Congratulations on the purchase of your new SINGER® Quantumlock® Overlock Machine! The Quantumlock® 14967DC is a time saving innovation that provides professional seams, seam finishes, and creative stitch capabilities. Sew one-of-kind projects with the special effects of decorative stitching, such as Flatlocking, Chainstitching and Rolled Hemming. The overlock works side by side with your conventional sewing machine and adds new creative possibilities to your sewing projects.

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This workbook has been created as a tool for learning the various stitch types, which you can then apply to your projects. The workbook is divided into fourteen individual sections, and each section focuses on a particular stitch type. Each section has comprehensive machine set-up and threading directions, photos and definitions on how and where the stitch can be used, and suggestions for successful stitch formation. It is a good starting point to fully understanding your Quantumlock® overlock.

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We are certain that your creativity will be inspired, and that you will have many hours of sewing enjoyment with this easy-to-use machine, feature-packed machine!

Enjoy!

The SINGER® Education Department

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Double Chain Stitch

This stitch is suitable for straight seams. It also can be used for a decorative chainstitch topstitching effect. The Middle Cover needle and the Chainstitch Looper are used. Decorative thread can be placed in the Chainstitch Looper, the needle, or in both to create various effects.
## Needle:

Left Overedge Needle "A"  
Right Overedge Needle "B"  
Cover Stitch Left Needle "C"  
Cover Stitch Right Needle "E"  
Cover Stitch Middle Needle/Chain Stitch Needle "D"

### Set at:

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>&quot;D&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle &quot;C&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle &quot;D&quot; (Blue)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Right Cover Stitch Needle &quot;E&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Left Needle &quot;A&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Right Needle &quot;B&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Upper Looper</td>
<td>Looper Disengaged and Not Threaded</td>
</tr>
<tr>
<td>Spreader</td>
<td>Not Engaged</td>
</tr>
<tr>
<td>Lower Looper</td>
<td>Unthreaded</td>
</tr>
<tr>
<td>Chainstitch Looper (Brown)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Upper Knife</td>
<td>Not Used</td>
</tr>
<tr>
<td>Seam Guide Plate</td>
<td>Installed</td>
</tr>
<tr>
<td>Seam Width Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Width Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Length Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Presser Foot Pressure</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Differential Feed Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Finger</td>
<td>&quot;R&quot;</td>
</tr>
</tbody>
</table>

Double Chain Stitch page 2
Double Chain Stitch

- Turn Auto Tension Dial to “D”.

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

• Turn Differential Feed Dial “N”.

• Turn Seam Width Dial to “N”.

• Place Stitch Finger to “R”.

Double Chain Stitch page 4
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 slightly towards 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.
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”) 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 ⑤ and ⑨.

7. Continue threading guides ⑤, 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.
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 📡.

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.

Double Chain Stitch page 8
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 Cover 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:**

- Fuse a layer of fabric to a lightweight batting.

- Fuse a fabric backing to the other side of the batting, to create a quilted piece of fabric.

- Using a rinse-away fabric marking pen draw a design lines on the wrong side of the fabric.

  Make soft gentle turns; gradual curves work best. Avoid making sharp corners.

- Lift the Presser Foot to the heightest position.

- Position the fabric right side down. Align the needle with one of the lines drawn.

- Lower the Presser Foot and sew.

- The decorative thread will be on the under side.
• When sewing the Double Chainstitch, it is necessary to have fabric under the needle. Avoid sewing off the fabric.

• Continue sewing, following the drawn marking.

• To remove fabric, gently turn handwheel to loosen threads.

• Turn fabric over to see the decorative stitching.
Two-Thread Wrapped Edge Overlock
(Narrow and Wide)
Two-Thread Wrapped Edge Overlock (Narrow)

The Two-Thread Wrapped Edge Overlock provides an elegant fine finish to lightweight fabrics. When using clear threads in conjunction with the Two-Thread stitch, the fabric appears to have an invisible edge. This gives a couture effect and looks beautiful on finer fabrics. The Two-Thread Stitch requires the lower looper thread and one overlock needle thread. The lower looper thread wraps around the fabric’s edge. There are 2 different ways to set up for a Two-Thread Wrapped Edge Overlock stitch. For a more narrow stitch (4.0) select the right overedge needle; for a wider stitch (6.0) the left overedge needle is used.
### Needle:

- **Left Overedge Needle** "A"
- **Right Overedge Needle** "B"
- **Cover Stitch Left Needle** "C"
- **Cover Stitch Middle Needle**/Chain Stitch Needle "D"
- **Cover Stitch Right Needle** "E"

