







WORKBOOK #1 – BASIC SERGER USE For bernette Overlockers: b44, b48

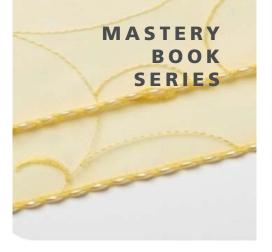






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The information in this workbook applies to the bernette Overlocker Machines models shown above.

Note: Some exercises apply only to certain models equipped with the feature being highlighted.



INTRODUCTION

Congratulations on the purchase of your new bernette overlocker. Learning to use your new machine to its fullest capabilities will let you enjoy your machine for many years. Understanding your machine's features and learning its navigation will maximize your creativity. While you will be learning some basics, you'll also be learning some creative techniques, and we hope both will be inspirational.

Your overlocker will speed your sewing in many ways, letting you produce more in less time. The speed of the overlocker is faster than a sewing machine, and because it performs several operations (trimming, seaming, and overcasting) at the same time, your project is finished faster and will produce neater and more professional results.

Even though the workings of the overlocker may appear be more complex than a sewing machine, it doesn't take long to learn the basics. The stitching exercises in this workbook use four, three, and two thread stitch formations.

Once you have completed the exercises designated for your bernette overlock machine, attach the sewn samples to the indicated pages, insert the pages into plastic page protectors and store them in a 3-ring binder. Use this workbook as a reference tool in the future as you learn to use your overlocker in new ways.

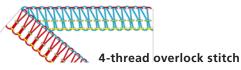
For more information on the bernette line of sewing machines and overlockers, as well as sewing projects, visit:

www.mybernette.com



Click here to watch additional YouTube tutorial videos about the b44 and b48.





3-thread overlock stitch





REFERENCE - OVERLOCKER NEEDLES

bernette Overlocker Needles

Along with thread, needles are very important to stitch formation. Many mechanical problems and damage to fabrics can be traced to a bent, damaged, or incorrect size or type needle.

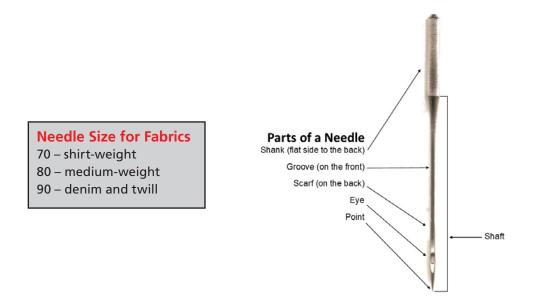
When selecting the correct needle, consider the following:

- Recommended needle system ELx705. These needle are a flat shank industrial needle. A pack of these needles is included with the overlocker.
- Recommended sizes for your overlocker are 70/11, 80/12 and 90/14. Larger needles can interfere with looper movement and cause damage; smaller needles may not form the stitches correctly.
- Needle point assures proper stitch formation; avoids fabric damage

Need to Know

- Always make sure needles are fully inserted as high as possible, with the flat side to the back. The left needle will appear to be slightly higher than the right needle.
- Do not pull or push fabric while sewing. This can result in needle breakage or damage.
- Do not use bent or damaged needles.
- The needle is the most inexpensive part in your sewing machine, but it is crucial for getting good results and keeping your machine running well.
- The selected thread should fit in the groove on the front of the needle. If it isn't protected by the groove, a needle with a larger groove should be used.

Tip: If one needle breaks, it is a good habit to change both needles. Keeping the needle size and type the same results in a better formed stitch.





REFERENCE - OVERLOCKER THREADS

Overlocker Threads

Overlocker threads are usually polyester and are finer (lighter weight) than many sewing machine threads to avoid thread build-up and excessive bulk in seams. It is important that the thread is smooth and without variations in diameter as it needs to feed smoothly through many thread guides for good stitch formation.

You also want a good-quality thread – such as Mettler Seracor – that is not "fuzzy" and does not leave excessive lint in the lower part of your overlocker. Overlocker threads are sold on larger spools for economy and convenience; regular spools of thread may be used but will not last very long when forming overlock stitches. Along with overlocker thread, there are applications that call for specialty and decorative threads.

Listed below are some of these threads commonly used in the overlocker:

- Texturized Nylon Thread such as YLI Woolly Nylon or Maxi-Lock Stretch—A very elastic thread with excellent coverage; perfect for rolled edges and knit seams. Available in solid and variegated colors, and metallics.
- Polyester Topstitching Thread such as YLI Jeans Stitch & Mettler Cordonnet this heavy thread is used for decorative stitching (flatlocked seams and overcast edges). Also nice for cover and chain stitching. Available in solid and variegated colors.
- Rayon Decorative Threads such as YLI Pearl Crown Rayon & YLI Designer 6 shiny threads for decorative applications. Pearl Crown Rayon is twisted, while Designer 6 is untwisted. Available in solid and variegated colors.
- Metallic Decorative Threads such as YLI Candlelight adds a bit of glitz to seams and edgings.
- Decorative Sewing Threads sewing machine threads can also be used in the overlocker, and are particularly effective when several are used together as one thread.



