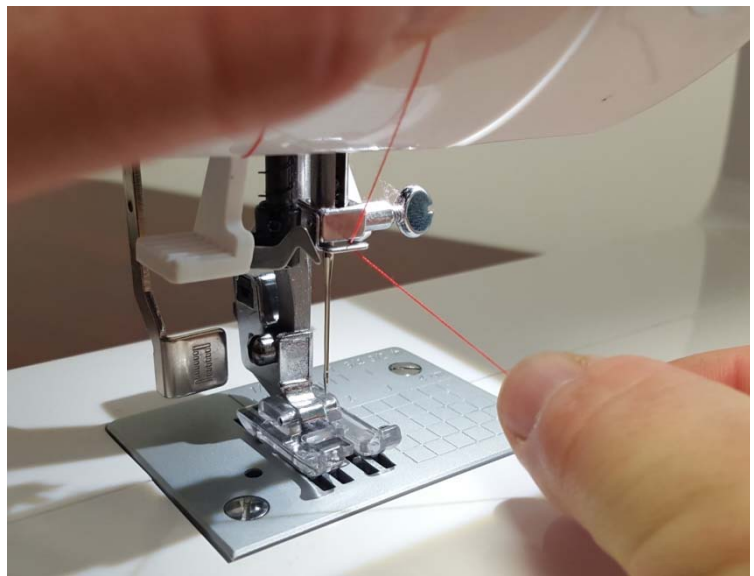
Step 7



Cutaway View



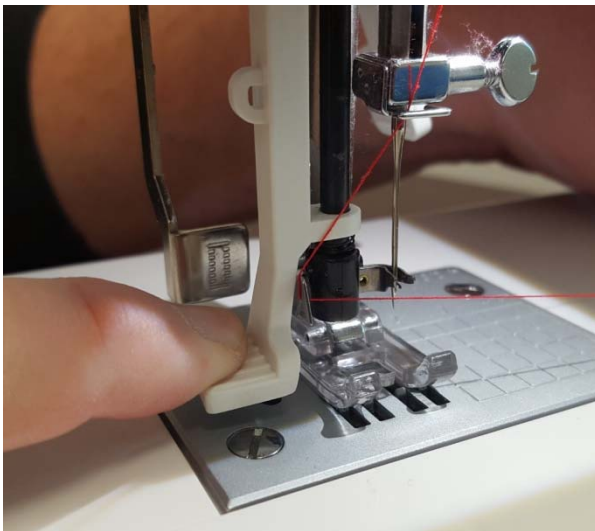
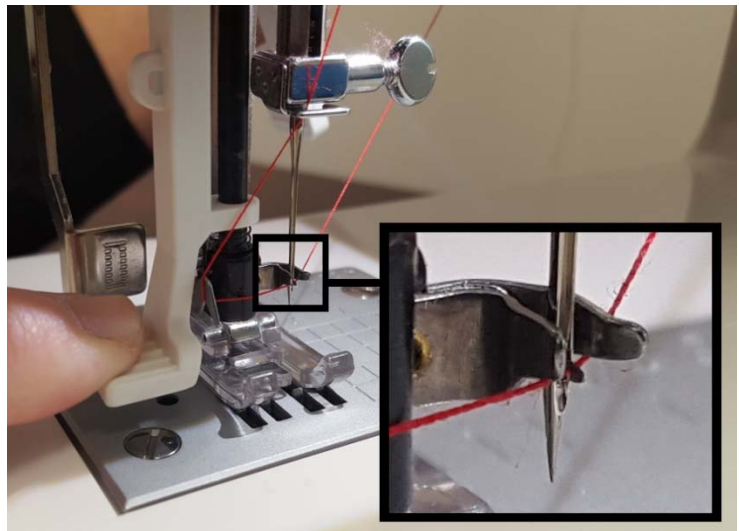
6. Pull the thread through wire guide as shown.
7. Guide the thread down, around, and up into the long U-shaped channel until it is captured by the mechanism, then bring the thread down to the needle area. The **cutaway view** shows what is happening inside the machine when you bring the thread down and around the U-shaped tension plate: the thread is captured by the internal mechanism so it can be brought down to the needle.
8. Bring the thread down to the needle and guide it as indicated. It is now possible to thread the needle. Refer to the next page for instructions on using the auto-threader.



Step 8

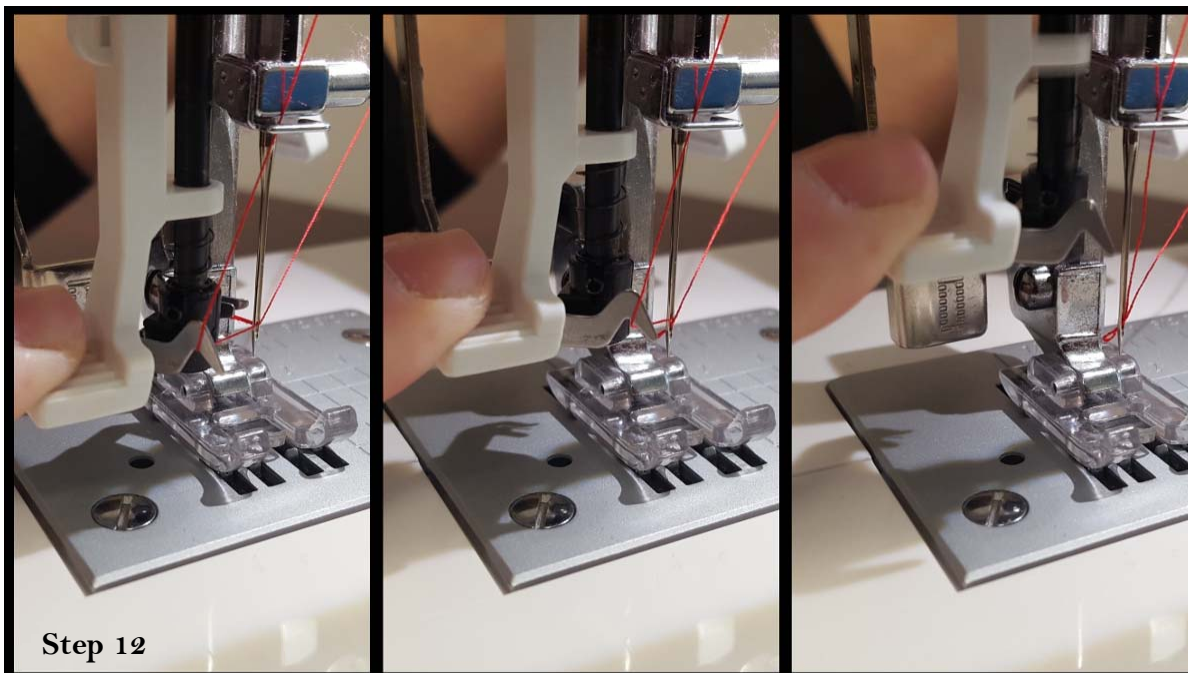
Auto-threader

9. Loop the thread around the hook of the auto-threader as shown here.
10. Press the auto-threader lever to bring the hooked thread down toward the needle.
11. The thread should be guided into position by the auto-threader relative to the needle as shown here. When the auto-threader lever is released, the thread will be pulled through the eye of the needle.

Step 9**Step 10****Step 11****NOTE**

If this is your first time using the automatic threader tool, it may take a few attempts to catch the thread as shown in Step 11. The hook that passes through the needle must be able to catch the thread. Press down firmly to make sure the hook passes through the needle fully. Release simultaneously, opening your hand and letting go of the hook at the same time.

12. Slowly release the auto-threader lever, drawing the thread through the eye of the needle.

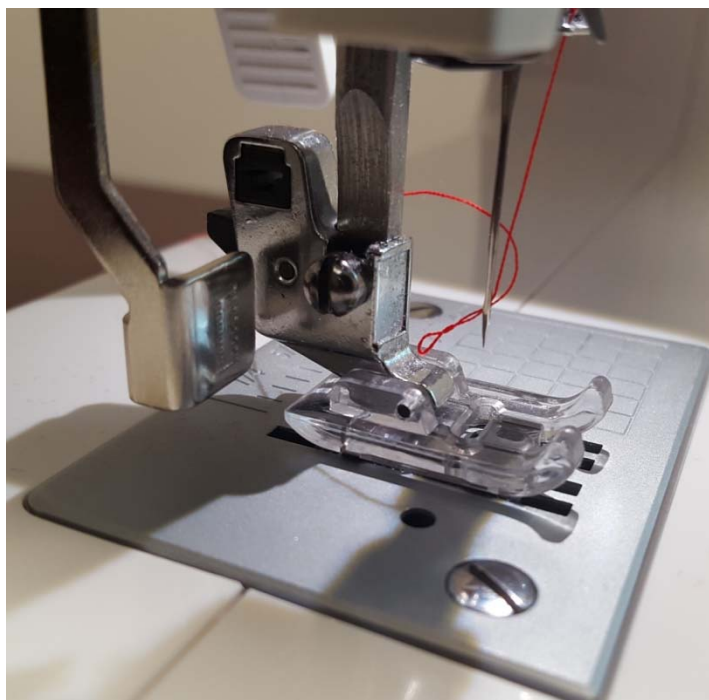


13. If auto-threading is successful, the thread will appear as shown.

14. Position the thread to prepare for lower threading.



Step 14



Step 13

Make sure these three conditions are met in order to have consistent success with the automatic threader:

1. The needle must be in the up position.
2. The auto-threader lever must be fully depressed to ensure the hook within the needle cage has

fully rotated through the needle eyelet.