#### ATD:

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<tr>
<th>ATD:</th>
<th>Set at:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Tension Dial</td>
<td>&quot;D&quot;</td>
</tr>
<tr>
<td>Left Cover Stitch</td>
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</tr>
<tr>
<td>Needle &quot;C&quot;</td>
<td>Remove Needle</td>
</tr>
<tr>
<td>Middle Cover Stitch</td>
<td>Unthreaded and</td>
</tr>
<tr>
<td>Needle &quot;D&quot;</td>
<td>Remove Needle</td>
</tr>
<tr>
<td>Right Cover Stitch</td>
<td>Unthreaded and</td>
</tr>
<tr>
<td>Needle &quot;E&quot;</td>
<td>Remove Needle</td>
</tr>
<tr>
<td>Overedge Left Needle</td>
<td>Unthreaded and</td>
</tr>
<tr>
<td>&quot;A&quot;</td>
<td>Remove Needle</td>
</tr>
<tr>
<td>Overedge Right Needle</td>
<td>Threaded</td>
</tr>
<tr>
<td>(Blue) &quot;B&quot;</td>
<td></td>
</tr>
<tr>
<td>Upper Looper</td>
<td>Looper Engaged</td>
</tr>
<tr>
<td></td>
<td>and Not Threaded</td>
</tr>
<tr>
<td>Spreader</td>
<td>Engaged</td>
</tr>
<tr>
<td>Lower Looper</td>
<td>Threaded</td>
</tr>
<tr>
<td>(Red)</td>
<td></td>
</tr>
<tr>
<td>Chain Stitch Looper</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>(Brown)</td>
<td></td>
</tr>
<tr>
<td>Upper Knife</td>
<td>Engaged</td>
</tr>
<tr>
<td>Seam Guide Plate</td>
<td>Not Installed</td>
</tr>
<tr>
<td></td>
<td>Use Knife Cover</td>
</tr>
<tr>
<td>Seam Width Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Length Dial</td>
<td>&quot;2&quot;</td>
</tr>
<tr>
<td>Presser Foot Pressure</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Differential Feed Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Finger</td>
<td>&quot;N&quot;</td>
</tr>
</tbody>
</table>

Two-Thread Wrapped Edge Overlock (narrow) page 2
Turn Auto Tension Dial to “D”.

Turn Stitch Length Dial to “2”.

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 toward clockwise until the knife clicks into a lock position.
• Turn Presser Foot Pressure Dial to “N”.

• Turn Differential Feed Dial to “N”.

• Turn Seam Width Dial to “N”.

• Set Stitch Finger to “N”.

Two-Thread Wrapped Edge Overlock (narrow) page 4
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 Looper 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 Looper 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 needs to wrap around the fabric’s edge.

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

Thread Lower Looper with regular overlock thread.

1. Raise the Presser Foot to release the Tension disks. Thread the Lower Looper 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).

Thread Right Overedge needle with regular thread.

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

2. Pass thread from back to the front through the thread guide ➊.
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.
Align two pieces of lightweight fabric, right sides together so that the knife just slightly trims the fabric edge.

- Sew.
- Press seam to one side.
Two-Thread Wrapped Edge Overlock (Wide)

The Two-Thread Wrapped Edge Overlock (wide) has the same set up as the Two-Thread Wrapped Edge Overlock (narrow) Stitch. The only exception is the Right Overedge Needle is now unthreaded and removed and the Left Overedge Needle is threaded. By using the left needle the stitch becomes wider.

**Set up:**

**Needle:**

- Left Overedge Needle “A”
- Right Overedge Needle “B”
- Cover Stitch Left Needle “C”
- Cover Stitch Right Needle “E”
- Cover Stitch Middle Needle/Chain Stitch Needle “D”

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>“D”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle (Orange)</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle (Blue)</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Right Cover Stitch Needle (Green)</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Left Needle (Orange)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Overedge Right Needle (Blue)</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Upper Looper (Green)</td>
<td>Looper Engaged and Not Threaded</td>
</tr>
<tr>
<td>Spreader</td>
<td>Engaged</td>
</tr>
<tr>
<td>Lower Looper (Red)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Chain Stitch Looper (Brown)</td>
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<tr>
<td>Upper Knife</td>
<td>Engaged</td>
</tr>
<tr>
<td>Seam Guide Plate</td>
<td>Not Installed Use Knife Cover</td>
</tr>
<tr>
<td>Seam Width Dial</td>
<td>“N”</td>
</tr>
<tr>
<td>Stitch Length Dial</td>
<td>“2”</td>
</tr>
<tr>
<td>Presser Foot Pressure</td>
<td>“N”</td>
</tr>
<tr>
<td>Differential Feed Dial</td>
<td>“N”</td>
</tr>
<tr>
<td>Stitch Finger</td>
<td>“N”</td>
</tr>
</tbody>
</table>
Thread Left Overedge needle with regular thread.

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

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

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 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.
Try It:

- Align one piece of medium weight fabric so that the knife just slightly trims the fabric edge.
- Sew.
Two-Thread Overedge (Narrow)

This stitch is used as a lightweight seam finish or a lightweight seam. When creating a seam finish, less thread is used and the thread does not imprint on the right side of the fabric when pressed. The stitch can also be used for seaming. The stitch creates less bulky seams, which is ideal for sheer or lace fabrics. The Two-Thread Overlock stitch requires the lower looper thread and one overlock needle thread. There are 2 different ways to set up for a Two-Thread Overlock stitch. For a more narrow stitch (4.0) select the right overedge needle and for a wider stitch (6.0) the left overedge needle is used.
**Needle:**

