

**SINGER®**

## Chapter 7: Four-Thread Ultra-Stretch Mock Safety Stitch

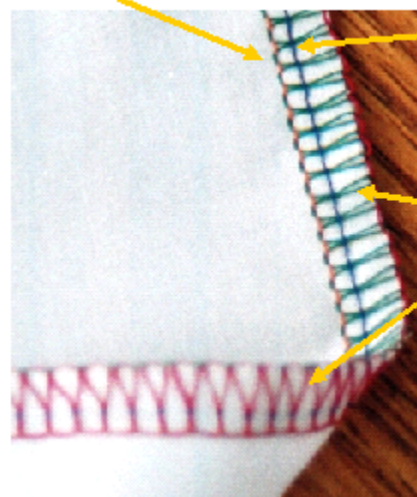


## Four-Thread Ultra-Stretch Mock Safety Stitch

The Four-Thread Ultra-Stretch Mock Safety Stitch is stronger than the Three-Thread Ultra-Stretch Mock Safety Stitch. The additional thread provides added strength to the seam and is good choice for knits as well as wovens. This stitch works well when applying ribbing to a garment. Ribbing is often seen on cuffs, collars and waistbands of active wear. This stitch requires two needle threads and two looper threads.



Left Overedge Needle Thread



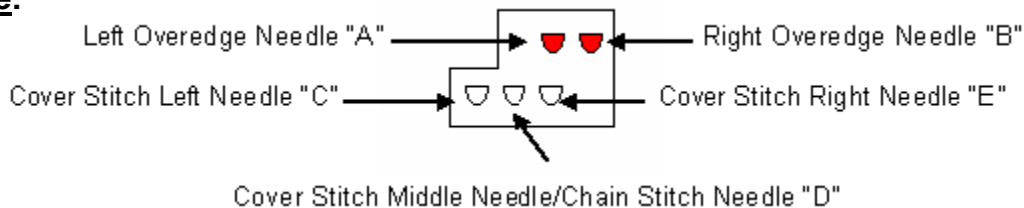
Right Overedge Needle Thread

Upper Looper Thread

Lower Looper Thread

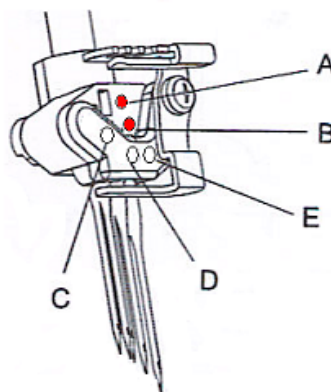
## SET UP:

### Needle:



### Set at:

ATD: Auto Tension Dial	"A"
Left Cover Stitch Needle "C"	Not Threaded
Middle Cover Stitch Needle "D"	Not Threaded
Right Cover Stitch Needle "E"	Not Threaded
Overedge Left Needle "A" (Orange)	Threaded
Overedge Right Needle "B" (Blue)	Threaded
Upper Loper (Green)	Looper Engaged and Threaded
Spreader	Disengaged
Lower Loper (Red)	Threaded
Chain Stitch Loper (Brown)	Not Threaded
Upper Loper Clutch	"L"
Upper Knife	Engaged
Seam Guide Plate	Not Installed Use Knife Guide
Seam Width Dial	"N"
Stitch Length Dial	"N"
Presser Foot Pressure	"N"
Differential Feed Dial	"N"
Stitch Finger	"N"



Sweatshirt sample



# SINGER®

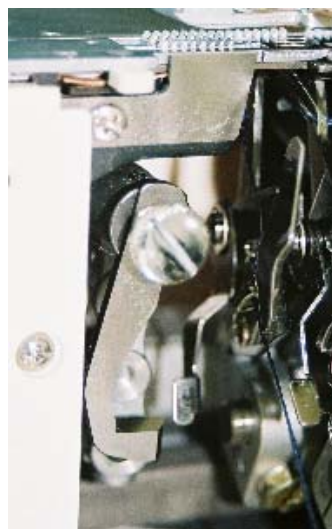
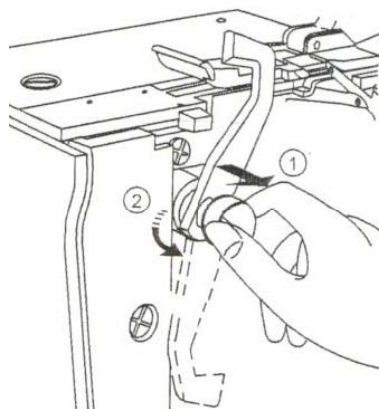
- ◆ Turn Auto Tension Dial to “A”.

- ◆ Turn Stitch Length Dial to “N”.

- ◆ Engage Upper Knife.

The knife will not trim the fabric when it is disengaged.

1. Open Looper Cover.
2. Pull the movable knife holder (silver screw) to the right as far as it will go.
3. Turn the holder clockwise until the knife clicks into a lock position.



Upper Knife Disengaged



Upper Knife Engaged

- ◆ Turn Presser Foot Pressure Dial to “N”.



- ◆ Turn Differential Feed Dial to “N”.



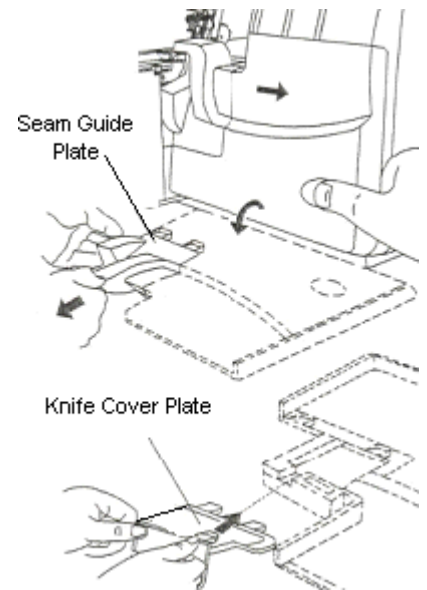
- ◆ Turn Seam Width Dial to “N”.



- ◆ Set Stitch Finger to “N”.

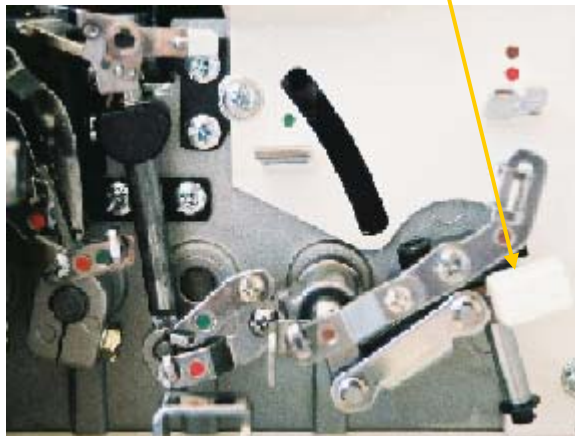
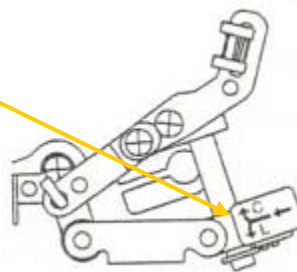


◆ Install the Knife Cover.

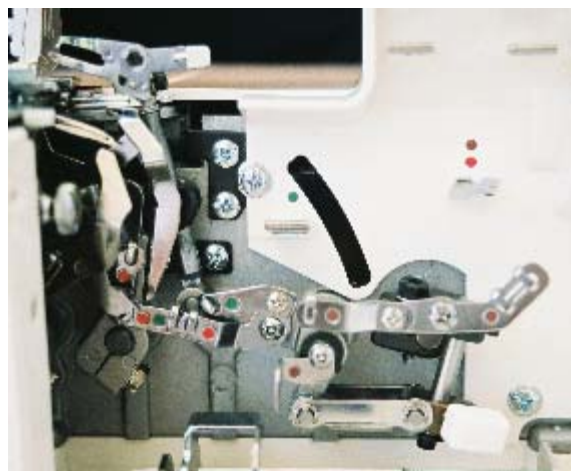


◆ Engage Upper Looper. Engaging the Upper Looper causes the looper to move when sewing. Even though the Upper Looper is not threaded, it needs to be engaged.

1. Push the clutch button to the left and down to engage.
2. Turn handwheel.

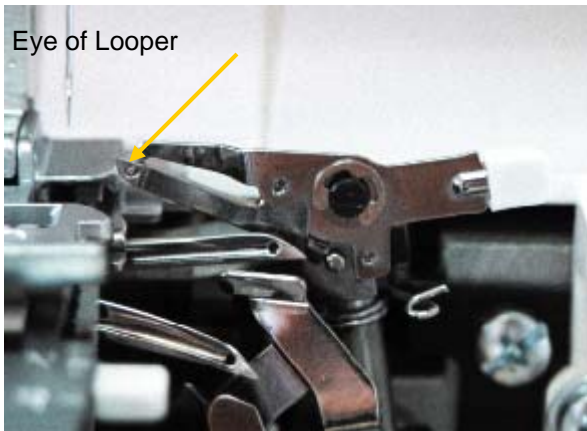


Upper Looper Disengaged



Upper Looper Engaged

- ◆ Disengage Spreader. The Upper Looter has a hole for the thread on the top of the looper. If the stitch requires that the looper be engaged but not threaded then the Spreader is used. The Spreader simply plugs-in (or closes) the looper's hole. The Spreader is disengaged when the Upper Looter is engaged/operative and threaded. The Spreader is used with a stitch that requires only one looper thread. With the help of the Spreader the single looper thread wraps around the fabric's edge.
  1. Lower the white handle on the Spreader to open the eye of the Upper Looter.

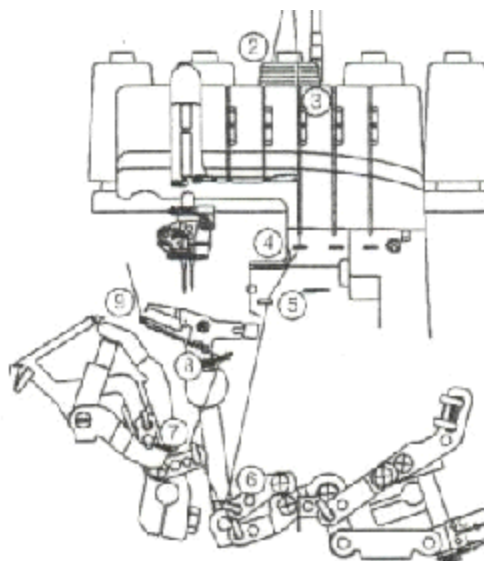
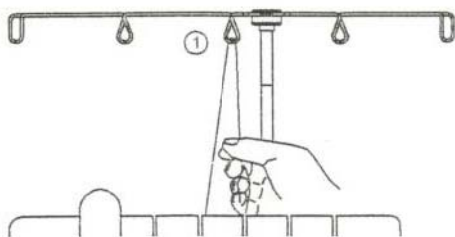


Spreader Engaged



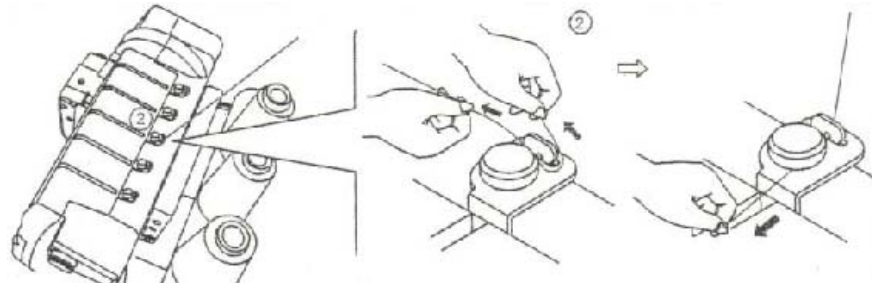
Spreader Disengaged

- ◆ Thread Upper Looter with regular overlock thread.
  1. Raise the Presser Foot to release the tension disks. Thread the Lower Looter as illustrated 1-9.
  2. Pass thread from back to the front through the thread guide ①.

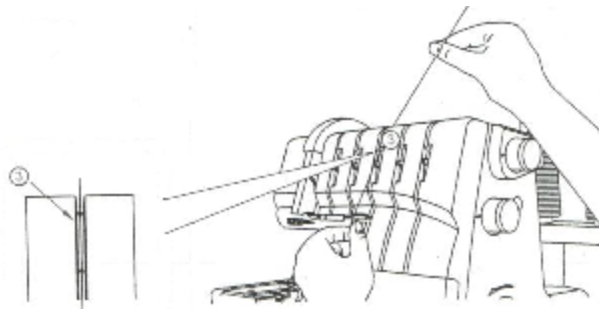




3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.

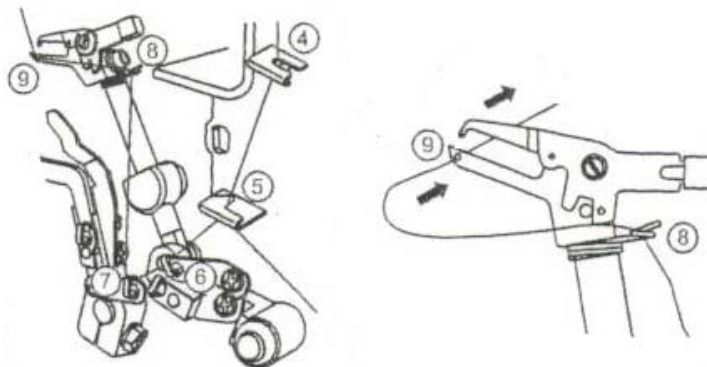


4. While holding the thread firmly, pull the thread between the tension disks.

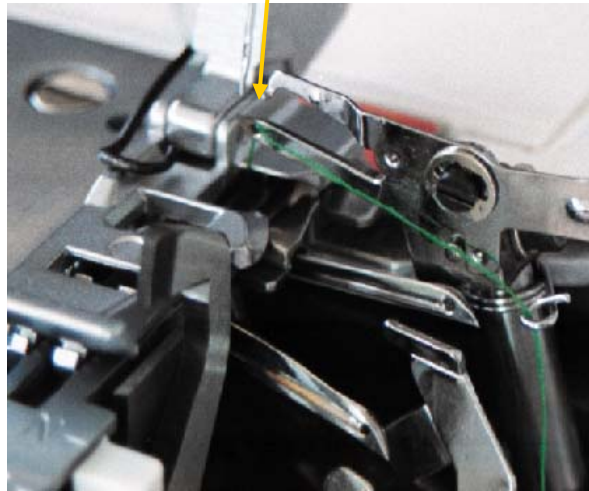


5. Turn the handwheel toward you until the lower looper extends 5-10mm (approximately 1/2 inch) from the needle plate edge.

6. Thread the looper area of the machine following the green color coded thread guides 4-9.

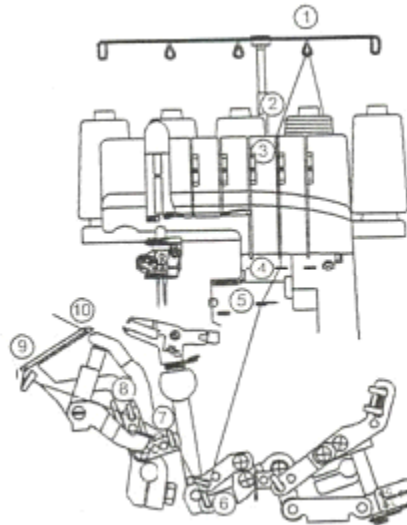
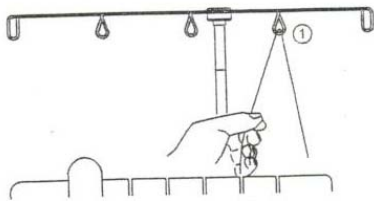


7. Thread the hole in the Upper Looter from front to back ⑨. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

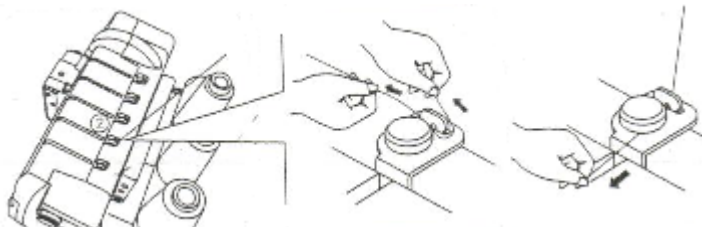


◆ Thread Lower Looter with regular overlock thread.

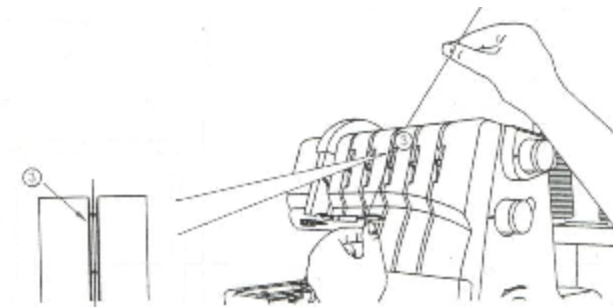
1. Raise the Presser Foot to release the Tension disks. Thread the Lower Looter as illustrated 1-10.
2. Pass thread from back to the front through the thread guide ①.



3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.

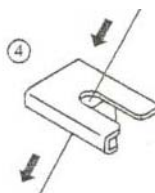


4. While holding the thread, firmly pull the thread between the tension disks.



5. Turn the handwheel toward you until the lower looper extends 5-10mm (approximately ½ inch) from the needle plate edge.
6. Thread the looper area of the machine following the red color coded thread guides 4-10.

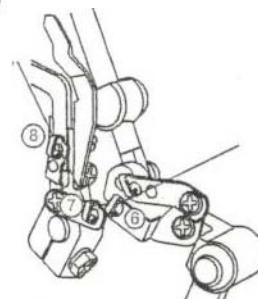
7. Place the thread slightly from left and to the right of threading guide ④.



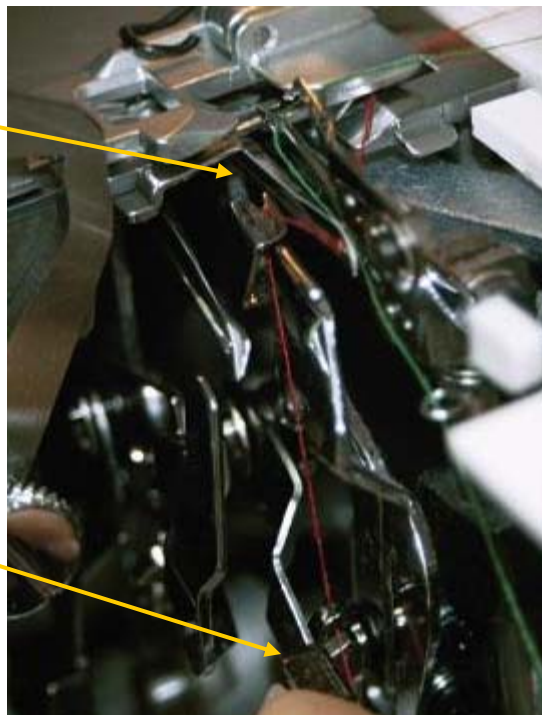
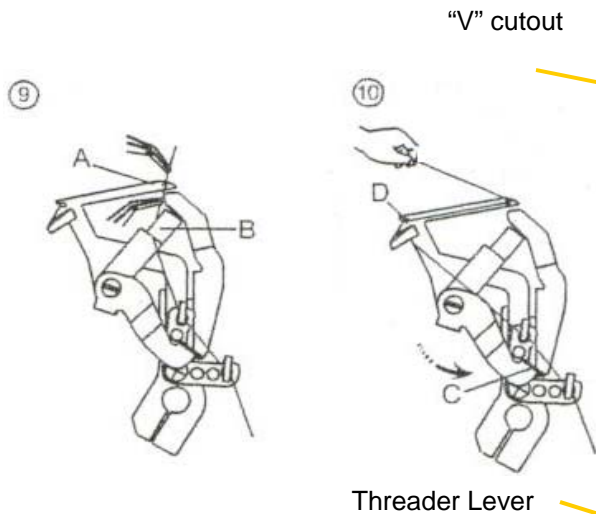
8. Place the thread slightly from the front and to the back of threading guide ⑤.



9. Place the thread through ⑥, ⑦, and ⑧.



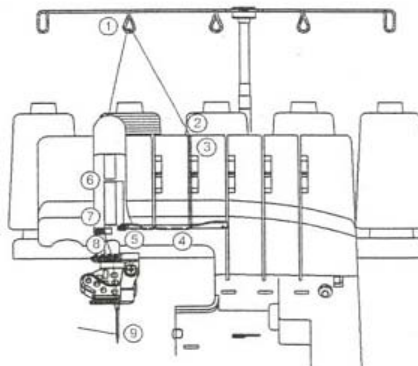
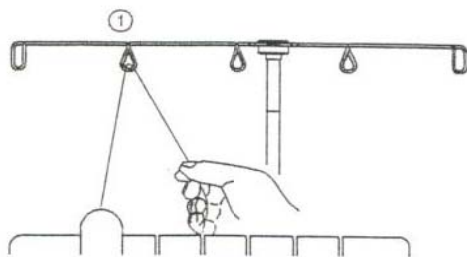
10. Thread the looper eye (A) from front to back. Pull about 4 inches of thread. Position thread into V cutout (B) on threader. Firmly hold thread tail with left hand and pull Threader lever (C) up into place (D).



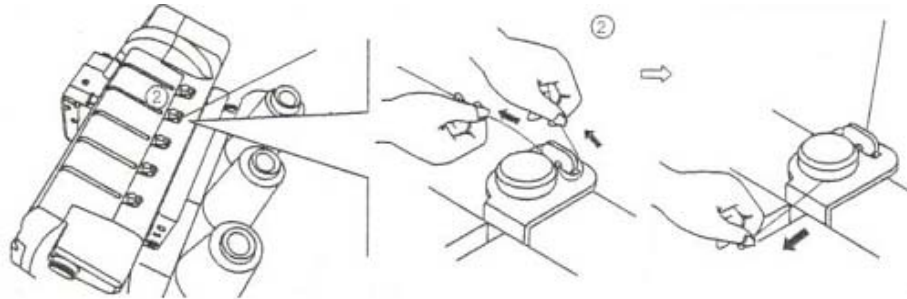
NOTE: Make sure the Upper Looper thread is behind the Lower Looper thread.

◆ Thread Right Overedge needle with regular overlock thread.

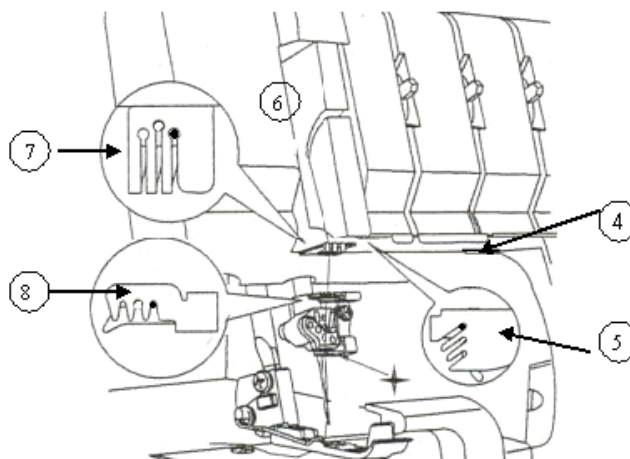
1. Raise the Presser Foot to release the tension disks. Thread the right needle as illustrated 1-9.
2. Pass thread from back to the front through the thread guide ①.



3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.

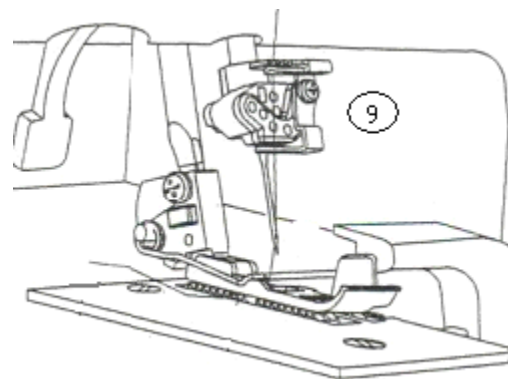


4. Continue to thread points 4-8. Slip the thread into the rear slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the right slot of the thread guides ⑦ and ⑧.



5. Before threading the eye of the needle, make sure the thread is behind the thread guide located on the bottom of the needle clamp.

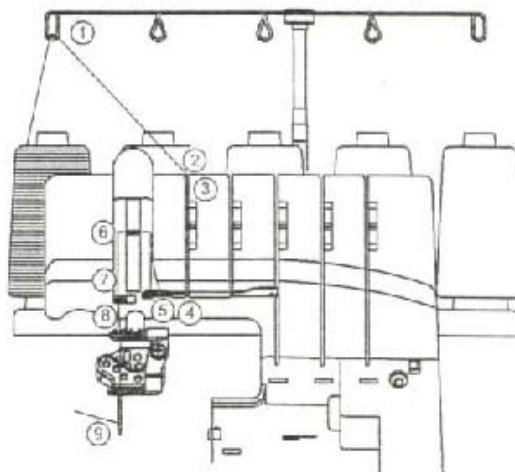
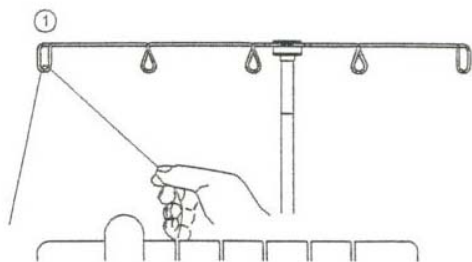
6. Thread the eye of the Overedge Right Needle ⑨.



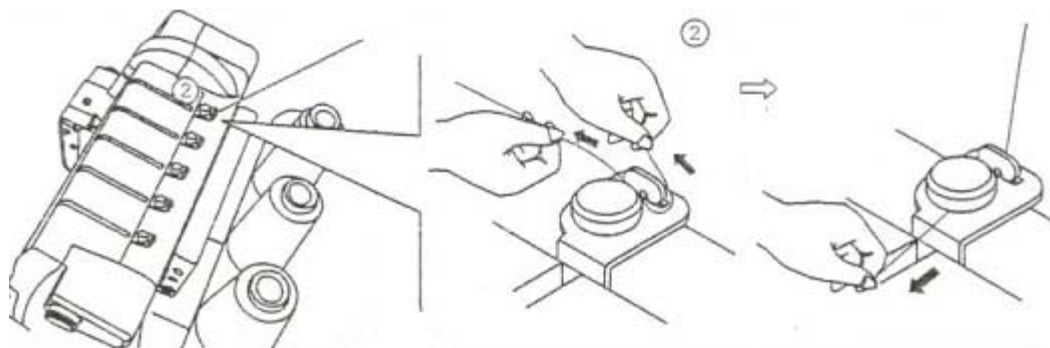
◆ Thread Left Overlock needle with regular thread.

1. Raise the Presser Foot to release the tension disks. Thread the left needle as illustrated 1-9.

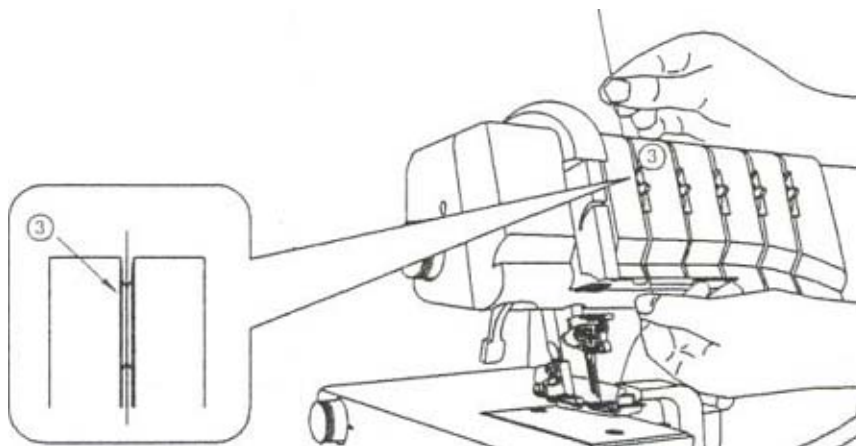
2. Pass thread from back to the front through the thread guide ①.



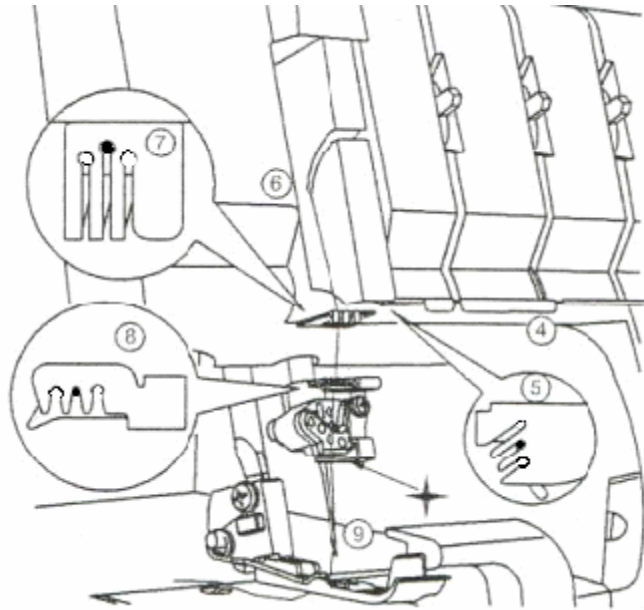
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread towards the right side of the button as illustrated.



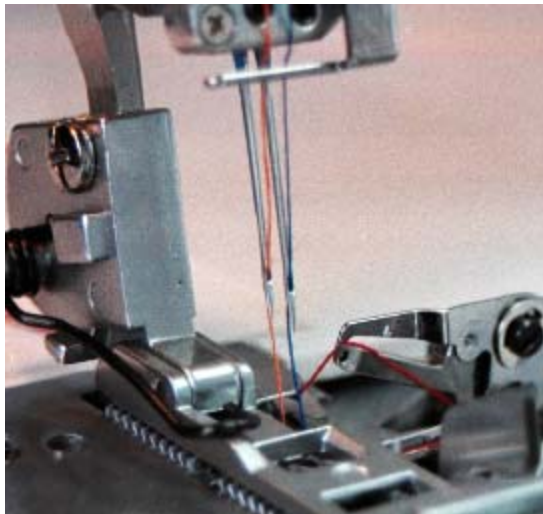
4. While holding the thread firmly, pull the thread between the tension disks.



5. Continue to thread points 4-8. Slip the thread into the middle slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the middle slot of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is behind the thread guide located on the bottom of the needle clamp.



7. Thread the eye of the Left Overedge Needle ⑨.



8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

# SINGER®

## TRY IT:

- ◆ Fold ribbing lengthwise.
- ◆ Place ribbing on top of fleece.
- ◆ Align the fabric so that the knife just slightly trims both the ribbing and fleece fabric edges.
- ◆ Sew, stretching the ribbing as needed.





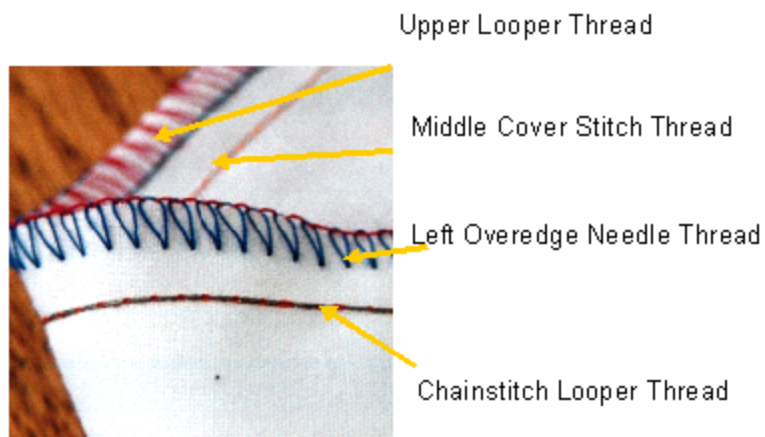
**SINGER®**

## Chapter 8: Four-Thread Safety Stitch



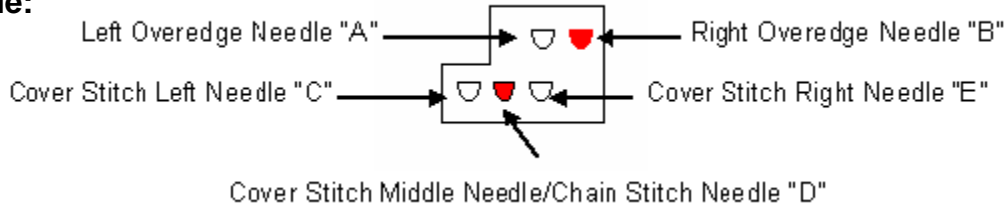
## Four-Thread Safety Stitch

This stitch is an alternative to the Five-Thread Safety Stitch. It offers the same type of Two-Thread Chainstitch. However the Three-Thread Overlock is now replaced by a Two-Thread Overedge finish. The Four-Thread Safety Stitch is appropriately used when sewing a medium weight woven fabric. Because there is one less thread being used, the stitch is less bulky. However, it is still strong enough not to require straight stitch reinforcement from a conventional sewing machine. This stitch requires two needle threads and two looper threads.



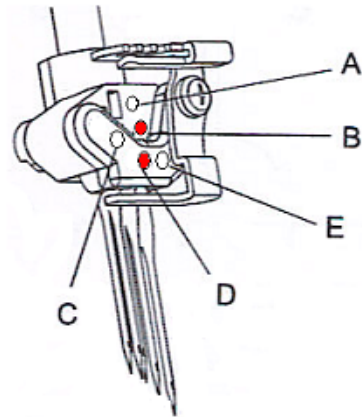
## SET UP:

### Needle:



Set at:

ATD: Auto Tension Dial	"I"
Left Cover Stitch Needle "C"	Not Threaded
Middle Cover Stitch Needle "D" (Orange)	Threaded
Right Cover Stitch Needle "E"	Not Threaded
Overedge Left Needle "A"	Not Threaded
Overedge Right Needle "B" (Blue)	Threaded
Upper Looper	Looper Engaged and Not Threaded
Spreader	Engaged
Lower Looper (Red)	Threaded
Chain Stitch Looper (Brown)	Threaded
Upper Looper Clutch	"L"
Upper Knife	Engaged
Seam Guide Plate	Not Installed
Seam Width Dial	"N"
Stitch Length Dial	"N"
Presser Foot Pressure	"N"
Differential Feed Dial	"N"
Stitch Finger	"N"



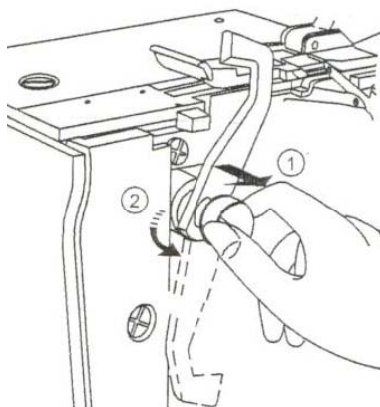
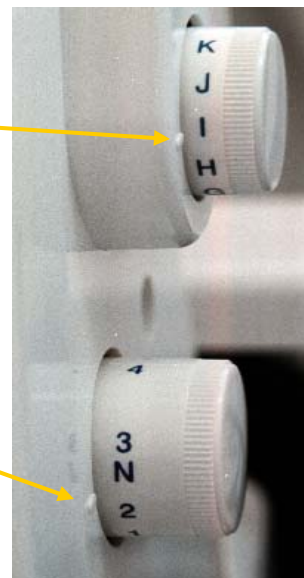
- ◆ Turn Auto Tension Dial to “I”.