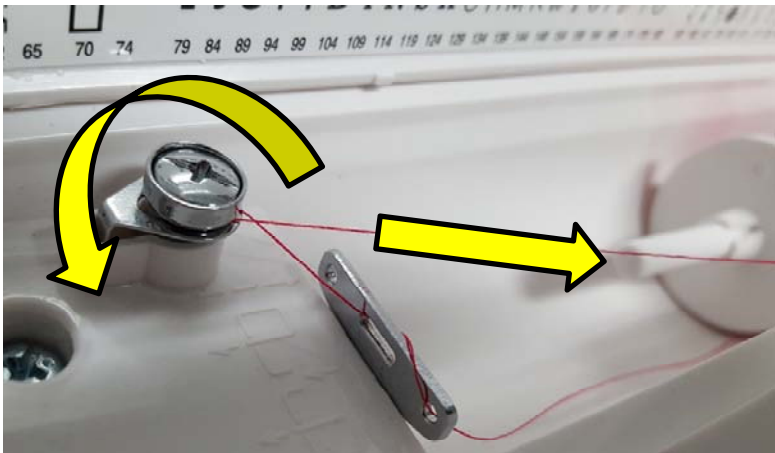
3. When drawing the thread across the needle cage, make sure the thread is pulled back against the needle and up against the bottom side of the hook. This will help the hook to catch the thread successfully when retracting.

Winding the Bobbin in Preparation for Lower Threading

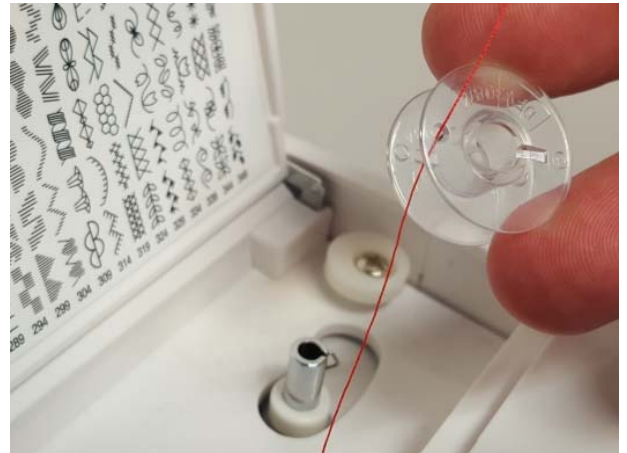
⚠ CAUTION — Always stop sewing before winding the bobbin. The 60609 sewing machine uses a BO-103(Z) style bobbin. Use of any unapproved bobbin could damage the machine or result in poor performance. Additional bobbins are available at Spiegelsewing.com.

To wind the bobbin in preparation for lower threading, stop sewing, open the top cover, and perform the following steps:

1. Place a spool of thread onto the spool pin and secure it with one of the provided spool caps.
2. Pull the thread through the thread guide and counter-clockwise around the bobbin winder thread guide.
3. Guide the thread back toward the bobbin as shown.



Step 2 & Step 3



Step 4

4. Pick up the bobbin, pass the end of the thread through the hole in the bobbin, and reposition the bobbin on the bobbin winder shaft. The bobbin is now prepared for winding.
5. Insert the bobbin on the bobbin winder spindle and push the spindle into the winding position. The bobbin winding icon will be highlighted on the sewing machine's LCD display.



Step 5



Bobbin Prepared for Winding

- Using the **Start/Stop** button or the foot controller, run the sewing machine to wind the bobbin.

NOTE For best results, use at least medium speed for bobbin winding.



Step 6

- Release the foot controller or press the **Start/Stop** key and cut the end of the thread when the bobbin is full. The bobbin will automatically stop winding when it is full, but the machine will

continue running until stopped.

8. When bobbin winding is completed, push the bobbin winder back to the left position to return to sewing. Remove the bobbin from the shaft.

NOTE

When the bobbin winder spindle is in the “bobbin winding” position, the machine will not sew and the hand wheel will not turn. To start sewing, push the bobbin winder spindle to the left (“sewing position”).

Lower (Bobbin) Threading



WARNING — Always switch off the machine power before performing lower threading.



CAUTION — The 60609 sewing machine uses a BO-103(Z) style bobbin. Use of any unapproved bobbin may damage the machine or result in poor performance. Always stop sewing before winding the bobbin.

NOTE

The needle must be raised to its upper position before inserting or removing the bobbin.

Perform the following steps to insert the bobbin:

1. Remove the accessories box and open the hinged cover below the needle area. The bobbin case has a metal latch in its face. Pull this latch to release the bobbin case from the sewing machine. Remove the bobbin case.
2. Hold the bobbin case so the thread unwinds in the direction shown and put the bobbin in the bobbin case, pulling the thread into the notch.



Step 1



Step 2

3. Draw the thread under the tension spring, out from the slot on the end of the spring, and pass it through the bobbin case thread guard. Allow about 4 inches of thread to hang freely from the bobbin.



Step 3, Part 1

Step 3, Part 2

Step 3, Part 3

Step 4

4. Insert the bobbin case fully into the machine as shown and release the latch. Make sure the metal finger fits into the notch at the top of the race cover. You should hear a loud “click” when the bobbin seats properly.

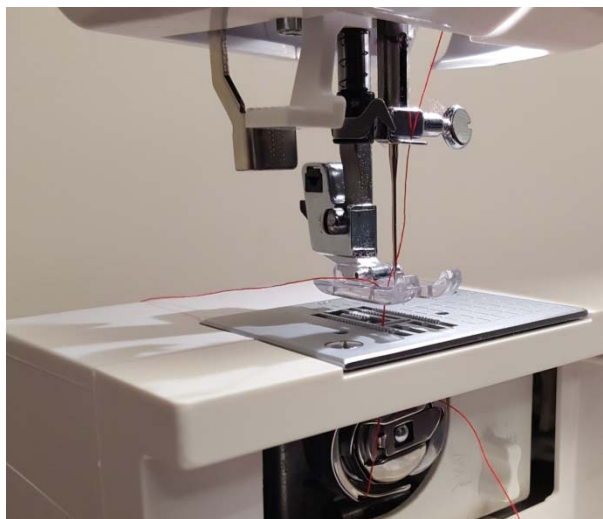
NOTE

Do not operate the sewing machine with the bobbin installed unless you hear the bobbin locking mechanism click, indicating it is seated properly.

Bringing up the Lower Thread

To bring up the lower thread, perform the following steps:

1. While holding the upper thread in one hand, turn the handwheel toward you with your other hand until the needle goes down and comes up again to its highest position.
2. Lightly draw out the needle thread, forming a loop with the bobbin thread. The upper thread should have caught the lower thread in a loop.
3. Pull the needle thread toward you and the lower thread will come up from the bobbin in a large loop. Pull about 6 inches (15 centimeters) of both threads away from you under the presser foot.



Step 2



Step 3

Needle Types for Different Fabrics

Different fabrics require different needle types. Here are some general guidelines for the needle size to use, depending on the fabric you are working with:

Fabrics	Needle Size
Silk	11
Knit	11
Polyester Cotton (thin)	11-14
Polyester Cotton (medium)	11-14
Medium-heavy fabrics	14-16
Heavy-weight fabrics	16

NOTE

Your sewing machine ships with size 11 and size 14 needles. Other sizes are sold separately wherever quality sewing supplies are available.

Changing the Needle



WARNING — Always switch off the machine power before changing needles.

Needles should be replaced at the first sign of thread breakage or skipped stitches. Select the correct type and size of needle for the fabric to be sewn. To replace the needle, perform the following steps:

1. Rotate the handwheel counter-clockwise to raise the needle to its highest position. Loosen the needle clamp screw to remove the installed needle.
2. Every needle has a curved side and a flat side. The flat side of the replacement needle shaft should be facing away from you. Push the needle up into the needle clamp as far as it will go and tighten the needle clamp screw firmly.

NOTE

The sewing needle must always be straight and sharp for smooth sewing. Visually check to verify the needle is straight. Replace the needle if it becomes bent, blunt, or otherwise damaged.



Step 2


Selecting Stitches

1. To select the stitch you want to sew, press the **Folder Setting** key.
2. Use the numeric keys to enter the number corresponding to the stitch you want to sew. Consult **Appendix A: Stitch Tables** for a complete list of stitches and their numerical designations. An abbreviated list of stitch designations can be found under the top cover of the sewing machine.
3. Press the **OK** key to confirm your entry and begin sewing.



Folder Setting Key

Attaching, Removing, & Replacing the Presser Foot

 **WARNING** — Always switch off the machine power before attaching, removing, or replacing the presser foot.

NOTE

The presser foot holder ships attached to the sewing machine already. Use these instructions if you need to reattach the presser foot holder and when changing presser feet.

1. Raise the needle to its highest position and raise the presser foot lever.

Removing the Presser Foot

2. Press the fast-change foot lever to release the presser foot.

Attaching the Presser Foot

3. With the needle at its highest point and the presser foot lever raised, align the presser foot to be attached.
4. Lower the presser foot lever.
5. Press the fast-change foot lever to engage the presser foot and pick it up.

Attaching the Seam Guide

Attach the seam guide as illustrated. Adjust the distance as required for hems, pleats, etc.