- Left Overedge Needle "A"
- Right Overedge Needle "B"
- Cover Stitch Left Needle "C"
- Cover Stitch Right Needle "E"
- Cover Stitch Middle Needle/Chain Stitch Needle "D"

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>Set at</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle &quot;C&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle &quot;D&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Right Cover Stitch Needle &quot;E&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Left Needle &quot;A&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Right Needle &quot;B&quot; (Blue)</td>
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</tr>
<tr>
<td>Upper Looper</td>
<td>Looper Engaged and Not Threaded</td>
</tr>
<tr>
<td>Spreader</td>
<td>Engaged</td>
</tr>
<tr>
<td>Lower Looper (Red)</td>
<td>Threaded</td>
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<tr>
<td>Chain Stitch Looper (Brown)</td>
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<td>Upper Knife</td>
<td>Engaged</td>
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<tr>
<td>Seam Guide Plate</td>
<td>Not Installed Use Knife Cover</td>
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<td>Seam Width Dial</td>
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<tr>
<td>Stitch Length Dial</td>
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<tr>
<td>Presser Foot Pressure</td>
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<tr>
<td>Differential Feed Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Finger</td>
<td>&quot;N&quot;</td>
</tr>
</tbody>
</table>
- Turn Auto Tension Dial to “E”.

- Turn Stitch Length Dial to “2”.

- 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.
• 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
**Engage Spreader.** The Upper Looper 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 Looper 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 Looper.

**Thread Lower Looper with regular overlock thread.**

1. Raise the Presser Foot to release the tension disks. Thread the Lower Looper 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”) 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).

- **Thread Right Overedge needle with regular thread.**
  1. Raise the Presser Foot to release the tension disks. Thread the right needle as indicated 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.

Try It:

- Join two pieces of medium weight fabric, right sides together with a conventional sewing machine straight stitch.

- Finish the edges of both fabric pieces by aligning the fabric edge so that the knife just slightly trims the fabric edge.

- Sew.

- Press seam allowance to one side.
Two-Thread Overedge (Wide)

The Two-Thread Overedge (wide) is a good choice when sewing linens and wools. The Two-Thread Overedge (wide) has the same set up as the Two-Thread Overedge (narrow) Stitch. The only exception is the Right Overedge Needle is now un-threaded and removed and the Left Overedge Needle is threaded. By using the left needle the stitch becomes wider.
**Set up:**

**Needle:**
- Left Overedge Needle "A" (Orange)
- Middle Cover Stitch Needle "D" (Blue)
- Right Cover Stitch Needle "E" (Green)
- Overedge Left Needle "A" (Orange)
- Overedge Right Needle "B" (Blue)
- Upper Looper (Green)
- Spreader
- Lower Looper (Red)
- Chain Stitch Looper (Brown)
- Upper Knife
- Seam Guide Plate
- Seam Width Dial
- Stitch Length Dial
- Presser Foot Pressure
- Differential Feed Dial
- Stitch Finger

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>Setting</th>
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</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle &quot;C&quot; (Orange)</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle &quot;D&quot; (Blue)</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Right Cover Stitch Needle &quot;E&quot; (Green)</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Left Needle &quot;A&quot; (Orange)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Overedge Right Needle &quot;B&quot; (Blue)</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Upper Looper (Green)</td>
<td>Engage Looper and Not Threaded</td>
</tr>
<tr>
<td>Spreader</td>
<td>Engaged</td>
</tr>
<tr>
<td>Lower Looper (Red)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Chain Stitch Looper (Brown)</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>Upper Knife</td>
<td>Engaged</td>
</tr>
<tr>
<td>Seam Guide Plate</td>
<td>Not Installed</td>
</tr>
<tr>
<td>Seam Width Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Length Dial</td>
<td>&quot;2&quot;</td>
</tr>
<tr>
<td>Presser Foot Pressure</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Differential Feed Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Finger</td>
<td>&quot;N&quot;</td>
</tr>
</tbody>
</table>
• Thread Left Overedge 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 ②.

  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 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.
Try It:

- Align one piece of medium weight fabric so that the knife just slightly trims the fabric edge.
- Sew.
- Align a second piece of medium weight fabric so that the knife just slightly trims the fabric edge.
- Sew.
- Place the two fabrics, right sides together.
- Using a conventional sewing machine, sew a straight stitch with a \( \frac{5}{8} \) inch seam.
- Press the seam open.
Three-Thread Overlock
(Narrow, Wide, and Wide with Decorative Threads)
Three-Thread Overlock (Narrow)

The Three-Thread Overlock Stitch is the most commonly used stitch because of its versatility. It provides a wonderful professional seam finish to woven fabrics. It is beneficial in preventing loosely woven fabrics from unraveling. In addition, the Three-Thread Overlock Stitch offers unlimited decorative capabilities. It is recommended for finishing seams but not reinforcing the seam. Use the conventional sewing machine’s straight stitch to reinforce the seam. The stitch uses one overedge needles and both the upper looper and lower looper. There are 2 different ways to set up for a Three-Thread Overlock stitch. For a more narrow stitch (4.0) select the Right Overedge needle; for a wider stitch (6.0) the Left Overedge needle is used.
**Needle:**