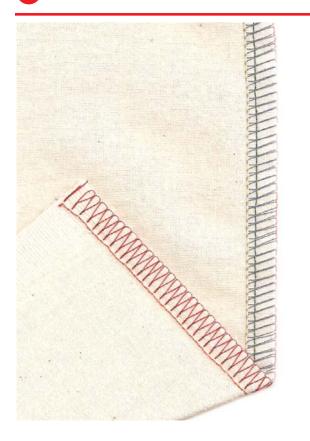


4-THREAD OVERLOCK STITCH

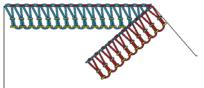
Firm fabric, 6" x 6"

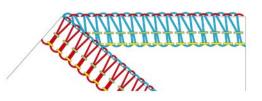
80/12 ELx705

- 4 Spools Serger Thread (B, R, G, Y)
- 4-Thread Overlock Stitch
- Standard



Left Needle
 Right Needle
 Upper Looper
 Lower Looper





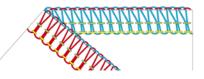
- 1. Thread the overlocker for a 4-thread overlock stitch using thread colors to match the color-coded threading path on the machine. Adjust all thread tension settings as indicated in chart below.
- **2.** Fold the fabric in half to 3" x 6".
- 3. For best results, raise the needles to their highest position before stitching. To begin stitching, lift the front of the presser foot with your thumb and slide the fabric under the presser foot. Release the tip of the presser foot and begin stitching, trimming the fold away. NOTE: Trimming a minimum of 1/4" will result in a cleaner edge finish.
- **4.** Stitch to the end of the fabric. Continue stitching off the fabric until you have a 3"- 4" thread chain. Cut thread chain with scissors.
- 5. Examine the stitch formation:
 - Blue: Loops should extend to the edge of the fabric where they will interlock with the red loops of the lower looper.
 - Red: Loops should extend to the edge of the fabric, interlocking with the blue loops of the upper looper.
 - Yellow: Needle stitches should appear along the inside edge of the stitch as straight stitches or tiny "dots" of thread on the back.
 - Green: Needle stitches should appear as a line of straight stitching running through the middle of the overlock stitching.
- 6. See following page for tension adjustment information. Make any necessary tension adjustments and sew another 4-thread overlock stitch. Record your setting adjustments on the fabric if necessary.

THE	THREAD TENSION SETTING				MACHIN	E SETUP	
Left	Right	Upper	Lower	Stitch	Cutting	DIFFERENTIAL	Rolled Hem
Needle	Needle	Looper	Looper	Length	Width	Feed	Lever
4	4	4	4	2.5	6	1	Ν



ADJUSTING TENSION SETTINGS FOR BALANCED STITCH

Examine your 4-thread sample. The illustrations below show examples of unbalanced stitches and how to correct the settings to balance the stitch. When making corrections in the tension settings, increase or decrease the settings as needed, moving the dial $\frac{1}{2}$ to 1 number at a time. Stitch a seam using the new settings and then evaluate the new stitch. Continue in this manner until the stitch is balanced.



XXXXXXXXXXX	Upper and Lower Loopers - Tight Tension
ATTENENT A	Unbalanced: The looper threads cause the thread to roll at the edge of the fabric and/or the seam allowance is folded inside the stitch.
Bre	Correction: Decrease (lower number) one or both looper tensions until the seam allowance is flat and loopers meet at the edge. Note: This problem might also result from an incorrect cutting width setting.
NONNONNOP	Upper Looper - Loose Tension
A A A A A A A A A A A A A A A A A A A	Unbalanced: The looper threads are not at the edge of the fabric. Upper looper thread is visible on the back of the fabric and the looper threads are very loose.
T3.a	Correction: Make sure the thread is seated in the tension guides. If it is, tighten the upper looper thread (higher number).
00000000	Lower Looper - Loose Tension
HANNAK	Unbalanced: The looper threads do not lock on the edge of the fabric. Lower looper thread is visible on the face of the fabric. The looper threads are very loose.
	Correction: Make sure the thread is seated in the tension guides. If it is, tighten the lower looper thread (higher number).
TARAAAAAA	Left Needle - Loose Tension
ALL	Unbalanced: The yellow needle forms loops on the underside of the fabric. The seam is not secure and the yellow thread may show in the seam line.
A.	Correction: Make sure the yellow thread is seated in the tension guide. If it is, tighten the left needle tension (higher number).
TANANA ANA ANA	Right Needle - Loose Tension
XXXXXXXXXXXX	Unbalanced: The green needle thread forms loops on the underside of the fabric.
Willie	Correction: Make sure the green thread is seated in the tension guide. If it is, tighten the right needle tension (higher number).
MANANANA ANA	Right and Left Needles - Tight Tension
munite	Unbalanced: The green and yellow needle threads are pulled taut, causing puckers in the fabric at the seam line.
1. M. Berl	Correction: Make sure the threads are seated in the tension guides or have not double- wrapped around a threading guide. If they have, unwrap or loosen appropriate needle tension (lower number).