- ◆ Turn Stitch Length Dial to “N”.

- ◆ Engage Upper Knife.

The knife will not trim the fabric when it is disengaged.

1. Open Looper Cover.
2. Pull the movable knife holder (silver screw) to the right as far as it will go.
3. Turn the holder clockwise until the knife clicks into a lock position.



Upper Knife Disengaged



Upper Knife Engaged

# SINGER®

- ◆ Turn Presser Foot Pressure Dial to “N”.



- ◆ Turn Differential Feed Dial to “N”.



- ◆ Turn Seam Width Dial to “N”.

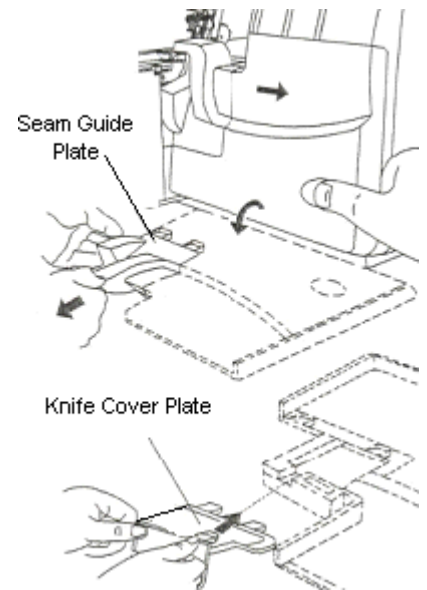


- ◆ Set Stitch Finger to “N”.



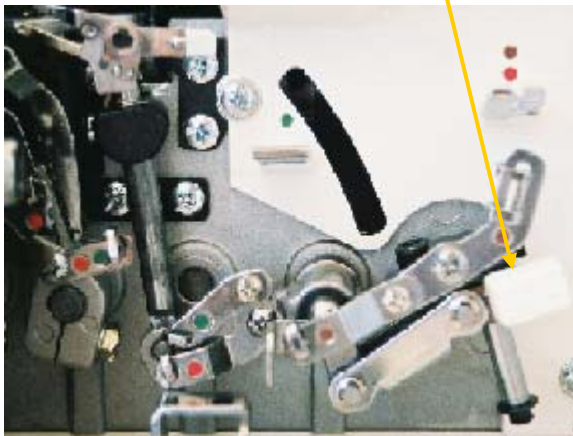
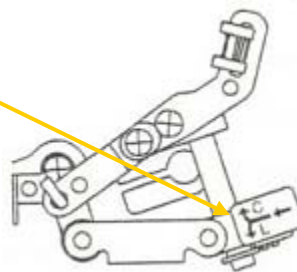
# SINGER®

## ◆ Install the Knife Cover.

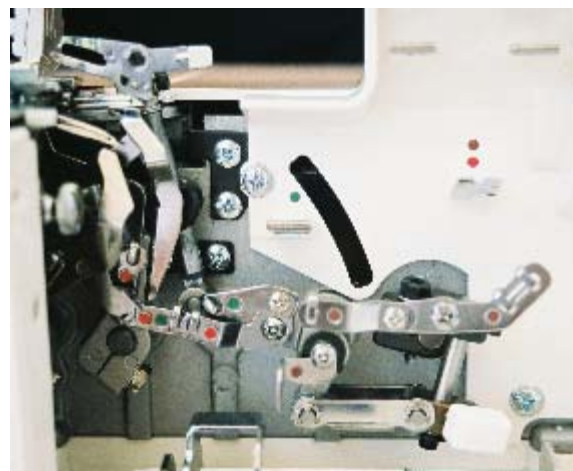


## ◆ Engage Upper Looper. Engaging the Upper Looper, causes the looper to move when sewing. Even though the Upper Looper is not threaded it needs to be engaged.

1. Push the clutch button to the left and down to engage.
2. Turn handwheel.



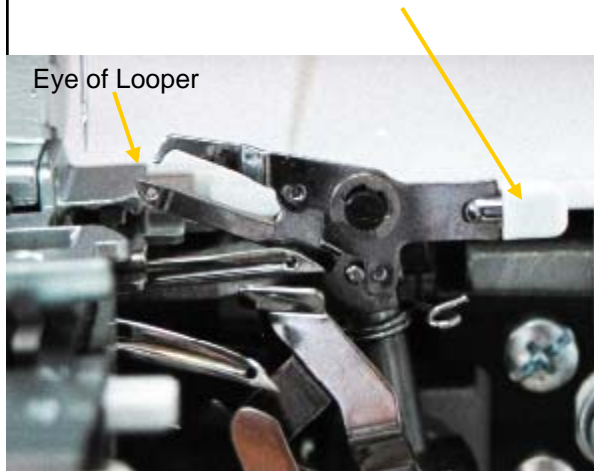
Upper Looper Disengaged



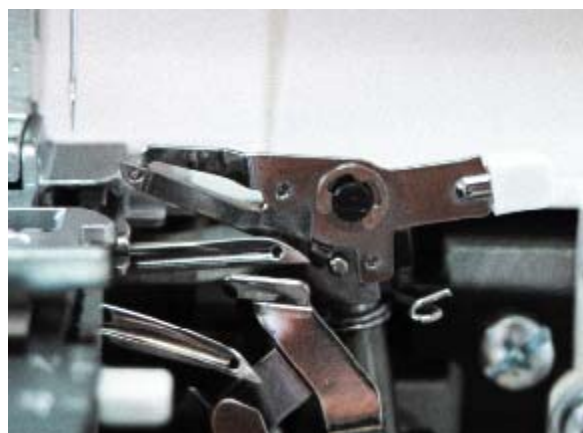
Upper Looper Engaged

- ◆ Engage Spreader. The Upper Loper has a hole for the thread on the top of the looper. If the stitch requires that the looper be engaged, but not threaded then the Spreader is used. The Spreader simply plugs-in (or closes) the looper's hole. The Spreader is disengaged when the Upper Loper is engaged/operative and threaded. The Spreader is used with a stitch that requires only one looper thread. With the help of the Spreader the single looper thread wraps around the fabric's edge.

1. Raise the white handle on the Spreader to insert the tip into the eye of the Upper Loper.



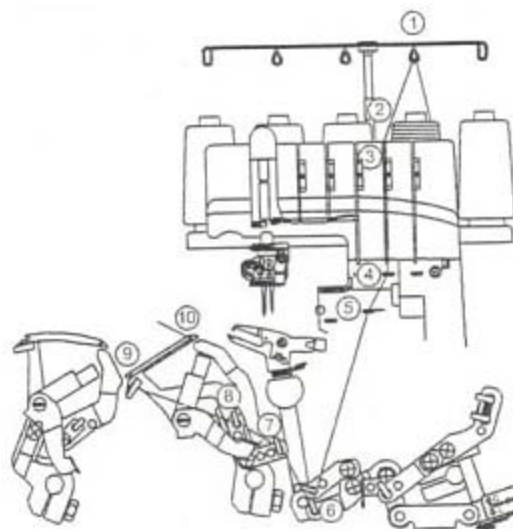
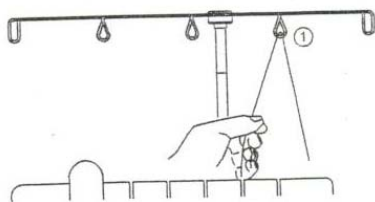
Spreader Disengaged



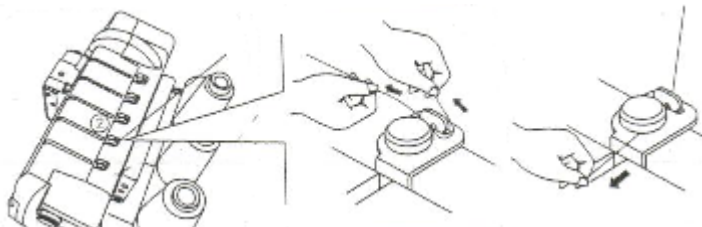
Spreader Engaged

- ◆ Thread Lower Loper with regular overlock thread.

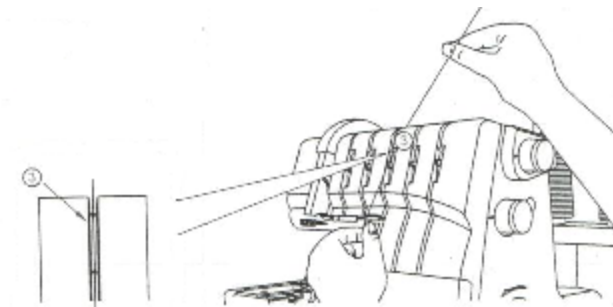
1. Raise the Presser Foot to release the tension disks. Thread the Lower Loper as illustrated 1-10.
2. Pass thread from back to the front through the thread guide ①.



3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



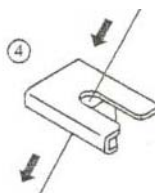
4. While holding the thread, firmly pull the thread between the tension disks.



5. Turn the handwheel toward you until the lower looper extends 5-10mm (approximately 1/2 inch) from the needle plate edge.

6. Thread the looper area of the machine following the red color coded thread guides 4-10.

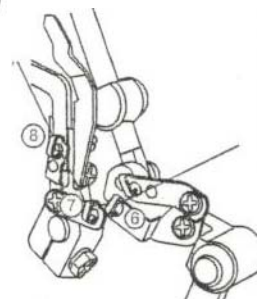
7. Place the thread slightly from left and to the right of threading guide ④.



8. Place the thread slightly from the front and to the back of threading guide ⑤.

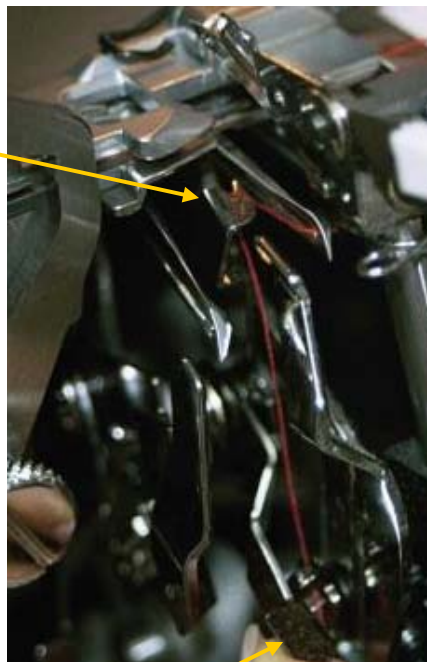
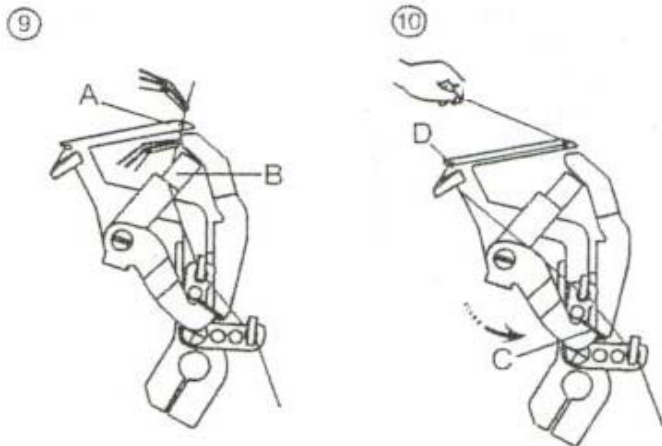


9. Place the thread through ⑥, ⑦, and ⑧.





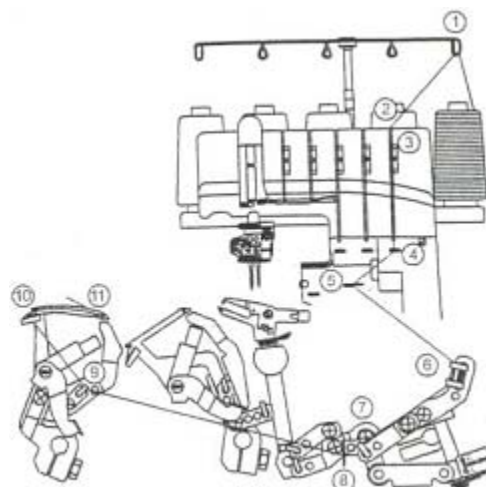
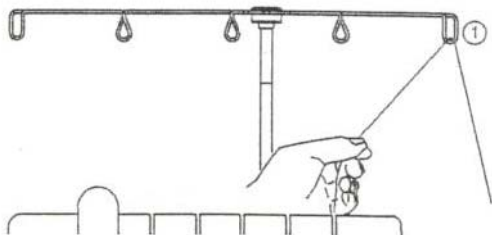
10. Thread the looper eye (A) from front to back. Pull about 4 inches of thread. Position thread into V cutout (B) on threader. Firmly hold thread tail with left hand and pull Threader lever (C) up into place (D).



Threader Lever

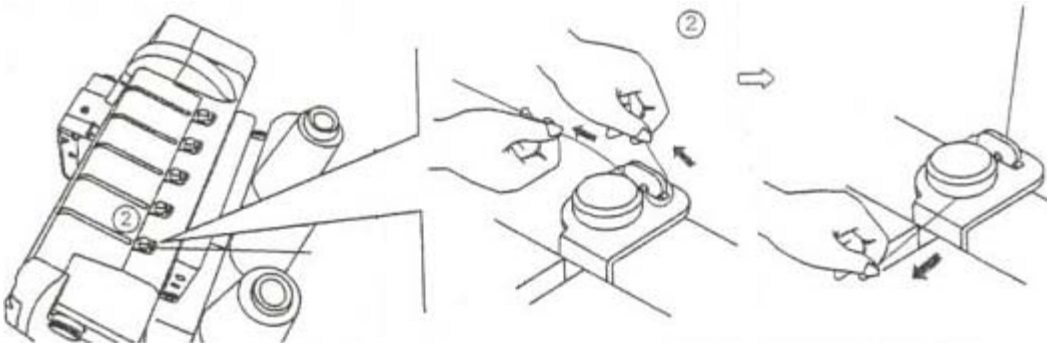
◆ Thread Chainstitch Looper with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Pass the thread from the back to the front through the thread guide ①.

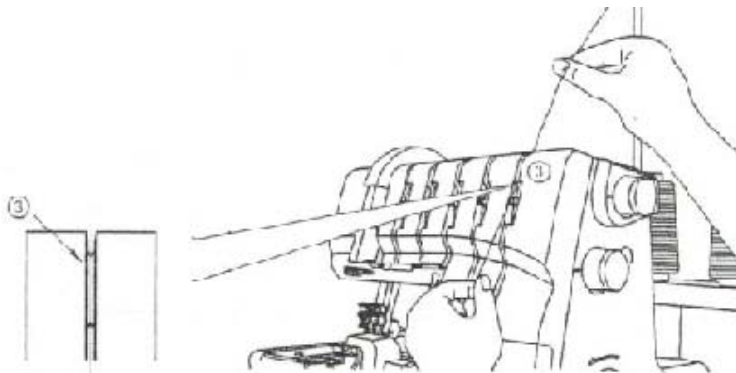


# SINGER®

2. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull thread along the right side of the button, as illustrated.



3. While holding the thread, firmly pull the thread between the tension disks.

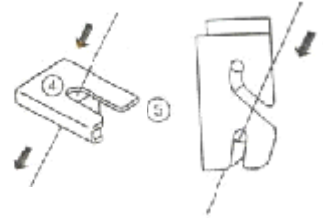


4. Turn the hand wheel toward you until the Chainstitch Looper extends out 10mm (approximately 1/2") from the needle plate edge.



5. Thread the looper area of the machine following the brown color-coded thread guides 4-11. Use the tweezers provided in the accessory case to aid in threading the looper.

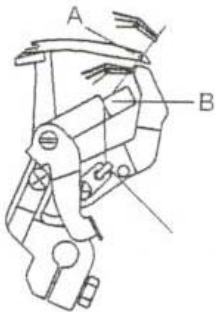
6. Place the thread through threading guide ④ and ⑤.



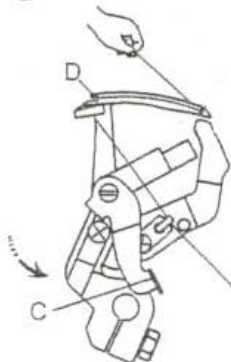
7. Continue threading guides ⑥, ⑦, ⑧ and ⑨.

8. Thread the looper eye (A) from front to back. Pull about 4 inches of thread through the looper. Position the thread into the V cutout (B) on the threader. Firmly hold the thread tail with your left hand and pull threader lever (C) up into place (D). Gently pull 5-6" of thread to the back of the machine.

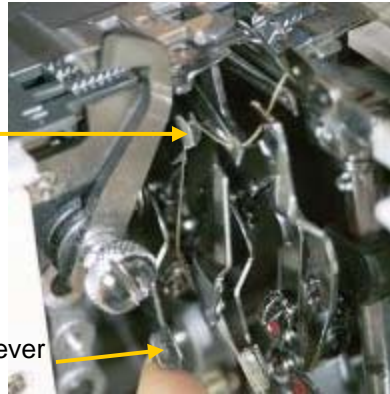
⑩



⑪



"V" cutout

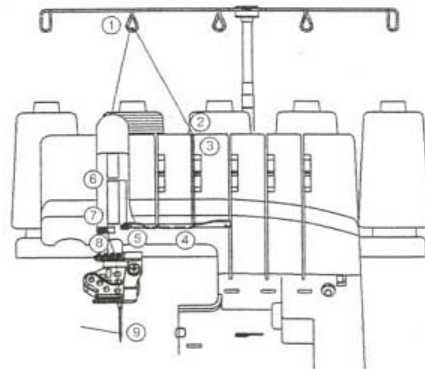
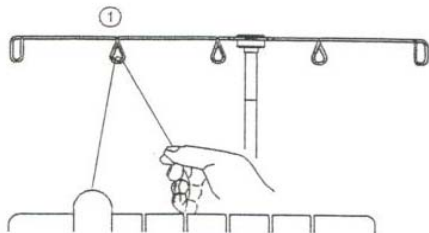


Threader lever

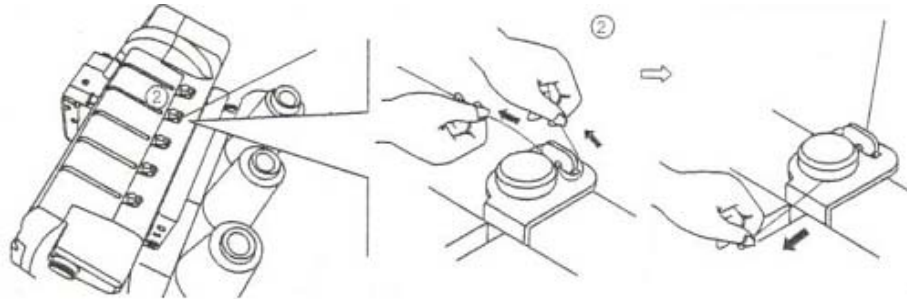
◆ Thread Right Overedge with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the right needle as illustrated 1-9.

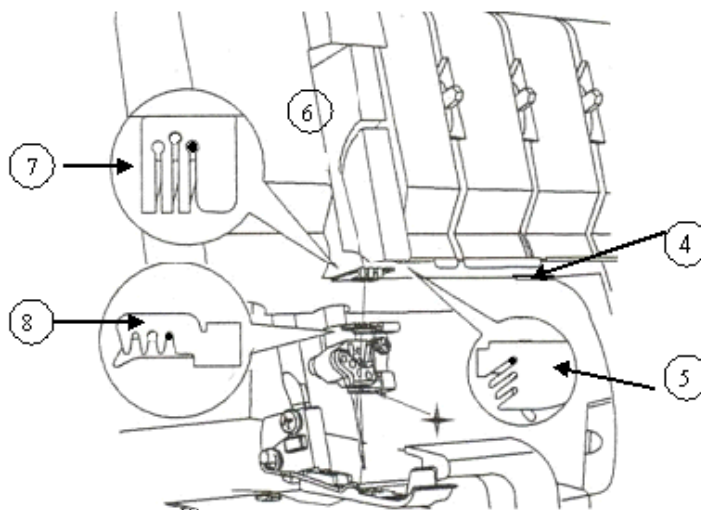
2. Pass thread from back to the front through the thread guide ①.



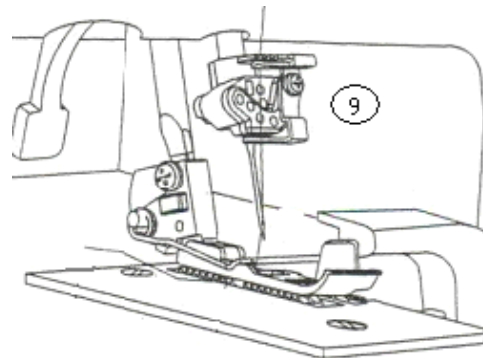
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



4. Continue to thread points 4-8. Slip the thread into the rear slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the right slot of the thread guides ⑦ and ⑧.

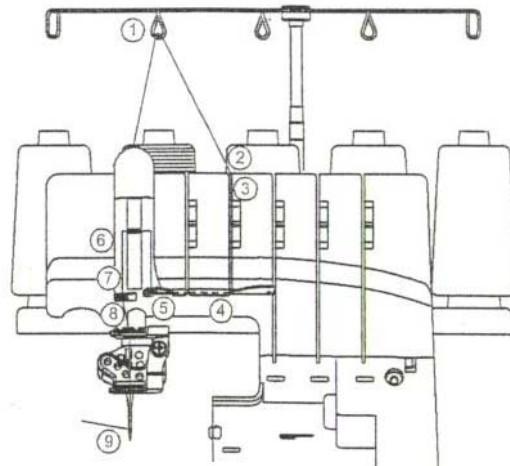


5. Before threading the eye of the needle, make sure the thread is behind the thread guide located on the bottom of the needle clamp.
6. Thread the eye of the Right Overedge Needle ⑨.

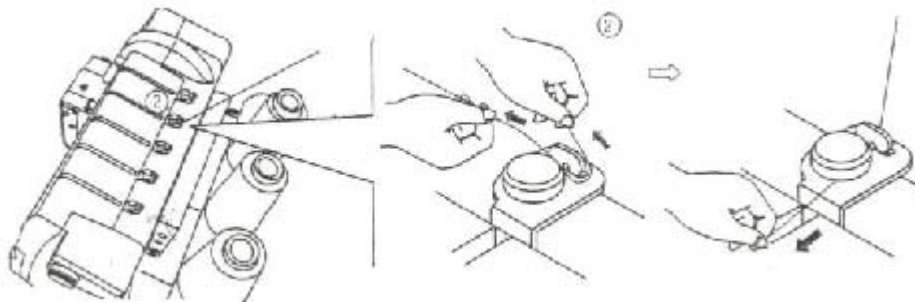


◆ Thread Middle Cover Stitch with regular overlock thread.

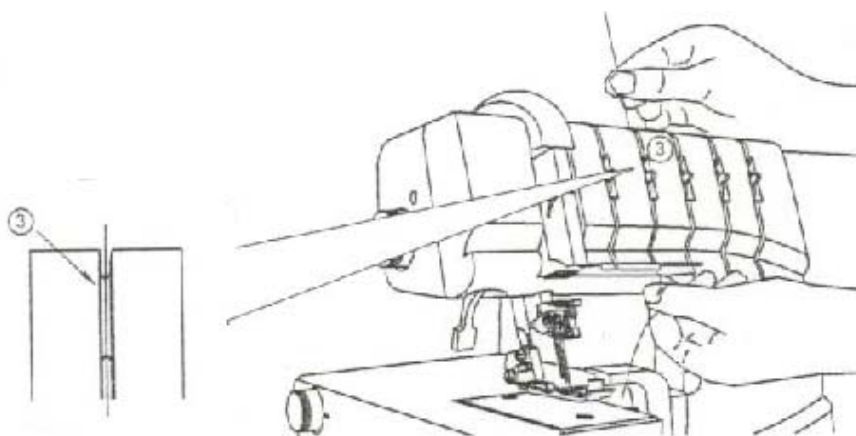
1. Raise the Presser Foot to release the tension disks. Thread the Cover Stitch Middle/Chain Stitch needle as illustrated 1-9.
2. Pass thread from back to the front through the thread guide ①.



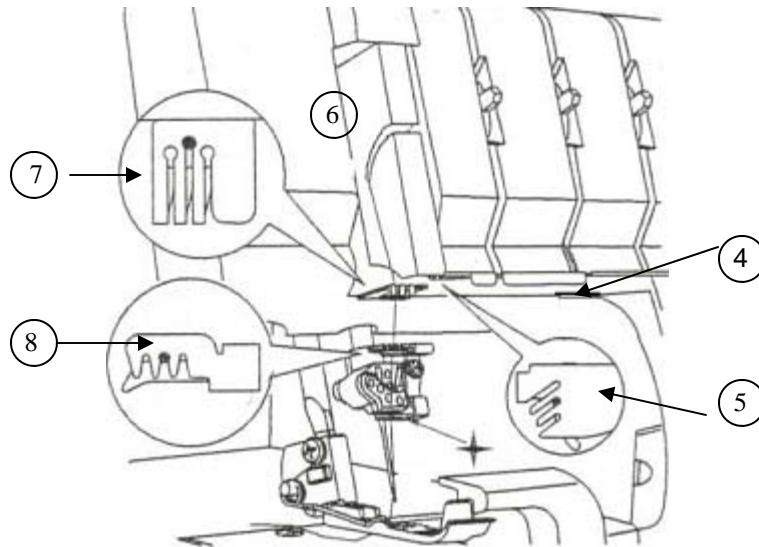
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



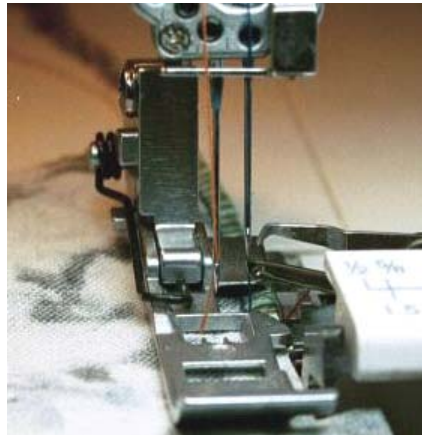
4. While holding the thread, firmly pull the thread between the tension disks.



5. Continue to thread points 4-8. Slip the thread into the middle slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the middle slot of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp for the Cover Stitch or Chainstitch.



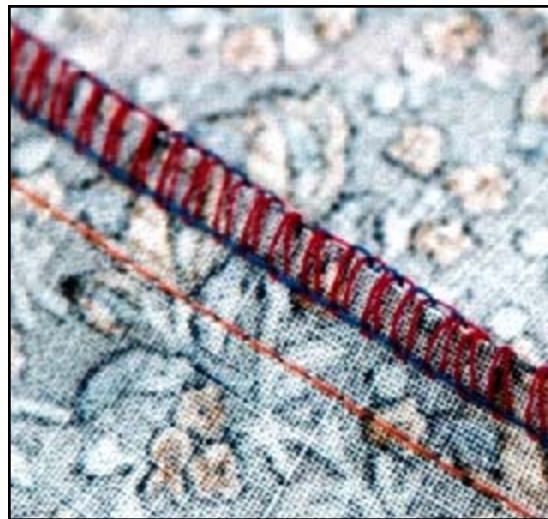
7. Thread the eye of the middle needle ⑨.



8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

## TRY IT:

- ◆ Place two pieces of broadcloth right sides together.
- ◆ Align the fabric so that that the knife just slightly trims the fabric edge.
- ◆ Sew.



**SINGER®**

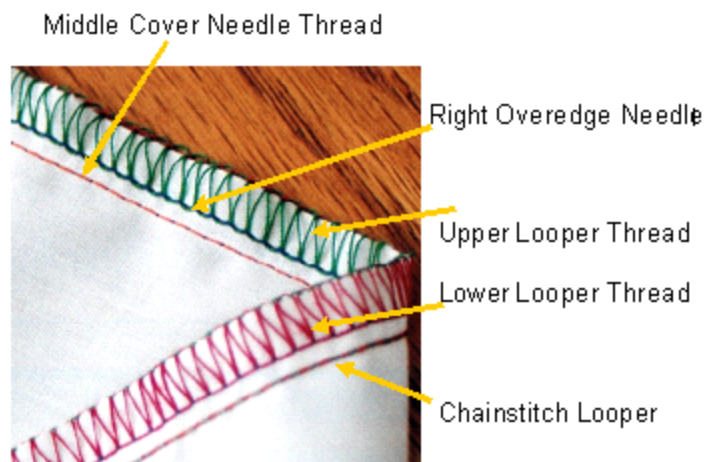
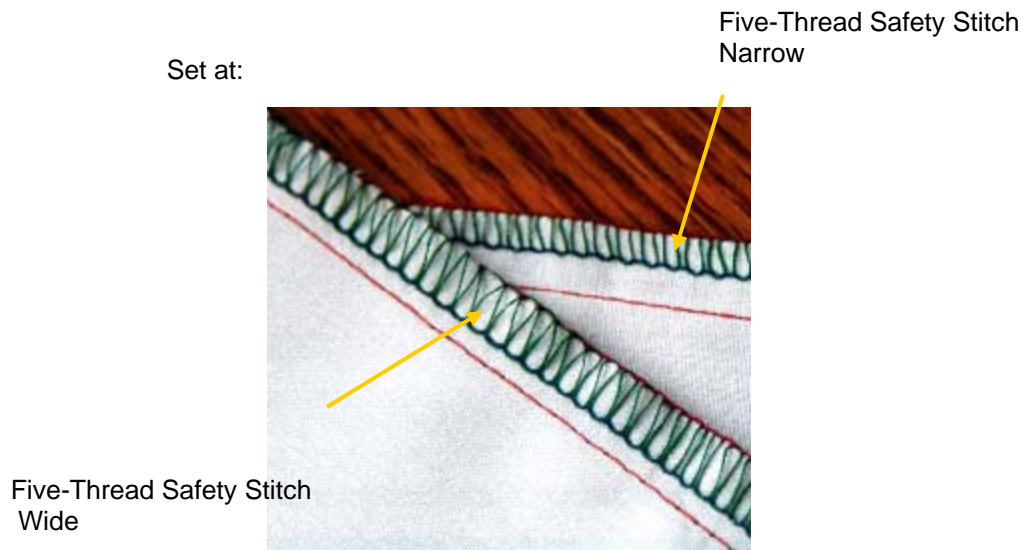
## Chapter 9: Five-Thread Safety Stitch Wide





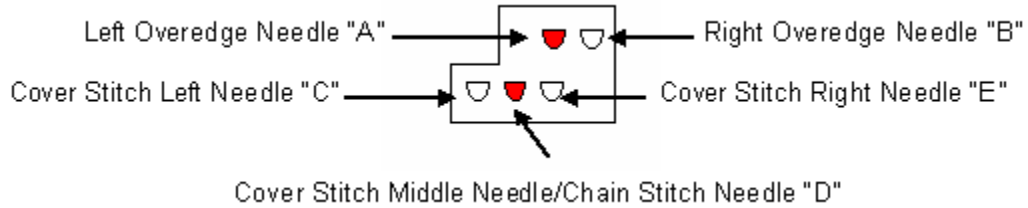
## Five-Thread Safety Stitch Wide

This stitch is a combination of a Two-Thread Chainstitch and a Three-Thread Overlock Stitch. It is suitable for woven fabrics and provides a durable seam for heavy weight fabrics such as denim and terrycloth. Using this strong safety stitch eliminates the need to reinforce the seam with a conventional sewing machine straight stitch. The Presser Foot Pressure Adjusting Dial makes it simple to sew on all weights of fabrics. The Five-Thread Safety Stitch can have a width of 2.8mm or 5.6mm, depending on which overlock needle position is chosen.

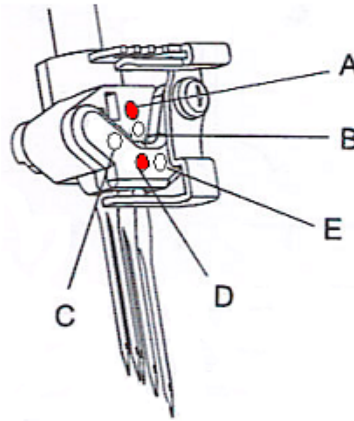


## SET UP:

### Needles:



<b>ATD:</b> Auto Tension Dial	"B"
Left Cover Stitch Needle "C"	Not Threaded
Middle Cover Stitch Needle "D" (Orange)	Threaded
Right Cover Stitch Needle "E"	Not Threaded
Overedge Left Needle "A" (Blue)	Threaded
Overedge Right Needle "B"	Not Threaded
Upper Looper (Green)	Looper Engaged and Threaded
Spreader	Not Used
Lower Looper (Red)	Threaded
Chain Stitch Looper (Brown)	Threaded
Upper Looper Clutch	"L"
Upper Knife	Engaged
Seam Guide Plate	Not Installed
Seam Width Dial	"N"
Stitch Length Dial	"N"
Presser Foot Pressure	"N"
Differential Feed Dial	"N"
Stitch Finger	"N"



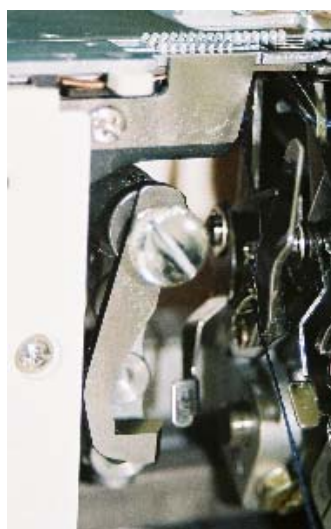
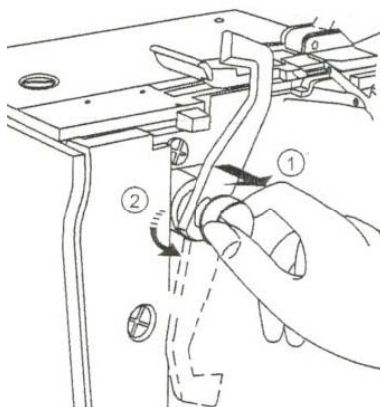
- ◆ Turn Auto Tension Dial to “B”.