- **Left Overedge Needle** “A”
- **Middle Cover Stitch Needle** “C”
- **Right Cover Stitch Needle** “D”
- **Overedge Left Needle** “A”
- **Overedge Right Needle** “B” (Blue)
- **Upper Looper (Green)**
- **Lower Looper (Red)**
- **Chain Stitch Looper (Brown)**
- **Upper Knife**
- **Seam Guide Plate**
- **Seam Width Dial** “N”
- **Stitch Length Dial** “2”
- **Presser Foot Pressure** “N”
- **Differential Feed Dial** “N”
- **Stitch Finger** “N”

**ATD:**

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>“A”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle “C”</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle “D”</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Right Cover Stitch Needle “E”</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Left Needle “A”</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Right Needle “B” (Blue)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Upper Looper (Green)</td>
<td>Looper Engaged and Threaded</td>
</tr>
<tr>
<td>Spreader</td>
<td>Not Used</td>
</tr>
<tr>
<td>Lower Looper (Red)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Chain Stitch Looper (Brown)</td>
<td>Unthreaded</td>
</tr>
<tr>
<td>Upper Knife</td>
<td>Engaged</td>
</tr>
<tr>
<td>Seam Guide Plate</td>
<td>Not Installed, use Knife Cover Plate</td>
</tr>
<tr>
<td>Seam Width Dial</td>
<td>“N”</td>
</tr>
<tr>
<td>Stitch Length Dial</td>
<td>“2”</td>
</tr>
<tr>
<td>Presser Foot Pressure</td>
<td>“N”</td>
</tr>
<tr>
<td>Differential Feed Dial</td>
<td>“N”</td>
</tr>
<tr>
<td>Stitch Finger</td>
<td>“N”</td>
</tr>
</tbody>
</table>
The Three-Thread Overlock makes a great edge finish to a garment’s facing.
• Turn Auto Tension Dial to “A”.

• Turn Stitch Length Dial to “2”.

• **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.
• 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 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 Looper 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 Looper 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 Looper.

- **Thread Upper Looper with regular overlock thread.**
  1. Raise the Presser Foot to release the tension disks. Thread the Lower Looper as illustrated 1-9.
  2. Pass thread from back to the front through the thread guide.
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”) 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 Looper from front to back. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

8. Thread Lower Looper with regular overlock thread.
   1. Raise the Presser Foot to release the tension disks. Thread the Lower Looper as indicated 1-10.
   2. Pass thread from back to the front through the thread guide.
   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”) 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 thread.

1. Raise the Presser Foot to release the tension disks. Thread the right needle as indicated 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.

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.
Align one piece of medium weight fabric so that the knife just slightly trims the fabric edge.

Sew.

Align a second piece of medium weight fabric so that the knife just slightly trims the fabric edge.

Place the two fabrics, right sides together.

Using a conventional sewing machine, sew a straight stitch with a % inch seam.

Press the seam open.
Three-Thread Overlock (Wide)

The Three-Thread Overedge (wide) has the same set up as the Three-Thread Overedge (narrow) Stitch. The only exceptions are the Right Overedge Needle is now unthreaded and removed and the Left Overedge Needle is threaded. By using the left needle the stitch becomes wider. The other exception is the Auto Tension Dial is turned to “B”.

Right Overedge Needle Thread

Left Overedge Needle Thread
Needle:

- Left Overedge Needle "A" (Orange) Threaded
- Overedge Left Needle "A" (Orange) Threaded
- Upper Looper (Green) Looper Engaged and Threaded
- Spreader Disengaged
- Lower Looper (Red) Threaded
- Chain Stitch Looper (Brown) Unthreaded
- Upper Knife Engaged
- Seam Guide Plate Not Installed, use Knife Plate Cover
- Seam Width Dial "N"
- Stitch Length Dial "2"
- Presser Foot Pressure "N"
- Differential Feed Dial "N"
- Stitch Finger "N"

ATD:
- Auto Tension Dial "B"

Left Cover Stitch Needle "C" Unthreaded and Remove Needle
Middle Cover Stitch Needle "D" Unthreaded and Remove Needle
Right Cover Stitch Needle "E" Unthreaded and Remove Needle

Cover Stitch Left Needle "C"
Cover Stitch Right Needle "E"
Cover Stitch Middle Needle/Chain Stitch Needle "D"
Thread Left Overedge 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.

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 \( \textcircled{5} \). Go over the take up lever \( \textcircled{6} \). Continue by slipping the thread into the middle slot of the thread guides \( \textcircled{7} \) and \( \textcircled{8} \).

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 needle \( \textcircled{9} \).

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.
• Turn Auto Tension Dial to “B”.

• Turn Stitch Length Dial to “2”.

**Try It:**

• Align one piece of medium weight fabric so that the knife just slightly trims the fabric edge.