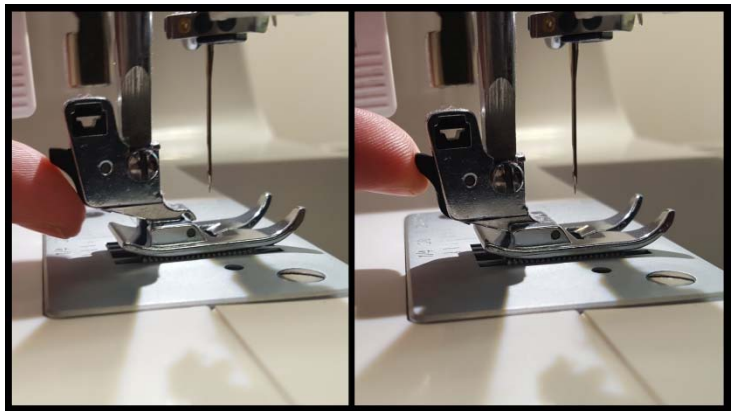
Step 1



Step 2



Attaching the seam guide



Step 5

Adjusting the Presser Foot Pressure

When sewing several layers of thick fabrics, the presser foot can be raised to a second stage for easy positioning of the material.

To adjust the presser foot pressure, turn the presser foot pressure dial on the side of the machine. The presser foot pressure is preset at the factory and should require little readjustment in normal use.



Presser Foot Pressure Dial

Thread Tension

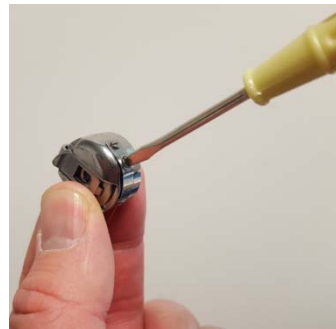
NOTE

The bobbin thread tension is preset at the factory and should require little readjustment in normal use.

To test the bobbin thread tension, remove the bobbin case and bobbin from the machine and hold the bobbin case suspended by the thread. Shake it once or twice. If the tension is correct, the thread will unwind about 2 inches (5cm). If the tension is too tight, it will not unwind. If the tension is too loose, the thread will unwind for more than 2 inches (5cm).

Lower Thread Tension

To adjust the lower thread tension, turn the small screw on the side of the bobbin case.



Adjusting Lower Thread Tension

Upper Thread Tension

The “basic” thread tension dial setting is 4. To increase the tension, turn the thread tension dial to a higher number. To reduce the tension, turn the thread tension dial to a lower number.

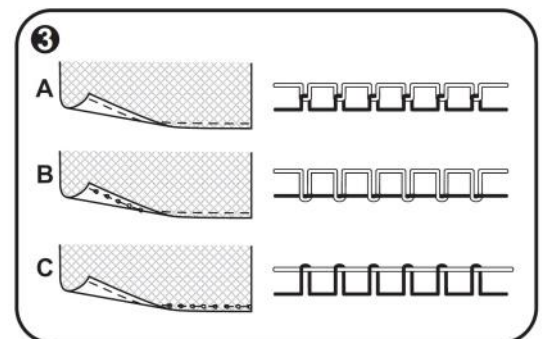


Basic Thread Tension Setting

- A. Normal thread tension
- B. Thread tension too loose
- C. Thread tension too tight

Select thread tension based on the fabric to be sewn:

Fabrics	Upper Thread Tension	Dial	Needle Size
Silk	80-85	5-6	11
Knit	20-30	3-3.5	11
Polyester Cotton (thin)	55-65	5	11-14
Polyester Cotton (medium)	20-30	3-3.5	11-14
Medium-heavy fabrics	45-50	4	14-16
Heavy-weight fabrics	45-55	4-5	16



Buttonhole Foot Sewing

1. Mark the position and length of the buttonhole on the fabric to be sewn.
2. Pull out the button guide plate of the buttonhole foot and insert the button you are going to sew onto the fabric.
3. Attach the one-step buttonhole foot and select the desired buttonhole stitch. (Refer to **Selecting Stitches** for more information.)

NOTE

Adjusting the stitch length can change the stitch density, but the buttonhole size depends on the button inserted in the one-step buttonhole foot.

4. Pass the upper thread down through the hole in the presser foot and pull it together with the lower thread away and to the left.
5. Place the fabric under the foot and make sure the buttonhole centerline marked on the fabric aligns with the center of the buttonhole foot.

NOTE

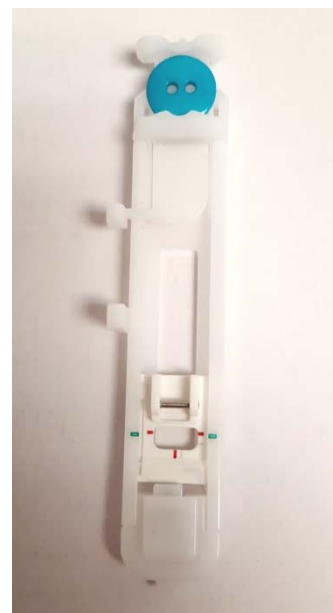
When sewing a buttonhole on stretch fabrics, we recommend you add backing to the underside of the fabric to increase its rigidity.

6. Pull down on the buttonhole lever arm until it is level with the buttonhole foot when lowered onto the fabric. The lever should line up directly behind the forward lever stop on the buttonhole foot.

NOTE

If the buttonhole lever arm is not pulled down all the way or if the one-step buttonhole foot is not positioned properly, the sewing machine will generate an error code message. Refer to the **Trouble-shooting** section for more information.

7. Gently lift the excess upper and lower thread to make sure they remain clear of the sewing area and begin sewing the buttonhole stitch. Sewing will stop automatically when the stitch is completed.



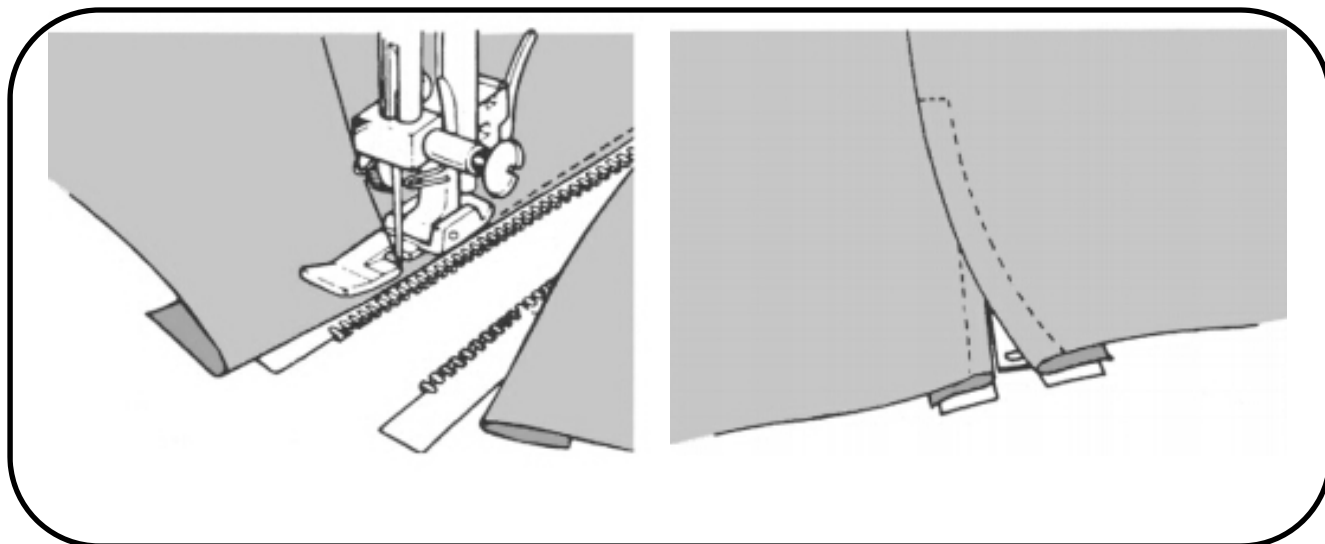
Measuring Button



Correct position of buttonhole foot and buttonhole lever arm

Sewing Zippers

1. To sew zippers, set the stitch length between 1 and 4, depending on the thickness of the fabric.
2. Remove the presser foot currently installed and install the zipper presser foot.
3. Pin or baste the zipper tape to the fabric and place it under the foot. Move the loose threads behind the needle and toward the back of the machine before lowering the foot.
4. To sew the left side of the zipper, guide the edge of the zipper foot along the zipper teeth and stitch through the garment and tape. Turn the fabric and sew the other side of the zipper in the same way as you did on the previous side.
5. To sew past the zipper pull, lower the needle into the fabric, raise the presser foot, and push the zipper pull behind the presser foot. Lower the presser foot and continue to sew.

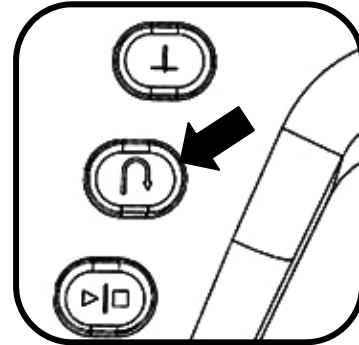


SEWING TIPS

To make your sewing experience with the Spiegel 60609 as fun and easy as possible, we have collected a few sewing tips you might find useful. For more sewing tips and tutorial videos that walk you through the setup and sewing process, visit www.SpiegelSewing.com.

Reverse Sewing

Reverse sewing is used for locking the end of seams and where reinforcement is needed. At the end of the seam, press and hold down the **Reverse Stitch** key on the sewing machine and touch the foot control lightly. Sew a few reverse stitches. Release the **Reverse Stitch** key to resume sewing forward.

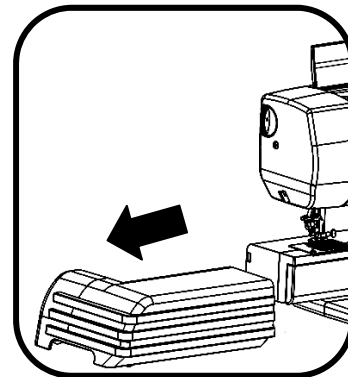


Sewing Stretch Fabrics

To sew stretch fabrics, prepare the piece of fabric by making some temporary stitches (which you will later remove) at a long stitch length to tack the pieces together. This will hold the fabric in place so you can sew it permanently without stretching it. You can then remove the tacking or basting stitch used to hold the fabric temporarily.