- ◆ Turn Stitch Length Dial to “N”.

- ◆ Engage Upper Knife.

The knife will not trim the fabric when it is disengaged.

1. Open Looper Cover.
2. Pull the movable knife holder (silver screw) to the right as far as it will go.
3. Turn the holder clockwise until the knife clicks into a lock position.



Upper Knife Disengaged



Upper Knife Engaged

# SINGER®

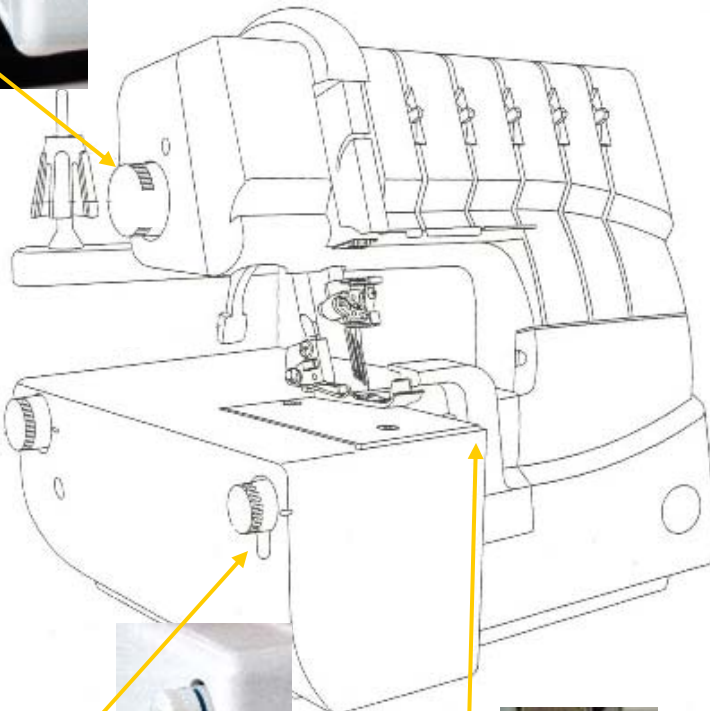
- ◆ Turn Presser Foot Pressure Dial to “N”.



- ◆ Turn Differential Feed Dial to “N”.



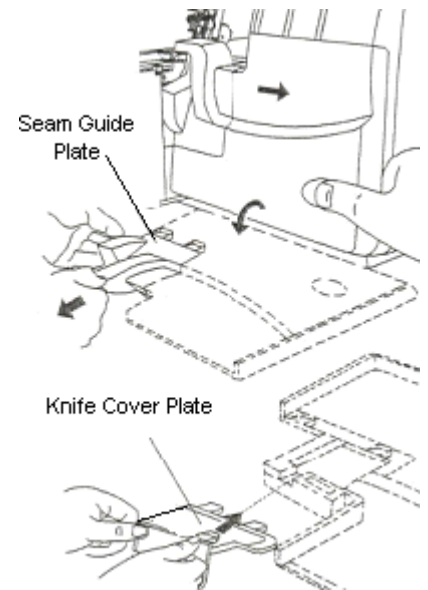
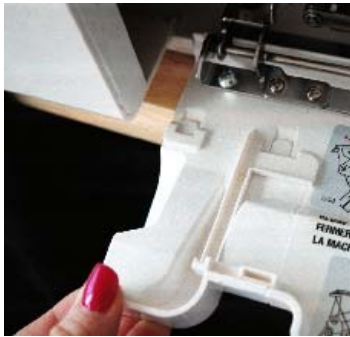
- ◆ Turn Seam Width Dial to “N”.



- ◆ Set Stitch Finger to “N”.

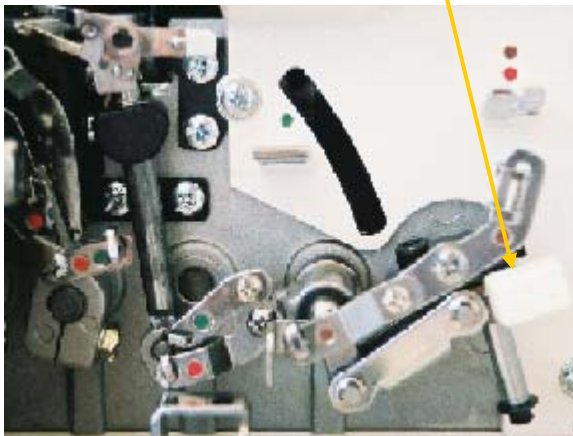
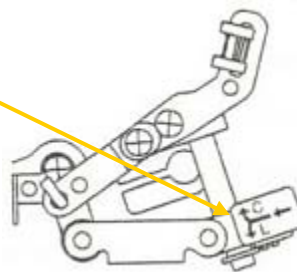
# SINGER®

## ◆ Install the Knife Cover.

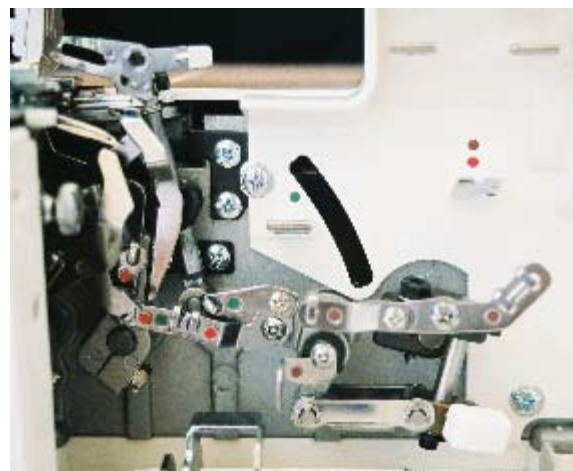


## ◆ Engage Upper Looper. Engaging the Upper Looper causes the looper to move when sewing. Even though the Upper Looper is not threaded, it needs to be engaged.

1. Push the clutch button to the left and down to engage.
2. Turn handwheel.

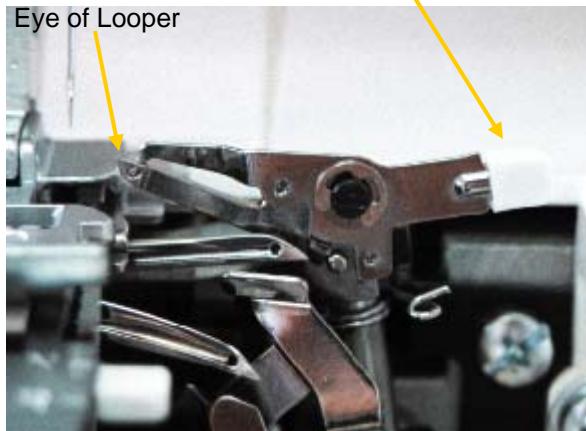


Upper Looper Disengaged



Upper Looper Engaged

- ◆ Disengage Spreader. The Upper Looter has a hole for the thread on the top of the looper. If the stitch requires that the looper be engaged but not threaded, then the Spreader is used. The Spreader simply plugs-in (or closes) the looper's hole. The Spreader is disengaged when the Upper Looter is engaged/operative and threaded. The Spreader is used with a stitch that requires only one looper thread. With the help of the Spreader the single looper thread wraps around the fabric's edge.
  1. Lower the white handle on the Spreader to open the eye of the Upper Looter.

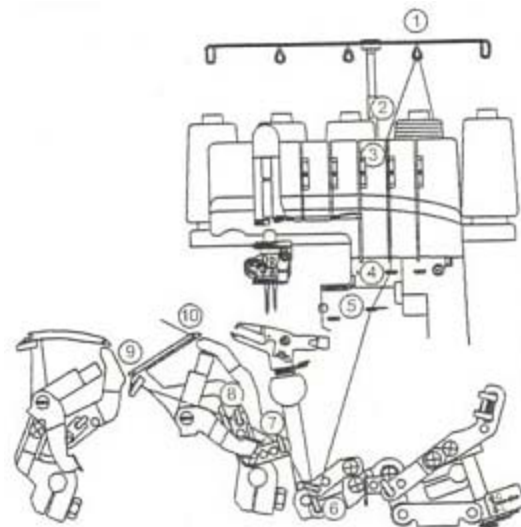
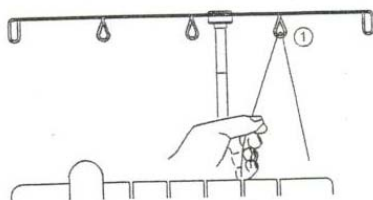


Spreader Engaged

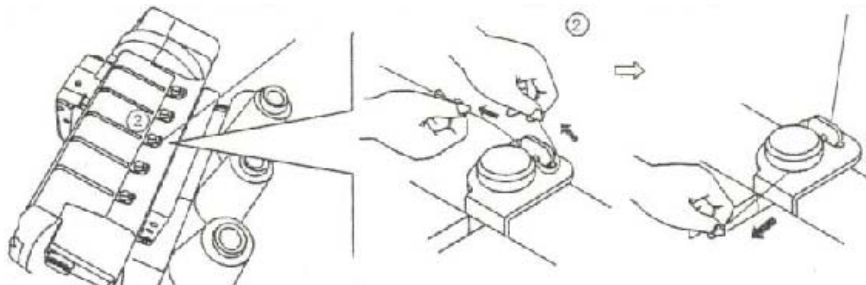


Spreader Disengaged

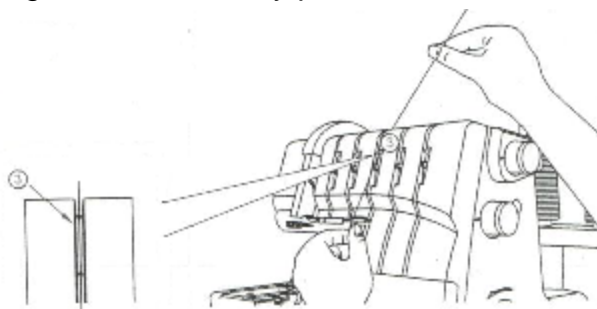
- ◆ Thread Upper Looter with regular overlock thread.
  1. Raise the Presser Foot to release the tension disks. Thread the Lower Looter as illustrated 1-9.
  2. Pass thread from back to the front through the thread guide ①.



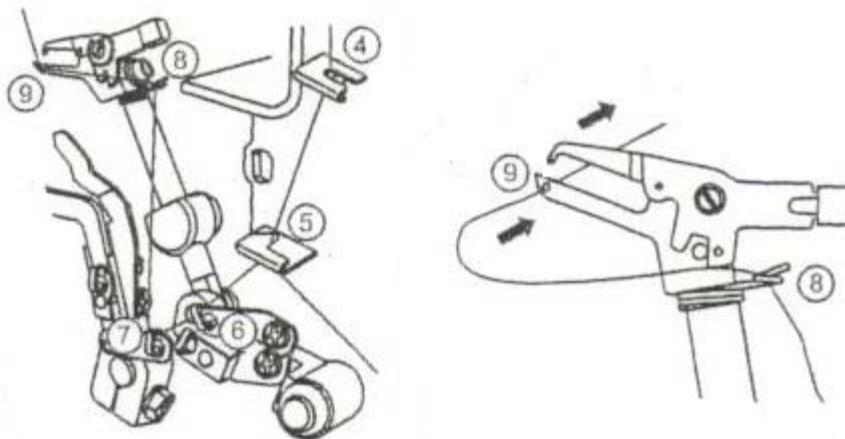
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



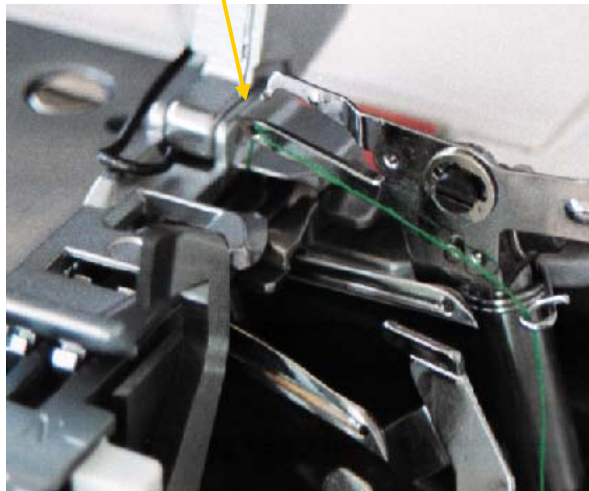
4. While holding the thread, firmly pull the thread between the tension disks.



5. Turn the handwheel toward you until the lower looper extends 5-10mm (approximately ½ inch) from the needle plate edge.
6. Thread the looper area of the machine following the green color coded thread guides 4-9.

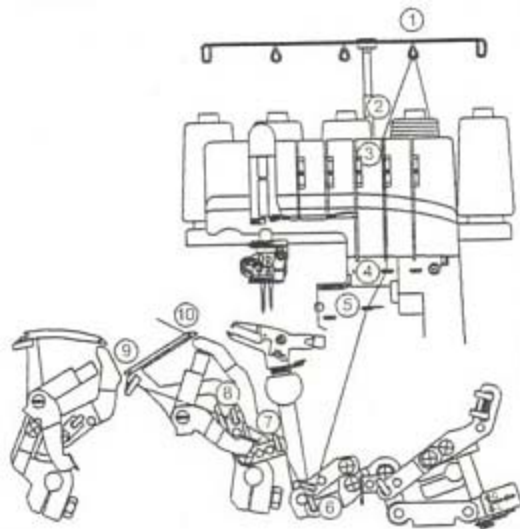
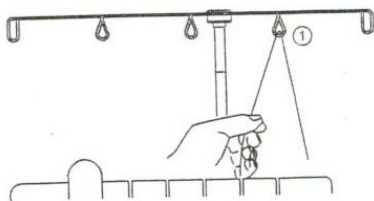


7. Thread the hole in the Upper Looter from front to back ⑨. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

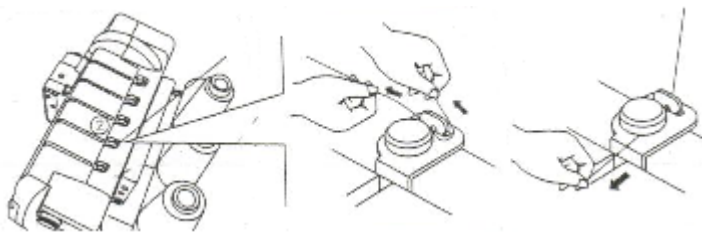


◆ Thread Lower Looter with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the Lower Looter as illustrated 1-10.
2. Pass thread from back to the front through the thread guide ①.

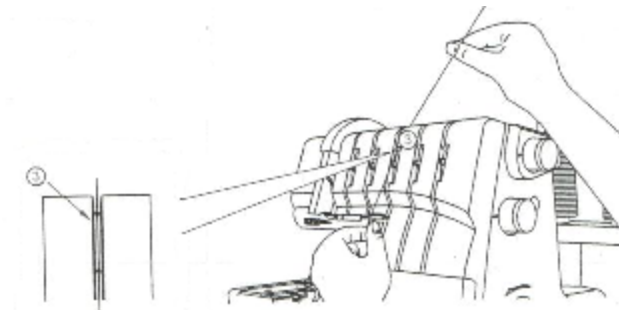


3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



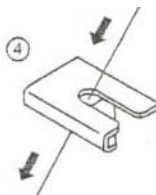


4. While holding the thread, firmly, pull the thread between the tension disks.



5. Turn the handwheel toward you until the lower looper extends 5-10mm (approximately ½ inch) from the needle plate edge.
6. Thread the looper area of the machine following the red color coded thread guides 4-10.

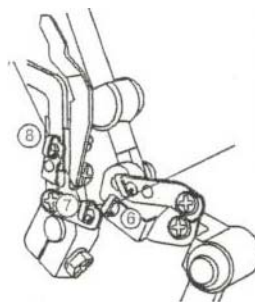
7. Place the thread slightly from left and to the right of threading guide ④.



8. Place the thread slightly from the front and to the back of threading guide ⑤.

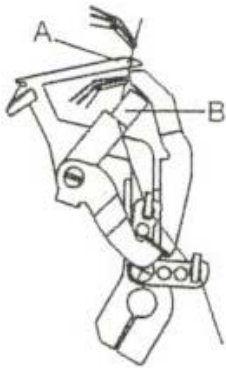


9. Place the thread through ⑥, ⑦ and ⑧.



10. Thread the looper eye (A) from front to back. Pull about 4 inches of thread. Position thread into V cutout (B) on threader. Firmly hold thread tail with left hand and pull Threader lever (C) up into place (D).

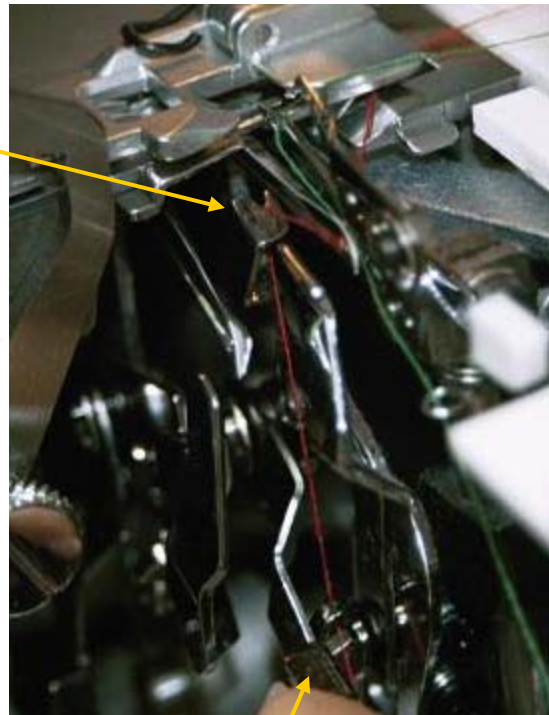
9



10



"V" cutout



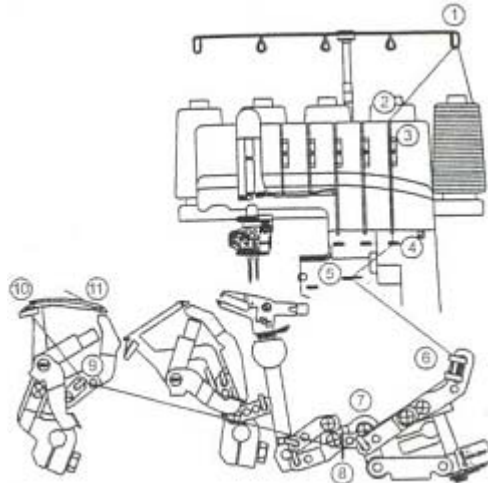
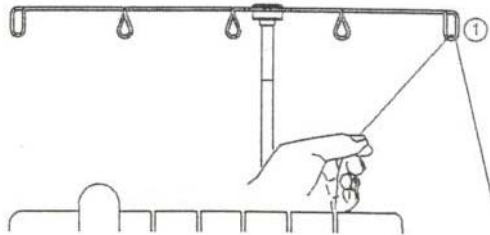
Threader Lever



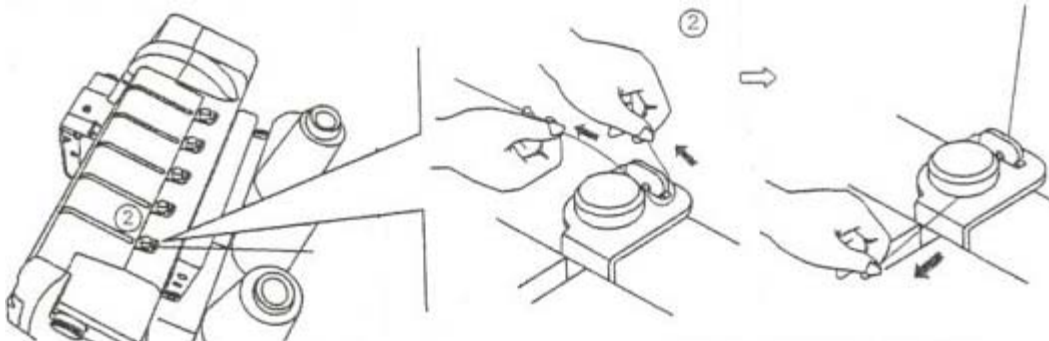
NOTE: Make sure the Upper Looper thread is behind the Lower Looper thread.

◆ Thread Chainstitch Looper with regular overlock thread.

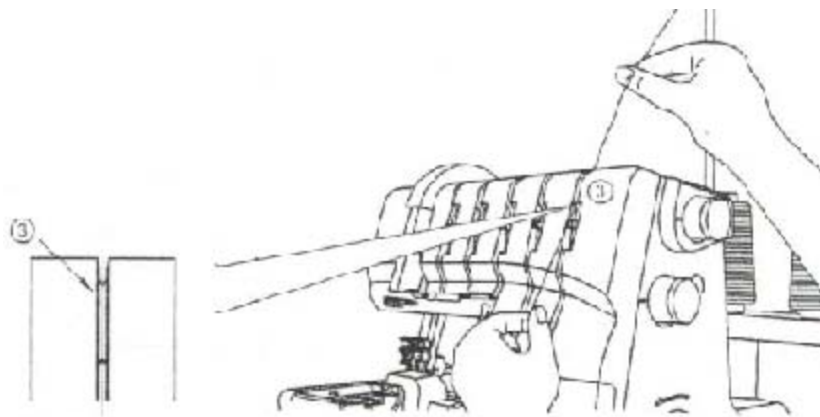
1. Raise the Presser Foot to release the tension disks. Pass the thread from the back to the front through the thread guide ①.



2. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull thread along the right side of the button as illustrated.



3. While holding the thread, firmly pull the thread between the tension disks.

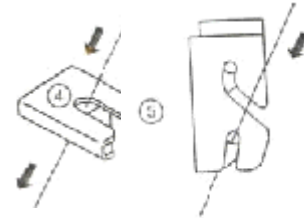


4. Turn the hand wheel toward you until the Chainstitch Looper extends out 10mm (approximately ½ inch) from the needle plate edge.



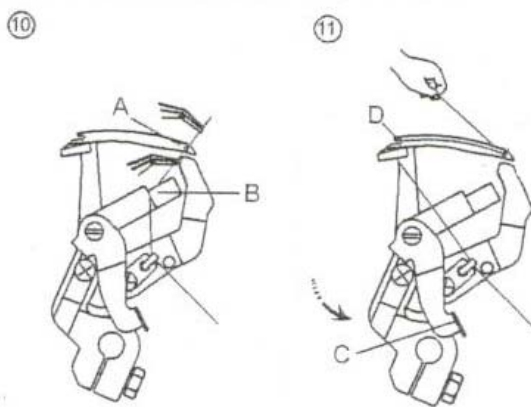
5. Thread the looper area of the machine following the brown color-coded thread guides 4-11. Use the tweezers provided in the accessory case to aid in threading the looper.

6. Place the thread through threading guides ④ and ⑤.



7. Continue threading guides ⑥, ⑦, ⑧ and ⑨.

8. Thread the looper eye (A) from front to back. Pull about 4 inches of thread through the looper. Position the thread into the V cutout (B) on the threader. Firmly hold the thread tail with left hand and pull threader lever (C) up into place (D). Gently pull 5-6" of thread to the back of the machine.



"V" cutout

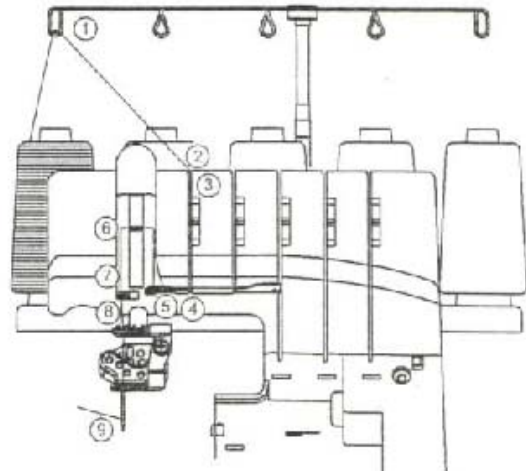
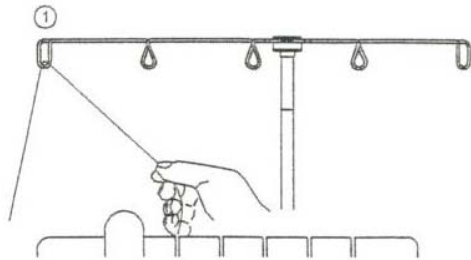


Threader Lever

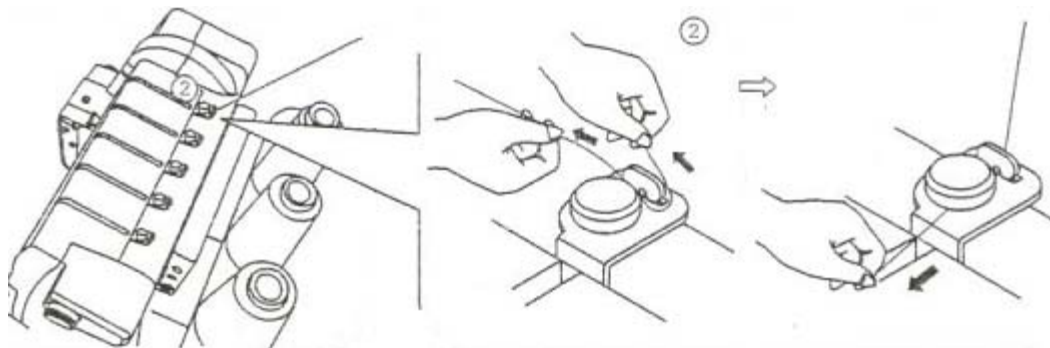
◆ Thread Left Overlock needle with regular thread.

1. Raise the Presser Foot to release the tension disks. Thread the left needle as illustrated 1-9.

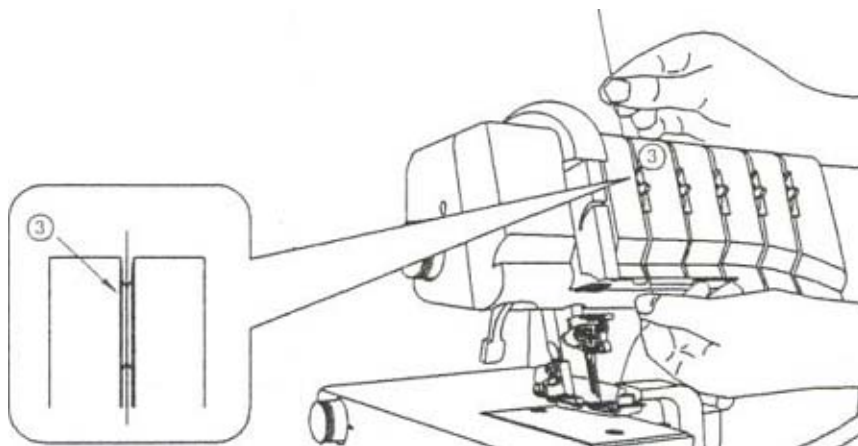
2. Pass thread from back to the front through the thread guide ①.



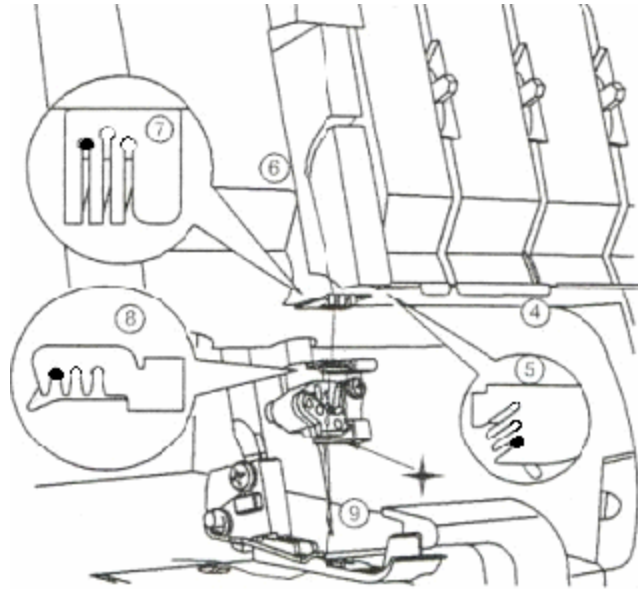
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



4. While holding the thread firmly, pull the thread between the tension disks.



5. Continue to thread points 4-8. Slip the thread into the forward slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the left slot of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is behind the thread guide located on the bottom of the needle clamp.



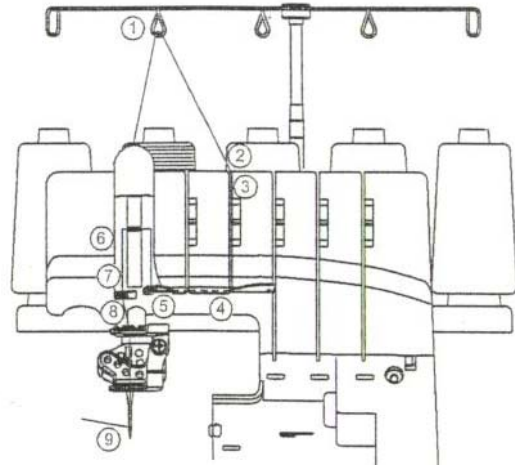
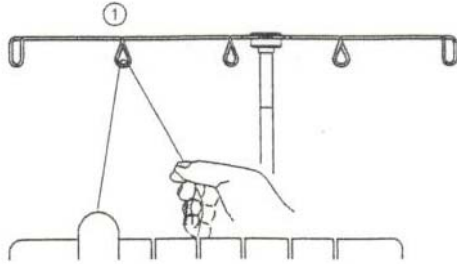
7. Thread the eye of the Left Overedge Needle ⑨.



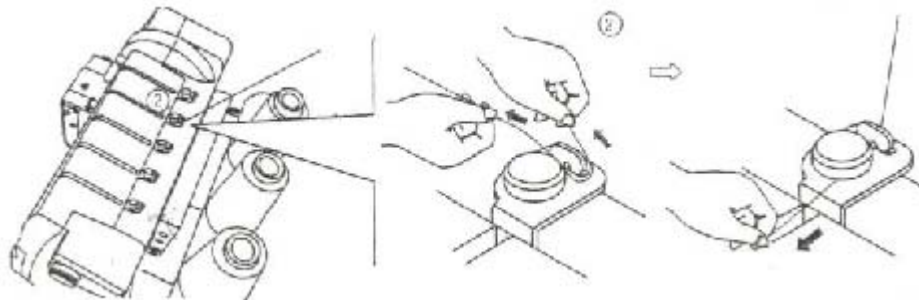
8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

◆ Thread Middle Cover stitch needle with regular overlock thread.

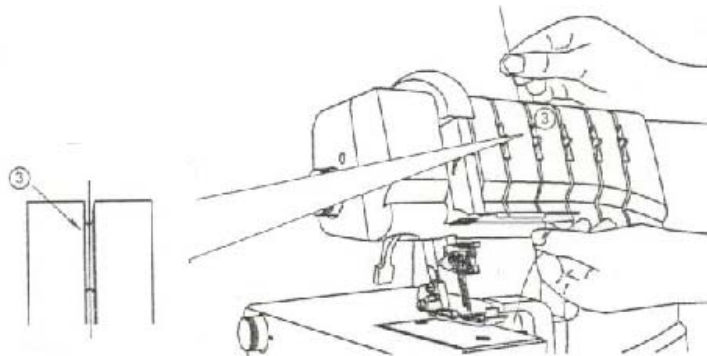
1. Raise the Presser Foot to release the tension disks. Thread the Cover Stitch Middle/Chain Stitch needle as illustrated 1-9.
2. Pass thread from back to the front through the thread guide ①.



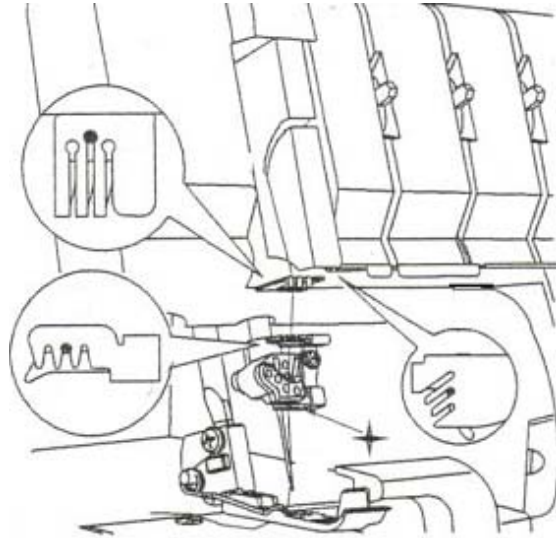
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



4. While holding the thread firmly, pull the thread between the tension disks.

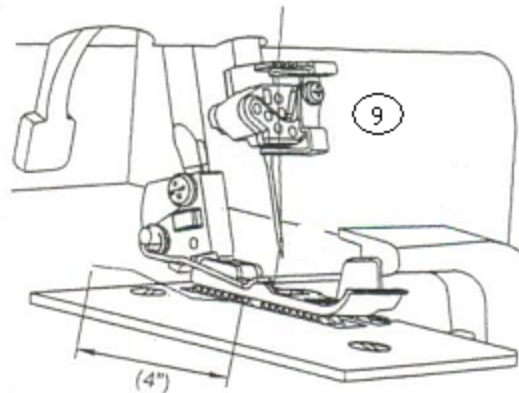


5. Continue to thread points 4-8. Slip the thread into the middle slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the middle slot of the thread guides ⑦ and ⑧.



6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp for the Cover Stitch or Chainstitch.