• Sew.
Three-Thread Overlock (Wide—Decorative Thread)

Using decorative threads can duplicate the look of fine braids and bindings often found only in ready-to-wear. It is easy to embellish sewing projects with decorative thread. Threads such as texturized nylon thread, crochet thread, pearl cotton, yarn and more easily slide through the eye of the looper. Select soft, flexible threads for best results.
**Needle:**

- Left Overedge Needle "A" (Orange) Threaded
- Overedge Left Needle "A" (Orange) Threaded
- Overedge Right Needle "B" Unthreaded and Remove Needle
- Upper Looper (Green) Looper Engaged and Threaded
- Spreader Disengaged
- Lower Looper (Red) Threaded
- Chain Stitch Looper (Brown) Unthreaded
- Upper Knife Engaged
- Seam Guide Plate Not Installed, use Knife Plate Cover
- Seam Width Dial "N"
- Stitch Length Dial "2"
- Presser Foot Pressure "N"
- Differential Feed Dial "N"
- Stitch Finger "N"

**Set-up:**

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>&quot;B&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle &quot;C&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle &quot;D&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Right Cover Stitch Needle &quot;E&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Left Needle &quot;A&quot; (Orange)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Overedge Right Needle &quot;B&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
</tbody>
</table>

Three-Thread Overlock (wide-decorative) page 2
Thread Upper Looper with decorative thread.

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

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

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 Looper 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 Looper with decorative overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the Lower Looper 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 ⑥.

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).

11. Thread eye of looper.

NOTE: Make sure the Upper Looper thread is behind the Lower Looper thread.
Thread Overedge Left 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 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.
Try It:

- Align double-sided quilted fabric so that the knife just slightly trims the fabric edge.
- Sew.
Three-Thread Flatlock
(Narrow and Wide)
Three-Thread Flatlock (Narrow)

The Flatlock Stitch is used decoratively to achieve the look of applied trim on a garment, craft or home decorator projects. Special decorative threads are used for a textured and dramatic embellishment effect. The Flatlock Stitch can also be used to serge non-bulky seams. The Flatlock Stitch is sewn with one needle and the upper and lower loopers. Both sides of the Flatlocking Stitch are considered decorative. The decorative loop effect is achieved when the Flatlock seams are stitched with the fabrics wrong sides together. The ladder stitch is achieved when the Flatlock seams are stitch with the fabrics right sides together. There are 2 different ways to set up for a Three-Thread Flatlock stitch. For a more narrow stitch (4.0) select the right overedge needle; for a wider stitch (6.0) the left overedge needle is used.
**Needle:**

- Left Overedge Needle "A"
- Right Overedge Needle "B"
- Cover Stitch Left Needle "C"
- Cover Stitch Right Needle "E"
- Cover Stitch Middle Needle/Chain Stitch Needle "D"

### Set Up:

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>&quot;F&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle &quot;C&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle &quot;D&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Right Cover Stitch Needle &quot;E&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Left Needle &quot;A&quot;</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Right Needle &quot;B&quot; (Blue)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Upper Looper (Green)</td>
<td>Looper Engaged and Threaded</td>
</tr>
<tr>
<td>Spreader</td>
<td>Disengaged</td>
</tr>
<tr>
<td>Lower Looper (Red)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Chain Stitch Looper (Brown)</td>
<td>Unthreaded</td>
</tr>
<tr>
<td>Upper Knife</td>
<td>Engaged</td>
</tr>
<tr>
<td>Seam Guide Plate</td>
<td>Not Installed, use Knife Cover Plate</td>
</tr>
<tr>
<td>Seam Width Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Length Dial</td>
<td>&quot;2&quot;</td>
</tr>
<tr>
<td>Presser Foot Pressure</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Differential Feed Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Finger</td>
<td>&quot;N&quot;</td>
</tr>
</tbody>
</table>
The Flatlock stitch, with fabric’s right sides together, form a ladder stitch. A ribbon can then be woven by hand in and out of the stitches. The ladder stitch is ideal for joining laces together, as seen in heirloom sewing. Another idea for the ladder stitch is to use decorative thread through the needle to form a bold embellishment to projects.
- Turn Auto Tension Dial to “F”.

- Turn Stitch Length Dial to “2”.

- 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.
• Turn Presser Foot Pressure 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.
• **Disengage Spreader.** The Upper Looper 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 Looper 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 Looper.

   ![Spreader Engaged](image1)
   ![Spreader Disengaged](image2)

• **Thread Upper Looper with regular overlock thread.**

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

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

   ![Thread Diagram](image3)
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 Looper from front to back. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

* Thread Lower Looper with regular overlock thread.
  1. Raise the Presser foot to release the Tension disks. Thread the Lower Looper as illustrated 1-10.

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

  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.
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. 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.

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.
Try It:

- Fold T-shirt interlock fabric wrong sides together lengthwise.
- Align the fabric so that the fabric’s fold is not being trimmed by the knife.
- Sew.
- Gently pull the fabric flat and press.