Sewing Free-Arm

To sew free arm, simply remove the accessories box from the sewing machine to provide you more room to shift fabric underneath the presser foot. This is useful when sewing in tight spaces, such as armholes or sleeve hems.



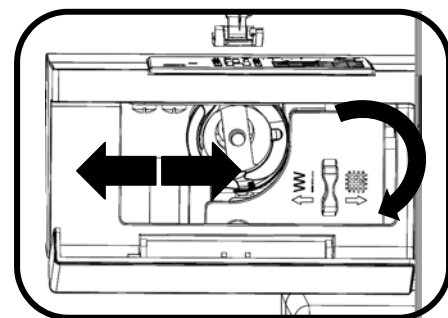
Applique, Patchwork, and Quilting

- For appliques, tack the applique to be applied to the fabric. Using the supplied zigzag presser foot, select an appropriate stitch and sew around the applique, being careful to remove any extra fabric left beyond the perimeter of the stitch. You can then remove the tack stitches.
- For patchwork and quilting, fold the upper fabric over the face side of the lower fabric and sew the two layers together, face to face.
- For quilting, install the edge/quilting foot. Tack the fabric to be quilted.

NOTE Edge/Quilting foot sold separately at www.spiegelsewing.com.

Free-Motion Quilting

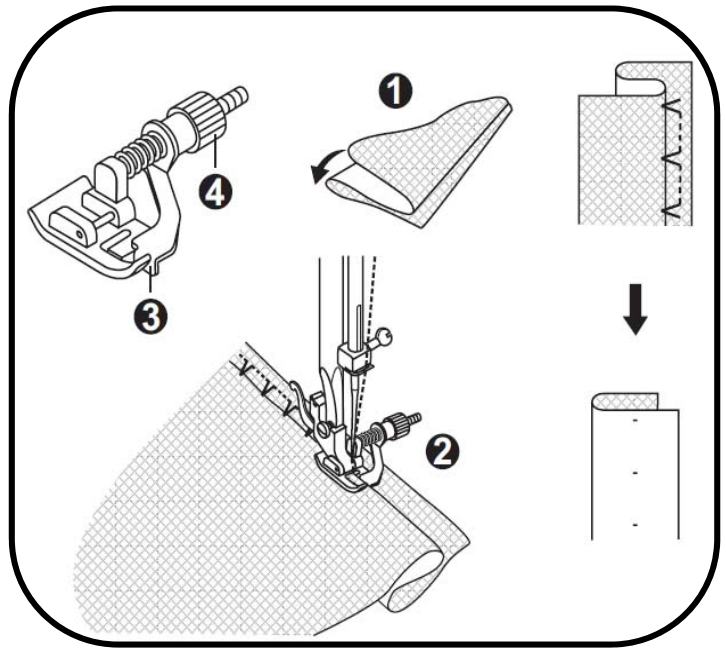
Remove the accessories box and open hinged cover below the needle area. Push the lever shown to the right to lower the feed dogs for free-motion quilting. Pull it toward you and move it to the left to restore the feed dogs to their normal position. (Make sure the presser foot is raised when lowering the feed dogs.)



Blind Hem Stitching

Always sew a test blind hem before making a blind hem stitch. Proper blind hem stitching requires practice. To sew a blind hem stitch, install the supplied blind hem presser foot.

1. Fold the fabric as illustrated with the “wrong” side up.
2. Place the fabric under the foot. Turn the handwheel forward until the needle swings fully to the left. It should just pierce the fold of the fabric. If it does not, adjust the stitch width accordingly.
3. Adjust the guide by turning the knob indicated in step 4.
4. Turn the knob on the blind hem presser foot until the guide just rests against the fold. Sew slowly by pressing the foot pedal and moving the fabric along the edge of the guide.



Reinforcement Stitching

- Using the zigzag presser foot, you can perform triple stretch stitching by selecting the appropriate stitch from the stitch catalog and then holding down the **Stretch Stitch** key while sewing. Release the **Stretch Stitch** key and select your stitch to resume sewing normally.
- Bar tacks, which are used for reinforcement, can be performed with the buttonhole presser foot.

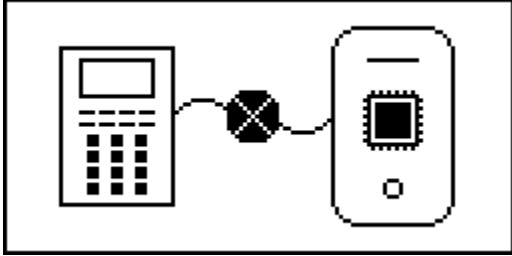
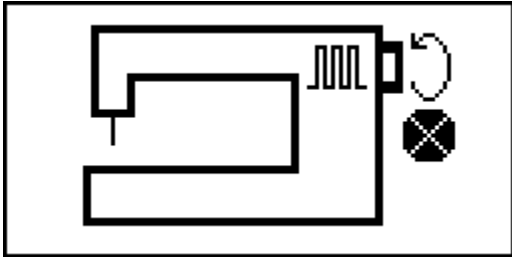
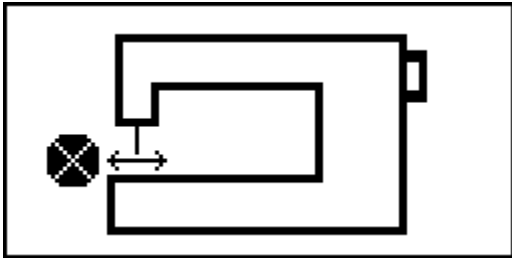
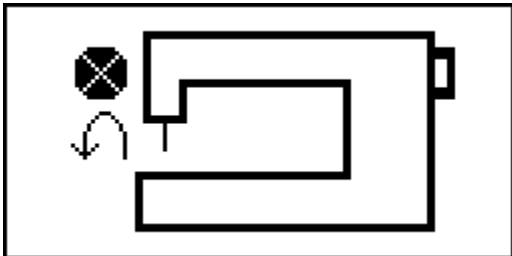
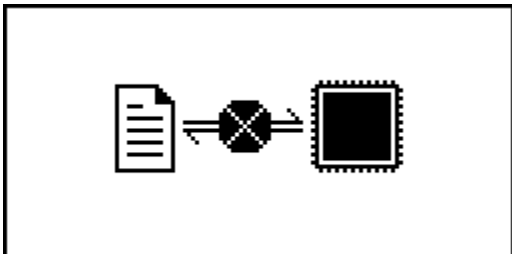
Decorative Stitching

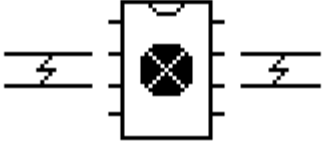
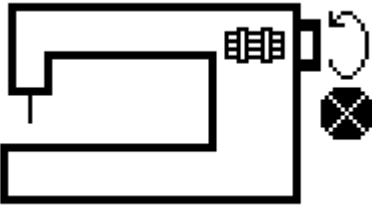
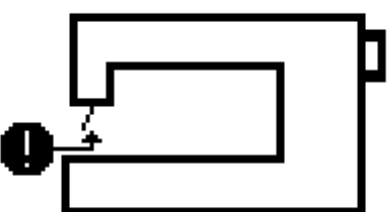


- Fagoting, or stitching across a seam that is open, is done by folding the two pieces of fabric on their seams and tacking them together. Use the supplied zigzag presser foot for sewing.
- Scallop stitching can be performed using the monogramming foot. Be sure to cut away unneeded fabric without cutting the stitches themselves.
- Shell tuck stitching can be performed by folding the fabric and using the zigzag presser foot with the appropriate stitch selected. As you sew, the needle should move slightly off the fabric at its edge. When you are done sewing, iron the unfolded fabric.
- Use the zigzag presser foot to make butted seams or flat joined seams. Hold the two edges of the fabric flat and top stitch with a wide zigzag stitch.
- Heirloom stitching can be performed using a wing needle and the monogramming presser foot with the appropriate stitch selected.