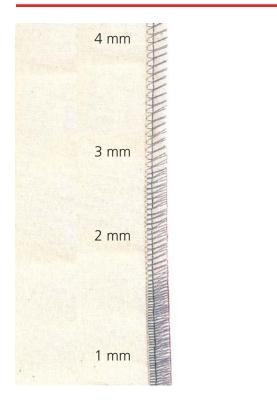
STITCH LENGTH

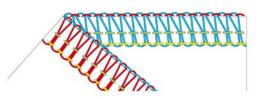
Firm fabric, 6" x 6"

80/12 ELx705

- 4 Spools Serger Thread (B, R, G, Y)
- 4-Thread Overlock Stitch

Standard





Using the balanced 4-thread overlock stitch from the previous exercise, follow the instructions below to adjust the stitch length.

- **1.** Fold the fabric in half to 3" x 6".
- **2.** Using a fabric marker, divide the fabric into four equal sections along the folded edge.
- **3.** Adjust the stitch length to 4 mm. Sew to the first mark along the folded edge, trimming folded edge approximately 1/4".
- **4.** Adjust the stitch length to 3 mm and sew to the second mark.
- 5. Adjust the stitch length to 2 mm and sew to the third mark.
- 6. Adjust the stitch length to 1 mm and sew to the end.
- 7. Mark the stitch length settings on the fabric sample.
- 8. Return stitch length to its normal setting of 2.5mm.

NOTE: Stitch length adjustments may be needed to accommodate thicker or thinner threads or different weights of fabric, as well as being used for decorative effects.

General gui	General guidelines for stitch length settings					
2.5 mm Standard setting						
1-2 mm Rolled hems and decorative edges						
2.5-4 mm	Heavy weight fabrics					
3-4 mm	Gathering and applying elastic					

THE	THREAD TENSION SETTING				MACHIN	E SETUP	
Left Needle	Right Needle	Upper Looper	Lower Looper	Stitch Length	Cutting Width	Differential Feed	Rolled Hem Lever
4	4	4	4	1-4 mm	6	1	Ν



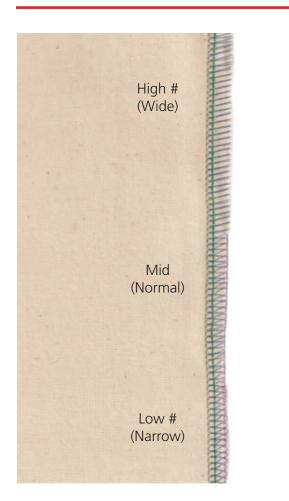
CUTTING WIDTH

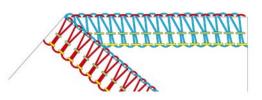
Firm fabric, 6" x 6"

80/12 ELx705

- 4 Spools Serger Thread (B, R, G, Y)
- 4-Thread Overlock Stitch

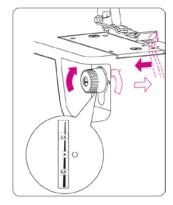
Standard





The overlocker should be threaded for a 4-thread overlock stitch using thread colors to match the color-coded threading path on the overlocker. Adjust all thread tension settings as indicated below, or as previously determined.

- **1.** Fold the fabric in half to 3" x 6".
- **2.** Using a fabric marker, divide the fabric into three equal sections along the folded edge.
- **3.** Adjust the cutting width to the widest setting by turning the dial counter clockwise. Sew to the first mark on the fabric, stopping when the knife edge is on the mark.
- Turn the dial clockwise to adjust the cutting width to a mid-range setting (•) and overlock to the second mark.
- **5.** Turn the dial clockwise again to adjust the cutting width to the lowest setting and overlock to the end of the fabric.
- 6. Mark the cutting width settings on the fabric sample.
- 7. Return cutting width to its normal setting (•).

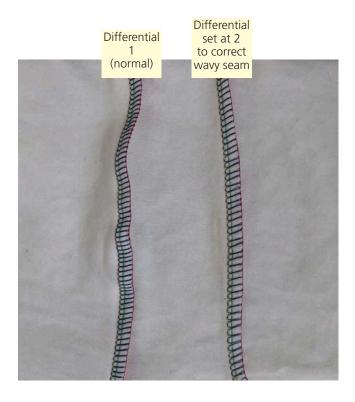


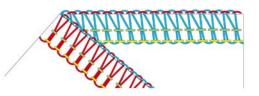
THE	THREAD TENSION SETTING				MACHIN	E SETUP	
Left	Right	Upper	Lower	Stitch	CUTTING	Differential	Rolled Hem
Needle	Needle	LOOPER	Looper	Length	WIDTH	Feed	Lever
4	4	4	4	2.5	N		

DIFFERENTIAL FEED: STRETCHY FABRICS



*Cut jersey knit so that the 6" side has the most stretch.



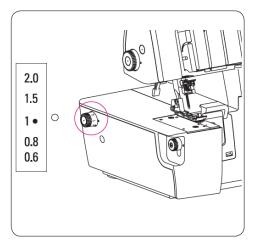


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WISS DESIGN

The overlocker should be threaded for a 4-thread overlock stitch using thread colors to match the color-coded threading path on the machine. Adjust all thread tension settings as indicated below or as previously determined in the earlier exercises.