Hint:
If the fabric is not laying flat, align the fabric farther to the left of the knife.
The Three-Thread Flatlock (wide) has the same set up as the Three-Thread Flatlock (narrow) Stitch. The only exception is the Right Overedge Needle is now unthreaded and removed and the Left Overedge Needle is threaded. By using the left needle, the stitch becomes wider.
### Needle:

- **Left Overedge Needle “A”**
  - Threaded
- **Right Overedge Needle “B”**
  - Unthreaded and Remove Needle
- **Cover Stitch Left Needle “C”**
  - Unthreaded and Remove Needle
- **Middle Cover Stitch Needle “D”**
  - Unthreaded and Remove Needle
- **Right Cover Stitch Needle “E”**
  - Unthreaded and Remove Needle
- **Overedge Left Needle “A” (Orange)**
  - Threaded
- **Overedge Right Needle “B”**
  - Unthreaded and Remove Needle
- **Upper Looper (Green)**
  - Looper Engaged and Threaded
- **Spreader**
  - Disengage
- **Lower Looper (Red)**
  - Threaded
- **Chain Stitch Looper (Brown)**
  - Unthreaded
- **Upper Knife**
  - Engaged
- ** Seam Guide Plate**
  - Not Installed, use Knife Cover Plate
- **Seam Width Dial**
  - “N”
- **Stitch Length Dial**
  - “2”
- **Presser Foot Pressure**
  - “N”
- **Differential Feed Dial**
  - “N”
- **Stitch Finger**
  - “N”

**Set at:**

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>“F”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle “C”</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle “D”</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Right Cover Stitch Needle “E”</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Overedge Left Needle “A” (Orange)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Overedge Right Needle “B”</td>
<td>Unthreaded and Remove Needle</td>
</tr>
<tr>
<td>Upper Looper (Green)</td>
<td>Looper Engaged and Threaded</td>
</tr>
<tr>
<td>Spreader</td>
<td>Disengage</td>
</tr>
<tr>
<td>Lower Looper (Red)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Chain Stitch Looper (Brown)</td>
<td>Unthreaded</td>
</tr>
<tr>
<td>Upper Knife</td>
<td>Engaged</td>
</tr>
<tr>
<td>Seam Guide Plate</td>
<td>Not Installed, use Knife Cover Plate</td>
</tr>
<tr>
<td>Seam Width Dial</td>
<td>“N”</td>
</tr>
<tr>
<td>Stitch Length Dial</td>
<td>“2”</td>
</tr>
<tr>
<td>Presser Foot Pressure</td>
<td>“N”</td>
</tr>
<tr>
<td>Differential Feed Dial</td>
<td>“N”</td>
</tr>
<tr>
<td>Stitch Finger</td>
<td>“N”</td>
</tr>
</tbody>
</table>
Left Overedge Needle Thread

Upper Looper Thread

Right Overedge Needle Thread

Lower Looper Thread

Decorative Ladder Effect (wide)
Fabric Right Sides Together

Decorative Loop Effect (wide)
Fabric Wrong Sides Together
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 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 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:

• Fold sweatshirt fabric wrong sides together, lengthwise.

• Align the fabric so that the fabric’s fold is not being trimmed by the knife.

• Sew.

• Gently pull the fabric flat and press.

Hint:
If the fabric is not laying flat, align the fabric farther to the left of the knife.
Three-Thread Ultra-Stretch Mock Safety Stitch
Three-Thread Ultra-Stretch Mock Safety Stitch

This stitch stretches with the fabric, the seam will not break when the fabric is stretched. It is ideal for super-stretch knits like those used on swimwear or athlete clothing. This stitch uses two needles and one looper.
Needle:

**ATD:**
- Left Overedge Needle "A" (Orange) - Threaded
- Middle Cover Stitch Needle "C" - Not Threaded
- Right Cover Stitch Needle "E" - Not Threaded
- Overedge Left Needle "A" (Orange) - Threaded
- Overedge Right Needle "B" (Blue) - Threaded
- Upper Looper (Green) - Looper Engaged and Not Threaded
- Lower Looper (Red) - Threaded
- Chain Stitch Looper (Brown) - Not Threaded
- Upper Looper Clutch - "L"
- Upper Knife - Engaged
- Seam Guide Plate - Not Installed Use Knife Guide
- Seam Width Dial - "N"
- Stitch Length Dial - "2"
- Presser Foot Pressure - "N"
- Differential Feed Dial - "N"
- Stitch Finger - "N"

Set at:

Three-Thread Ultra-Stretch Mock Safety Stitch page 2
• Turn Auto Tension Dial to “G”.

• Turn Stitch Length Dial to “2”.

• 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.
• 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.
Engage Spreader. The Upper Looper 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 Looper 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 Looper.

Thread Lower Looper with regular overlock thread.

1. Raise the Presser Foot to release the Tension disks. Thread the Lower Looper as illustrated 1-10.

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

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.

- **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.
Thread Left Overedge needle with regular thread.

1. Raise the Presser foot to release the tension disks. Thread the left needle as indicated 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 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.
Try It:

- Align two pieces of fabric, right sides together so that the knife just slightly trims the fabric’s edges.
- Sew.
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.
### Set up:

#### Needle:
- **Left Overedge Needle** "A"
- **Middle Cover Stitch Needle** "D"
- **Right Cover Stitch Needle** "E"
- **Overedge Left Needle** "A" (Orange)
- **Overedge Right Needle** "B" (Blue)
- **Upper Looper** (Green)
- **Spreader**
- **Lower Looper** (Red)
- **Chain Stitch Looper** (Brown)
- **Upper Looper 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"

#### 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 Looper** (Green) Looper Engaged and Threaded
- **Spreader** Disengaged
- **Lower Looper** (Red) Threaded
- **Chain Stitch Looper** (Brown) Not Threaded
- **Upper Looper 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
- 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](image1)
![Upper Knife Engaged](image2)

Four-Thread Ultra-Stretch Mock Safety Stitch page 4
• Turn Presser Foot Pressure Dial to “N”.