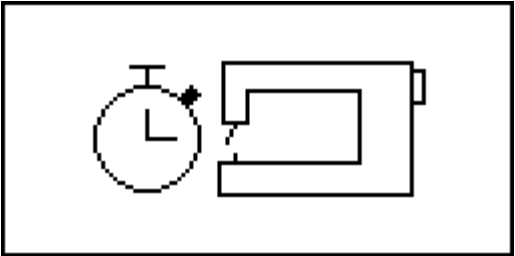
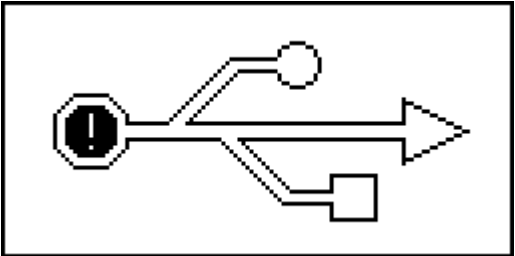
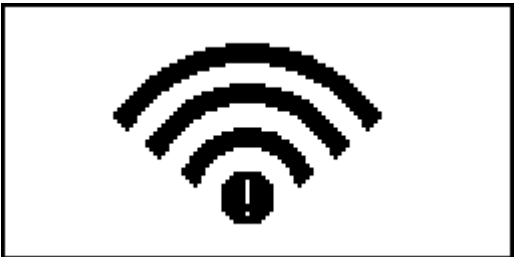
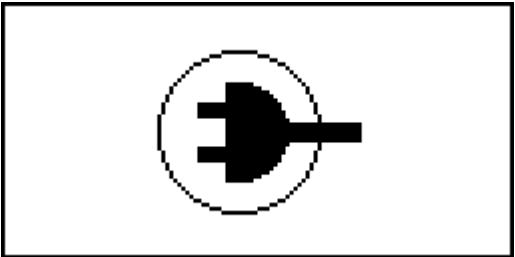
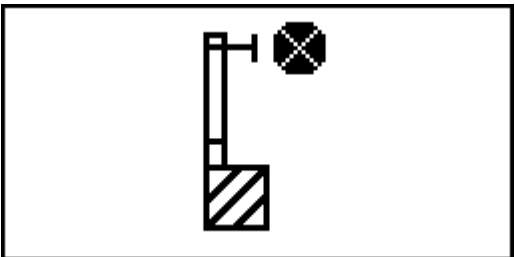
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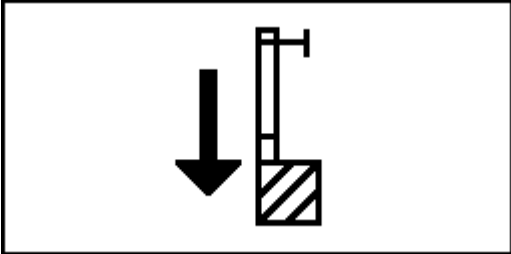
Wing needles, used for decorative stitching, are sold separately wherever sewing accessories are available. When using a wing needle, you cannot use the auto-threading feature of the sewing machine.

TROUBLESHOOTING

Alert Code Icon	Explanation/Proposed Action
	<p>Communication failure: Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>Main motor alert: Make sure the tension is not set too high and that both upper and lower thread can be pulled gently and freely. Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>Stitch width step motor alert: Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>Feed system step motor alert: Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>Main memory storage alert: Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>

Alert Code Icon	Explanation/Proposed Action
	<p>Main current sensor alert: Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>Main shaft motor locked-rotor alert: Make sure the fabric you are sewing is not too thick for the machine to handle. Check for thread jammed on the rotating hook, and make sure the tension dial is holding the thread tightly. Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>Stitch width step motor reset alert: Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>Foot controller alert: This alert may occur if you accidentally press the foot controller while powering up the machine, or if you use an unapproved controller. Always use the approved foot controller included with your machine. Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>Raise foot controller alert: At the conclusion of certain programmed decorative stitches, the machine will stop automatically and prompt you to raise your foot off the controller (pedal).</p>







Alert Code Icon	Explanation/Proposed Action
	<p>Motor reset timeout alert: Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>USB charge alert: Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service. (This may not always be a service issue, however; sometimes the machine simply does not provide enough power to charge your device. In that case, use the charger that came with your device.)</p>
	<p>WiFi circuit board alert: Turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>Power supply alert: Make sure the power supply into which you have plugged your machine is functioning properly. If it is, turn the sewing machine off, wait a few seconds, and turn it on again. If this does not clear the alert, contact customer service.</p>
	<p>One-step buttonhole alert: While sewing a buttonhole, if the machine does not sense the presence of the buttonhole lever arm within a reasonable period of time, the machine will stop sewing and produce this alert message. Make sure that the buttonhole lever arm is fully extended and interacting properly with the buttonhole presser foot. If the alert continues to occur, contact customer service.</p>










Alert Code Icon	Explanation/Proposed Action
 A square icon containing a downward-pointing arrow on the left and a mechanical lever arm on the right. The lever arm is vertical with a horizontal top section and a hatched rectangular base.	<p>Buttonhole lever arm alert: This alert code may occur if you attempt to sew a buttonhole and the machine does not sense the arm is in the correct position to begin sewing. Make sure that the lever arm is fully extended and properly positioned on the buttonhole foot (refer to the Buttonhole Sewing section on page 37). If the alert continues to occur, contact customer service.</p>











APPENDIX: STITCH TABLES











1. Stitches listed in the **Standard Stitches** section are included with your machine. To select the stitch you want to sew, press the **Folder Setting** key.
2. Use the numeric keys to enter the number corresponding to the stitch you want to sew.
3. Press the **OK** key to confirm your entry and begin sewing.











Standard Stitches











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
Straight Stitches											
001		General sewing, seams, zippers, and top stitching	950	Yes	A	3.5	0.0	7.0	2.0	1.0	5.0
002		Simulates hand-basting	950	No	J	3.5	0.0	7.0	-	-	-
Basic Stitches											
003		Stronger than regular straight stitching because it is reinforced three times	600	No	A	3.5	0.0	7.0	2.0	2.0	4.0
004		Simulates hand-sewn quilting	600	No	A	3.5	0.0	7.0	2.0	2.0	4.0
005		The same type of stitch used in the garment industry in making sportswear; it forms and finishes the seam in one step and can be used to repair raw and worn edges of older garments	600	No	A	4.0	3.0	7.0	2.5	1.0	3.0
006		The same type of stitch used in the garment industry in making sportswear; it forms and finishes the seam in one step and can be used to repair raw and worn edges of older garments	600	No	A	4.0	3.0	7.0	2.5	1.0	3.0











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
007		For fine knits, jerseys, neck edges, ribbing	600	No	I	5.0	3.0	7.0	1.5	1.0	3.0
008		Used for hem stitching	600	No	I	5.0	3.0	7.0	1.5	1.0	3.0
009		For fine knits, jerseys, neck edges, ribbing	600	No	I	5.0	3.0	7.0	1.5	1.0	3.0
010		Edging and applique	600	No	I	5.0	3.0	7.0	1.5	1.0	3.0
011		Used to attach flat elastic when making or repairing lingerie; also for overcasting stretch or knit fabrics when strength and flexibility are required	600	No	I	4.0	3.0	7.0	2.0	1.0	3.0
012		Used to attach flat elastic when making or repairing lingerie; also for overcasting stretch or knit fabrics when strength and flexibility are required	600	No	I	4.0	3.0	7.0	2.0	1.0	3.0
013		For fine knits, jerseys, neck edges, ribbing	600	No	I	5.0	3.0	7.0	2.0	1.0	3.0
014		Used for hem stitching table and bed covers with an elegant touch; can also be made on sheet materials, in sweater and swimsuit construction, and to sew along raw edges of fabric while trimming close to the outside of the stitching	600	No	I	5.0	3.0	7.0	2.0	1.0	3.0
015		The same type of stitch used in the garment industry in making sportswear; it forms and finishes the seam in one step and can be used to repair raw and worn edges of older garments	600	No	I	4.0	3.0	7.0	2.5	1.0	3.0










No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
016		Used for overcasting stretch or knit fabrics when strength and flexibility are required	600	No	I	4.5	3.0	7.0	1.5	1.5	2.5
017		Flat-butted seams	600	No	A	5.0	3.0	7.0	1.5	1.5	2.5
018		Joining pieces for fabric and decorative top-stitching	600	No	A	3.0	3.0	7.0	1.5	1.0	3.0
019		Decorative embroidery	600	No	A	5.0	3.0	7.0	1.5	1.0	3.0
020		Sweater and swimsuit construction	600	No	A	5.0	3.0	7.0	1.5	1.0	3.0
021		Used for hem stitching table and bed covers with an elegant touch; can also be made on sheet materials, in sweater and swimsuit construction, and to sew along raw edges of fabric while trimming close to the outside of the stitching	600	No	A	5.0	3.0	7.0	1.5	1.0	3.0
022		Edge to edge joining	600	No	A	5.0	3.0	7.0	1.5	1.0	3.0
023		Borders and decorative stitching	600	No	A	7.0	3.0	7.0	0.5	0.5	1.5
024		Edging and applique	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
025		Top stitching and attaching lace for inset panels when making lingerie	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
026		Decorative stitching and borders	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
027		Decorative stitching	600	No	A	6.5	3.0	7.0	3.5	2.0	3.5
028		Decorative edging for table covers, napkins, etc.	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
029		Decorative stitching	600	No	A	5.5	3.0	7.0	1.5	1.5	3.0
030		Decorative stitching	600	No	A	5.0	3.0	7.0	2.5	1.0	3.0
031		Decorative stitching	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
032		Sewing and finishing stretch fabrics and for decorative borders	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
033		Used for overcasting stretch or knit fabrics when strength and flexibility are required	600	No	A	3.0	3.0	7.0	2.5	1.5	3.0
034		Used for overcasting stretch or knit fabrics when strength and flexibility are required	600	No	I	5.0	3.0	7.0	2.5	1.5	3.0
035		Flexible seams	600	No	A	5.0	3.0	7.0	2.5	1.0	3.0

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
036		Seams and overcasts in one step to produce narrow, supple-seams, and for stretch fabrics in swimwear, sportswear, babywear, and t-shirts	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
037		Decorative stitching	600	No	A	7.0	5.0	7.0	2.0	1.4	3.0
038		Decorative stitching	600	No	A	4.0	3.0	7.0	1.4	1.0	3.0
039		Attaching flat elastic when making or repairing lingerie; also used for couching over narrow ribbon or yarn for drawn thread work	600	No	E	3.0	3.0	7.0	3.5	2.0	3.5
040		Decorative stitching	600	No	A	4.0	3.0	7.0	2.0	1.6	3.0
041		Decorative borders and embroidery (reverse chevron)	600	No	A	3.0	3.0	7.0	1.5	1.0	3.0
042		The same type of stitch used in the garment industry in making sportswear; it forms and finishes the seam in one step and can be used to repair raw and worn edges of older garments	600	No	A	7.0	3.0	7.0	2.0	1.0	3.0
043		Decorative stitching	600	No	A	7.0	4.0	7.0	-	-	-
044		Decorative embroidery	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
045		Ornamental borders	600	No	A	7.0	3.0	7.0	2.0	1.0	3.0