- With the differential set at 1 (normal), sew two of the knit pieces together along the stretchy 6" edge. When stitching on fabric that is very stretchy, you may notice that you have a wavy or stretched-out seam when sewing with the Differential Feed Dial at the normal setting.
- **2.** To correct this, adjust the differential to 2.0. Sew the remaining ribbing to the other side of the first piece, trimming slightly.
- **3.** Mark the differential settings on the fabric sample.
- **4.** Return Differential Feed Dial to its normal setting of 1.



THE	THREAD TENSION SETTING				MACHIN	E SETUP		
Left Needle	Right Needle	Upper Looper	Lower Looper	Stitch Length				
4	4	4	4	2.5	6	1-2	N	



DIFFERENTIAL FEED: SOFT FABRICS



80/12 ELx705

4 Spools Serger Thread (B, R, G, Y)

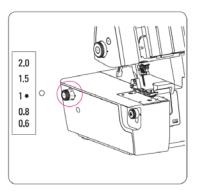
4-Thread Overlock Stitch

Standard



With the overlocker still threaded for a 4-thread overlock stitch and using thread colors to match the color-coded threading path on the machine, adjust all thread tension settings as indicated in the chart below or as previously determined.

- Place the tricot pieces right sides together. With the differential set at 1 (normal), stitch along the 6" side of the soft fabric together along one 6" edge, trimming about 1/4" off the edge. When sewing on very lightweight fabric, you may notice that you have a puckered edge.
- 2. To correct this, adjust the Differential Feed to 0.6. Sew along the other 6" edge, trimming about 1/4" from the edge of the fabric.
- **3.** Mark the differential settings on the fabric sample.
- **4.** Return Differential Feed Dial to its normal setting of 1.



THE	THREAD TENSION SETTING				MACHIN	E SETUP	
LEFT	Right	Upper	Lower	Stitch	Cutting	Differential	Rolled Hem
Needle	Needle	Looper	Looper	Length	Width	Feed	Lever
4	4	4	4	2.5	6	16	N



PRESSER FOOT PRESSURE

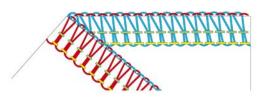
3" x 6" polar fleece

80/12 ELx705

- 4 Spools Serger Thread (B, R, G, Y)
- 4-Thread Overlock Stitch
- Standard







With the overlocker still threaded for a 4-thread overlock stitch and using thread colors to match the color-coded threading path on the machine, adjust all thread tension settings as indicated in the chart below or as previously determined.

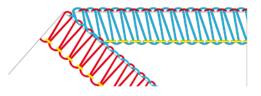
Note: The Presser Foot Pressure of the machine is preadjusted at the factory to suit the sewing of medium weight fabrics. Most fabrics do not require adjustment of the Presser Foot Pressure.

However, there are some instances where adjustment is necessary, such as when sewing light weight or heavy weight fabrics.

- **1.** With presser foot pressure set to "L", sew two layers of fleece together along the 6" side.
- **2.** Adjust presser foot pressure to "H" and sew the remaining layer of fleece to the other 6" side of the fabric used in previous step.
- **3.** Determine which presser foot pressure setting resulted in more even feeding of the material through the machine.
- 4. Return the presser foot pressure to the normal setting.

THE	THREAD TENSION SETTING			MACHINE SETUP				
Left Needle	Right Needle	Upper Looper	Lower Looper	Stitch Length	Cutting Width	Differential Feed	Rolled Hem Lever	Presser Foot Pressure
4	4	4	4	2.5	6	1	Ν	L то H

3-THREAD OVERLOCK STITCH-WIDE



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SWISS DESIGN

Firm fabric, 6" x 6"

80/12 ELx705

- 3 Spools Serger Thread (Y, R, B)
- 3-Thread Overlock Stitch (wide/narrow)

Standard



For this exercise, the overlocker will be threaded for a wide 3-thread overlock stitch using only the left needle and thread colors to match the color-coded threading path on the overlocker. Adjust all thread tension settings for a balanced stitch as indicated in chart below.

- Using the small screwdriver and needle holder tool, remove the right needle and thread. Tighten the needle set screw after removing the right needle. The left needle will remain threaded.
- **2.** Fold fabric in half to 3" x "6". Stitch along the folded edge of the fabric, trimming 1/4".

т	HREAD TE	NSION SETTIN	G	MACHINE SETUP				
Left Needle	Right Needle	Upper Looper	Lower Looper	Stitch Length	Cutting Width	Differential Feed	Rolled Hem Lever	* b44
3	-	4* / 4.5**	3.5	2.5	6	1	N	**b48

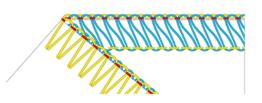


3-THREAD FLATLOCK - WIDE

- Firm fabric, 6" x 6"
 - 80/12 ELx705
 - 3 Spools Serger Thread (Y, B, R)
 - 3-Thread Flatlock (wide)
 - Standard



Decorative Thread Tip: A heavy thread such as YLI Jeans Stitch, Pearl Crown Rayon, or Designer 6 can be used in the looper for a more decorative look. When working with heavy decorative threads, loosen the upper looper tension and lengthen the stitch length as needed for the desired look.



For this exercise, the overlocker will be threaded for a wide 3-thread flatlock stitch using the left needle and thread colors to match the color-coded threading path on the overlocker. Adjust all thread tension settings for a flatlock stitch as indicated in chart below.