7. Thread the eye of the middle needle ⑨.



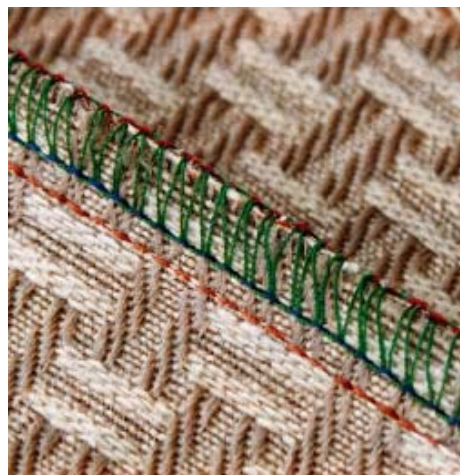
8. Draw about 4 inches of the thread through the needle eye, under the Presser Foot and then towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.



# SINGER®

## TRY IT:

- ◆ Place two pieces of home decorative fabric, right sides together.
- ◆ Align the fabric so that the knife just slightly trims the fabric edge.
- ◆ Sew.



**SINGER®**

## Chapter 10: Five-Thread Safety Stitch Narrow

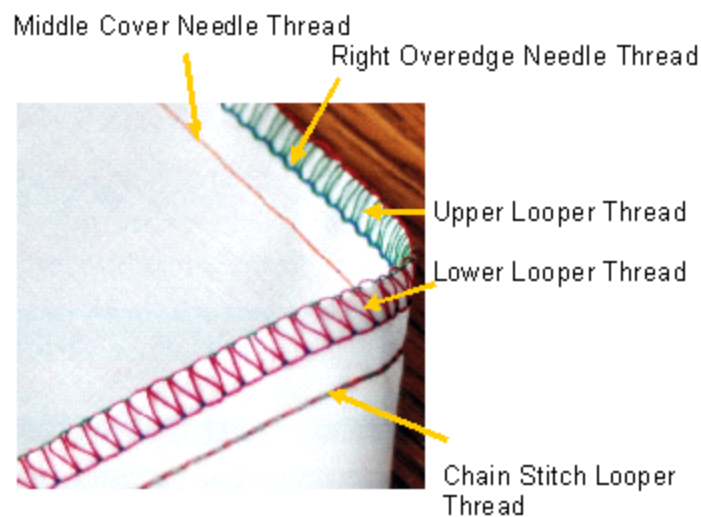


## Five-Thread Safety Stitch Narrow

This stitch is a combination of a Two-Thread Chainstitch and a Three-Thread Overlock Stitch. It is suitable for woven fabrics and provides a durable seam for heavy weight fabrics such as denim and terrycloth. Using this strong and stable safety stitch eliminates the need to reinforce the seam with a conventional sewing machine straight stitch. The Pressure Adjusting Dial makes it simple to sew on all weights of fabrics. The Five-Thread Safety Stitch can have a width of 2.8mm or 5.6mm depending on which overlock needle position is chosen.

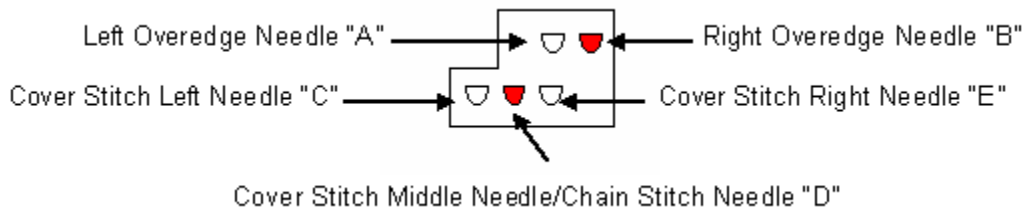


Hint: Try a wider stitch width (6.5) for thicker fabrics such as Terrycloth.



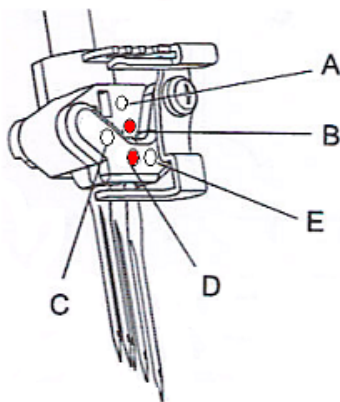
## SET UP:

### Needles:



### Set at:

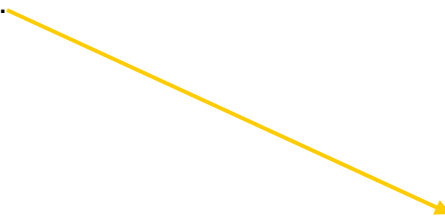
<b>ATD:</b> Auto Tension Dial	"A"
Left Cover Stitch Needle "C"	Not Threaded
Middle Cover Stitch Needle "D" (Orange)	Threaded
Right Cover Stitch Needle "E"	Not Threaded
Overedge Left Needle "A"	Not Threaded
Overedge Right Needle "B" (Blue)	Threaded
Upper Looper (Green)	Looper Engaged and Threaded
Spreader	Disengaged
Lower Looper (Red)	Threaded
Chain Stitch Looper (Brown)	Threaded
Upper Looper Clutch	"L"
Upper Knife	Engaged
Seam Guide Plate	Not Installed Use Knife Cover
Seam Width Dial	"N"
Stitch Length Dial	"N"
Presser Foot Pressure	"N"
Differential Feed Dial	"N"
Stitch Finger	"N"



- ◆ Turn Auto Tension Dial to “A”.



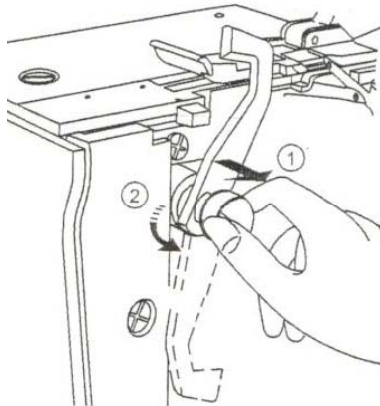
- ◆ Turn Stitch Length Dial to “N”.



- ◆ Engage Upper Knife.

The knife will not trim the fabric when it is disengaged.

1. Open Looper Cover.
2. Pull the movable knife holder (silver screw) to the right as far as it will go.
3. Turn the holder clockwise until the knife clicks into a lock position.



Upper Knife Disengaged



Upper Knife Engaged

# SINGER®

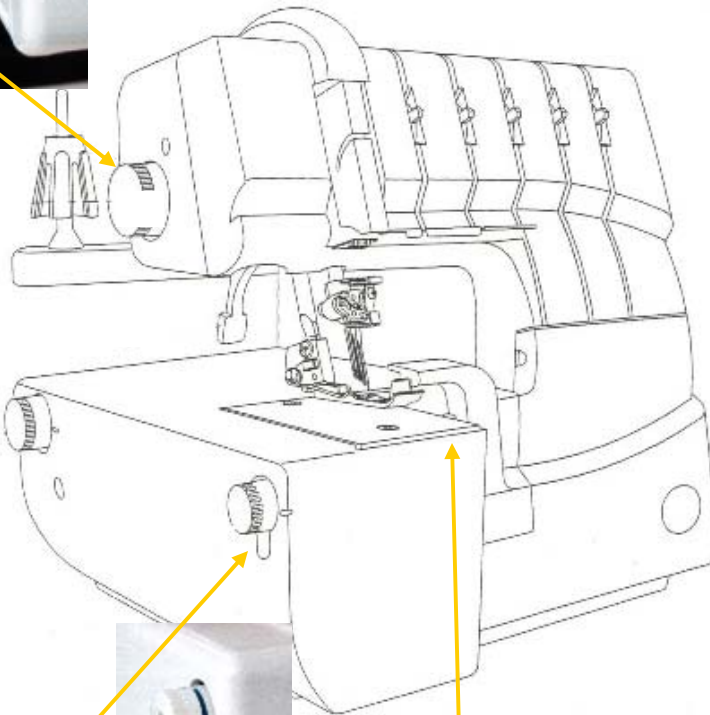
- ◆ Turn Presser Foot Pressure dial to “N”.



- ◆ Turn Differential Feed Dial to “N”.



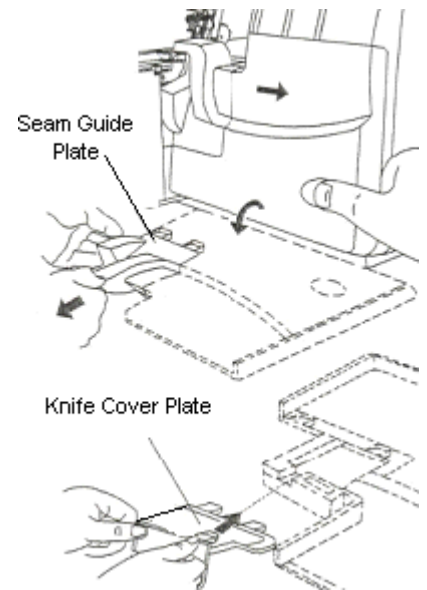
- ◆ Turn Seam Width Dial to “N”.



- ◆ Set Stitch Finger to “N”.

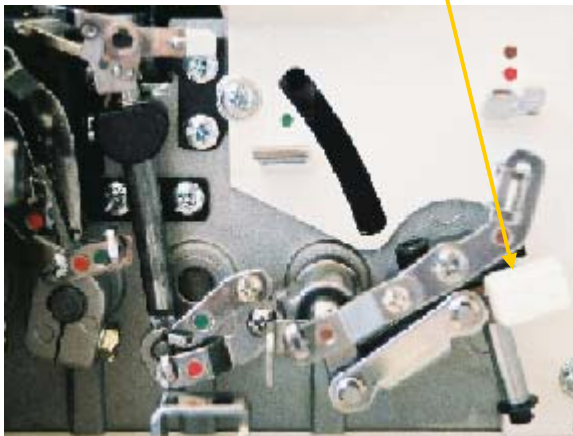
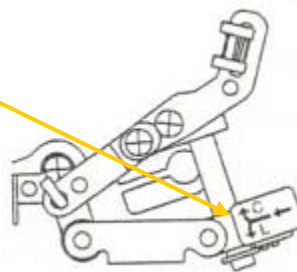
# SINGER®

## ◆ Install the Knife Cover.

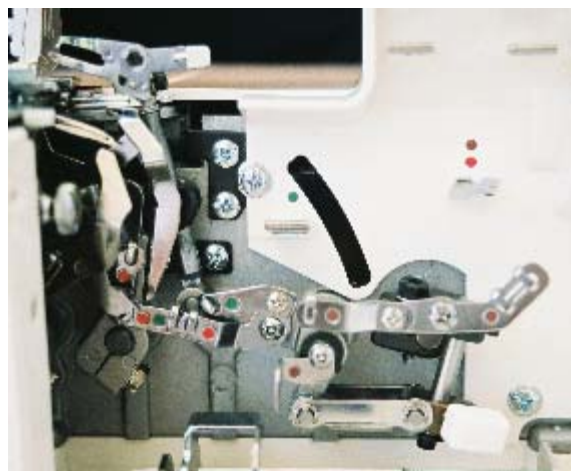


## ◆ Engage Upper Looper. Engaging the Upper Looper causes the looper to move when sewing. Even though the Upper Looper is not threaded it needs to be engaged.

1. Push the clutch button to the left and down to engage.
2. Turn handwheel.



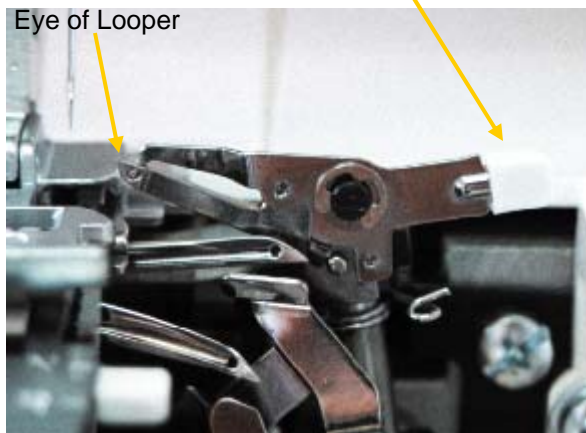
Upper Looper Disengaged



Upper Looper Engaged

- ◆ Disengage Spreader. The Upper Looter has a hole for the thread on the top of the looper. If the stitch requires that the looper be engaged, but not threaded then the Spreader is used. The Spreader simply plugs-in (or closes) the looper's hole. The Spreader is disengaged when the Upper Looter is engaged/operative and threaded. The Spreader is usually used with a stitch that requires only one looper thread. With the help of the Spreader the single looper thread wraps around the fabric's edge.

1. Lower the white handle on the Spreader to open the eye of the Upper Looter.



Spreader Engaged

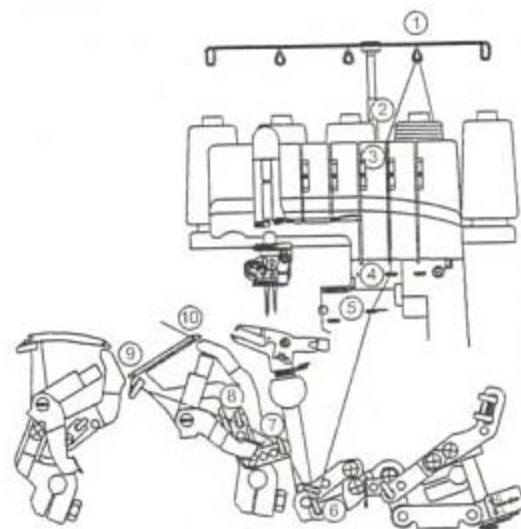
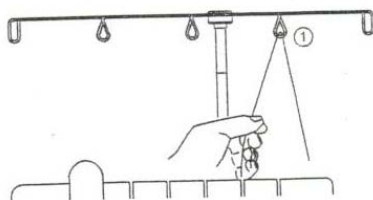


Spreader Disengaged

- ◆ Thread Upper Looter with regular overlock thread.

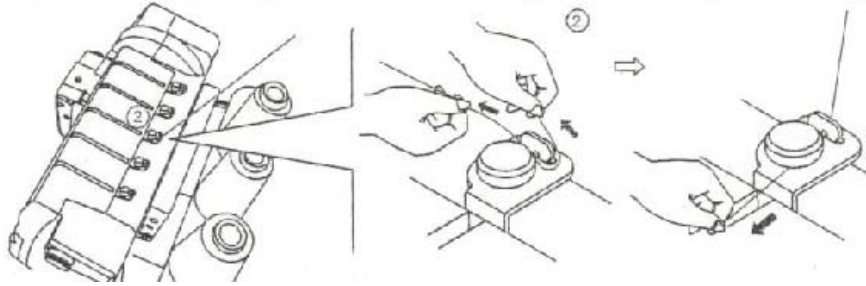
1. Raise the Presser Foot to release the tension disks. Thread the Lower Looter as illustrated 1-9.

2. Pass thread from back to the front through the thread guide ①.

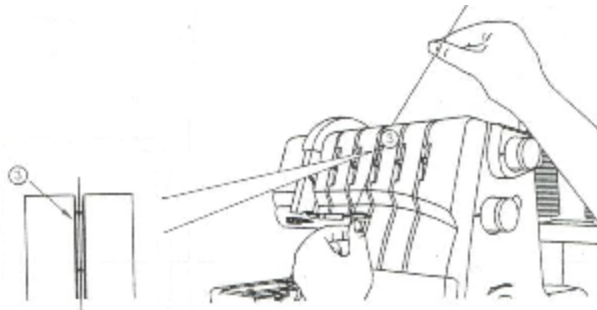




3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.

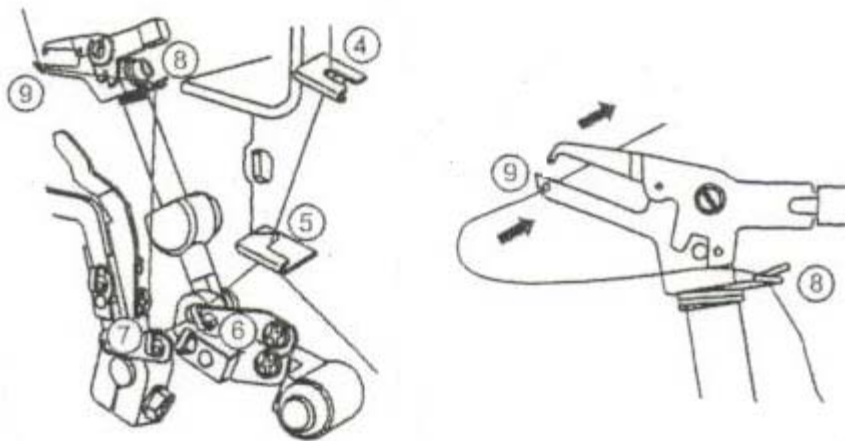


4. While holding the thread firmly, pull the thread between the tension disks.

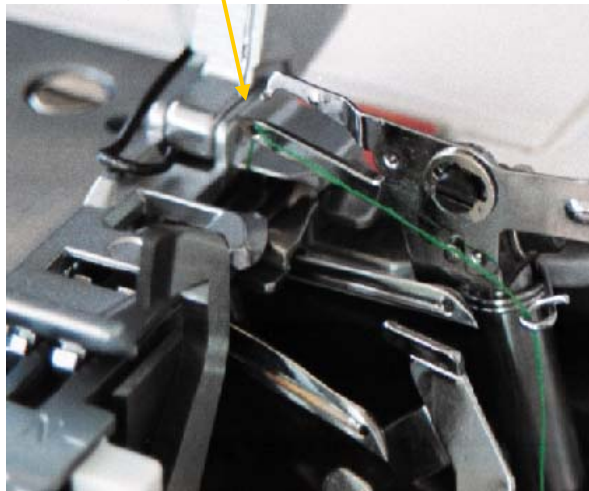


5. Turn the handwheel toward you until the lower looper extends 5-10mm (approximately ½ inch) from the needle plate edge.

6. Thread the looper area of the machine following the green color coded thread guides 4-9.

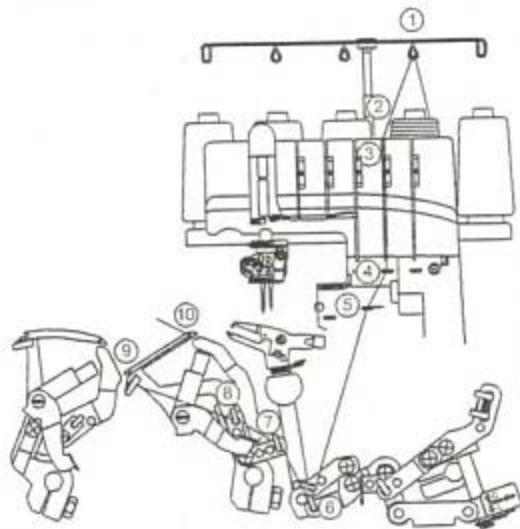
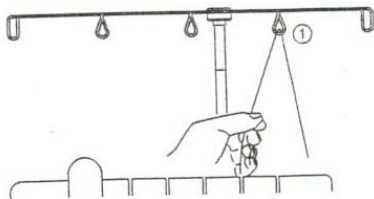


7. Thread the hole in the Upper Looter from front to back ⑨. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

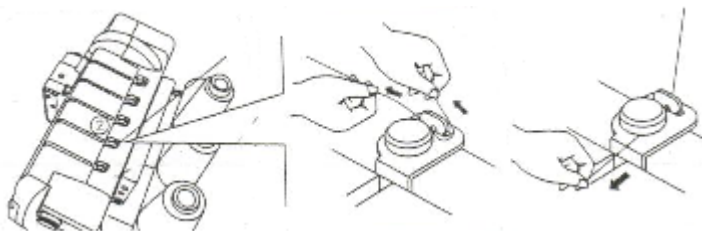


◆ Thread Lower Looter with regular overlock thread.

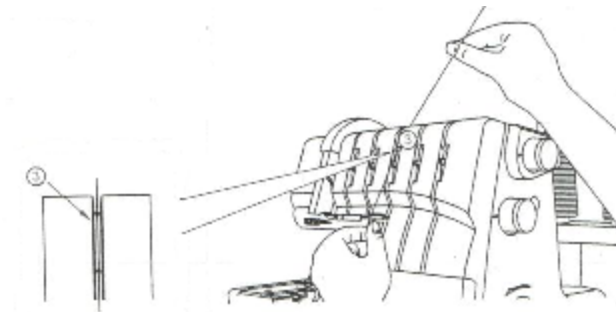
1. Raise the Presser Foot to release the Tension disks. Thread the Lower Looter as illustrated 1-10.
2. Pass thread from back to the front through the thread guide ①.



3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.

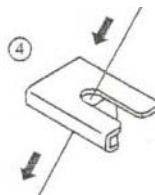


4. While holding the thread firmly, pull the thread between the tension disks.



5. Turn the handwheel toward you until the lower looper extends 5-10mm (approximately ½ inch) from the needle plate edge.
6. Thread the looper area of the machine following the red color coded thread guides 4-10.

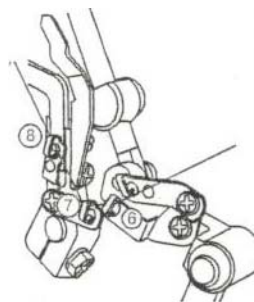
7. Place the thread slightly from left and to the right of threading guide ④.



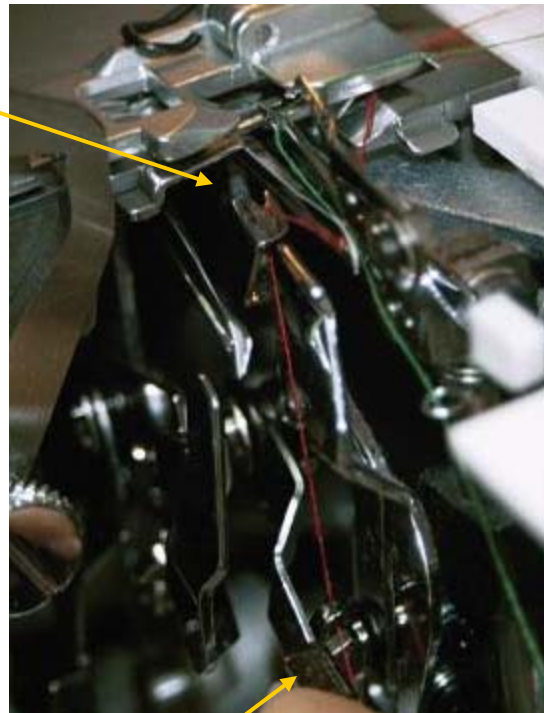
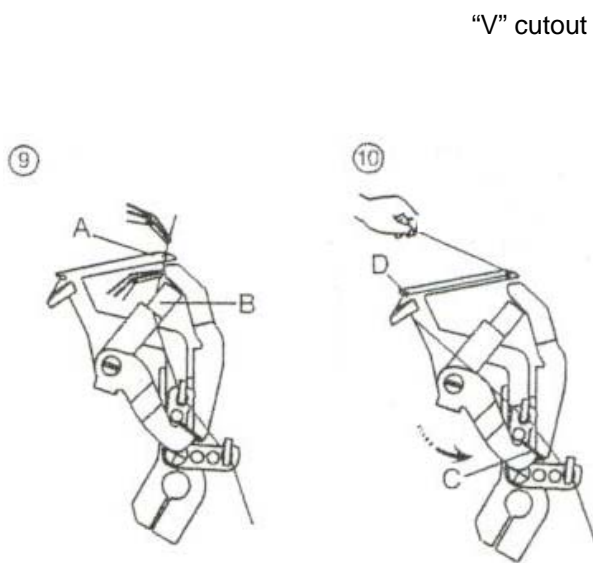
8. Place the thread slightly from the front and to the back of threading guide ⑤.



9. Place the thread through ⑥, ⑦ and ⑧.



10. Thread the looper eye (A) from front to back. Pull about 4 inches of thread. Position thread into V cutout (B) on threader. Firmly hold thread tail with left hand and pull Threader lever (C) up into place (D).



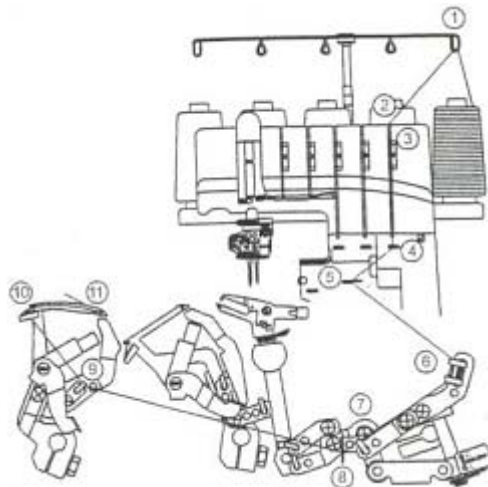
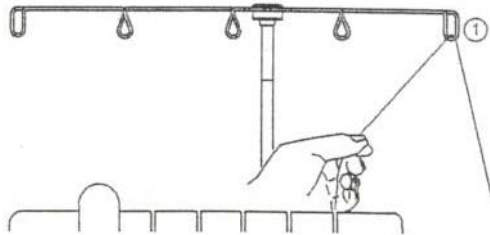
Threader Lever



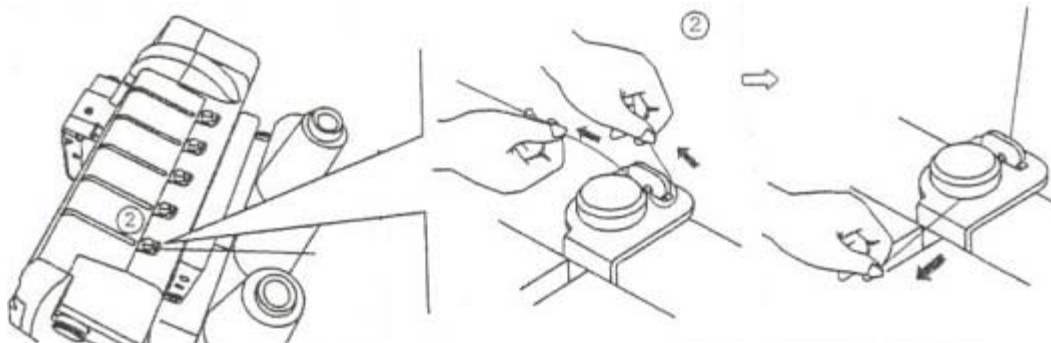
NOTE: Make sure the Upper Looper thread is behind the Lower Looper thread.

◆ Thread Chainstitch Looper with regular overlock thread.

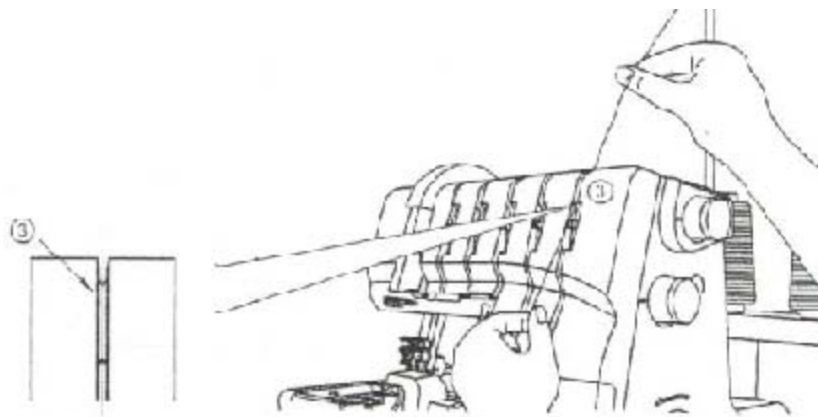
1. Raise the Presser Foot to release the tension disks. Pass the thread from the back to the front through the thread guide ①.



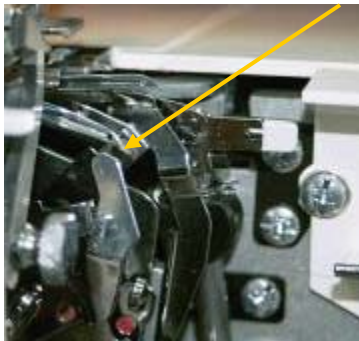
2. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull thread along the right side of the button as illustrated.



3. While holding the thread firmly, pull the thread between the tension disks.

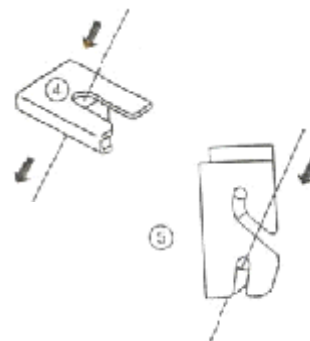


4. Turn the hand wheel toward you until the Chainstitch Looper extends out 10mm (approximately ½ inch) from the needle plate edge.



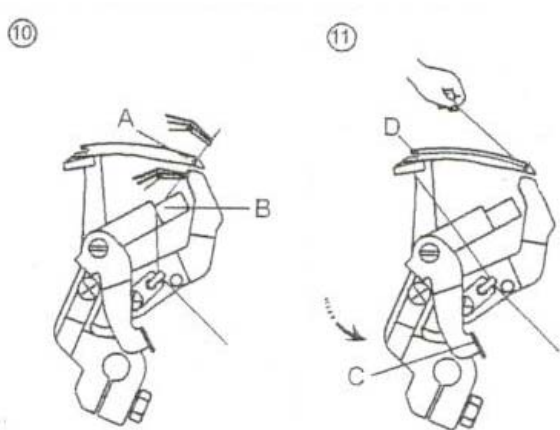
5. Thread the looper area of the machine following the brown color-coded thread guides 4-11. Use the tweezers provided in the accessory case to aid in threading the looper.

6. Place the thread through threading guide ④ and ⑤.

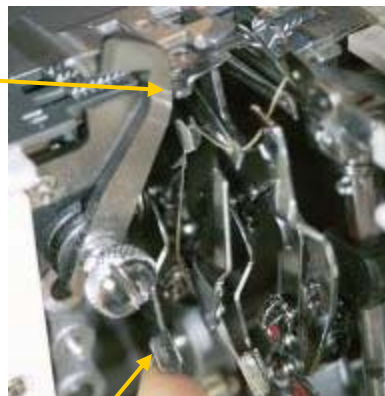


7. Continue threading guides ⑥, ⑦, ⑧ and ⑨.

8. Thread the looper eye (A) from front to back. Pull about 4 inches of thread through the looper. Position the thread into the V cutout (B) on the threader. Firmly hold the thread tail with your left hand and pull threader lever (C) up into place (D). Gently pull 5-6" of thread to the back of the machine.



"V" cutout

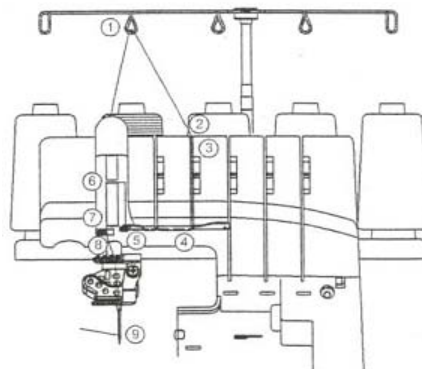
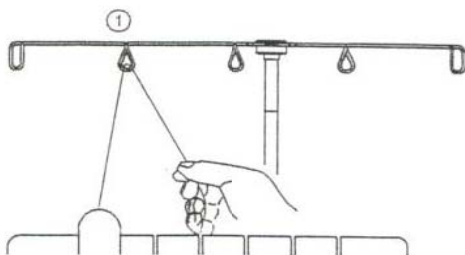


Threader lever

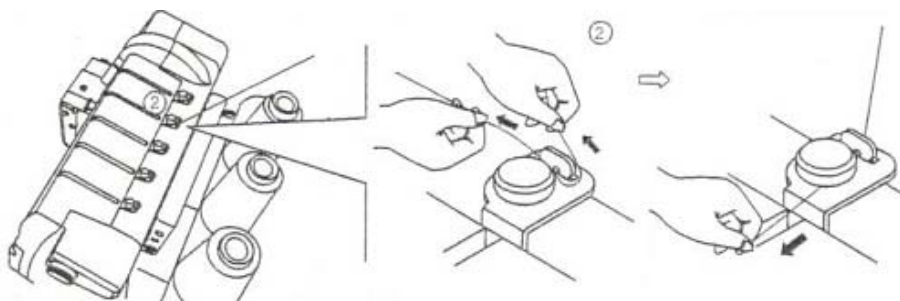
◆ Thread Right Overedge needle with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the right needle as illustrated 1-9.

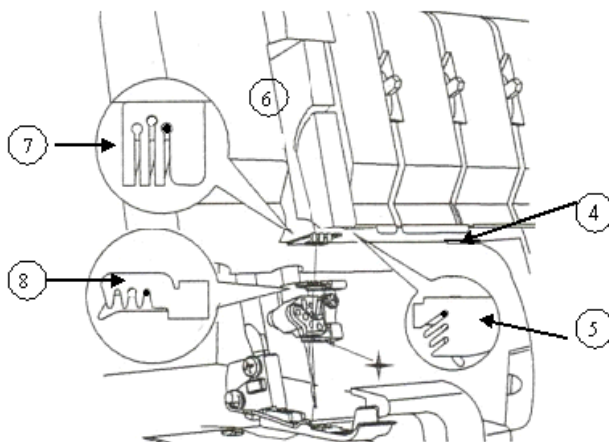
2. Pass thread from back to the front through the thread guide ①.



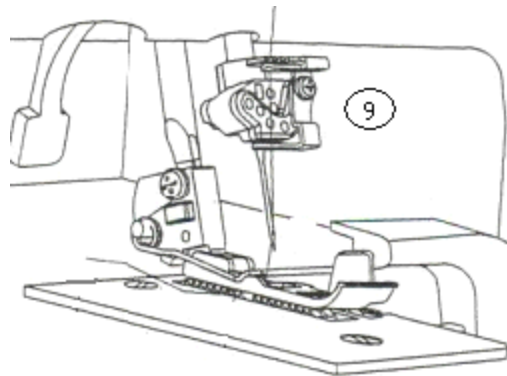
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



4. Continue to thread points 4-8. Slip the thread into the rear slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the right slot of the thread guides ⑦ and ⑧.



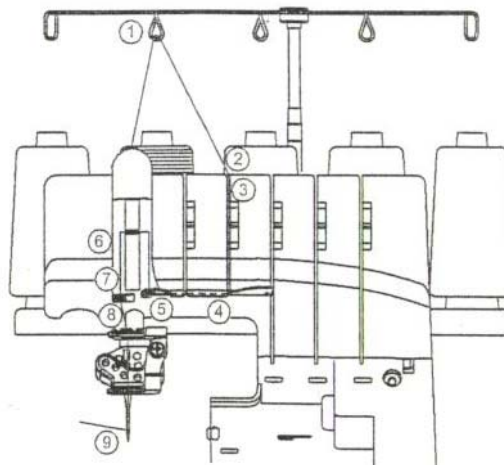
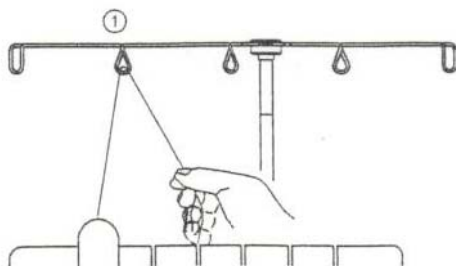
5. Before threading the eye of the needle, make sure the thread is behind the thread guide located on the bottom of the needle clamp.