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
046		A quick method of finishing a raw edge and providing a decorative top-stitch in one step	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
047		Ideal for smocking and useful for overcasting and attaching elastic and stretch lace	600	No	A	6.0	5.0	7.0	2.5	1.5	2.5
048		Used to sew and finish stretch fabrics or for decoration, especially on borders	600	No	A	5.0	3.0	7.0	2.0	1.0	2.4
049		Continuous pattern for borders and decorative stitching	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
050		Decorative embroidery	600	No	A	5.5	3.0	7.0	2.0	1.0	3.0
051		Decorative stitching and borders	600	No	I	5.5	3.0	7.0	2.0	1.0	3.0
052		Continuous pattern for borders and decorative stitching	600	No	A	7.0	3.0	7.0	2.0	1.0	3.0
053		Applique, joining patchwork, or forming decorative hems on bed and table linens	600	No	A	5.0	4.0	7.0	2.5	2.0	3.0
054		Used for overcasting stretch or knit fabrics when strength and flexibility are required	600	No	A	5.0	4.0	7.0	3.0	1.4	3.6
055		Makes a straight line or gathers across the fabric that you wish to smock	600	No	I	6.0	3.0	7.0	2.0	1.0	2.8

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
056		Decorative stretch stitching	600	No	A	7.0	3.0	7.0	3.0	2.0	3.0
057		Decorative stitching	600	No	A	4.0	3.0	7.0	2.0	1.0	3.0
058		Top stitching	600	No	A	2.0	2.0	7.0	2.0	2.0	3.0
059		Decorative stitching and borders	600	No	A	5.0	3.0	7.0	3.0	1.0	3.0
060		Machine will sew 4 stitches in forward and then 4 stitches in reverse, then continue to sew forward	600	No	A	3.5	0.0	7.0	2.0	2.0	4.0
061		Sews and finishes elastic materials in one operation	600	No	A	7.0	3.0	7.0	2.0	1.0	3.0
062		Stitch and finish a seam in one step; ideal for edging and applique	600	No	A	4.0	3.0	7.0	2.5	1.0	3.0
063		Decorative stitching	600	No	A	5.0	3.0	7.0	2.0	1.0	3.0
064		Straight stitch with automatic backtrack at start of each seam	600	No	A	3.5	0.0	7.0	2.0	2.0	4.0
065		Utility stitch	600	No	A	3.5	0.0	7.0	2.0	2.0	4.0

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
Buttonhole Stitch											
066		Buttonhole stitch	500	No	B	-	-	-	0.3	0.3	1.0
067		Buttonhole stitch	500	No	B	-	-	-	0.3	0.3	1.0
068		Buttonhole stitch	500	No	B	-	-	-	0.3	0.3	1.0
069		Buttonhole stitch	500	No	B	-	-	-	0.3	0.3	1.0
070		Buttonhole stitch	500	No	B	-	-	-	0.3	0.3	1.0
071		Buttonhole stitch	500	No	B	-	-	-	0.3	0.3	1.0
072		Buttonhole stitch	500	No	B	-	-	-	-	-	-
Darning Stitches											
073		For automatically reinforcing and securing seam ends	500	No	B	-	-	-	-	-	-
074		Automatic darning of holes and other damaged areas	500	No	B	-	-	-	-	-	-

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
Alphabet Stitches											
075	A	Decorative embroidery	350	No	I	-	-	-	-	-	-
076	B	Decorative embroidery	350	No	I	-	-	-	-	-	-
077	C	Decorative embroidery	350	No	I	-	-	-	-	-	-
078	D	Decorative embroidery	350	No	I	-	-	-	-	-	-
079	E	Decorative embroidery	350	No	I	-	-	-	-	-	-
080	F	Decorative embroidery	350	No	I	-	-	-	-	-	-
081	G	Decorative embroidery	350	No	I	-	-	-	-	-	-
082	H	Decorative embroidery	350	No	I	-	-	-	-	-	-
083	I	Decorative embroidery	350	No	I	-	-	-	-	-	-
084	J	Decorative embroidery	350	No	I	-	-	-	-	-	-

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
085	K	Decorative embroidery	350	No	I	-	-	-	-	-	-
086	L	Decorative embroidery	350	No	I	-	-	-	-	-	-
087	M	Decorative embroidery	350	No	I	-	-	-	-	-	-
088	N	Decorative embroidery	350	No	I	-	-	-	-	-	-
089	O	Decorative embroidery	350	No	I	-	-	-	-	-	-
090	P	Decorative embroidery	350	No	I	-	-	-	-	-	-
091	Q	Decorative embroidery	350	No	I	-	-	-	-	-	-
092	R	Decorative embroidery	350	No	I	-	-	-	-	-	-
093	S	Decorative embroidery	350	No	I	-	-	-	-	-	-
094	T	Decorative embroidery	350	No	I	-	-	-	-	-	-

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
095	U	Decorative embroidery	350	No	I	-	-	-	-	-	-
096	V	Decorative embroidery	350	No	I	-	-	-	-	-	-
097	W	Decorative embroidery	350	No	I	-	-	-	-	-	-
098	X	Decorative embroidery	350	No	I	-	-	-	-	-	-
099	Y	Decorative embroidery	350	No	I	-	-	-	-	-	-
100	Z	Decorative embroidery	350	No	I	-	-	-	-	-	-
101	A	Decorative embroidery	350	No	I	-	-	-	-	-	-
102	B	Decorative embroidery	350	No	I	-	-	-	-	-	-
103	C	Decorative embroidery	350	No	I	-	-	-	-	-	-
104	D	Decorative embroidery	350	No	I	-	-	-	-	-	-

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
105	E	Decorative embroidery	350	No	I	-	-	-	-	-	-
106	F	Decorative embroidery	350	No	I	-	-	-	-	-	-
107	G	Decorative embroidery	350	No	I	-	-	-	-	-	-
108	H	Decorative embroidery	350	No	I	-	-	-	-	-	-
109	I	Decorative embroidery	350	No	I	-	-	-	-	-	-
110	J	Decorative embroidery	350	No	I	-	-	-	-	-	-
111	K	Decorative embroidery	350	No	I	-	-	-	-	-	-
112	L	Decorative embroidery	350	No	I	-	-	-	-	-	-
113	M	Decorative embroidery	350	No	I	-	-	-	-	-	-
114	N	Decorative embroidery	350	No	I	-	-	-	-	-	-

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
115	O	Decorative embroidery	350	No	I	-	-	-	-	-	-
116	P	Decorative embroidery	350	No	I	-	-	-	-	-	-
117	Q	Decorative embroidery	350	No	I	-	-	-	-	-	-
118	R	Decorative embroidery	350	No	I	-	-	-	-	-	-
119	S	Decorative embroidery	350	No	I	-	-	-	-	-	-
120	T	Decorative embroidery	350	No	I	-	-	-	-	-	-
121	U	Decorative embroidery	350	No	I	-	-	-	-	-	-
122	V	Decorative embroidery	350	No	I	-	-	-	-	-	-
123	W	Decorative embroidery	350	No	I	-	-	-	-	-	-
124	X	Decorative embroidery	350	No	I	-	-	-	-	-	-



No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
125	Y	Decorative embroidery	350	No	I	-	-	-	-	-	-
126	Z	Decorative embroidery	350	No	I	-	-	-	-	-	-
127	A	Decorative embroidery	350	No	I	-	-	-	-	-	-
128	B	Decorative embroidery	350	No	I	-	-	-	-	-	-
129	C	Decorative embroidery	350	No	I	-	-	-	-	-	-
130	D	Decorative embroidery	350	No	I	-	-	-	-	-	-
131	E	Decorative embroidery	350	No	I	-	-	-	-	-	-
132	F	Decorative embroidery	350	No	I	-	-	-	-	-	-
133	G	Decorative embroidery	350	No	I	-	-	-	-	-	-
134	H	Decorative embroidery	350	No	I	-	-	-	-	-	-











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
135	I	Decorative embroidery	350	No	I	-	-	-	-	-	-
136	J	Decorative embroidery	350	No	I	-	-	-	-	-	-
137	K	Decorative embroidery	350	No	I	-	-	-	-	-	-
138	L	Decorative embroidery	350	No	I	-	-	-	-	-	-
139	M	Decorative embroidery	350	No	I	-	-	-	-	-	-
140	N	Decorative embroidery	350	No	I	-	-	-	-	-	-
141	O	Decorative embroidery	350	No	I	-	-	-	-	-	-
142	P	Decorative embroidery	350	No	I	-	-	-	-	-	-
143	Q	Decorative embroidery	350	No	I	-	-	-	-	-	-
144	R	Decorative embroidery	350	No	I	-	-	-	-	-	-











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
145	S	Decorative embroidery	350	No	I	-	-	-	-	-	-
146	T	Decorative embroidery	350	No	I	-	-	-	-	-	-
147	U	Decorative embroidery	350	No	I	-	-	-	-	-	-
148	V	Decorative embroidery	350	No	I	-	-	-	-	-	-
149	W	Decorative embroidery	350	No	I	-	-	-	-	-	-
150	X	Decorative embroidery	350	No	I	-	-	-	-	-	-
151	Y	Decorative embroidery	350	No	I	-	-	-	-	-	-
152	Z	Decorative embroidery	350	No	I	-	-	-	-	-	-
Number Stitches											
153	0	Decorative embroidery	350	No	I	-	-	-	-	-	-
154	1	Decorative embroidery	350	No	I	-	-	-	-	-	-