Note: If following instructions in the Mastery book, the right needle was removed in the previous exercise so you will skip Step 1.

- Using the small screwdriver and needle holder tool, insert the left needle and remove the right needle. Tighten the needle set screw after inserting or removing needles.
- 2. Fold the fabric in half, wrong sides together, to 3" x 6".
- **3.** Place the fold under the presser foot. Guide the fabric halfway between the left needle and the right edge of the stitch finger. This method allows the fabric to lay totally flat under the stitches.

Optionally, you may choose to trim the folded edge which will allow one fabric to lay on top of the other. This is the preferred method if using the flatlock stitch as a seam.

- **4.** Slowly sew the fabric. The looper threads will extend beyond the fabric on the right side of fold.
- **5.** Gently pull the fabric flat.

THREAD TENSION SETTING			MACHINE SETUP				1	
Left Needle	Right Needle	Upper Looper	Lower Looper	Stitch Length	Cutting Width	Differential Feed	Rolled Hem Lever	*
0	-	4.5	7.5* / 7**	2.5	6	1	N	*

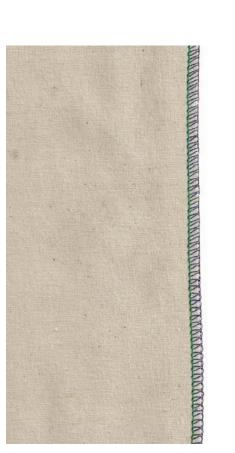
3-THREAD OVERLOCK STITCH-NARROW

Firm fabric, 6" x 6"

80/12 ELx705

- 4 Spools Serger Thread (G, R, B)
- 3-Thread Overlock Stitch (wide/narrow)

Standard



For this exercise, you will thread the overlocker for a 3-thread narrow overlock stitch using the right needle and thread colors to match the color-coded threading path on the overlocker. Adjust all thread tension settings for a balanced stitch as indicated below.

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Note: If following instructions in the Mastery book, the right needle was removed in the previous exercise You will now be inserting the right needle and removing the left to complete this exercise.

- Using the small screwdriver and needle holder tool, loosen the right needle screw and insert the right needle. Tighten the needle set screw. Thread the needle.
- 2. Remove the left needle thread. Loosen the left needle set screw and remove the left needle.
- **3.** Fold the fabric in half to a 3" x 6" rectangle and stitch along the fold of the fabric, trimming 1/4".
- **4.** Using this same stitch, finish edge of one 6" side of the fabric to see how the stitch looks on a single layer.

	THREAD TENSION SETTING				MACHIN	E SETUP		
Left Needle	Right Needle	Upper Looper	Lower Looper	Stitch Length	Cutting Width	Differential Feed	Rolled Hem Lever	* b44
-	4*/4.5**	4*/ 4.5**	4	2.5	6	1	N	**b48

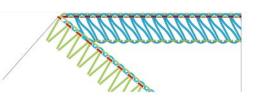


3-THREAD FLATLOCK - NARROW

- Firm fabric, 6" x 6"
 - 80/12 ELx705
 - 3 Spools Serger Thread (G, B, R)
 - 3-Thread Flatlock (wide)
 - Standard



Decorative Thread Tip: A heavy thread such as YLI Jeans Stitch, Pearl Crown Rayon, or Designer 6 can be used in the looper for a more decorative look. When working with heavy decorative threads, loosen the upper looper tension and lengthen the stitch length as needed for the desired look.



For this exercise, the overlocker will be threaded for a narrow 3-thread flatlock stitch using the right needle and thread colors to match the color-coded threading path on the overlocker. Adjust all thread tension settings for a flatlock stitch as indicated in chart below.

Note: If following instructions in the Mastery book, the right needle was inserted and threaded, and the left needle and thread was removed in the previous exercise. If so, you will skip Steps 1 and 2.

- Using the small screwdriver and needle holder tool, loosen the right needle screw and insert the right needle. Tighten the needle set screw. Thread the needle.
- 2. Remove the left needle thread. Loosen the left needle set screw and remove the left needle.
- **3.** Fold the fabric in half, wrong sides together, to $3'' \times 6''$.
- 4. Place the fold under the presser foot. Guide the fabric halfway between the left needle and the right edge of the stitch finger. This method allows the fabric to lay totally flat under the stitches.

Optionally, you may choose to trim the folded edge which will allow one fabric to lay on top of the other. This is the preferred method if using the flatlock stitch as a seam.

- 5. Slowly sew the fabric. The looper threads will extend beyond the fabric on the right side of fold.
- 6. Gently pull the fabric flat.

т	THREAD TENSION SETTING							
LEFT	Right	Upper	Lower	Stitch	Cutting	Differential	Rolled Hem	
Needle	Needle	LOOPER	Looper	Length	Width	Feed	Lever	* b44
-	0	4.5	7.5* / 7**	2.5	6	1	N	**b48



3-THREAD ROLLED HEM

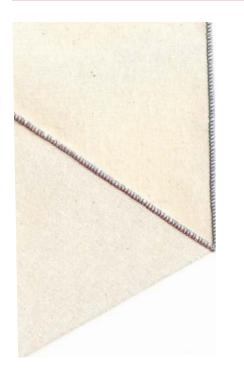
Light weight fabric, 4" x 6"

80/12 ELx705

3 Spools serger thread (B, R, G)

3-thread rolled hem

Standard



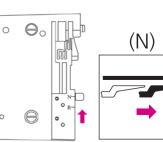
For this exercise, the overlocker will be threaded for a narrow 3-thread rolled hem stitch using the right needle. Thread with colors to match the color-coded threading path on the overlocker. Adjust all thread tension settings for a flatlock stitch as indicated in chart below.