6. Thread the eye of the Right Overedge Needle ⑨.

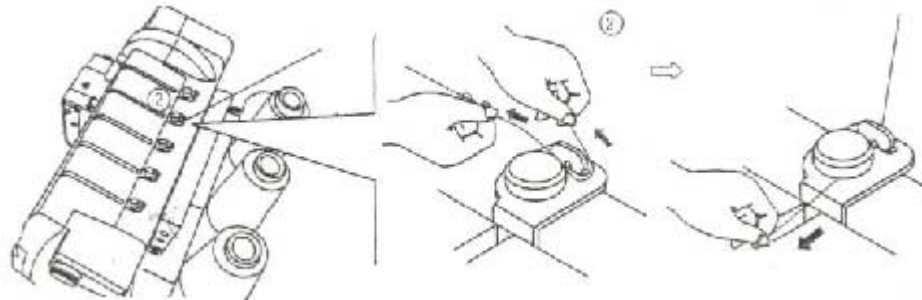
◆ Thread Middle Cover stitch needle with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the Cover Stitch Middle/Chain Stitch needle as illustrated 1-9.
2. Pass thread from back to the front through the thread guide ①.

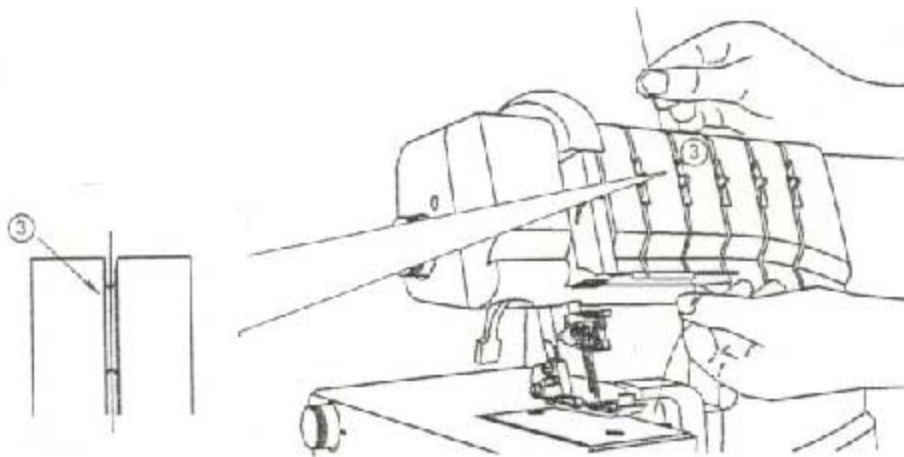




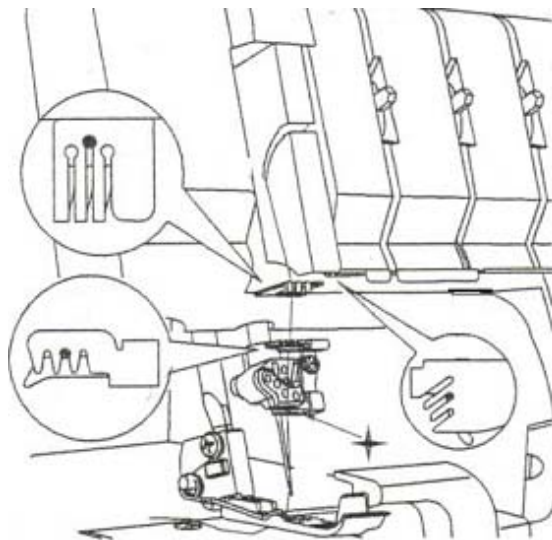
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



4. While holding the thread firmly, pull the thread between the tension disks.

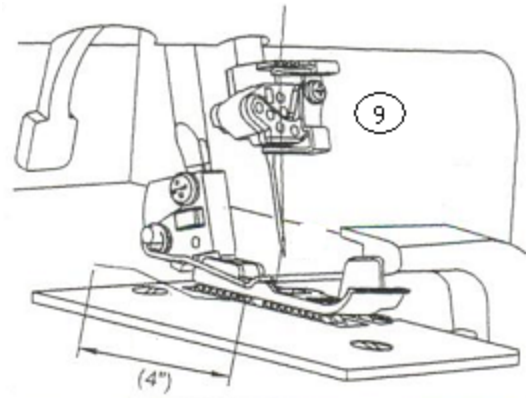
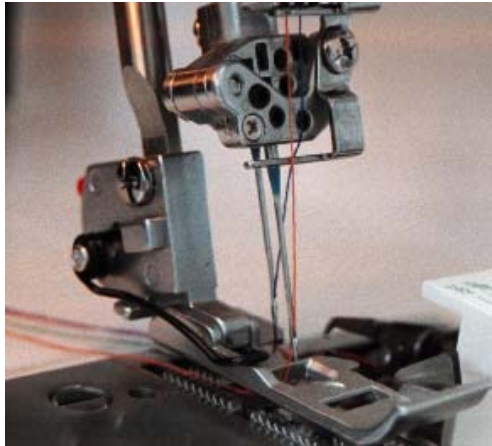


5. Continue to thread points 4-8. Slip the thread into the middle slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the middle slot of the thread guides ⑦ and ⑧.



6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp for the Cover Stitch or Chainstitch.

7. Thread the eye of the middle needle ⑨.



8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.

9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

# SINGER®

## TRY IT:

- ◆ Place two pieces of terrycloth right sides together.
- ◆ Align the fabric so that that the knife just slightly trims the fabric edge.
- ◆ Sew.



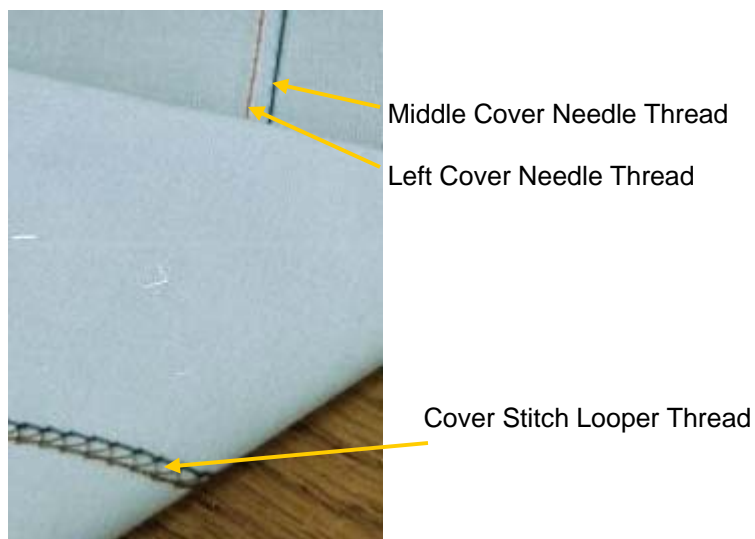
**SINGER®**

## Chapter 11: Cover Hem (Cover Stitch) Narrow



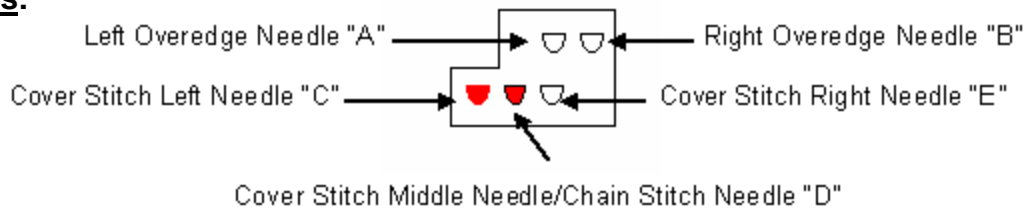
## Cover Hem Narrow

This professional Cover Hem is a necessary requirement for today's sewing. The stitch is often seen in ready-to-wear garments. Two needles create parallel rows of topstitching and one looper sews an edge finish on the underneath side. Depending on which needle position is selected, the width can be 5.6mm wide or 2.8mm wide.



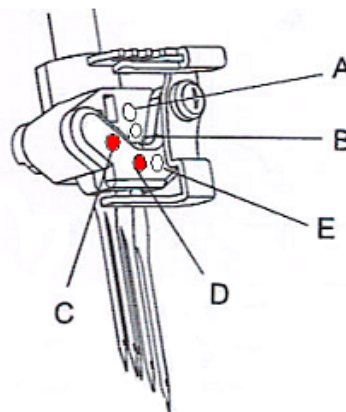
## SET UP:

### Needles:



### Set-up:

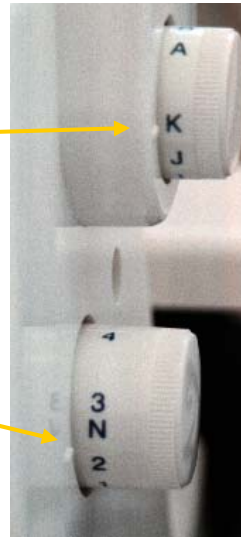
<b>ATD:</b> Auto Tension Dial	"K"
Left Cover Stitch Needle "C" (Orange)	Threaded
Middle Cover Stitch Needle "D" (Blue)	Threaded
Right Cover Stitch "E" Needle	Not Threaded
Overedge Left "A" Needle	Not Threaded
Overedge Right "B" Needle	Not Threaded
Upper Looper (Green)	Looper Disengaged and Not Threaded
Spreader	Not Used
Lower Looper	Not Threaded
Chain Stitch Looper (Brown)	Threaded
Upper Looper Clutch	"C"
Upper Knife	Non-working Position
Seam Guide Plate	Installed
Seam Width Dial	"N"
Stitch Length Dial	"N"
Presser Foot Pressure	"N"
Differential Feed Dial	"N"
Stitch Finger	"R"



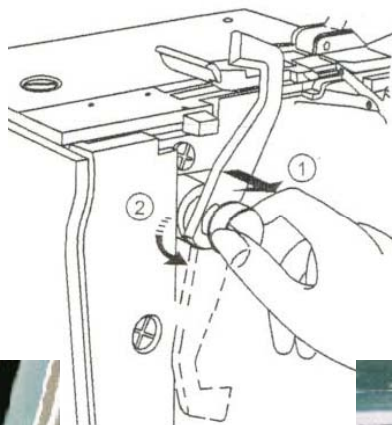
## Cover Hem Narrow

- ◆ Turn Auto Tension Dial to “K”.

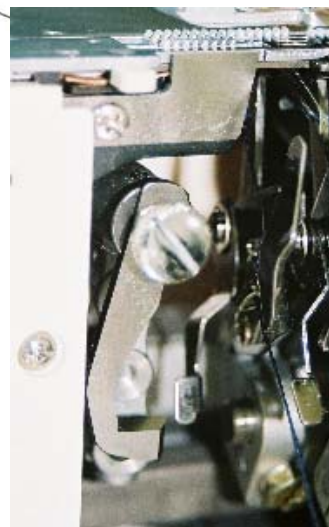
- ◆ Turn Stitch Length Dial to “2.5”.



- ◆ Disengage Upper Knife. The knife will not trim the fabric when it is disengaged.
  1. Open Looper Cover.
  2. Pull the movable knife holder (silver screw) to the right as far as it will go.
  3. Turn the holder counter clockwise until the knife clicks into a lock position.



Upper Knife Engaged



Upper Knife Disengaged

# SINGER®

- ◆ Turn Presser Foot Pressure Dial to “N”.



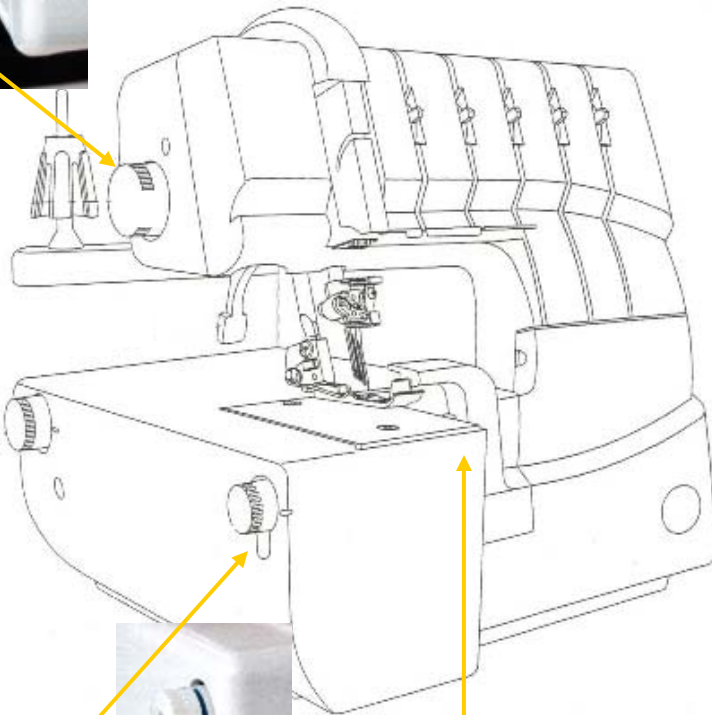
- ◆ Turn Differential Feed Dial to “N”.



- ◆ Turn Seam Width Dial to “N”.



- ◆ Set Stitch Finger to “R”.

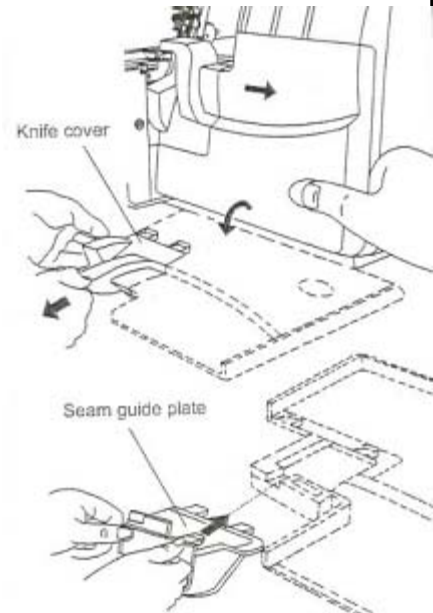




# SINGER®

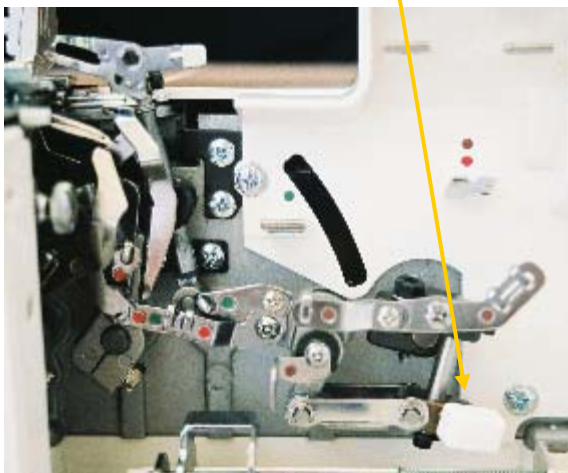
- ◆ Install the Seam Guide Plate. The Seam Guide Plate provides a flat surface for the fabric and seam guides. It can only be used when the knife and the lower looper are disengaged. The Seam Guide Plate is used when sewing the Chainstitch, Cover Stitch and the Triple Cover Stitch.

1. Open looper cover.
2. Remove Knife Cover by pulling it toward you.
3. Slide the Seam Guide Plate into place.

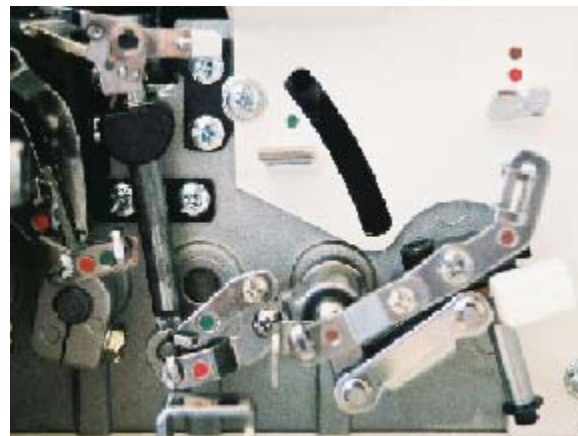
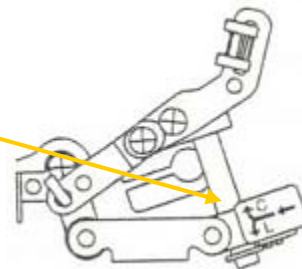


- ◆ Disengage Upper Looper. By disengaging the Upper Looper, the looper no longer moves when sewing. It is nonoperative. If the looper was still engaged it would hit the Seam Guide Plate.

1. Turn handwheel until the Upper Looper is in the highest position.
2. Push the clutch button to the left and up to disengage.



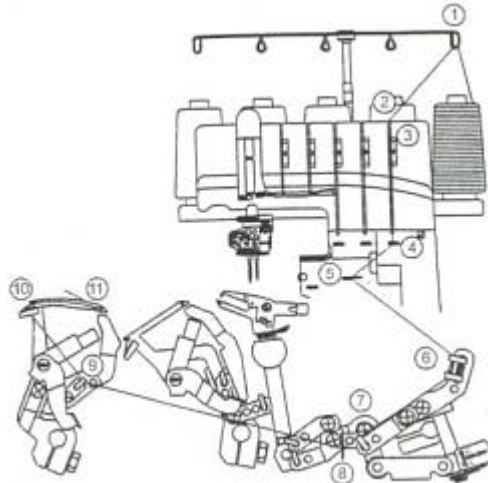
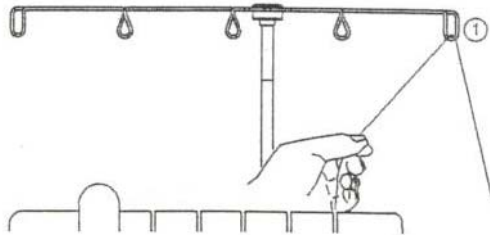
Upper Looper Engaged



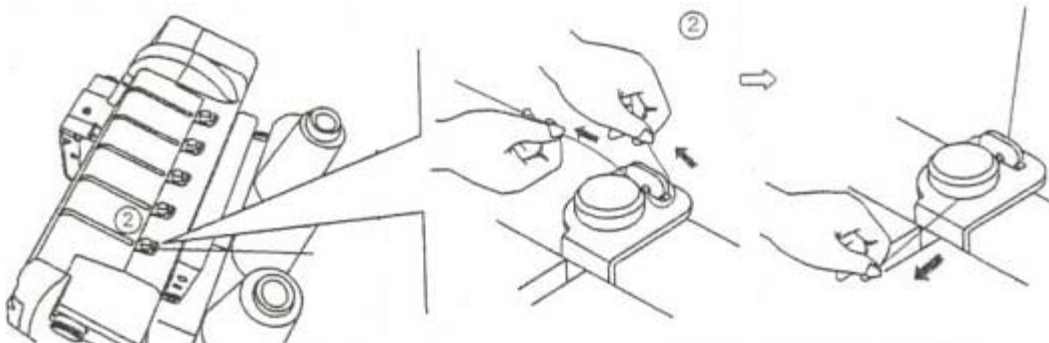
Upper Looper Disengaged

◆ Thread Chainstitch Looper with a regular overlock thread.

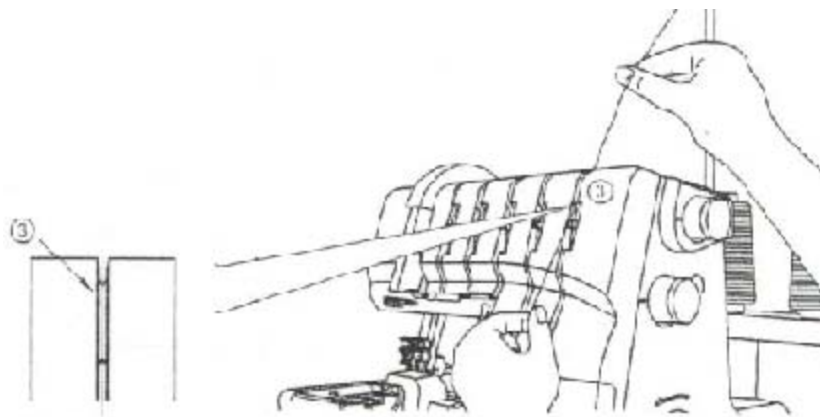
1. Raise the Presser Foot to release the tension disks. Pass the thread from the back to the front through the thread guide ①.



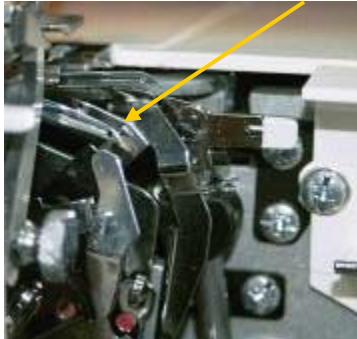
2. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull thread along the right side of the button as illustrated.



3. While holding the thread firmly, pull the thread between the tension disks.



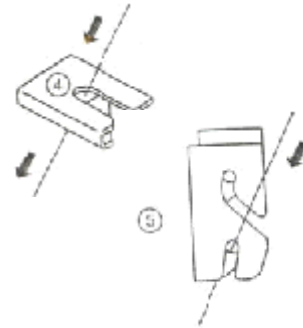
4. Turn the hand wheel toward you until the Chainstitch Looper extends out 10mm (approximately ½ inch) from the needle plate edge.



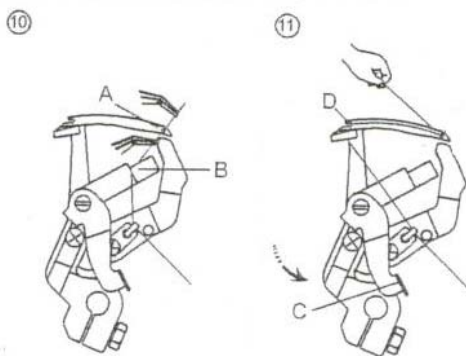
5. Thread the looper area of the machine following the brown color-coded thread guides 4-11. Use the tweezers provided in the accessory case to aid in threading the looper.

6. Place the thread through threading guides ④ and ⑤.

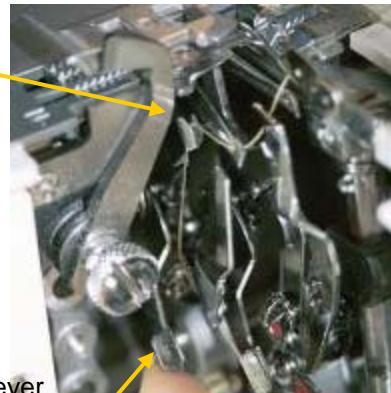
7. Continue threading guides ⑥, ⑦, ⑧ and ⑨.



8. Thread the looper eye (A) from front to back. Pull about 4 inches of thread through the looper. Position the thread into the V cutout (B) on the threader. Firmly hold the thread tail with your left hand and pull threader lever (C) up into place (D). Gently pull 5-6" of thread to the back of the machine.



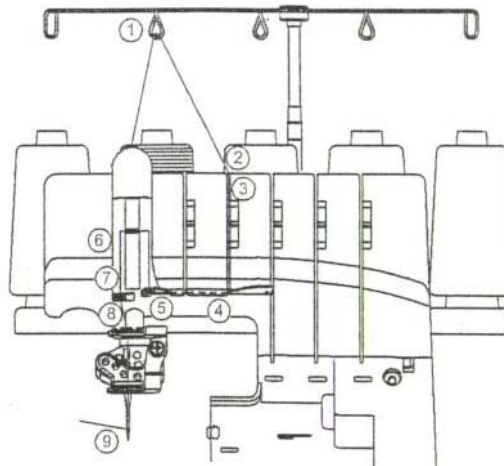
"V" cutout



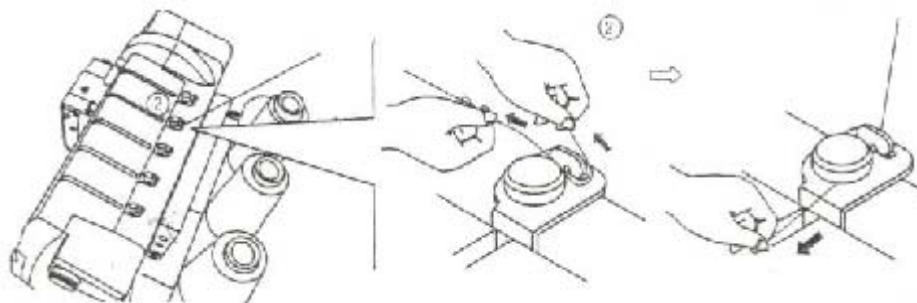
Threader Lever

◆ Thread Middle Cover needle with regular overlock thread.

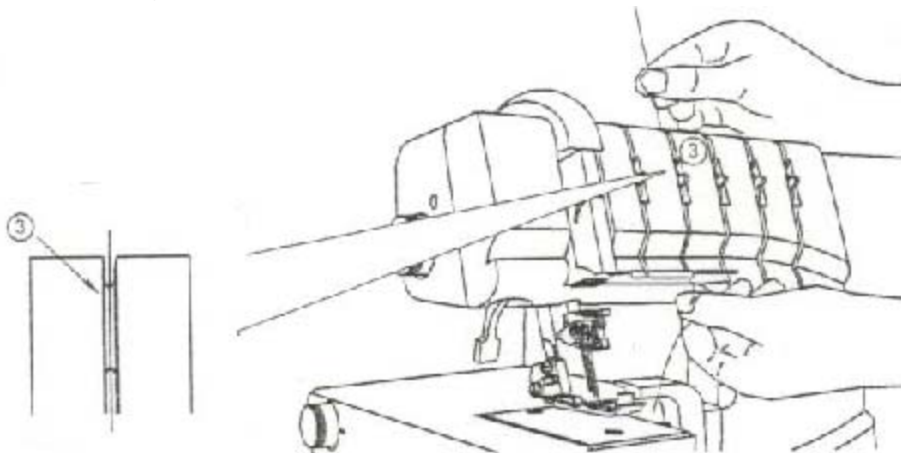
1. Raise the Presser Foot to release the tension disks. Thread the Cover Stitch Middle/Chain Stitch needle as illustrated 1-9.
2. Pass thread from back to the front through the thread guide ①.



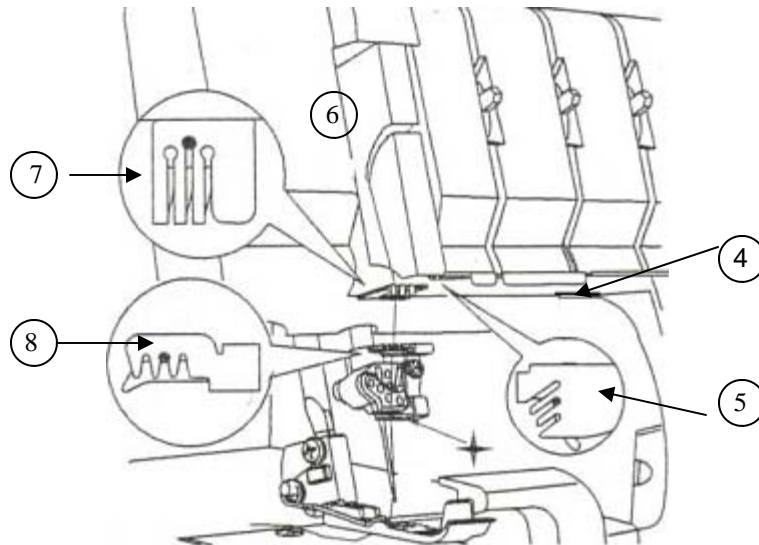
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



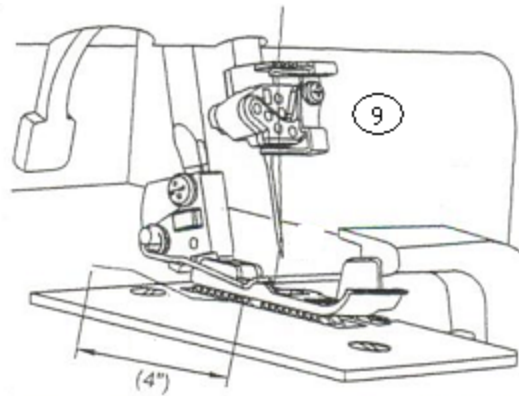
4. While holding the thread firmly, pull the thread between the tension disks.



5. Continue to thread points 4-8. Slip the thread into the middle slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the middle slot of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp for the Cover Stitch or Chainstitch.



7. Thread the eye of the middle needle ⑨.

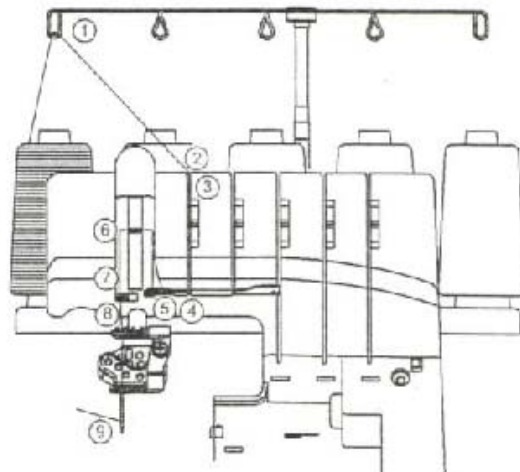
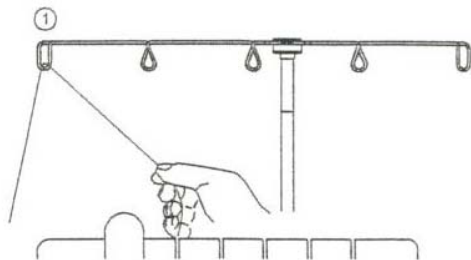


8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

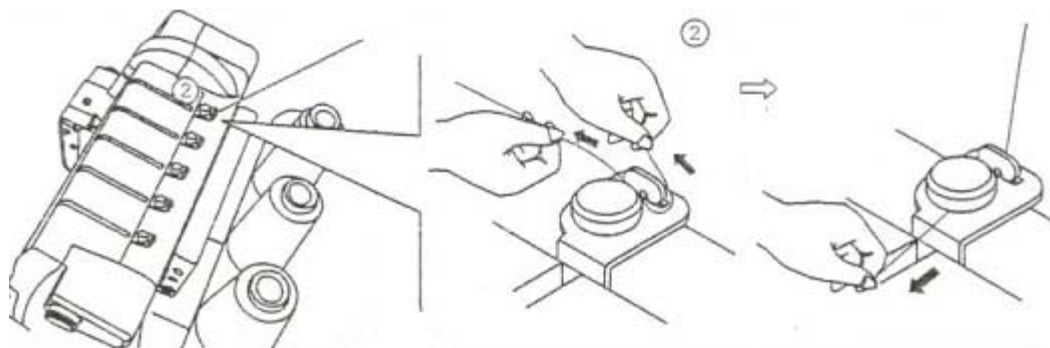
◆ Thread Left Cover Stitch needle with regular thread.

1. Raise the Presser Foot to release the tension disks. Thread the left needle as illustrated 1-9.

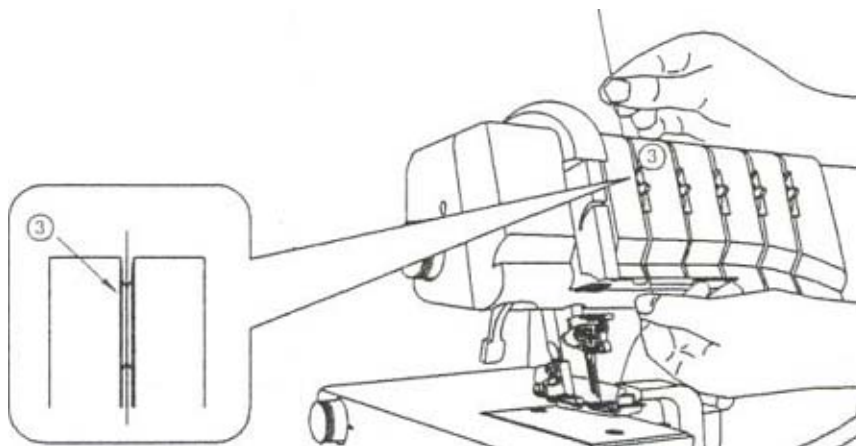
2. Pass thread from back to the front through the thread guide ①.



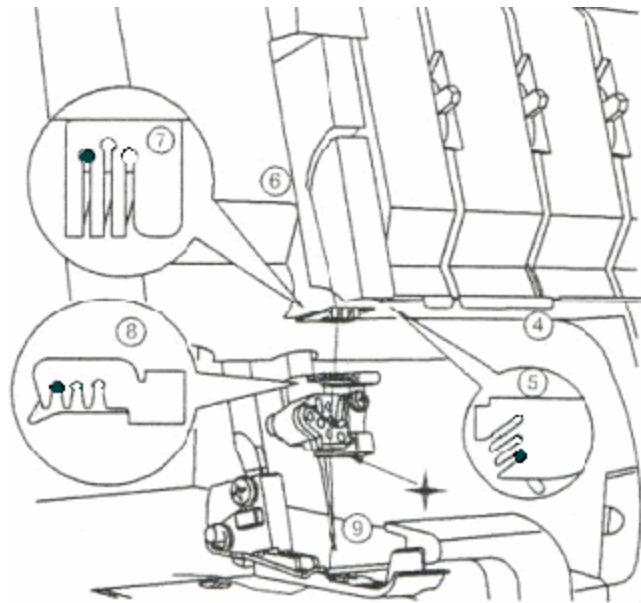
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



4. While holding the thread firmly, pull the thread between the tension disks.



5. Continue to thread points 4-8. Slip the thread into the forward slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the left slot of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp.