• Turn Differential Feed Dial to “N”.

• Turn Seam Width Dial to “N”.

• Set Stitch Finger to “N”.

Four-Thread Ultra-Stretch Mock Safety Stitch page 5
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.
Disengage Spreader. The Upper Looper 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 Looper 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 Looper.

Thread Upper Looper with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the Lower Looper 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 Looper from front to back. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

Thread Lower Looper with regular overlock thread.

1. Raise the Presser Foot to release the Tension disks. Thread the Lower Looper as illustrated 1-10.

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

- **Left Overedge Needle** "A" - Not Threaded
- **Middle Cover Stitch Needle** "C" - Threaded
- **Right Overedge Needle** "B" - 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"

---

**Set at:**

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>&quot;i&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle &quot;C&quot;</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle &quot;D&quot; (Orange)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Right Cover Stitch Needle &quot;E&quot;</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>Overedge Left Needle &quot;A&quot;</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>Overedge Right Needle &quot;B&quot; (Blue)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Upper Looper</td>
<td>Looper Engaged and Not Threaded</td>
</tr>
</tbody>
</table>

---

*Four-Thread Safety Stitch page 2*
- 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
• 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**
Engage Spreader. The Upper Looper 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 Looper 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 Looper.

Thread Lower Looper with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the Lower Looper as illustrated 1-10.

2. Pass thread from back to the front through the thread guide ③.
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 ➄.

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

9. Place the thread through ➆, ➇, and ➈.
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).

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") 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 ③ 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.

- 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 \( \text{\textcircled{5}} \). Go over the take up lever \( \text{\textcircled{6}} \). Continue by slipping the thread into the right slot of the thread guides \( \text{\textcircled{7}} \) and \( \text{\textcircled{8}} \).

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 \( \text{\textcircled{9}} \).
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 the knife just slightly trims the fabric edge.
- Sew.
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 at:

Five-Thread Safety Stitch Narrow

Five-Thread Safety Stitch Wide
Needles:

- Left Overedge Needle "A" (Blue) threaded
- Right Overedge Needle "B" not threaded
- Cover Stitch Left Needle "C" not threaded
- Cover Stitch Right Needle "E" not threaded
- Cover Stitch Middle Needle/Chain Stitch Needle "D" threaded

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

Five-Thread Safety Stitch Wide page 2
• 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.
• Turn Presser Foot Pressure Dial to “N”.

• Turn Differential Feed Dial to “N”.

• Turn Seam Width Dial to “N”.

• Set Stitch Finger to “N”.

Five-Thread Safety Stitch Wide page 4
• **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](image1)

![Upper Looper Engaged](image2)

![Diagram](image3)
Disengage Spreader. The Upper Looper 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 Looper 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 Looper.

Thread Upper Looper with regular overlock thread.

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

2. Pass thread from back to the front through the thread guide ③.
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 Looper from front to back ®. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

- **Thread Lower Looper with regular overlock thread.**
  1. Raise the Presser Foot to release the tension disks. Thread the Lower Looper as illustrated 1-10.
  2. Pass thread from back to the front through the thread guide ®.

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 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.
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 foward 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.
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.
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:**

- Left Overedge Needle "A" Not Threaded
- Right Overedge Needle "B" Threaded
- Cover Stitch Left Needle "C" Not Threaded
- Cover Stitch Right Needle "E" Not Threaded
- Cover Stitch Middle Needle/Chain Stitch Needle "D" Threaded

**Set at:**

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

Five-Thread Safety Stitch Narrow page 2
• 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.
- Turn Presser Foot Pressure dial to “N”.
- Turn Differential Feed Dial to “N”.
- Turn Seam Width Dial to “N”.
- Set Stitch Finger to “N”.

Five-Thread Safety Stitch Narrow page 4
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 Looper 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 Looper 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 Looper.

Thread Upper Looper with regular overlock thread.

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

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

Eye of Looper

Spreader Engaged

Spreader Disengaged
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 Looper from front to back ⑤. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

- Thread Lower Looper with regular overlock thread.
  1. Raise the Presser Foot to release the Tension disks. Thread the Lower Looper as illustrated 1-10.
  2. Pass thread from back to the front through the thread guide ⑨.

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 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 ⑤ 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.
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 ☼.

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 terrycloth right sides together.
- Align the fabric so that the knife just slightly trims the fabric edge.
- Sew.
Cover Stitch Narrow
Cover Stitch Narrow

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 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:**
- Left Overedge Needle "A"
- Right Overedge Needle "B"
- Cover Stitch Left Needle "C"
- Cover Stitch Right Needle "E"
- Cover Stitch Middle Needle/Chain Stitch Needle "D"

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

Cover Stitch Narrow page 2
Cover Stitch 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](image1.png)

![Upper Knife Disengaged](image2.png)
• Turn Presser Foot Pressure Dial to “N”.