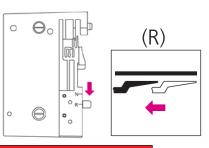
Note: If following instructions in the Mastery book, the right needle was inserted and threaded, and the left needle and thread was removed in a previous exercise. If so, you will skip Steps 1 and 2.

- Using the small screwdriver and needle holder tool, loosen the right needle screw and insert the right needle. Tighten the needle set screw. Thread the needle.
- 2. Remove the left needle thread. Loosen the left needle set screw and remove the left needle.
- **3.** Disengage the stitch finger by placing the Rolled Hem Selection Lever in the "R" position..
- **4.** Start the machine and run a chain for several inches so that you have a thread tail to aid in getting the fabric started.
- Place the fabric under the presser foot and sew along one 6" edge.
- 6. Return stitch length and thread tensions to their normal setting.
- 7. Return the Rolled Hem Selection Lever to normal sewing position.

Optional: Thread the Upper Looper **texturized nylon thread** in the upper looper. Loosen the Upper Looper tension slightly from the settings listed below.

- The Rolled Hem Selection Lever moves the stitch finger in and out of position.
- Push the lever forward (N) for normal sewing so the stitch can form over it, keeping the fabric flat.
- Pull the lever toward you (R) so the fabric edge can roll when stitching a rolled edge.





	THREAD	TENSION SETTI						
Left	Right	Upper	Lower	Stitch	CUTTING	Differential	Rolled Hem	* 611
Needle	Needle	Looper	LOOPER	Length	WIDTH	Feed	Lever	* b44
-	4	4.5* / 4**	6.5*/6**	1	5	1	R	**b48



2-THREAD ROLLED HEM

- Light weight fabric, 4" x 6"
- 80/12 ELx705
- 2 Spools Serger Thread (red, green)
- 2-Thread Rolled Hem
- Standard

Accessory: Upper Looper Converter



- - To engage the Upper Looper Converter, insert the sharp part (1) into the eye of the Upper Looper.
 - A raised point located in the trough of the Upper Looper Converter must be inserted and fixed (2) in the eye of the Upper Looper Converter.

ENDININAL DINING

For this exercise, the overlocker will be threaded for a 2-thread rolled hem stitch using the right needle and threaded with colors to match the color-coded threading path on the overlocker. Adjust all thread tension settings for a rolled hem stitch as indicated in chart below.

Note: If following instructions in the Mastery book, the right needle was inserted and threaded, and the left needle and thread was removed in the previous exercise. If so, you will skip Steps1 and 2.

- 1. Using the small screwdriver and needle holder tool, loosen the right needle screw and insert the right needle. Tighten the needle set screw. Thread the needle.
- 2. Remove the left needle thread. Loosen the left needle set screw and remove the left needle.
- **3.** Attach the Upper Looper Converter to the upper looper See Diagram below.
- Disengage the stitch finger by placing the Rolled Hem Selection Lever in the "R" position.
- 5. Start the machine and run a chain for several inches so that you have a thread tail to hold as an aid in getting the fabric started.
- 6. Place the fabric under the presser foot and sew along one 6" edge, trimming about 1/4" from the raw edge.
- **7.** Return stitch length and thread tensions to their normal setting.
- **8.** Return the Rolled Hem Selection Lever to normal sewing position.

THE	THREAD TENSION SETTING				MACHIN	E SETUP	
LEFT	Right	Upper	Lower	Stitch	CUTTING	DIFFERENTIAL	Rolled Hem
Needle	Needle	Looper	Looper	Length	WIDTH	Feed	Lever
-	4.5	CONVERTER	4	1	5	1	R

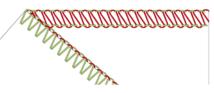


2-THREAD FLATLOCK - NARROW

- Firm fabric, 6" x 6"
- 2 80/12 ELx705
- 3 Spools Serger Thread (red, yellow)
- 2-Thread Flatlock (wide)
- Standard

Accessory: Upper Looper Converter





Thread the overlocker for a *narrow* 2-thread flatlock stitch using the right needle and threaded with colors to match the color-coded threading path on the overlocker. Adjust all thread tension settings for a 2-thread flatlock stitch as indicated in chart below.

Note: If following instructions in the Mastery book, the right needle was inserted and threaded, and the left needle and thread was removed in the previous exercise. If so, you will skip Steps 1 and 2.