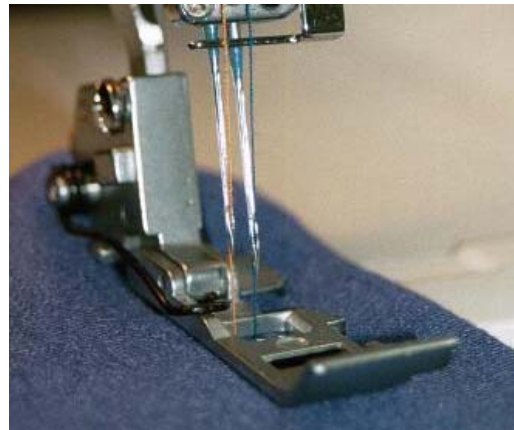
7. Thread the eye of the Left Cover Stitch Needle ⑨.



8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

## TRY IT:

- ◆ Press a 1" hem into a knit fabric.
- ◆ Lift the Presser Foot to the highest position.
- ◆ Position the fabric right side up and under the needles.
- ◆ Align the fabric so that the fabric fold is 1" to the right of the needles. Use markings on cover for positioning and guiding fabric.
- ◆ Lower the Presser Foot.
- ◆ Turn the handwheel to assist in the stitch forming on the fabric. When sewing the Cover Hem Stitch it is necessary to have fabric under the needles while sewing.
- ◆ Sew, using the seam guides for a straight hem and to ensure the fabric's raw edge is finished.
- ◆ As the machine sews it will finish the fabric's raw edge and sew two rows of topstitching.





**SINGER®**

## Chapter 12: Cover Hem (Cover Stitch) Wide

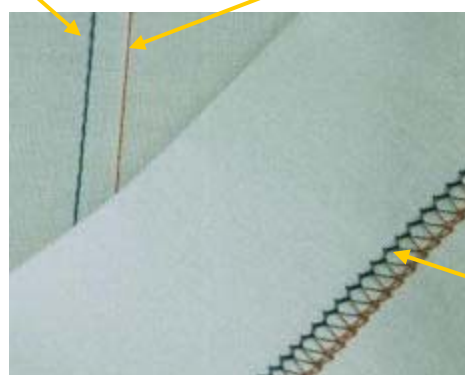


## Cover Hem Wide

This professional Cover Hem stitch is a necessary requirement for today's sewing. The stitch is often seen in ready-to-wear garments. Two needles create parallel rows of top stitching and one looper sew an edge finish on the underneath side. Depending on which needle position is selected the width can be 5.6mm wide or 2.8 mm wide.



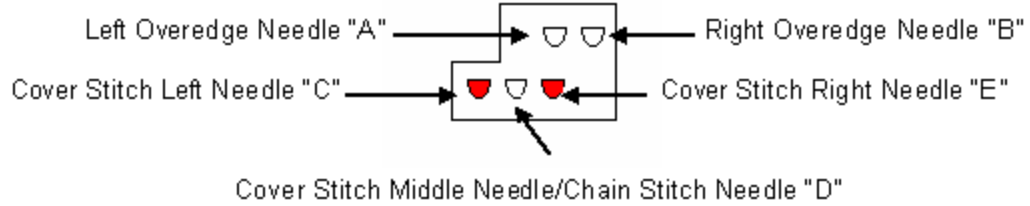
Left Cover Needle Thread    Right Cover Needle Thread



Cover Stitch Looper Thread

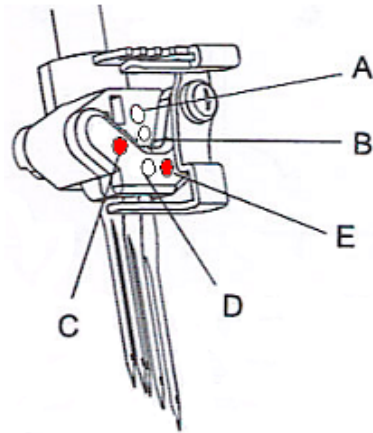
## SET UP:

### Needle:



### Set at:

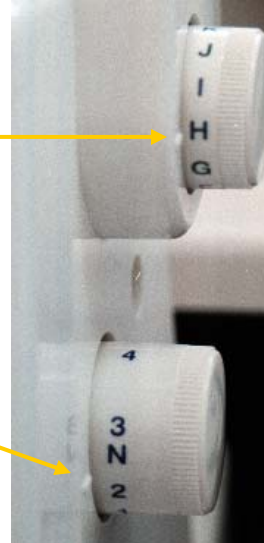
<b>ATD:</b> Auto Tension Dial	"H"
Left Cover Stitch Needle "C" (Orange)	Threaded
Middle Cover Stitch Needle "D"	Not Threaded
Right Cover Stitch Needle "E" (Green)	Threaded
Overedge Left Needle "A" (Orange)	Threaded
Overedge Right Needle "B" (Blue)	Threaded
Upper Looper	Looper Disengaged and Not Threaded
Spreader	Not Used
Lower Looper	Not Threaded
Chain Stitch Looper (Brown)	Threaded
Upper Looper Clutch	"C"
Upper Knife	Non-working Position
Seam Guide Plate	Installed
Seam Width Dial	"N"
Stitch Length Dial	"N"
Presser Foot Pressure	"N"
Differential Feed Dial	"N"
Stitch Finger	"R"



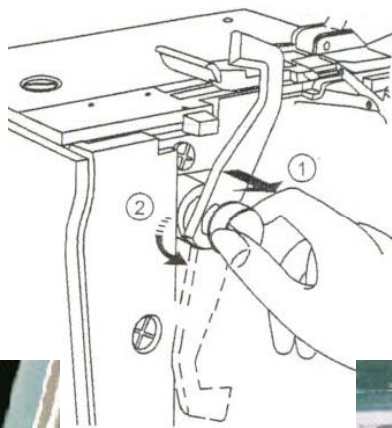
## Double Chain Stitch

- ◆ Turn Auto Tension Dial to “H”.

- ◆ Turn Stitch Length Dial to “N”.



- ◆ Disengage Upper Knife. The knife will not trim the fabric when it is disengaged.
  1. Open Looper Cover.
  2. Pull the movable knife holder (silver screw) to the right as far as it will go.
  3. Turn the holder counter clockwise until the knife clicks into a lock position.



Upper Knife Engaged



Upper Knife Disengaged

- ◆ Turn Presser Foot Pressure Dial to “N”.



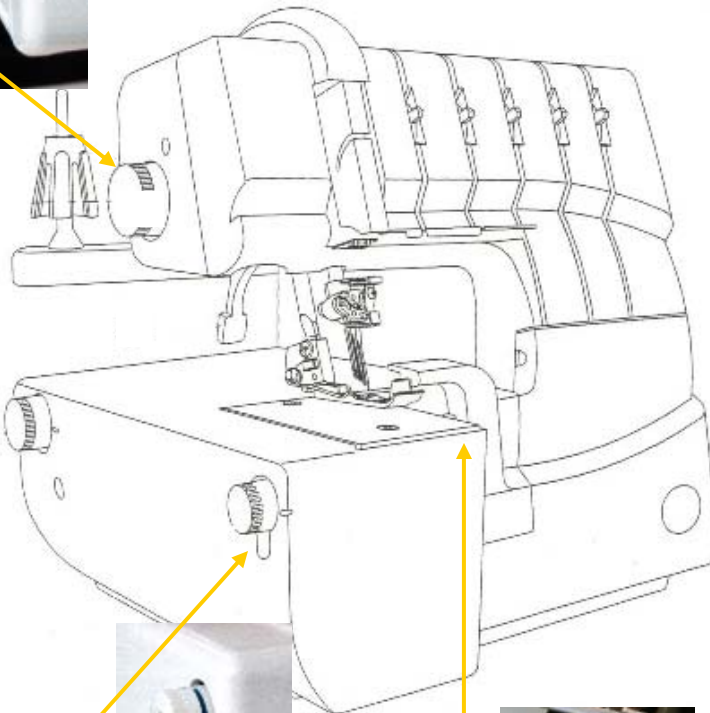
- ◆ Turn Differential Feed Dial to “N”.



- ◆ Turn Seam Width Dial to “N”.



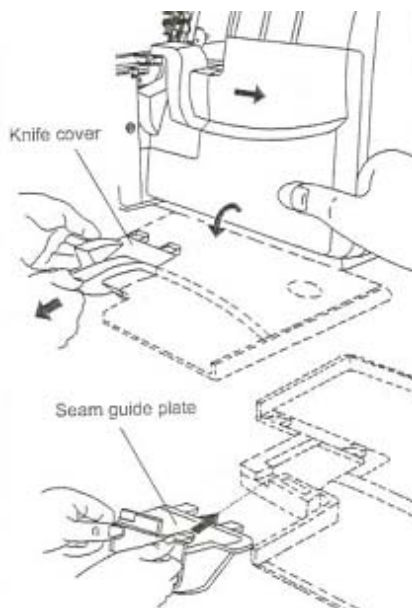
- ◆ Set Stitch Finger to “R”.



# SINGER®

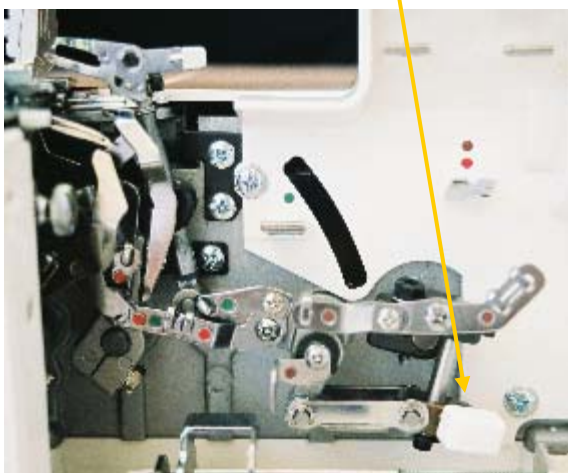
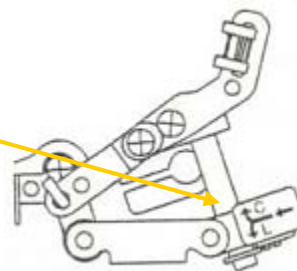
- ◆ Install the Seam Guide Plate. The Seam Guide Plate provides a flat surface for the fabric and seam guides. It can only be used when the knife and the lower looper are disengaged. The Seam Guide Plate is used when sewing the Chainstitch, Cover Stitch and the Triple Cover Stitch.

1. Open Looper Cover.
2. Remove Knife Cover by pulling it toward you.
3. Slide the Seam Guide Plate into place.

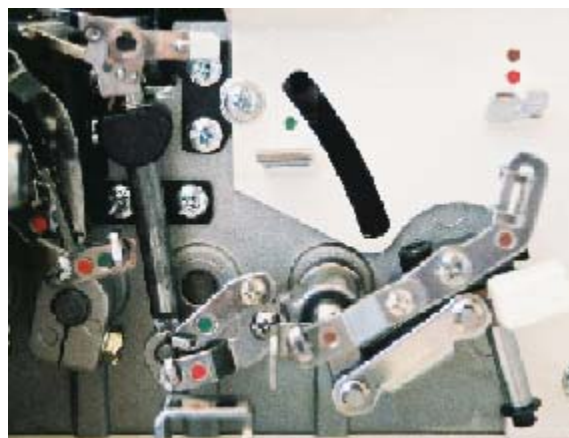


- ◆ Disengage Upper Looper. By disengaging the Upper Looper the looper no longer moves when sewing, it is nonoperative. If the looper was still engaged it would hit the Seam Guide Plate.

1. Turn handwheel until the Upper Looper is in the highest position.
2. Push the clutch button to the left and up to disengage.



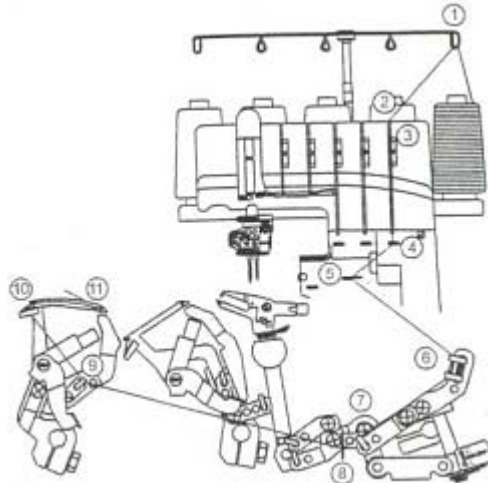
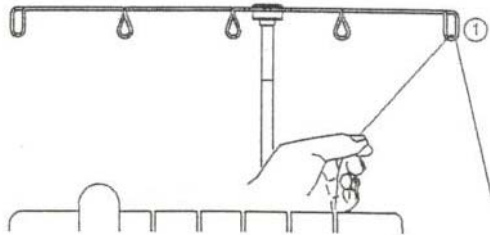
Upper Looper Engaged



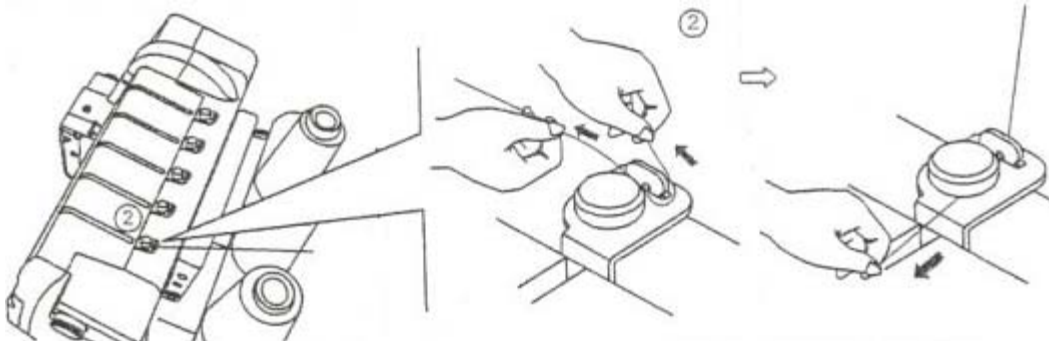
Upper Looper Disengaged

◆ Thread Chainstitch Looper with a regular overlock thread.

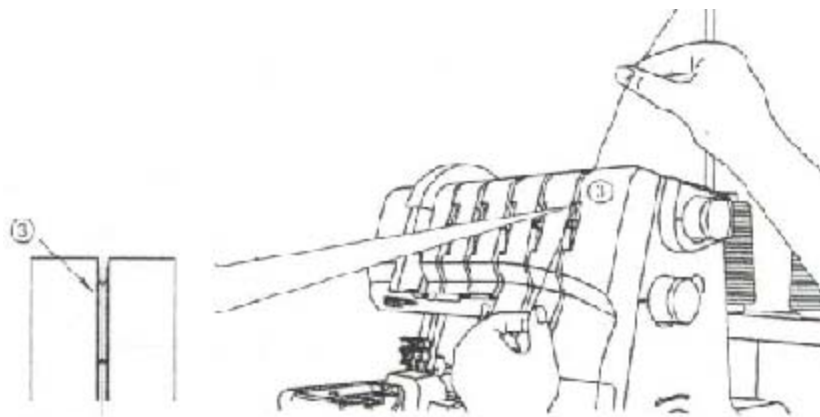
1. Raise the Presser Foot to release the tension disks. Pass the thread from the back to the front through the thread guide ①.



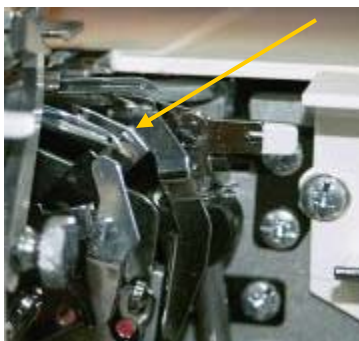
2. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull thread along the right side of the button as illustrated.



3. While holding the thread firmly, pull the thread between the tension disks.

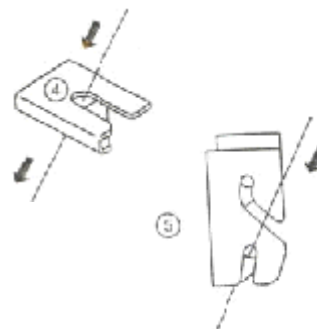


4. Turn the hand wheel toward you until the Chainstitch Looper extends out 10mm (approximately ½ inch) from the needle plate edge.



5. Thread the looper area of the machine following the brown color-coded thread guides 4-11. Use the tweezers provided in the accessory case to aid in threading the looper.

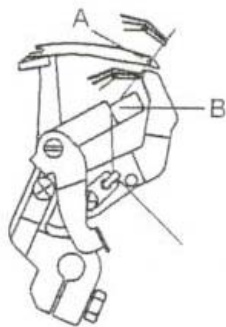
6. Place the thread through threading guide ④ and ⑤.



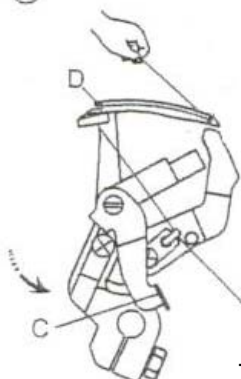
7. Continue threading guides ⑥, ⑦, ⑧ and ⑨.

8. Thread the looper eye (A) from front to back. Pull about 4 inches of thread through the looper. Position the thread into the V cutout (B) on the threader. Firmly hold the thread tail with your left hand and pull threader lever (C) up into place (D). Gently pull 5-6" of thread to the back of the machine.

⑩

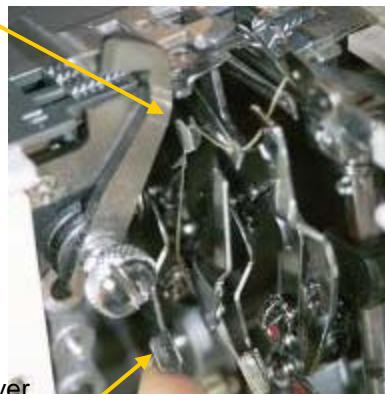


⑪



"V" cutout

Threader Lever

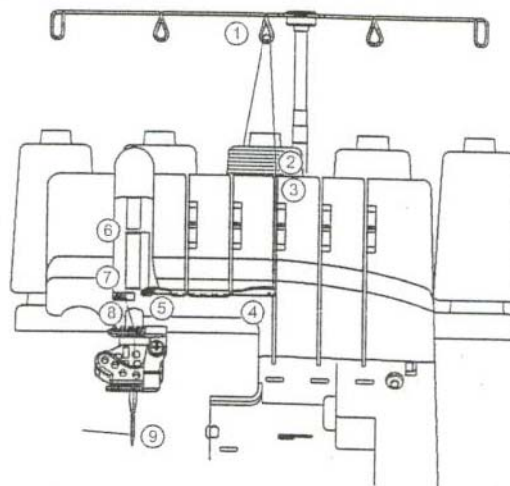
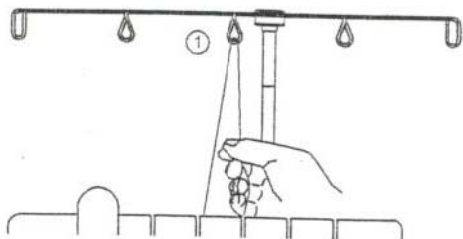




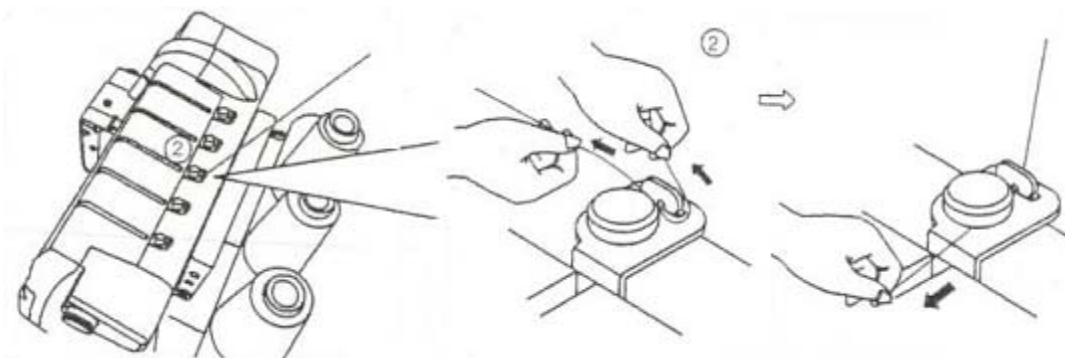
◆ Thread Right Cover Stitch needle with regular thread.

1. Raise the Presser Foot to release the tension disks. Thread the left needle as illustrated 1-9.

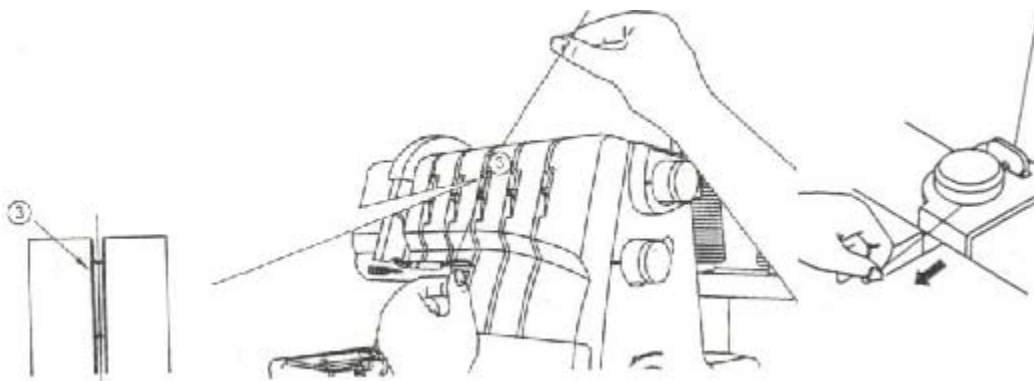
2. Pass thread from back to the front through the thread guide ①.



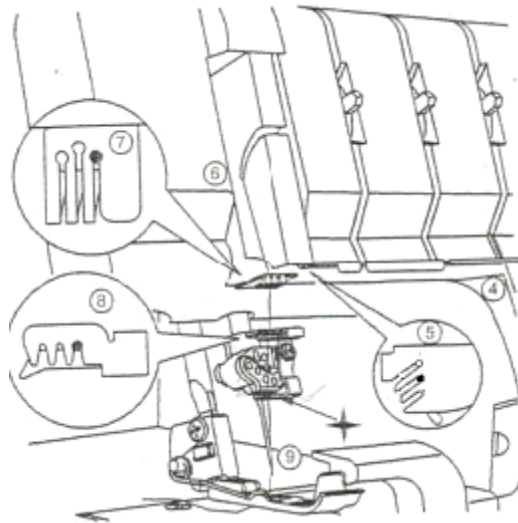
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



4. While holding the thread firmly, pull the thread between the tension disks.



5. Continue to thread points 4-8. Slip the thread into the middle slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the middle slot of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp.



7. Thread the eye of the Right Cover Stitch Needle ⑨.

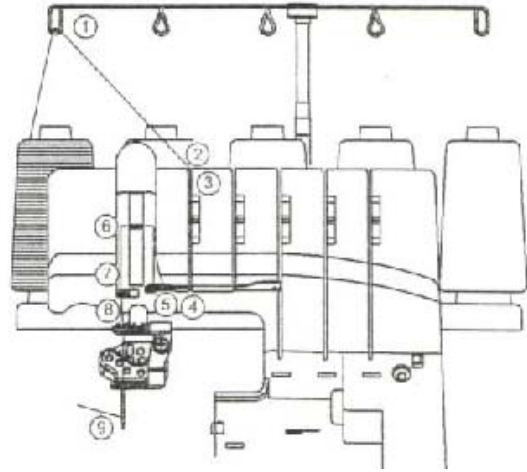
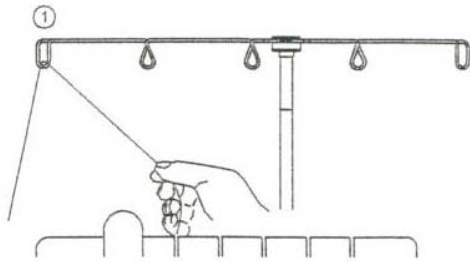


8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

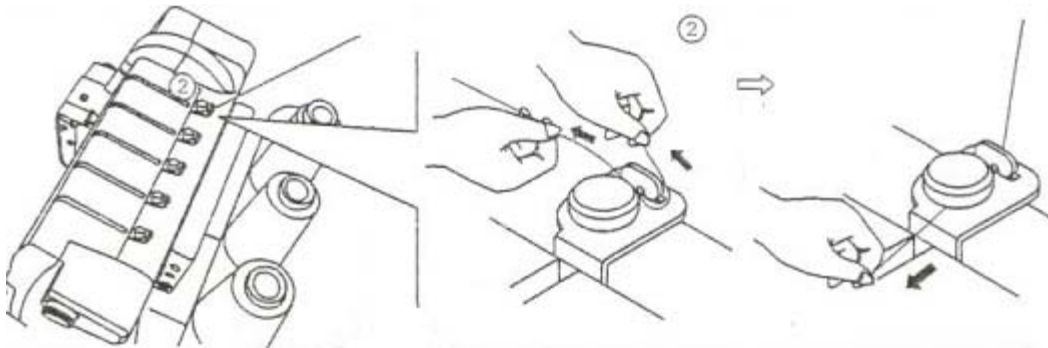
◆ Thread Left Cover Stitch needle with regular thread.

1. Raise the Presser Foot to release the tension disks. Thread the left needle as illustrated 1-9.

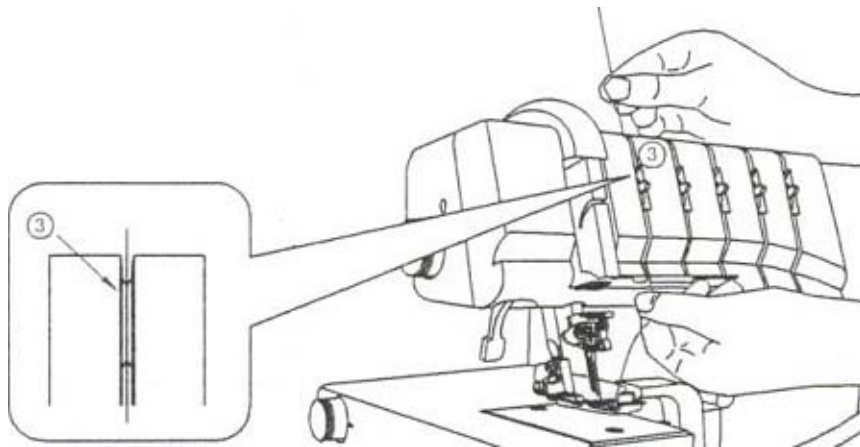
2. Pass thread from back to the front through the thread guide ①.



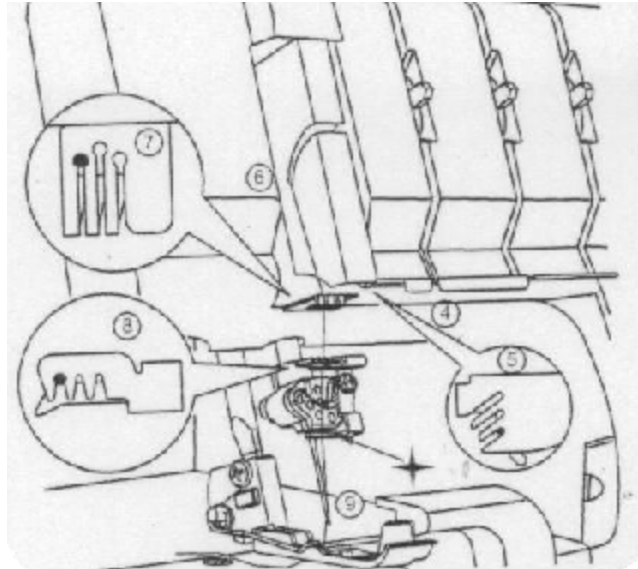
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



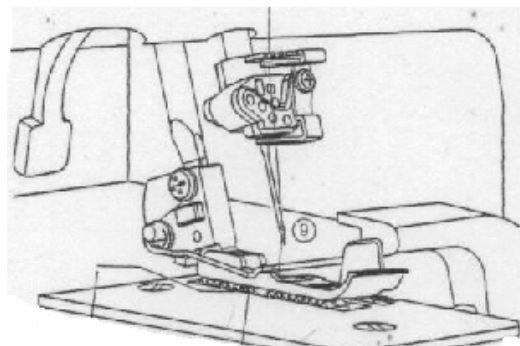
4. While holding the thread firmly, pull the thread between the tension disks.



5. Continue to thread points 4-8. Slip the thread into the front slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the left slots of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp.



7. Thread the eye of the Left Cover Stitch Needle ⑨.



8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

## TRY IT:

- ◆ Press a 1" hem into a knit fabric.
- ◆ Lift the Presser Foot to the highest position.
- ◆ Position the fabric right side up and under the needles.
- ◆ Align the fabric so that that the fabric fold is 1" to the right of the needles.
- ◆ Lower the Presser Foot.
- ◆ Turn the handwheel to assist in the stitch forming on the fabric. When sewing the Cover Hem Stitch it is necessary to have fabric under the needles while sewing. Sew off onto a scrap fabric.
- ◆ Sew using the seam guides for a straight hem and to ensure the fabric's raw edge is finished.
- ◆ As the machine sews it will finish the fabric's raw edge and sew three rows of topstitching.



**SINGER®**

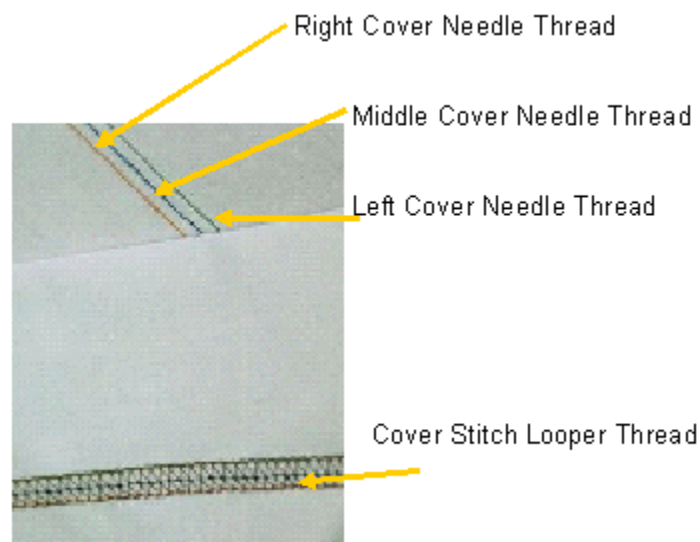
## Chapter 13: Triple Cover Hem Stitch



## Triple Cover Hem

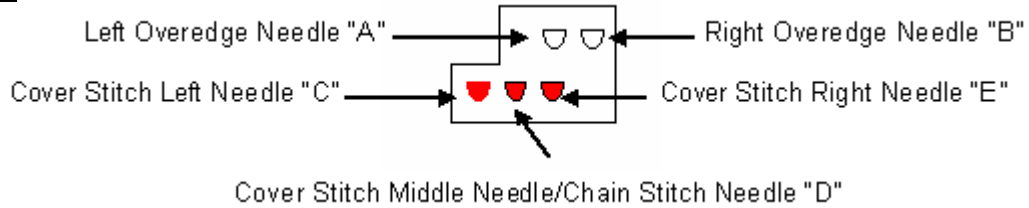
This innovative stitch provides a very wide 5.6 mm professional and creative triple topstitch to sewing projects. Three needles create parallel rows of topstitching and one looper sews an edge finish on the underneath side. This is ideal for heavier fabrics traditionally used in home decorating. It also adds a unique accent for garment construction. In addition to sewing on woven fabrics, the Triple Cover Hem makes a beautiful topstitch and a strong hem on stretch fabrics. This stitch emulates hem finishing as seen on ready-to-wear garments.

:



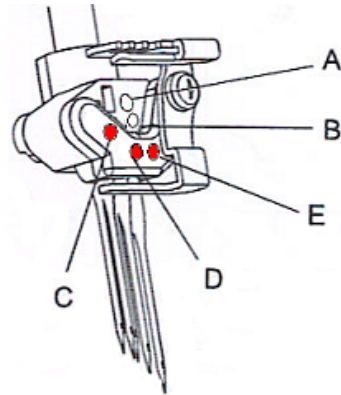
## SET UP:

### Needles:



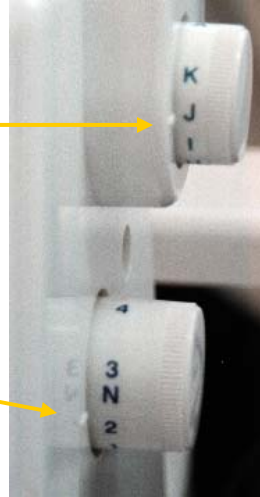
### Set at:

<b>ATD:</b> Auto Tension Dial	"J"
Left Cover Stitch Needle "C" (Orange)	Threaded
Middle Cover Stitch Nee- dle "D" (Blue)	Threaded
Right Cover Stitch Needle "E" (Green)	Threaded
Upper Looper	Looper Disengaged and Not Threaded
Spreader	Not Used
Lower Looper	Not Threaded
Chain Stitch Looper (Brown)	Threaded
Upper Looper Clutch	"C"
Upper Knife	Non-working Position
Seam Guide Plate	Installed
Seam Width Dial	"N"
Stitch Length Dial	"N"
Presser Foot Pressure	"N"
Differential Feed Dial	"N"
Stitch Finger	"R"



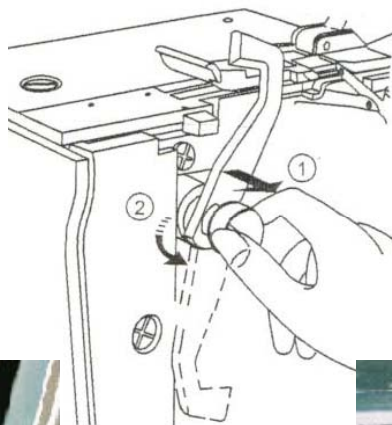


- ◆ Turn Auto Tension Dial to “J”.



- ◆ Turn Stitch Length Dial to “N”.

- ◆ Disengage Upper Knife. The knife will not trim the fabric when it is disengaged.
  1. Open Looper Cover.
  2. Pull the movable knife holder (silver screw) to the right as far as it will go.
  3. Turn the holder counter clockwise until the knife clicks into a lock position.



Upper Knife Engaged



Upper Knife Disengaged

# SINGER®

- ◆ Turn Presser Foot Pressure Dial to “N”.