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
155	2	Decorative embroidery	350	No	I	-	-	-	-	-	-
156	3	Decorative embroidery	350	No	I	-	-	-	-	-	-
157	4	Decorative embroidery	350	No	I	-	-	-	-	-	-
158	5	Decorative embroidery	350	No	I	-	-	-	-	-	-
159	6	Decorative embroidery	350	No	I	-	-	-	-	-	-
160	7	Decorative embroidery	350	No	I	-	-	-	-	-	-
161	8	Decorative embroidery	350	No	I	-	-	-	-	-	-
162	9	Decorative embroidery	350	No	I	-	-	-	-	-	-
163	0	Decorative embroidery	350	No	I	-	-	-	-	-	-
164	1	Decorative embroidery	350	No	I	-	-	-	-	-	-











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
165	2	Decorative embroidery	350	No	I	-	-	-	-	-	-
166	3	Decorative embroidery	350	No	I	-	-	-	-	-	-
167	4	Decorative embroidery	350	No	I	-	-	-	-	-	-
168	5	Decorative embroidery	350	No	I	-	-	-	-	-	-
169	6	Decorative embroidery	350	No	I	-	-	-	-	-	-
170	7	Decorative embroidery	350	No	I	-	-	-	-	-	-
171	8	Decorative embroidery	350	No	I	-	-	-	-	-	-
172	9	Decorative embroidery	350	No	I	-	-	-	-	-	-
173	0	Decorative embroidery	350	No	I	-	-	-	-	-	-
174	1	Decorative embroidery	350	No	I	-	-	-	-	-	-











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
175	2	Decorative embroidery	350	No	I	-	-	-	-	-	-
176	3	Decorative embroidery	350	No	I	-	-	-	-	-	-
177	4	Decorative embroidery	350	No	I	-	-	-	-	-	-
178	5	Decorative embroidery	350	No	I	-	-	-	-	-	-
179	6	Decorative embroidery	350	No	I	-	-	-	-	-	-
180	7	Decorative embroidery	350	No	I	-	-	-	-	-	-
181	8	Decorative embroidery	350	No	I	-	-	-	-	-	-
182	9	Decorative embroidery	350	No	I	-	-	-	-	-	-
Thick Sewing Stitches											
183		Decorative stitching	600	No	I	5.5	3.0	7.0	0.5	0.4	1.0
184		Decorative stitching	600	No	I	5.5	3.0	7.0	0.5	0.4	1.0










No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
185		Borders and decorative stitching	600	No	I	4.0	3.0	7.0	0.5	0.4	1.0
186		Borders and decorative stitching	600	No	I	4.0	3.0	7.0	0.5	0.4	1.0
187		Decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
188		Border and decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
189		Decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
190		Decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
191		Decorative stitching	600	No	I	7.0	4.0	7.0	0.5	0.4	1.0
192		Decorative stitching	600	No	I	7.0	4.0	7.0	0.5	0.4	1.0
193		Decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
194		Borders and decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
195		Decorative stitching	600	No	I	4.0	3.0	7.0	0.5	0.4	1.0
196		Decorative stitching	600	No	I	5.0	3.0	7.0	0.5	0.4	1.0
197		Decorative stitching	600	No	I	4.0	3.0	7.0	0.5	0.4	1.0
198		Decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
199		A strong stitch for overcasting, mending tears, patching, sewing toweling, patchwork, bar-tacking, and attaching flat elastic joins; reinforces without bulk and can make multiple short stitches where the normal zig-zag makes only one	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
200		Decorative stitching	600	No	I	7.0	4.0	7.0	0.5	0.4	1.0
201		Decorative stitching	600	No	I	4.0	3.0	7.0	2.0	1.6	2.6
202		Borders and decorative stitching	600	No	I	7.0	4.0	7.0	0.5	0.4	1.0
203		Decorative stitching and borders	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
204		Borders and decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
205		Decorative stitching	600	No	I	4.0	3.0	7.0	0.5	0.4	1.0
206		Decorative stitching	600	No	I	4.0	3.0	7.0	0.5	0.4	1.0
207		Decorative borders, edges, smocking	600	No	I	4.0	3.0	7.0	0.5	0.4	1.0
208		Borders and decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
209		Continuous pattern for borders and decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
210		Secure finish to seams, pleats, and pockets; decorative borders	600	No	I	6.0	3.0	7.0	0.6	0.4	1.0
211		Decorative stitching	600	No	I	7.0	3.0	7.0	0.8	0.6	1.0
212		Decorative stitching	600	No	I	7.0	3.0	7.0	0.5	0.4	1.0
Zigzag Stitches											
213		Overcasting on stretch or knit fabric	650	No	I	3.0	3.0	7.0	1.6	1.0	2.6
214		Sewing hems on woven fabric	650	No	C	3.0	3.0	7.0	1.6	1.0	2.6











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
215		Sewing hems for soft, stretchable fabrics	650	No	C	7.0	3.0	7.0	1.6	1.0	2.6
216		Seams in stretch and knit fabrics	650	No	I	7.0	3.0	7.0	1.6	1.0	2.6
217		Decorative embroidery	650	No	A	7.0	3.0	7.0	1.5	1.0	2.6
218		Decorative hem	650	No	A	3.0	3.0	7.0	1.2	1.0	2.6
219		A strong stitch for overcasting, mending tears, patching, sewing toweling, patchwork, bar-tacking, and attaching flat elastic joins; reinforces without bulk and can make multiple short stitches where the normal zig-zag makes only one	650	No	A	4.5	3.0	7.0	1.0	1.0	2.6
220		Decorative stitching	650	No	A	5.0	3.0	7.0	1.0	1.0	2.6
221		Decorative stitching	650	No	A	5.0	3.0	7.0	2.0	1.0	2.6
222		A strong stitch for mending knit fabrics; makes multiple short stitches where the normal zig-zag makes only one	650	No	A	5.0	3.0	7.0	1.2	1.0	2.6
223		Decorative stitching	650	No	A	7.0	3.0	7.0	1.6	1.0	2.6
224		Larger size shell pattern for seaming and overcasting sheer, soft fabrics in one step; produces a delicate shell hem on lingerie and other fine garments	650	No	A	7.0	3.0	7.0	2.0	1.0	2.6











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
225		Ideal for producing flat seams and decorative borders	650	No	A	5.0	3.0	7.0	1.6	1.0	2.6
226		Stretch sewing, buttonhole stitches, buttons, trimmed seam finish, bar tacks, applique, free motion embroider, satin stitching, and monogramming	650	No	A	3.0	3.0	7.0	2.0	0.5	5.0
227		Overcasting seams and mending lightweight and medium fabrics	650	No	A	5.0	3.0	7.0	1.6	1.0	2.6
228		Overcasting seams, mending heavy fabrics	650	No	A	7.0	3.0	7.0	2.0	1.0	2.6
229		Elastic seams in heavy knit fabrics, decorative embroidery	650	No	A	7.0	3.0	7.0	2.0	1.0	2.6
230		Borders and decorative stitching	650	No	I	7.0	4.0	7.0	2.6	1.6	2.6
231		Borders and decorative stitching	650	No	I	7.0	4.0	7.0	2.6	1.6	2.6
232		Borders and decorative stitching	650	No	A	6.0	4.0	7.0	2.6	1.6	2.6
233		Decorative edging and trim	650	No	A	6.0	4.0	7.0	2.6	1.6	2.6
234		Decorative embroidery	650	No	A	5.5	3.0	7.0	1.0	1.0	2.6











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
235		Decorative stitching	650	No	A	5.0	3.0	7.0	2.6	1.6	2.6
236		Inserting patches and decorative embroidery	650	No	A	7.0	3.0	7.0	1.2	1.0	2.6
237		Decorative stitching and borders	650	No	A	5.0	3.0	7.0	2.0	1.0	2.6
238		A strong stitch for overcasting; makes multiple short stitches where the normal zig-zag makes only one	650	No	A	7.0	3.0	7.0	1.6	1.0	2.6
239		A strong stitch for overcasting, mending tears, patching, sewing toweling, patchwork, bar-tacking, and attaching flat elastic joins; reinforces without bulk and can make multiple short stitches where the normal zig-zag makes only one	650	No	A	7.0	3.0	7.0	1.6	1.0	2.6
240		Decorative stitching and borders	650	No	A	7.0	3.0	7.0	1.6	1.0	2.6
241		Continuous pattern for borders and decorative stitching	650	No	A	7.0	3.0	7.0	2.0	1.0	2.6
242		Decorative stitching	650	No	A	7.0	3.0	7.0	2.4	1.6	2.6
Twin-Needle Stitches											
243		Attaching ribbons, lace, and elastic	500	Yes	A	4.0	3.0	7.0	2.0	1.6	3.0











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
244		Used for elastic seams in heavy knit fabric	500	Yes	A	3.0	3.0	7.0	1.0	1.0	2.0
245		Decorative stitching	500	Yes	A	4.0	3.0	7.0	1.0	1.0	2.6
246		Stretch sewing, repairing buttonhole stitches, hemming ruffles and scarves	500	Yes	A	3.0	3.0	7.0	2.5	1.6	3.0
247		Attaching ribbons, lace, and elastic	500	Yes	A	4.0	3.0	7.0	2.0	1.6	3.0
248		Decorative stitching	500	Yes	A	4.0	3.0	7.0	1.0	1.0	2.6
249		Decorative stitch used in sleeves, fronts of blouses and dresses, attaching two separate pieces of fabric together leaving a small space in between	500	Yes	A	4.0	3.0	7.0	1.0	1.0	2.6
250		Decorative stitch used in sleeves, fronts of blouses and dresses, attaching two separate pieces of fabric together leaving a small space in between	500	Yes	A	5.0	4.0	6.0	2.0	1.6	3.0
251		Blind hemming on knits	500	Yes	A	4.0	3.0	7.0	1.0	1.0	2.6
252		Decorative stitching	500	Yes	A	4.0	3.0	7.0	1.0	1.0	2.6
253		Zig-zag basting stitch	500	Yes	A	3.0	3.0	7.0	1.0	1.0	2.6