- Using the small screwdriver and needle insertion tool, insert the left needle. Remove the right needle. Tighten the needle set screw after removing the needle.
- 2. Attach the Upper Looper Converter to the upper looper.
- Fold the fabric in half to 3" x 6". Place the fold under the presser foot. Guide the fabric halfway between the left needle and the right edge of the stitch finger. This method allows the fabric to lay totally flat under the stitches.
 Optionally, you may choose to trim the folded edge which will allow one fabric to lay on top of the other. This is the preferred method if using the flatlock stitch as a seam.
- **4.** Slowly stitch the fabric. The looper threads will extend beyond the fabric on the right side of fold.
- 5. Gently pull the fabric flat. Note: Before the fabric is pulled flat to create the flatlock stitch, the threads form a 2-thread balanced stitch with the threads connecting at the edge of the fabric. This stitch is not strong enough for seaming, but can be used as an edge finish for light to medium weight fabrics.
- **6.** Using the small screwdriver and needle insertion tool, insert the left needle. Tighten the needle set screw after inserting the needle.
- **7.** Remove the Upper Looper Converter. Return stitch length and thread tension dials to normal.
- 8. Rethread the loopers and both needles.

тн	THREAD TENSION SETTING				MACHIN	IE SETUP	
Left	Right	Upper	Lower	Stitch	Cutting	DIFFERENTIAL	Rolled Hem
Needle	Needle	LOOPER	Looper	Length	WIDTH	Feed	Lever
-	0	CONVERTER	4.5*/4**	2.5	6	1	N

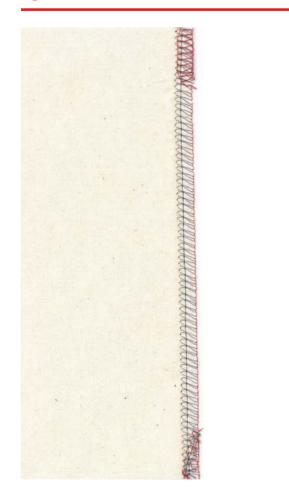
bernette SWISS DESIGN OVERLOCKER TECHNIQUES: SECURING SEAMS

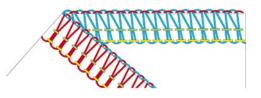
Firm fabric, 6" x 6"

80/12 ELx705

- 4 Spools Serger Thread (B, R, G, Y)
- 4-Thread Overlock Stitch

Standard



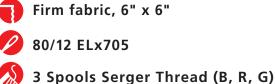


Thread the overlocker for a 4-thread overlock stitch using thread colors to match the color-coded threading path on the machine. Adjust all thread tension settings as indicated in the chart below.

- 1. Sew a 2"-3" thread chain without fabric.
- **2.** Fold fabric in half to 3" x "6" and place under the presser foot.
- **3.** Take 2-3 stitches on the fabric. Lower the needles into the fabric. Raise the presser foot, and with your left hand gently pull the thread chain around and in front of the needles to the knife.
- **4.** Lower the presser foot and sew over the thread chain approximately 1", and then trim the thread chain with the knife.
- **5.** Continue stitching. At the end of the fabric, sew just off the edge of the fabric. Carefully pull the threads off the stitch finger by placing the Rolled Hem Selection Lever in the "R" position temporarily.
- **6.** Raise the presser foot and carefully turn the fabric over so that the lower looper side of the previously stitched seam will be overstitched.
- **7.** Place the fabric under the presser foot so that the first stitch will enter the fabric when you begin stitching.
- Engage the stitch finger by placing the Rolled Hem Selection Lever back in the "N" position..
- **9.** Sew for about 1", overstitching the previous stitching. Guide the fabric so as not to cut the previous stitching.
- Raise the toe of the presser foot and rotate the fabric 90° clockwise.
- **11.** Stitch off the edge of the fabric.

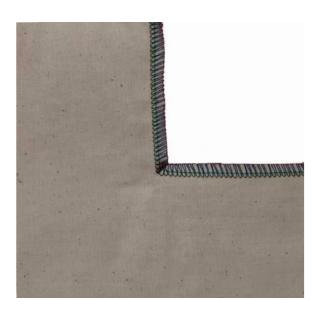
THE	THREAD TENSION SETTING				MACHIN	E SETUP	
Left	Right	Upper	Lower	Stitch	Cutting	DIFFERENTIAL	Rolled Hem
Needle	Needle	Looper	LOOPER	Length	Width	Feed	Lever
4	4	4	4	2.5	6	1	N-R

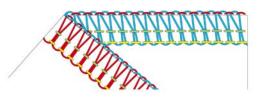
OVERLOCKER TECHNIQUES: INSIDE CORNER



- 3-Thread Overlock (narrow)

Standard





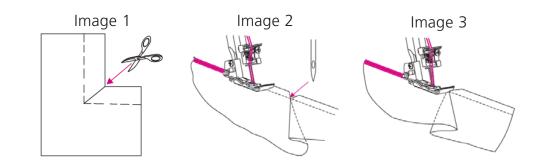
bernette

Thread the overlocker for a 4-thread overlock stitch using thread colors to match the color-coded threading path on the machine. Adjust all thread tension settings as indicated in the chart below.

INSIDE CORNER

NOTE: This technique works well for continuous plackets on sleeves. and back neck openings.

- **1.** Cut an inside corner into the fabric.
- Snip into the corner about ¼" (the width of the stitching). See Image 1.
- 3. Sew until the knife reaches the end of the cut.
- 4. Use the handwheel to lower the needle into the fabric.
- **5.** Lift the presser foot and straighten the corner placing the fabric in front of the presser foot. See Image 2.
- 6. Lower the presser foot; continue sewing in a straight line. See Image3.