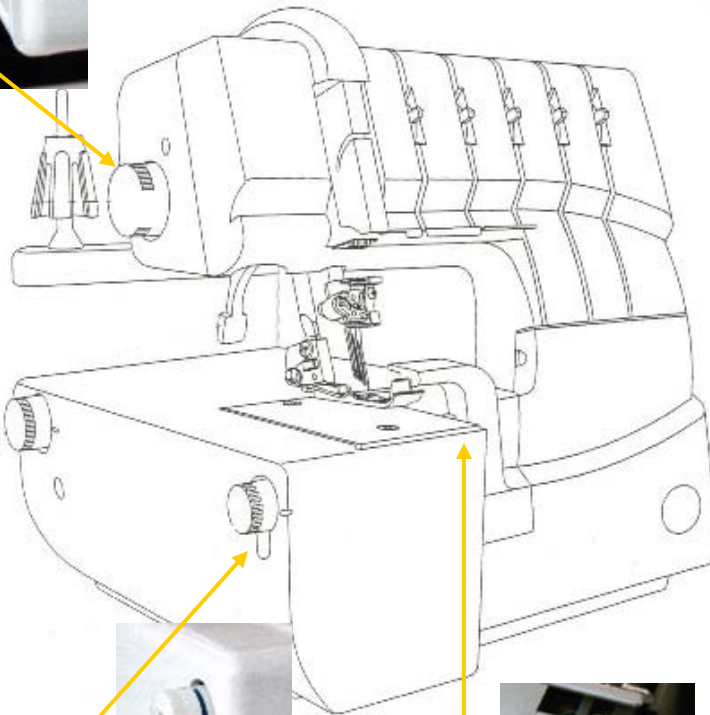
- ◆ Turn Differential Feed Dial to “N”.



- ◆ Turn Seam Width Dial to “N”.



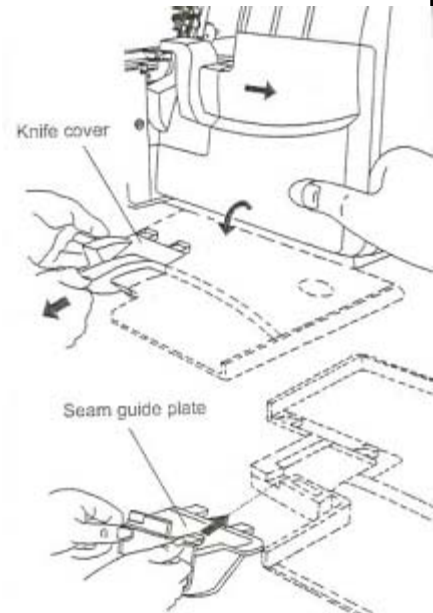
- ◆ Set Stitch Finger to “R”.



# SINGER®

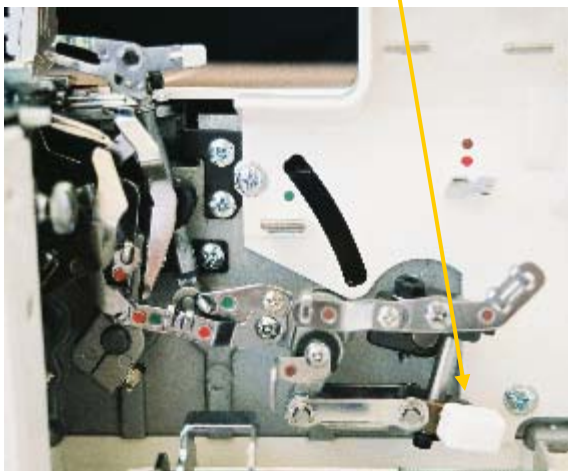
- ◆ Install the Seam Guide Plate. The Seam Guide Plate provides a flat surface for the fabric and seam guides. It can only be used when the knife and the lower looper are disengaged. The Seam Guide Plate is used when sewing the Chainstitch, Cover Stitch and the Triple Cover Stitch.

1. Open Looper Cover.
2. Remove Knife Cover by pulling it toward you.
3. Slide the Seam Guide Plate into place.

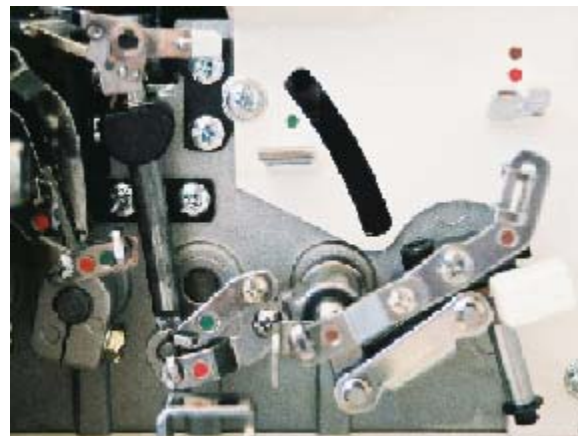
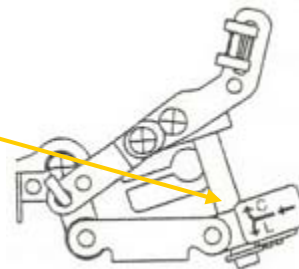


- ◆ Disengage Upper Looper. By disengaging the Upper Looper the looper no longer moves when sewing. It is nonoperative. If the looper was still engaged it would hit the Seam Guide Plate.

1. Turn handwheel until the Upper Looper is in the highest position.
2. Push the clutch button to the left and up to disengage.



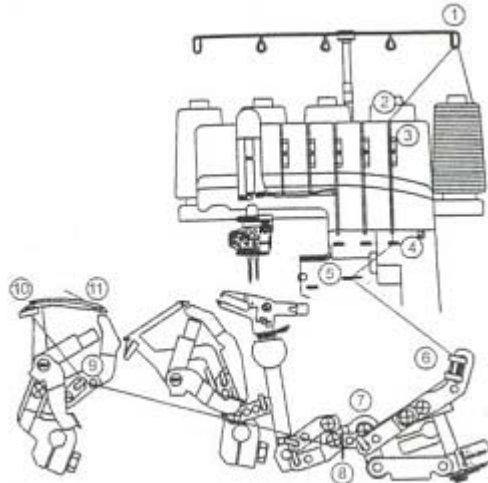
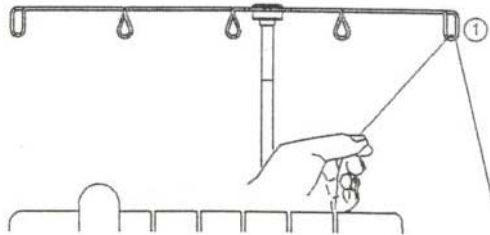
Upper Looper Engaged



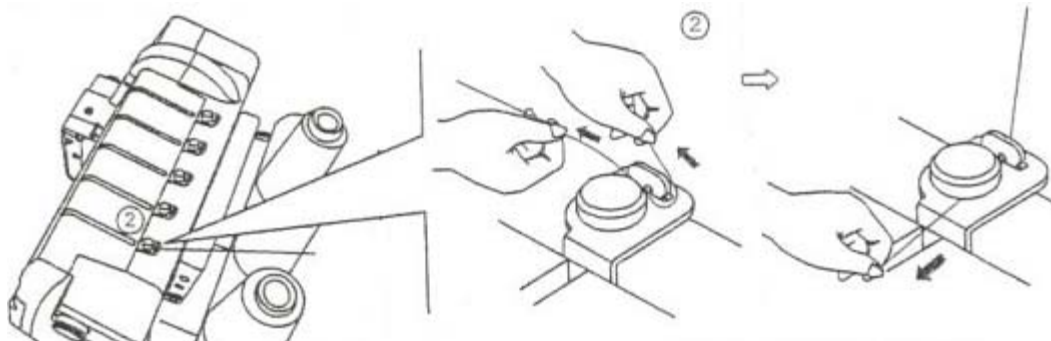
Upper Looper Disengaged

◆ Thread Chainstitch Looper with a regular overlock thread.

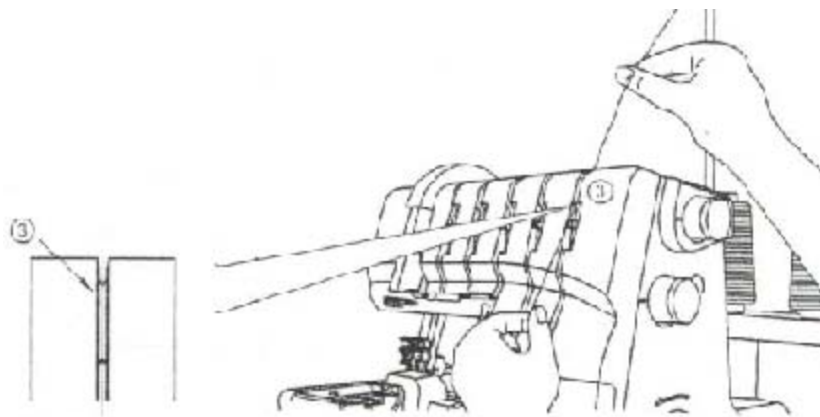
1. Raise the Presser Foot to release the tension disks. Pass the thread from the back to the front through the thread guide ①.



2. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull thread along the right side of the button as illustrated.



3. While holding the thread firmly, pull the thread between the tension disks.

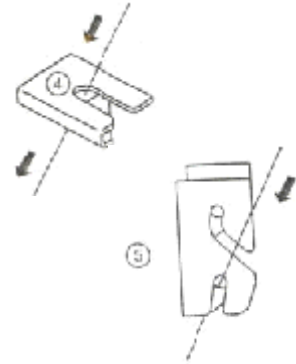


4. Turn the hand wheel toward you until the Chainstitch Looper extends out 10mm (approximately ½ inch) from the needle plate edge.



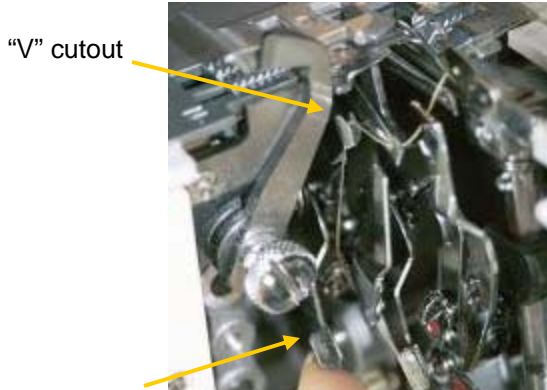
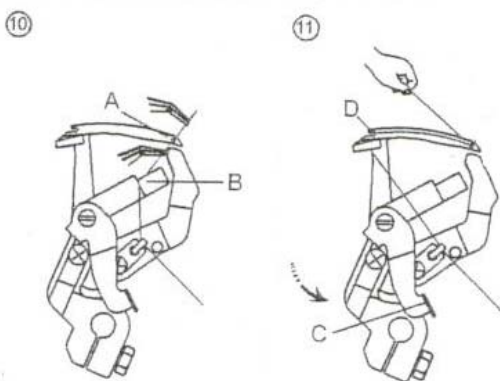
5. Thread the looper area of the machine following the brown color-coded thread guides 4-11. Use the tweezers provided in the accessory case to aid in threading the looper.

6. Place the thread through threading guides ④ and ⑤.



7. Continue threading guides ⑥, ⑦, ⑧ and ⑨.

8. Thread the looper eye (A) from front to back. Pull about 4 inches of thread through the looper. Position the thread into the V cutout (B) on the threader. Firmly hold the thread tail with your left hand and pull threader lever (C) up into place (D). Gently pull 5-6" of thread to the back of the machine.

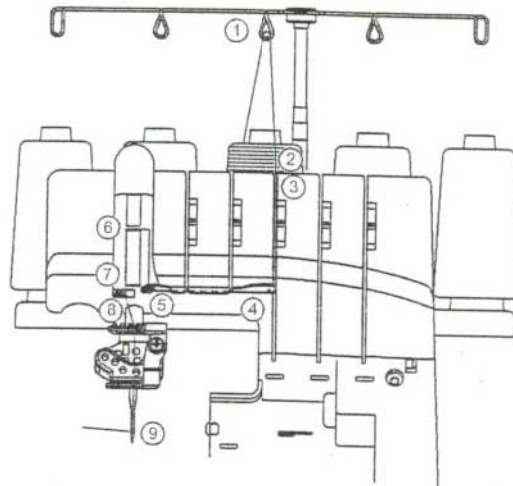
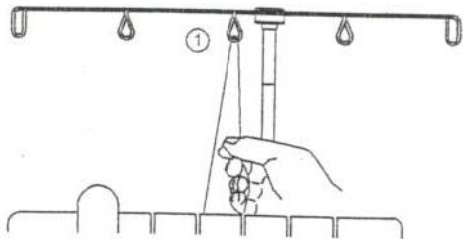


Threader Lever

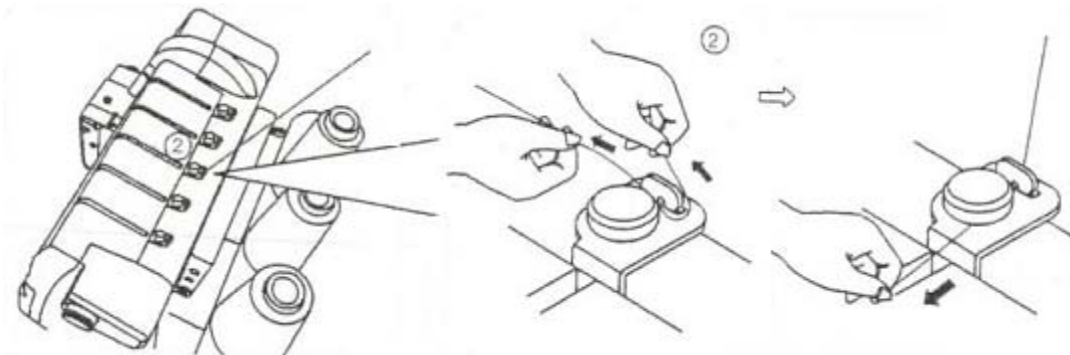
◆ Thread Right Cover Stitch needle with regular thread.

1. Raise the Presser Foot to release the tension disks. Thread the left needle as illustrated 1-9.

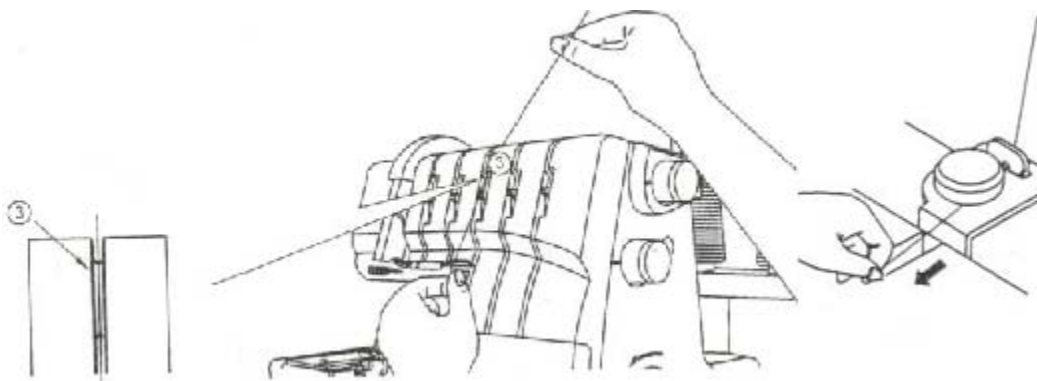
2. Pass thread from back to the front through the thread guide ①.



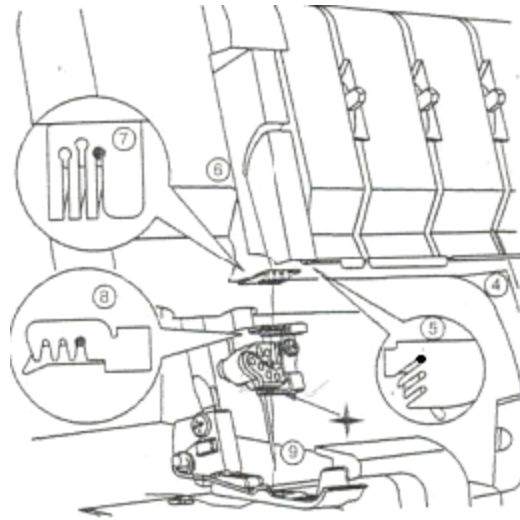
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



4. While holding the thread firmly, pull the thread between the tension disks.



5. Continue to thread points 4-8. Slip the thread into the rear slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the right slot of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp.



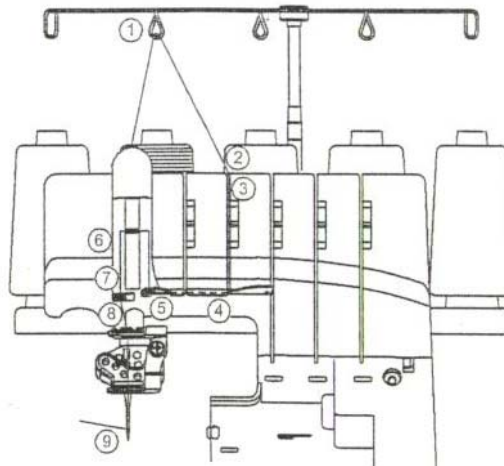
7. Thread the eye of the Right Cover Stitch Needle ⑨.



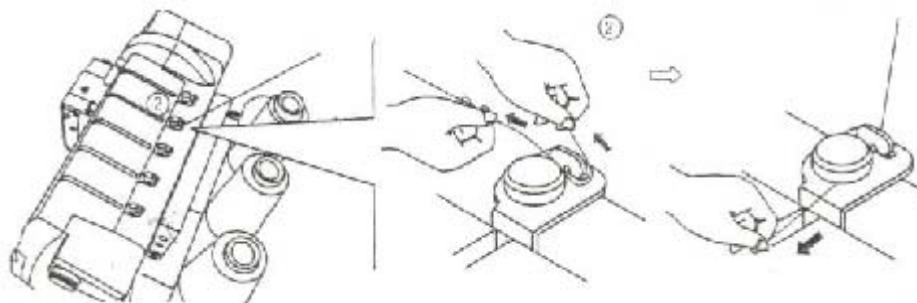
8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

◆ Thread Middle Cover needle with regular overlock thread.

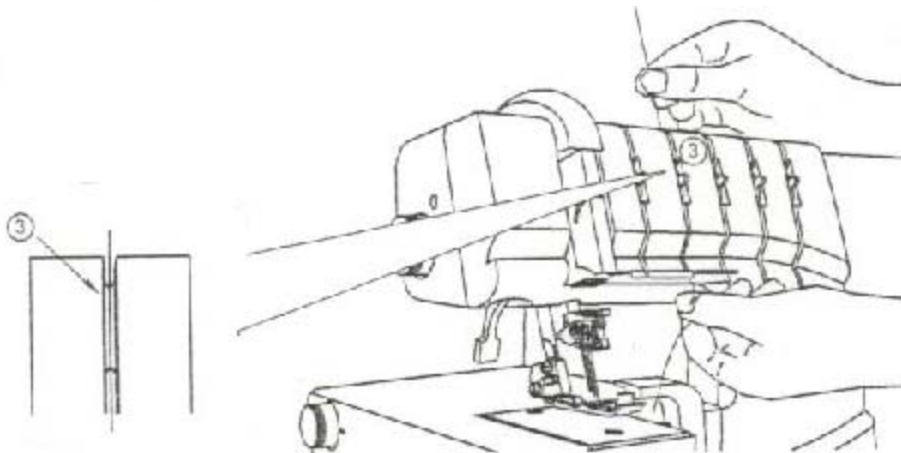
1. Raise the Presser Foot to release the tension disks. Thread the Cover Stitch Middle/Chain Stitch needle as illustrated 1-9.
2. Pass thread from back to the front through the thread guide ①.



3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.

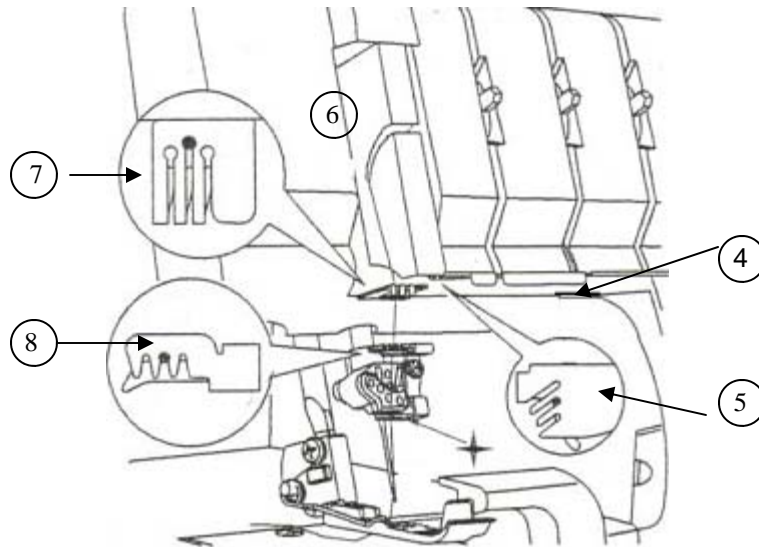


4. While holding the thread, firmly pull the thread between the tension disks.

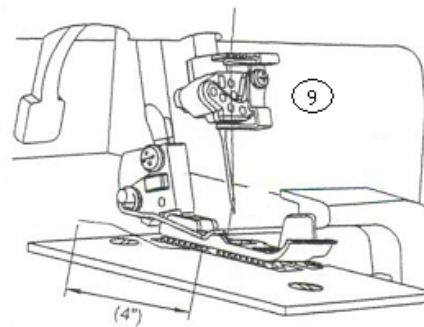




5. Continue to thread points 4-8. Slip the thread into the middle slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the middle slot of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp for the Cover Stitch or Chainstitch.



7. Thread the eye of the middle needle ⑨.

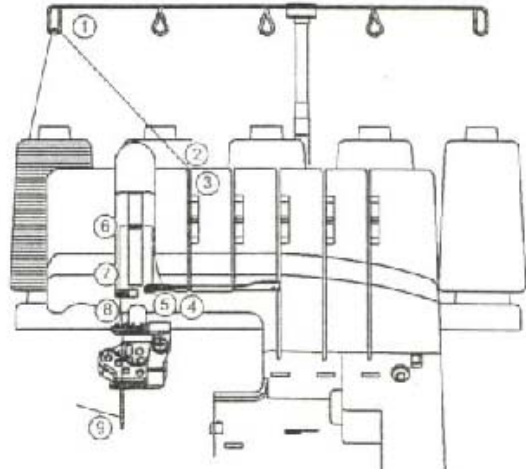
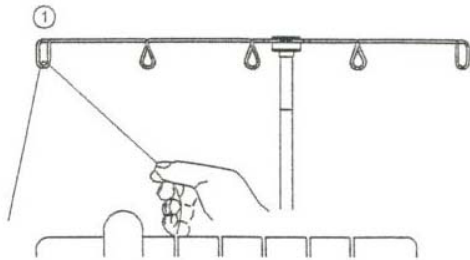


8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

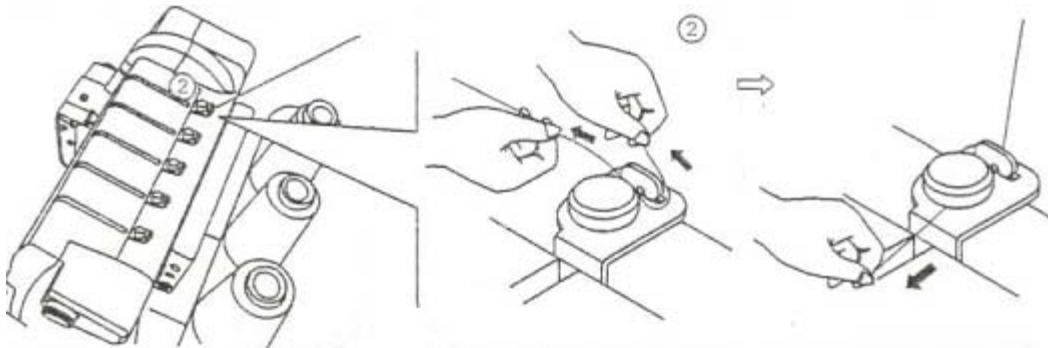
◆ Thread Left Cover Stitch needle with regular thread.

1. Raise the Presser Foot to release the tension disks. Thread the left needle as illustrated 1-9.

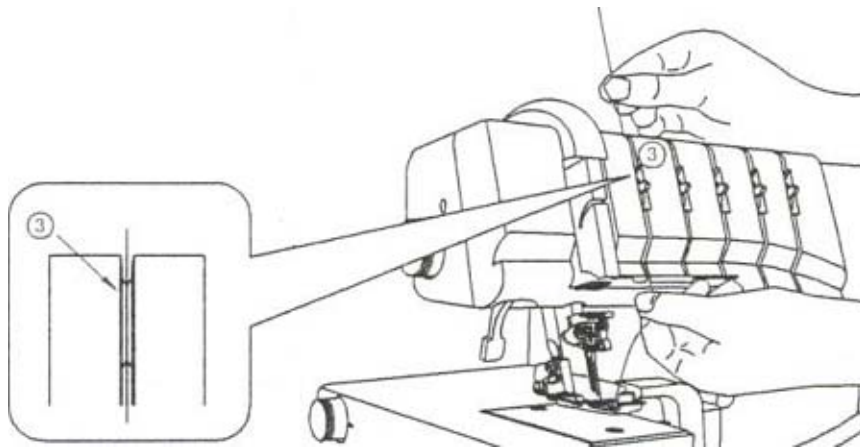
2. Pass thread from back to the front through the thread guide ①.



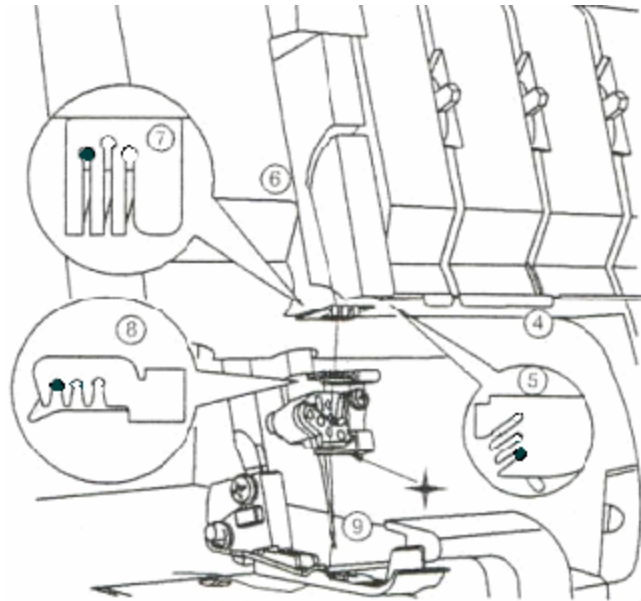
3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



4. While holding the thread firmly, pull the thread between the tension disks.



5. Continue to thread points 4-8. Slip the thread into the forward slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the left slot of the thread guides ⑦ and ⑧.
6. Before threading the eye of the needle, make sure the thread is in front of the thread guide located on the bottom of the needle clamp.



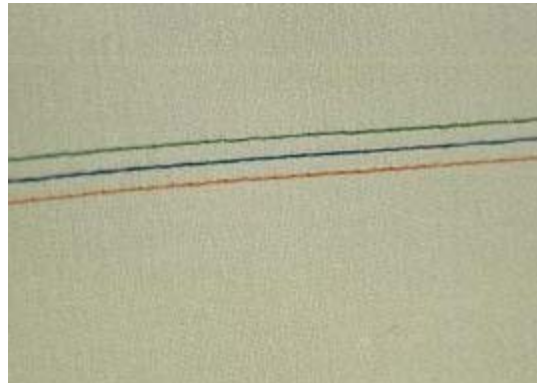
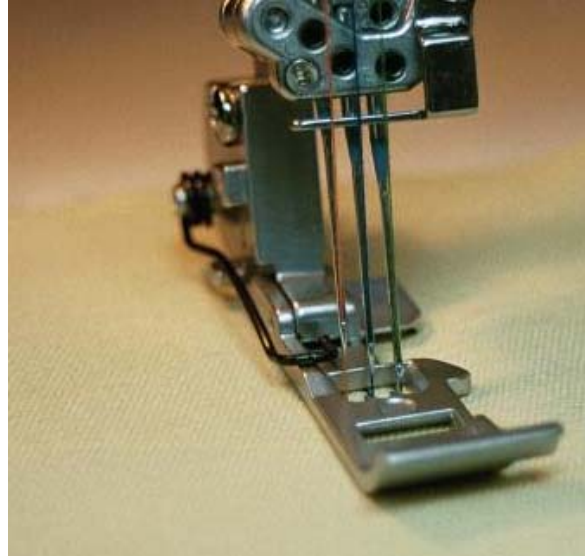
7. Thread the eye of the Left Cover Stitch Needle ⑨.



8. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
9. Place the thread to the back, under the Presser Foot. Lower foot and sew.

## TRY IT:

- ◆ Press a 3" hem into a woven home decorator fabric.
- ◆ Lift the Presser Foot to the highest position.
- ◆ Position the fabric right side up and under the needles.
- ◆ Align the fabric so that the fabric fold is 1" to the right of the needles.
- ◆ Lower the Presser Foot.
- ◆ Turn the handwheel to assist in the stitch forming on the fabric. When sewing the Triple Hem Stitch it is necessary to have fabric under the needles while sewing.
- ◆ Sew using the seam guides for a straight hem and to ensure the fabric's raw edge is finished.
- ◆ As the machine sews it will finish the fabric's raw edge and sew three rows of topstitching.



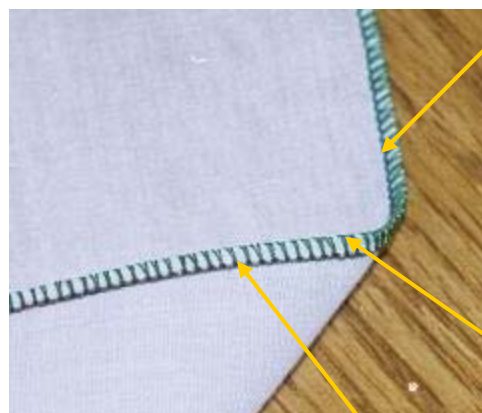
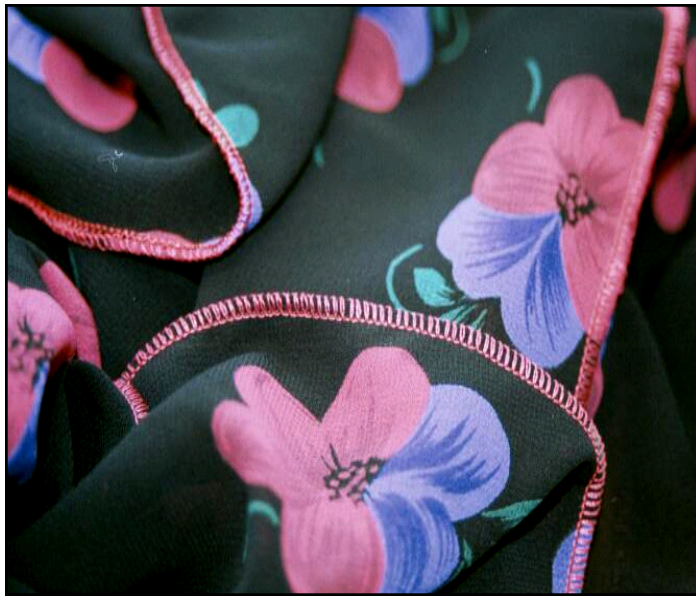
**SINGER®**

## Chapter 14: Three-Thread Rolled Hem



## Three-Thread Rolled Hem

The Rolled Hem Stitch is used to finish edges of scarves, ruffles, table linens, and some garments. It is suitable for lightweight to medium weight fabrics, such as sheers, silkies and broadcloth. Beautiful pintucks can be achieved with the rolled hem. They can enhance a yoke, heirloom sewing, wearable art and even home decorating projects. Note: Rolled hemming can only be performed with the Right Overedge needle all other needles must be removed.



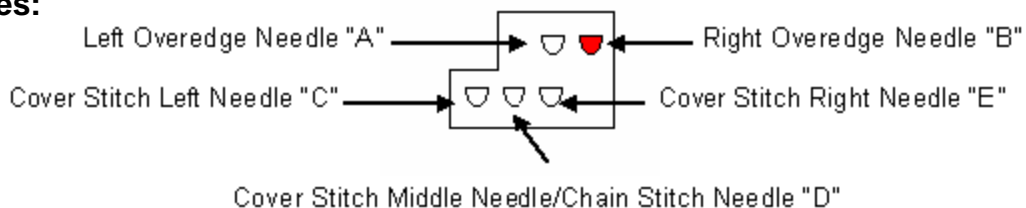
Right Overedge Needle Thread

Lower Loper Thread

Upper Loper Thread

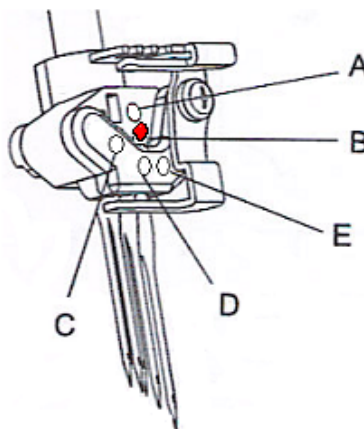
## SET UP:

### Needles:



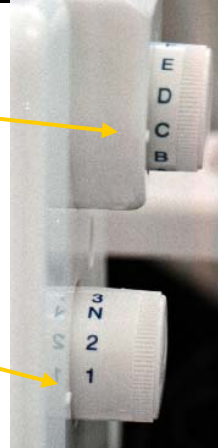
### Set at:

<b>ATD:</b> Auto Tension Dial	"C"
Left Cover Stitch Needle "C"	Not Threaded
Middle Cover Stitch Needle "D"	Not Threaded
Right Cover Stitch Needle "E"	Not Threaded
Overedge Left Needle "A"	Not Threaded
Overedge Right Needle "B" (Blue)	Threaded
Upper Looper (Green)	Looper Engaged and Threaded
Spreader	Not Used
Lower Looper (Red)	Threaded
Chain Stitch Looper (Brown)	Not Threaded
Upper Looper Clutch	"L"
Upper Knife	Engaged
Seam Guide Plate	Not Installed Use Knife Cover
Seam Width Dial	"N"
Stitch Length Dial	"1"
Presser Foot Pressure	"N"
Differential Feed Dial	"N"
Stitch Finger	"R"



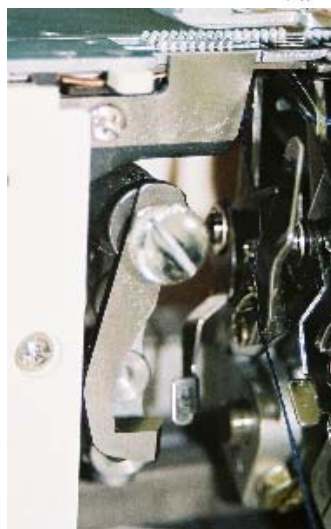
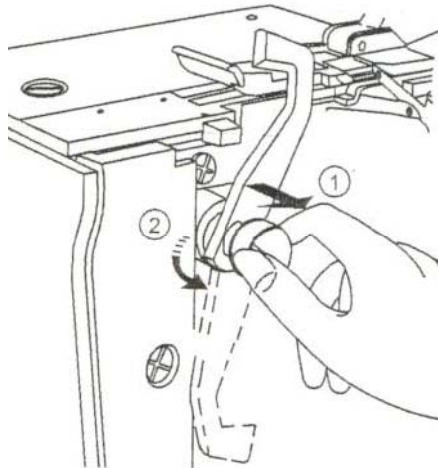
# SINGER®

- ◆ Turn Auto Tension Dial to “C”.