• Turn Differential Feed Dial to “N”.

• Turn Seam Width Dial to “N”.

• Set Stitch Finger to “R”.

Cover Stitch Narrow page 4
- **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.
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.
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 6. Go over the take up lever 5. 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 ⑩.

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.
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. 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.
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.
### Needle:

- **Left Overedge Needle** "A" (Orange) Unthreaded
- **Overedge Right Needle** "B" (Blue) Unthreaded
- **Overedge Left Needle** "A" (Orange) Unthreaded
- **Middle Cover Stitch Needle** "D" Not Threaded
- **Right Cover Stitch Needle** "E" (Green) Threaded
- **Upper Looper** Looper Disengaged and Not Threaded
- **Upper Knife** Non-working Position
- **Spreader** Not Used
- **Lower Looper** Not Threaded
- **Cover Stitch Middle Needle/Chain Stitch Needle** "D"
- **Cover Stitch Left Needle** "C" Threaded
- **Cover Stitch Right Needle** "E" Threaded

### Set at:

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

Cover Hem Wide part 1
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.
• Turn Presser Foot Pressure Dial to “N”.

• Turn Differential Feed Dial to “N”.

• Turn Seam Width Dial to “N”.

• Set Stitch Finger to “R”.
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.
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 ⑤ and ③.

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.
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 6. 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.
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.

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.
Triple Cover Stitch
Triple Cover Stitch

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:**
- Left Overedge Needle "A" (Orange)
- Middle Cover Stitch Needle "D" (Blue)
- Right Overedge Needle "B" (Green)
- Cover Stitch Left Needle "C" (Orange)
- Cover Stitch Right Needle "E" (Green)
- Cover Stitch Middle Needle/Chain Stitch Needle "D"

**ATD:**
- Auto Tension Dial: "J"

**Set at:**
- Left Cover Stitch Needle "C" (Orange): Threaded
- Middle Cover Stitch Needle "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.
• Turn Presser Foot Pressure Dial to “N”.

• Turn Differential Feed Dial to “N”.

• Turn Seam Width Dial to “N”.

• Set Stitch Finger to “R”.

Triple Cover Stitch page 4
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.
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 ➍ and ❼.

7. Continue threading guides ➊, ➋, ➌ and ❼.

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.
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 ❼. Go over the take up lever ❽. Continue by slipping the thread into the middle slot of the thread guides ❹ and ❾.

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 ❿.

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.
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.
Set up:

**Needles:**
- Left Overedge Needle "A" 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"

Set at:

<table>
<thead>
<tr>
<th>ATD: Auto Tension Dial</th>
<th>&quot;C&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Cover Stitch Needle &quot;C&quot;</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>Middle Cover Stitch Needle &quot;D&quot;</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>Right Cover Stitch Needle &quot;E&quot;</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>Overedge Left Needle &quot;A&quot;</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>Overedge Right Needle &quot;B&quot; (Blue)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Upper Looper (Green)</td>
<td>Looper Engaged and Threaded</td>
</tr>
<tr>
<td>Spreader</td>
<td>Not Used</td>
</tr>
<tr>
<td>Lower Looper (Red)</td>
<td>Threaded</td>
</tr>
<tr>
<td>Chain Stitch Looper (Brown)</td>
<td>Not Threaded</td>
</tr>
<tr>
<td>Upper Looper Clutch</td>
<td>&quot;L&quot;</td>
</tr>
<tr>
<td>Upper Knife</td>
<td>Engaged</td>
</tr>
<tr>
<td>Seam Guide Plate</td>
<td>Not Installed Use Knife Cover</td>
</tr>
<tr>
<td>Seam Width Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Length Dial</td>
<td>&quot;1&quot;</td>
</tr>
<tr>
<td>Presser Foot Pressure</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Differential Feed Dial</td>
<td>&quot;N&quot;</td>
</tr>
<tr>
<td>Stitch Finger</td>
<td>&quot;R&quot;</td>
</tr>
</tbody>
</table>
• 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.
• Turn Presser Foot Pressure Dial to “N”.

• Turn Differential Feed Dial to “N”.

• Turn Seam Width Dial to “N”.

• Set Stitch Finger to “R”.

Three-Thread Rolled Hem Page 4
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.

Three-Thread Rolled Hem Page 5
• **Disengage Spreader.** The Upper Looper 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 Looper 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 Looper.

• **Thread Upper Looper with regular overlock thread.**

  1. Raise the Presser Foot to release the tension disks. Thread the Lower Looper 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 Looper from front to back. Pull about 4 inches of thread through the looper and place to the back of the throat plate.

Thread Lower Looper with regular overlock thread.

1. Raise the Presser Foot to release the tension disks. Thread the Lower Looper as illustrated 1-10.

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

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. 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 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.
• Align a piece of lightweight fabric so that the fabric’s edge is being slightly trimmed by the knife.

• Sew.