THE	THREAD TENSION SETTING				MACHIN	E SETUP	
Left	Right	Upper	Lower	Stitch	Cutting	Differential	Rolled Hem
Needle	Needle	Looper	Looper	Length	Width	Feed	Lever
4	4	4	4	2.5	6	1	N

OVERLOCKER TECHNIQUES: OUTSIDE CORNER



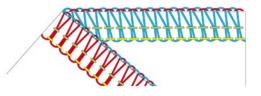
OUTSIDE CORNER: OPTION 1



OUTSIDE CORNER: OPTION 2



Untrimmed corner



bernette

Thread the overlocker for a 4-thread overlock stitch using thread colors to match the color-coded threading path on the machine. Adjust all thread tension settings as indicated in the chart below.

OUTSIDE CORNER: OPTION 1

- **1.** Sew one edge of the fabric, sewing off the end of the fabric.
- Continue stitching around the square, crossing over previous stitching.
- **3.** Use a seam sealant on the untrimmed thread tails (or use a tapestry needle to weave the thread tail back through the stitching). When the seam sealant is dry, trim the thread tails.

OUTSIDE CORNER: OPTION 2

- 1. Before sewing, trim away the seam allowance (¼") for about 2" on each corner of the square.
- Beginning at one trimmed corner, stitch (trimming very slightly as you sew) to the end of the fabric. Take one stitch off the end of the fabric.
- 3. Release the stitch finger by placing the Rolled Hem Selection Lever into the "R" position.
- Lift the presser foot and carefully pivot the fabric 90° clockwise.
- Engage the stitch finger by returning the Rolled Hem Selection Lever to the "N" position.
- 6. Place the needle one stitch into the fabric and lower the presser foot.
- Continue sewing until you are one stitch off the next corner. Repeat the turning procedure and continue stitching.

THE	THREAD TENSION SETTING				MACHIN	IE SETUP	
Left Needle	Right Needle	Upper Looper	Lower Looper	Stitch Length	Cutting Width	Differential Feed	Rolled Hem Lever
4	4	4	4	2.5	6	1	N/R

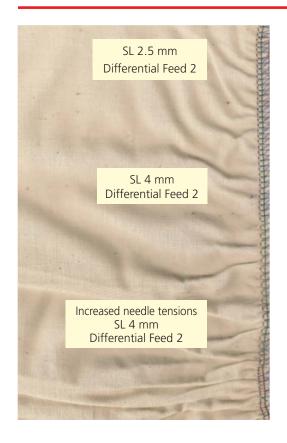


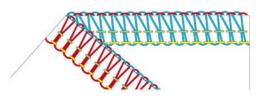
OVERLOCKER TECHNIQUES: DIFFERENTIAL FEED AND GATHERING

Lightweight woven fabric, 3" x 12"

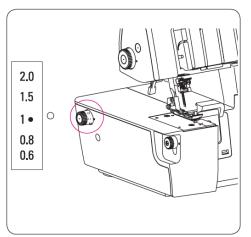
80/12 ELx705

- 4 Spools Serger Thread (B, R, G, Y)
- 4-Thread Overlock Stitch
- Standard





- Thread the overlocker for a 4-thread overlock stitch using thread colors to match the color-coded threading path on the machine. Adjust all thread tension settings as indicated in the following steps.
- **2.** Using a fabric marker, divide the fabric into 3 equal sections along one 12" side.
- **3.** Turn the Differential Feed Dial Dial to 2. Sew to the first mark.
- **4.** Adjust stitch length to 4 mm and sew to the second mark.
- **5.** Move both thread tension dials up to 8 to increase both needle thread tensions. Sew to the end of the fabric.
- **6.** Return Differential Feed Dial setting to its normal setting of 1. Set the stitch length to 2.5.
- **7.** Move the thread tension dials to return tensions to normal settings.



THREAD TENSION SETTING					MACHIN	E SETUP	
LEFT	Right	Upper	Lower	Stitch	Cutting	Differential	Rolled Hem
Needle	Needle	Looper	Looper	Length	Width	Feed	Lever
4 то 8	4 то 8	4	4	2.5 то 4	6	1 то 2	Ν



SUPPLIES

NEEDLES AND THREADS

80/12 ELX705 Serger Needles (2 come with machine)

4 Spools Serger Thread (blue, red, green, yellow)

Texturized nylon thread (optional)

Pearl Crown Rayon thread (optional)

FABRICS FOR EXERCISES PAGES 6 THROUGH 19							
QUANTITY	SIZE	FABRIC					
8	6" x 6"	Firm Fabric such as: • Heavy muslin • High-quality quilting cotton • Medium weight denim					
3	3" x 6"	Jersey knit					
4	4" х б"	Lightweight tricot/fabric					
3	3" x 6"	Fleece					

FABRICS FOR OPTIONAL OVERLOCKER TECHNIQUE PAGES 20 THROUGH 23						
QUANTITY	SIZE	FABRIC				
4	6" x 6"	Firm Fabric such as: • Heavy muslin • High-quality quilting cotton • Medium weight denim				
1	3" x 12"	Lightweight Fabric				