- ◆ Turn Stitch Length Dial to “1”.

- ◆ Engage Upper Knife. The knife will not trim the fabric when it is disengaged.
  1. Open Looper Cover.
  2. Pull the movable knife holder (silver screw) to the right as far as it will go.
  3. Turn the holder clockwise until the knife clicks into a lock position.



Upper Knife Disengaged



Upper Knife Engaged



# SINGER®

- ◆ Turn Presser Foot Pressure Dial to “N”.



- ◆ Turn Differential Feed Dial to “N”.



- ◆ Turn Seam Width Dial to “N”.

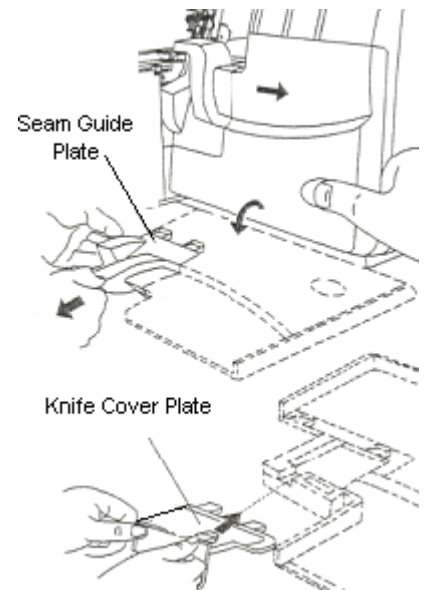


- ◆ Set Stitch Finger to “R”.



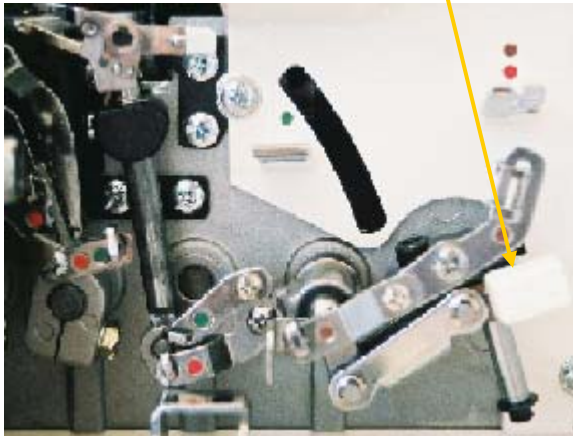
# SINGER®

## ◆ Install the Knife Cover.

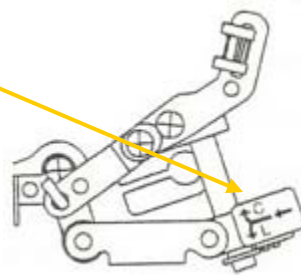


## ◆ Engage Upper Looper. Engaging the Upper Looper causes the looper to move when sewing. Even though the Upper Looper is not threaded it needs to be engaged.

1. Push the clutch button to the left and down to engage.
2. Turn handwheel.



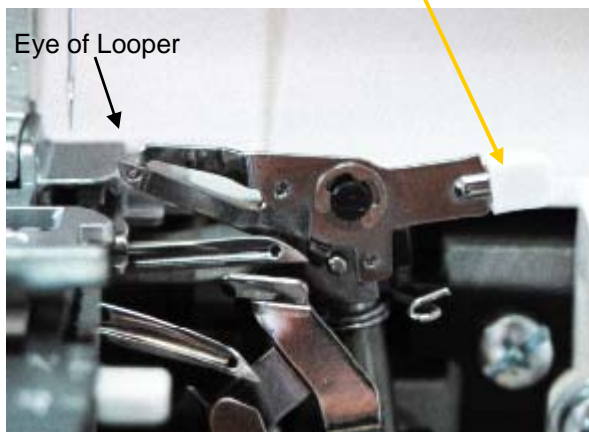
Upper Looper Disengaged



Upper Looper Engaged

- ◆ Disengage Spreader. The Upper Looter has a hole for the thread on the top of the looper. If the stitch requires that the looper be engaged, but not threaded then the Spreader is used. The Spreader simply plugs-in (or closes) the looper's hole. The Spreader is disengaged when the Upper Looter is engaged/operative and threaded. The Spreader is used with a stitch that requires only one looper thread. With the help of the Spreader the single looper thread wraps around the fabric's edge.

1. Lower the white handle on the Spreader to open the eye of the Upper Looter.



Spreader Engaged

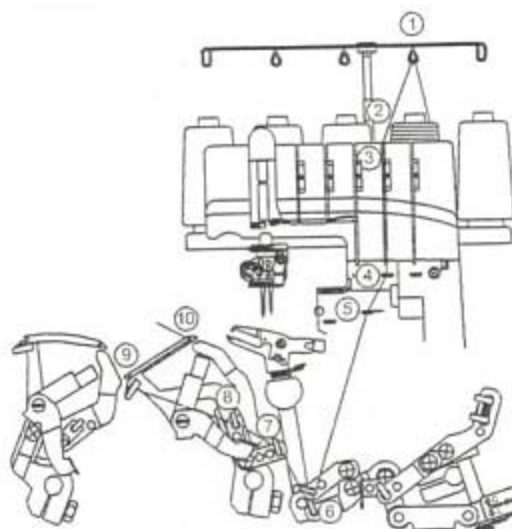
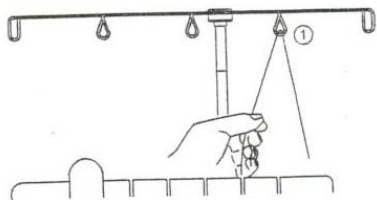


Spreader Disengaged

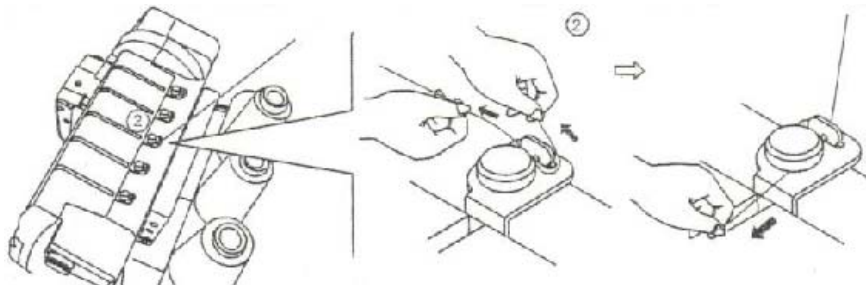
- ◆ Thread Upper Looter with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the Lower Looter as illustrated 1-9.

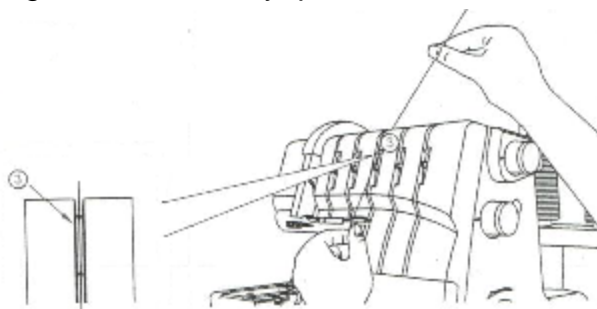
2. Pass thread from back to the front through the thread guide ①.



3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.

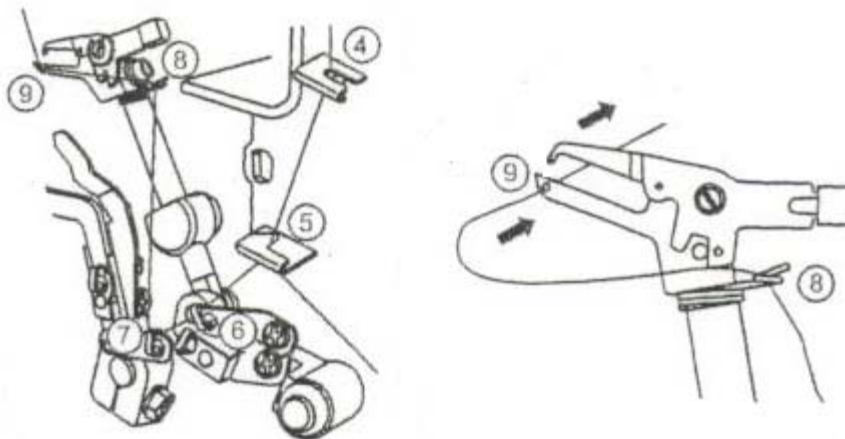


4. While holding the thread firmly, pull the thread between the tension disks.

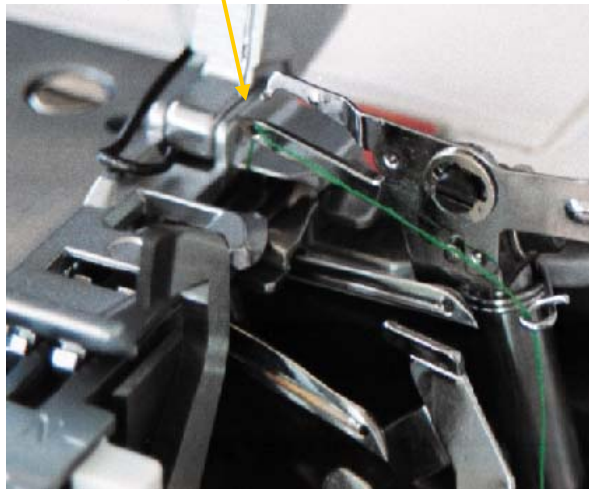


5. Turn the handwheel toward you until the lower looper extends 5-10mm (approximately 1/2 inch) from the needle plate edge.

6. Thread the looper area of the machine following the green color coded thread guides 4-9.

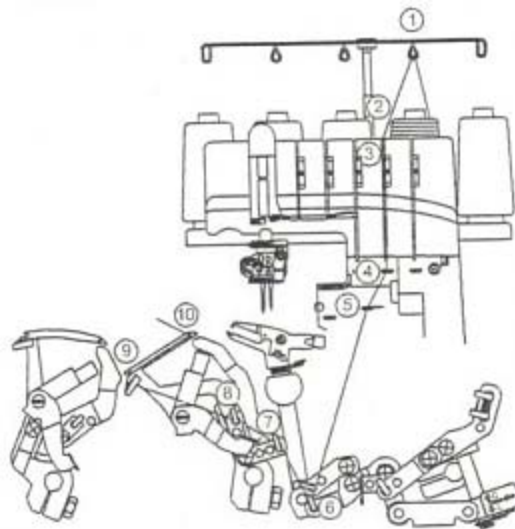
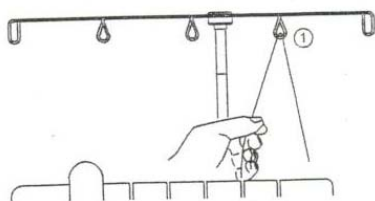


7. Thread the hole in the Upper Looter from front to back ⑨. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

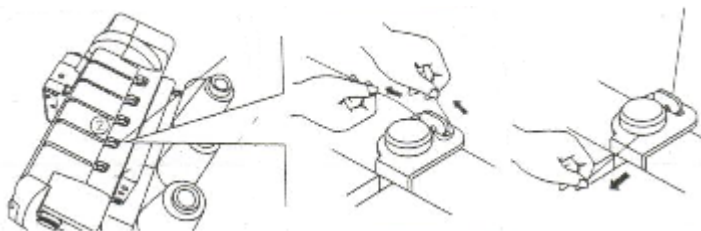


◆ Thread Lower Looter with regular overlock thread.

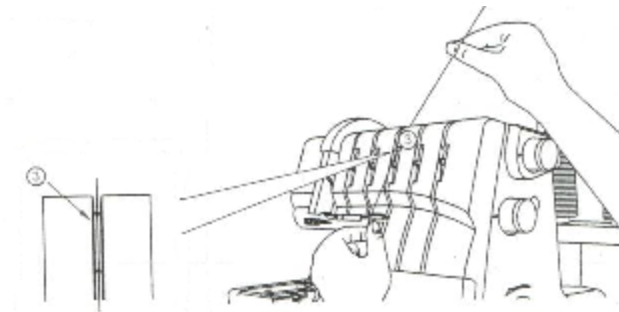
1. Raise the Presser Foot to release the tension disks. Thread the Lower Looter as illustrated 1-10.
2. Pass thread from back to the front through the thread guide ①.



3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.

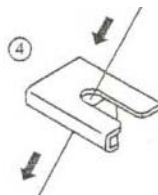


4. While holding the thread firmly, pull the thread between the tension disks.



5. Turn the handwheel toward you until the lower looper extends 5-10mm (approximately ½ inch) from the needle plate edge.
6. Thread the looper area of the machine following the red color coded thread guides 4-10.

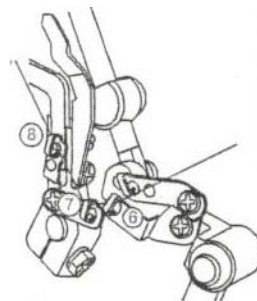
7. Place the thread slightly from left and to the right of threading guide ④.



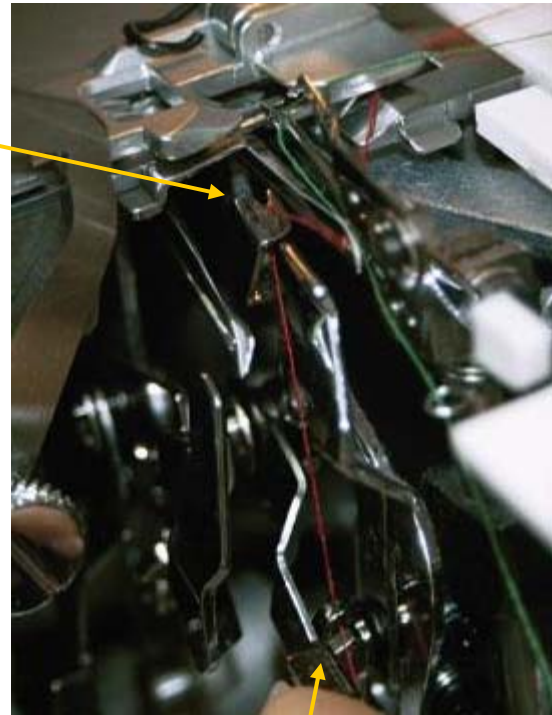
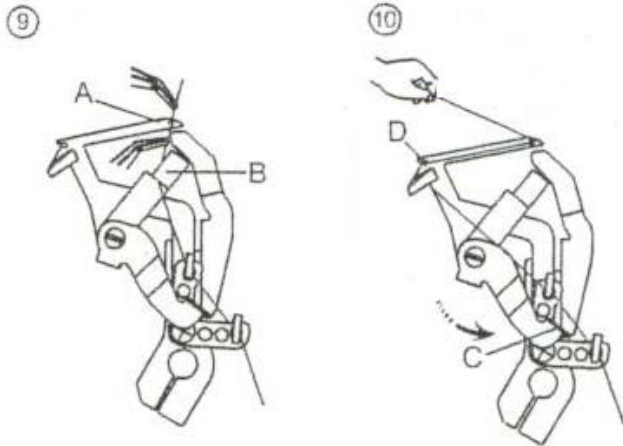
8. Place the thread slightly from the front and to the back of threading guide ⑤.



9. Place the thread through ⑥, ⑦ and ⑧.



10. Thread the looper eye (A) from front to back. Pull about 4 inches of thread. Position thread into V cutout (B) on threader. Firmly hold thread tail with left hand and pull Threader lever (C) up into place (D).



Threader Lever

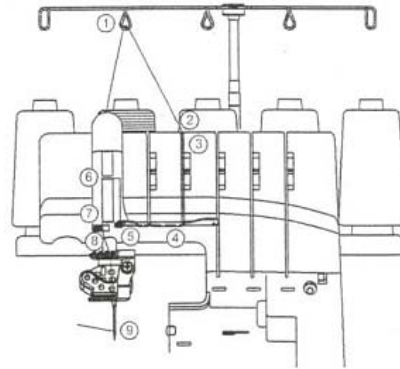
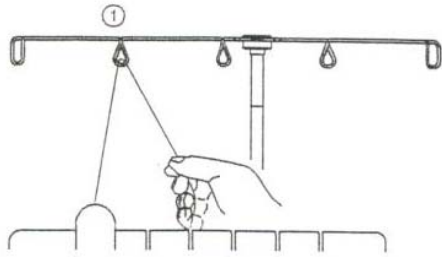


NOTE: Make sure the Upper Looper thread is behind the Lower Looper thread.

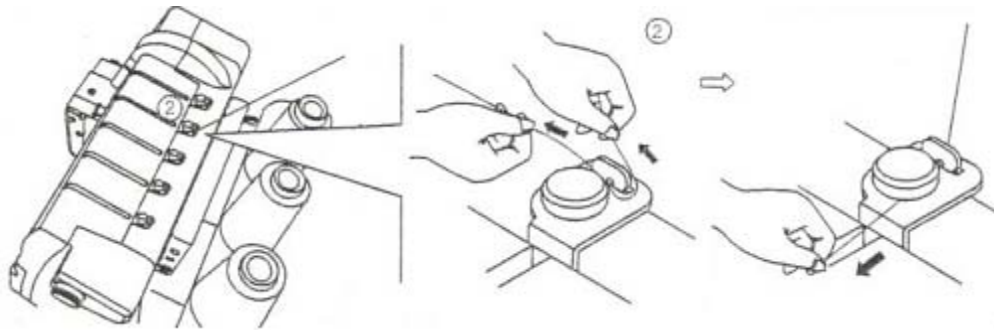
◆ Thread Right Overedge needle with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the right needle as illustrated 1-9.

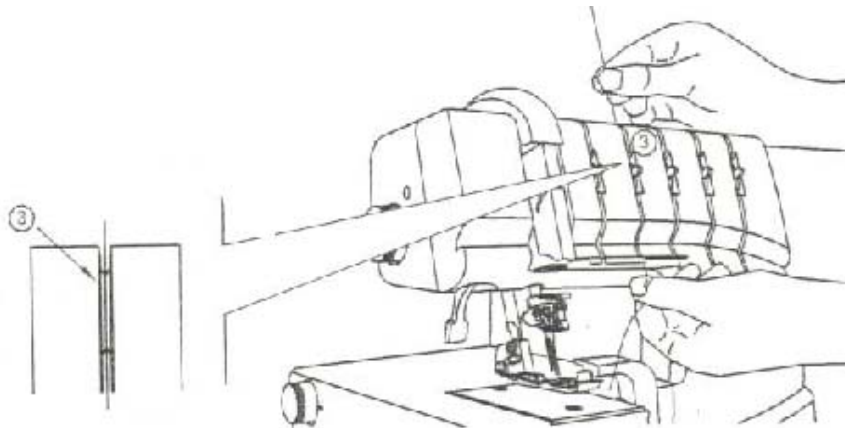
2. Pass thread from back to the front through the thread guide ①.



3. Thread the top cover thread guide by pulling the thread towards the left until it slips under the guide. Then pull the thread along the right side of the button as illustrated.



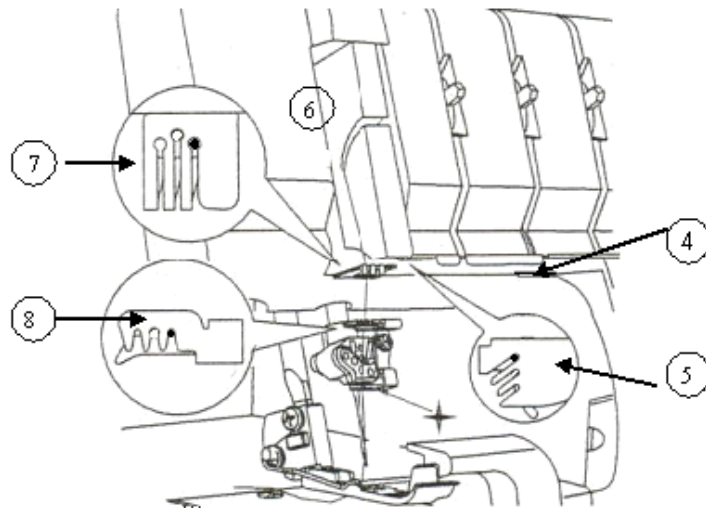
4. While holding the thread firmly, pull the thread between the tension disks.



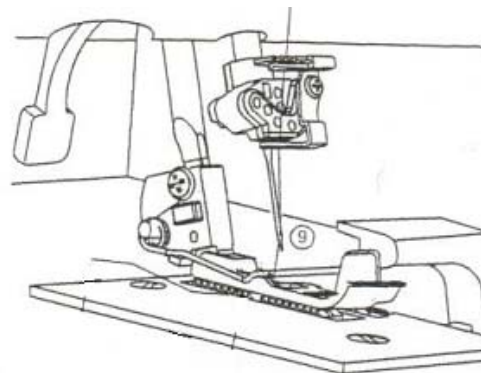
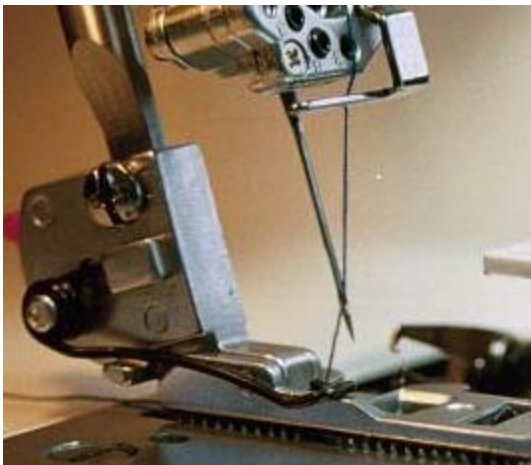


# SINGER®

5. Continue to thread points 4-8. Slip the thread into the rear slot of the thread guide ⑤. Go over the take up lever ⑥. Continue by slipping the thread into the right slots of the thread guides ⑦ and ⑧.
8. Before threading the eye of the needle, make sure the thread is behind the thread guide located on the bottom of the needle clamp.



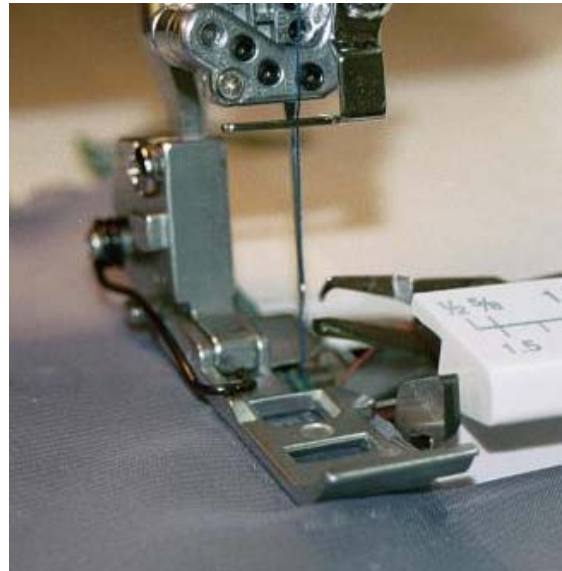
9. Draw about 4 inches of the thread through the needle eye towards the back of the machine.
10. Place the thread to the back, under the Presser Foot. Lower foot and sew.



# SINGER®

## TRY IT:

- ◆ Align a piece of lightweight fabric so that the fabric's edge is being slightly trimmed by the knife.
- ◆ Sew.



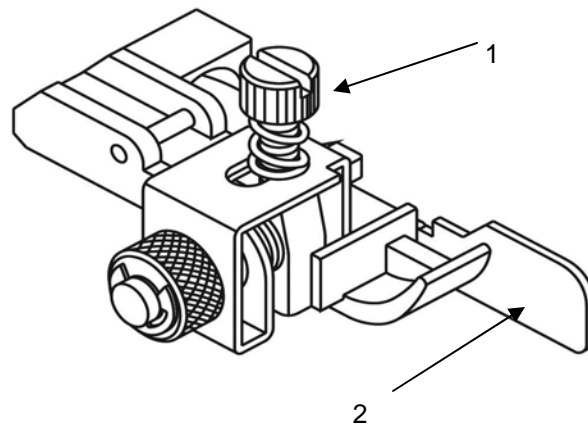
**SINGER®**

## Chapter 15: Additional Presser Feet



## BLIND HEM FOOT

The Blind Hem Foot is used for hemming skirts, pants and other sewing projects in one easy operation. It is recommended for use on stretch or textured fabrics.



### Machine Preparation

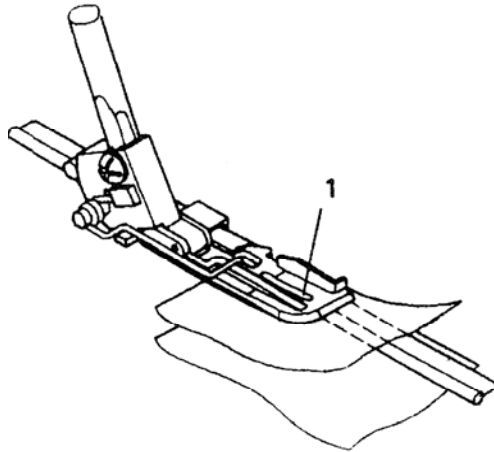
- Differential Feed: Set to "N"
- Needles: Use the right needle only
- Upper Knife: Engaged
- Stitch Length: Set to 3 or 4
- Foot: Attach (snap-on) Blind Hem Foot

### Sewing Instructions

- Fold fabric as illustrated, and insert it under the presser foot
- Line up the edge of the fold with the guide plate (2)
- Adjust the positioning of the fold of the fabric with the adjustment screw (1)
- The fold of the fabric must always be in line with the left needle
- Begin to sew, keeping the fold of the fabric along guide plate (2)

## CORDING FOOT

The Cording Foot is used for sewing piping (cording) between two layers of fabric in one easy operation.



### Machine Preparation

- Differential Feed: Set to "N"
- Needles: You may use both the right and left needle, or left only
- Upper Knife: Engaged
- Stitch Length: Set to "N"
- Foot: Attach (snap-on) Cording Foot

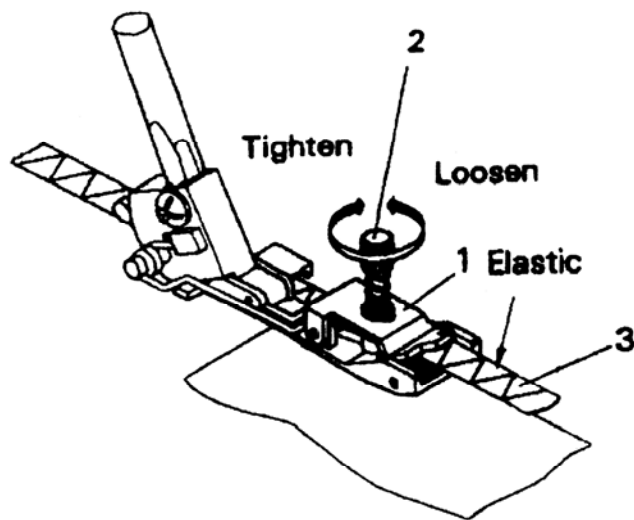
### Sewing Instructions

- Raise the presser foot
- Set the needle(s) at the highest position
- Layer the piping between the two layers of fabric so that the piped edge lays towards the inside of the fabric
- Line up the edge of the fabric along the upper knife
- The piping (cording) must line up with the groove in the presser foot (guide 1)
- Lower the presser foot and begin to sew

Note: Make sure the piping follows the groove of the Cording Foot as you sew.

## ELASTIC FOOT

The Elastic Foot is used for inserting elastic into a seam. It can be used for swimwear, lingerie and other sewing projects.



### Machine Preparation

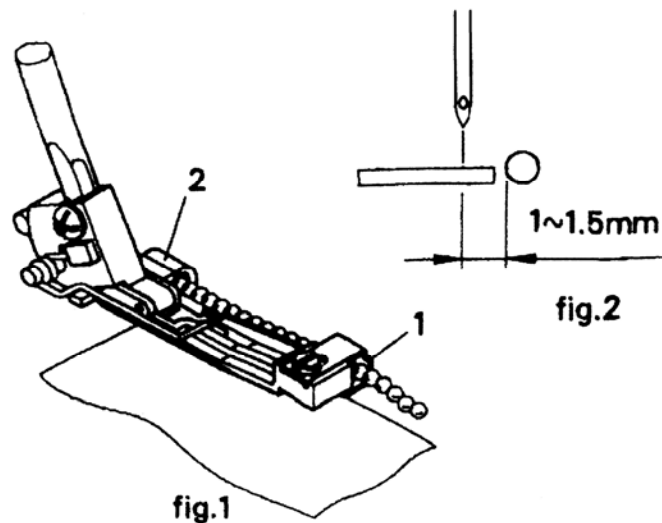
- Differential Feed: Set to "N"
- Needles: Use both the right & left needle for wider elastic, right needle for narrow elastic
- Upper Knife: Engaged
- Stitch Length: Set to 3 or 4
- Foot: Attach (snap-on) elastic foot

### Sewing Instructions

- Set the needles at the highest position
- Raise the presser foot
- Loosen screw (2), which will allow the brake (1) to be raised
- Insert the elastic tape (3) into the foot under the brake and run it through to the back of the foot
- Tighten screw (2); the more you tighten, the more pressure will be added to the brake (1), causing the elastic to stretch even more
- Lay the seam under the presser foot, lining up the fabric to sew a 5/8" seam
- Lower the presser foot and begin to sew
- When seam is complete, continue to sew over the elastic for approximately 1 to 2 inches. Cut elastic and remove from machine.

## BEADING FOOT

The Beading Foot is used for sewing on beads, sequins, pearls and thick cord.



### Machine Preparation

- Differential Feed: Set to "N"
- Needles: Use left needle for large beads, or right needle for smaller beads
- Upper Knife: You may choose to work with or without the upper knife (If engaging the knife, be careful not to cut the beads as you sew)
- Stitch Length: Set to 3 or 4
- Foot: Attach (snap-on) Beading Foot

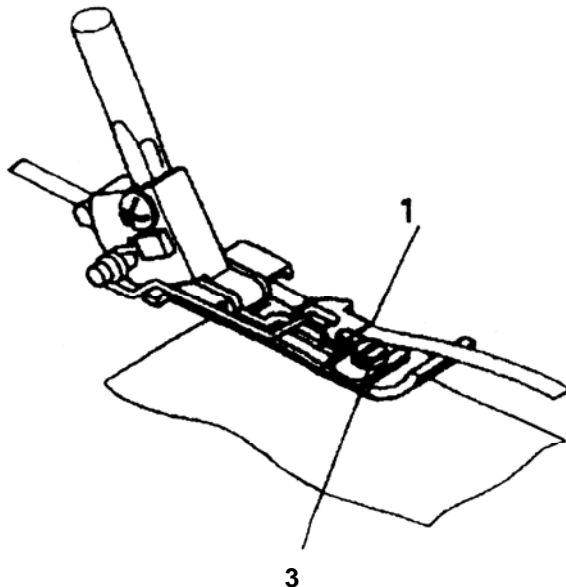
### Sewing Instructions

- Pull the beads along guides 1 and 2 through the back of the foot
- Raise the presser foot and place fabric under the foot, with the edge of the fabric lined up with the edge of the Beading Foot
- Lower presser foot and begin sewing, slowly at first to make sure the beads are well positioned

Note: The needle should penetrate the fabric at 1.5mm away from the edge.

## TAPING FOOT

The Taping Foot is used for inserting a tape into seams that will stretch easily. Inserting the tape will stabilize the seam.



### Machine Preparation

- Differential Feed: Set to "N"
- Needles: Use both the right and left needle
- Upper Knife: Engaged
- Stitch Length: Set to "N"
- Foot: Attach (snap-on) Taping Foot

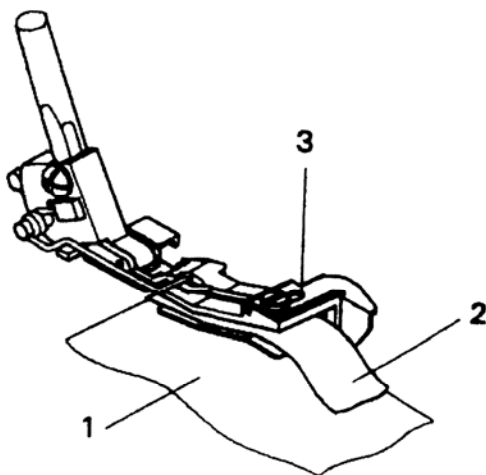
### Sewing Instructions

- Set the needles at the highest position
- Raise the presser foot
- Insert the tape into the guide (1), and pull it through to the back of the foot
- You may adjust the position of the tape in relationship to the needles by turning the adjusting screw (3)
- Lay the seam under the presser foot, lining up the fabric to sew a 5/8" seam
- Lower the presser foot and begin to sew



## SHIRRING FOOT

The Shirring Foot is used for shirring or gathering. Use it on home decorating accessories or clothing. This foot provides best results when used with lightweight and sheer fabrics.



### Machine Preparation

- Differential Feed: Set to the maximum (highest number ) for gathering
- Needles: You may use either the left or right, or both needles
- Upper knife: Engaged
- Stitch Length: Set to 3 or 4
- Foot: Attach (snap-on) Shirring Foot

### Sewing Instructions

- Raise the presser foot
- Set the needle(s) at the highest position
- Place bottom layer of fabric under the presser foot (1). This is the fabric that will be gathered.
- Place the top layer of fabric (2) into opening (3) located at the front of the Shirring Foot, making sure edges of both the top and bottom layer of fabrics line up
- Lower the presser foot and begin to sew