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
254		Decorative stitching	500	Yes	A	7.0	3.0	7.0	1.0	1.0	2.6
255		Decorative stitching	500	Yes	A	3.0	3.0	7.0	1.6	1.0	2.6
Lace-Sewing Stitches											
256		Continuous pattern for borders and decorative stitching	500	No	I	6.0	3.0	7.0	2.0	1.2	2.0
257		Continuous pattern for borders and decorative stitching	500	No	I	6.0	3.0	7.0	2.0	1.2	2.0
258		Continuous pattern for borders and decorative stitching	500	No	I	7.0	3.0	7.0	2.5	1.0	2.6
259		Continuous pattern for borders and decorative stitching	500	No	I	7.0	3.0	7.0	2.5	1.0	2.6
260		Novelty pattern for borders and decorative stitching	500	No	I	7.0	3.0	7.0	2.0	1.0	2.0
261		Novelty pattern for borders and decorative stitching	500	No	I	7.0	3.0	7.0	2.0	1.0	2.0
262		Continuous pattern for borders and decorative stitching	500	No	I	6.0	3.0	7.0	2.0	1.0	2.6
263		Continuous pattern for borders and decorative stitching	500	No	I	6.0	3.0	7.0	2.0	1.0	2.6











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
264		Continuous pattern for borders and decorative stitching	500	No	I	7.0	4.0	7.0	3.5	3.5	4.0
265		Decorative stitching and borders	500	No	I	6.0	3.0	7.0	2.0	1.0	2.6
266		Decorative stitching and borders	500	No	I	6.0	4.0	7.0	2.0	1.0	2.6
267		Novelty pattern for borders and decorative stitching	500	No	I	7.0	3.0	7.0	2.0	1.0	2.0
268		Continuous pattern for borders and decorative stitching	500	No	I	7.0	4.0	7.0	2.0	1.4	2.6
269		Decorative stitching and borders	500	No	I	7.0	3.0	7.0	2.0	1.0	2.6
270		Decorative stitching and borders	500	No	I	7.0	3.0	7.0	2.0	2.0	2.6
271		Decorative stitching	500	No	I	7.0	3.0	7.0	2.0	1.0	2.6
272		Continuous pattern for borders and decorative stitching	500	No	I	7.0	5.0	7.0	2.5	2.0	3.0
273		Decorative stitching and borders	500	No	I	7.0	3.0	7.0	2.5	2.0	3.0











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
274		Continuous pattern for borders and decorative stitching	500	No	I	7.0	4.0	7.0	2.0	2.0	3.0
275		Decorative stitching	500	No	I	7.0	3.0	7.0	2.5	2.0	3.0
276		Decorative stitching	500	No	I	7.0	3.0	7.0	2.5	1.0	2.6
277		Decorative stitching and borders	500	No	I	7.0	3.0	7.0	2.0	1.0	2.6
278		Continuous pattern for borders and decorative stitching	500	No	I	7.0	3.0	7.0	1.7	1.0	2.6
279		Attaches button to garment	300	No	D	3.0	2.0	6.0	-	-	-
Decorative Sewing Stitches											
280		Borders and decorative stitching	500	No	I	7.0	4.0	7.0	2.0	1.0	3.0
281		Decorative stitching	500	No	I	7.0	4.0	7.0	2.0	1.0	3.0
282		Borders and decorative stitching	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
283		Borders and decorative stitching	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
284		Decorative stitching and borders	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
285		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
286		Traditional stitch pattern used for picot-like edges and for applique work	500	No	A	7.0	4.0	7.0	2.0	1.0	3.0
287		Traditional stitch pattern used for picot-like edges and for applique work	500	No	G	7.0	4.0	7.0	2.0	1.0	3.0
288		Traditionally a hand embroidery stitch used to put bindings on blankets; used for attaching fringe, edges, couching, applique, and drawn thread hem stitching	500	No	G	7.0	4.0	7.0	2.0	1.0	3.0
289		Traditionally a hand embroidery stitch used to put bindings on blankets; used for attaching fringe, edges, couching, applique, and drawn thread hem stitching	500	No	A	7.0	4.0	7.0	2.0	1.0	3.0
290		Decorative stitching	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
291		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
292		Decorative stitching	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
293		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.8	0.8	1.0








No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
294		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
295		Decorative stitching	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
296		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
297		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
298		Decorative stitching	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
299		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
300		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.5	0.5	1.0
301		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
302		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
303		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
304		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.6	0.5	1.0
305		Decorative embroidery	500	No	I	7.0	4.0	7.0	0.8	0.8	1.6
306		For decorative seams or topstitching on stretch fabrics	500	No	A	7.0	4.0	7.0	0.6	0.5	0.8
307		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	3.0
308		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.6	1.6	2.6
309		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.4	1.0	1.6
310		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
311		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.0	2.6
312		Decorative embroidery	500	No	I	7.0	4.0	7.0	3.0	1.6	3.0
313		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
314		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.5	1.5	2.6
315		Used for elastic materials	500	No	A	7.0	4.0	7.0	2.0	1.6	2.6
316		Decorative stitching	500	No	I	7.0	4.0	7.0	2.5	1.6	2.5
317		Continuous pattern for borders and decorative stitching	500	No	I	7.0	4.0	7.0	1.8	1.6	2.6
318		Decorative stitching	500	No	I	7.0	4.0	7.0	1.4	1.4	2.6
319		Used for decorative embroidery in heirloom sewing	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
320		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.4	1.4	2.6
321		Decorative embroidery	500	No	A	6.0	4.0	7.0	1.0	1.0	2.0
322		Decorative stitching	500	No	A	7.0	4.0	7.0	2.0	1.6	2.6
323		Decorative stitching	500	No	I	7.0	4.0	7.0	1.5	1.5	2.6

No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
324		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
325		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
326		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.6	1.6	2.6
327		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.0	1.0	2.0
328		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
329		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
330		Decorative embroidery	500	No	I	6.5	4.0	7.0	2.0	1.6	2.6
331		Decorative stitching	500	No	I	5.0	4.0	7.0	2.5	1.6	2.6
332		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.0	1.0	2.0
333		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.0	1.0	2.0









No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
334		Decorative stitching	500	No	I	7.0	4.0	7.0	4.0	2.0	4.0
335		Sews and finishes fine, stretchy fabrics in one step	500	No	I	6.0	4.0	7.0	1.5	1.5	2.6
336		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
337		Novelty pattern for borders and decorative stitching	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
338		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
339		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
340		Decorative stitching	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
341		Decorative stitch often used in heirloom sewing	500	No	I	6.0	4.0	7.0	2.0	1.6	2.6
342		Decorative embroidery	500	No	I	7.0	5.0	7.0	2.0	1.8	2.6
343		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.6	1.0	2.0











No.	Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
						Default	Min	Max	Default	Min	Max
344		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
345		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
346		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.0	1.0	2.0
347		Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
348		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.2	1.0	2.0
349		Decorative embroidery	500	No	I	7.0	4.0	7.0	1.5	1.5	2.6
350		Decorative embroidery	500	No	I	-	-	-	-	-	-












Premium Stitches



The stitches listed here are available for purchase and download through the Spiegel sewing app. To download the Spiegel sewing app in order to purchase premium stitches for use with your Model 60609 sewing machine, visit our website, www.SpiegelSewing.com. At our website (accessible through the QR code) you may also access video tutorials that will help you get the most out of your machine.

Premium Stitch	Stitch Use	Max Speed	Twin-Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
					Default	Min	Max	Default	Min	Max
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Novelty pattern for borders and decorative stitching	500	No	I	-	-	-	-	-	-
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Novelty pattern for borders and decorative stitching	500	No	I	-	-	-	-	-	-

Premium Stitch	Stitch Use	Max Speed	Twin- Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
					Default	Min	Max	Default	Min	Max
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Decorative embroidery	500	No	I	-	-	-	-	-	-
	Used in heirloom sewing for decorative trim and hems	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
	Used in heirloom sewing	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
	Decorative stitching	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
	Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
	Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
	Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6

Premium Stitch	Stitch Use	Max Speed	Twin- Needle	Presser Foot Code	Stitch Width (mm)			Stitch Length (mm)		
					Default	Min	Max	Default	Min	Max
	Decorative embroidery	500	No	I	7.0	5.0	7.0	-	-	-
	Decorative embroidery	500	No	I	7.0	4.0	7.0	-	-	-
	Decorative embroidery	500	No	I	7.0	4.0	7.0	-	-	-
	Decorative embroidery	500	No	I	7.0	4.0	7.0	-	-	-
	Decorative embroidery	500	No	I	7.0	5.5	7.0	-	-	-
	Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
	Often used in heirloom sewing for decorative trim	500	No	I	7.0	5.0	7.0	3.0	1.8	3.0
	Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
	Decorative embroidery	500	No	I	7.0	5.0	7.0	1.5	1.5	2.6
	Decorative embroidery	500	No	I	7.0	4.0	7.0	2.0	1.6	2.6
	Often used in heirloom sewing for decorative trim	500	No	I	7.0	4.0	7.0	2.6	1.6	3.0

*Limited
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