



# L460 SERGER MACHINE

RIT

The Student Hall for  
Exploration and Development

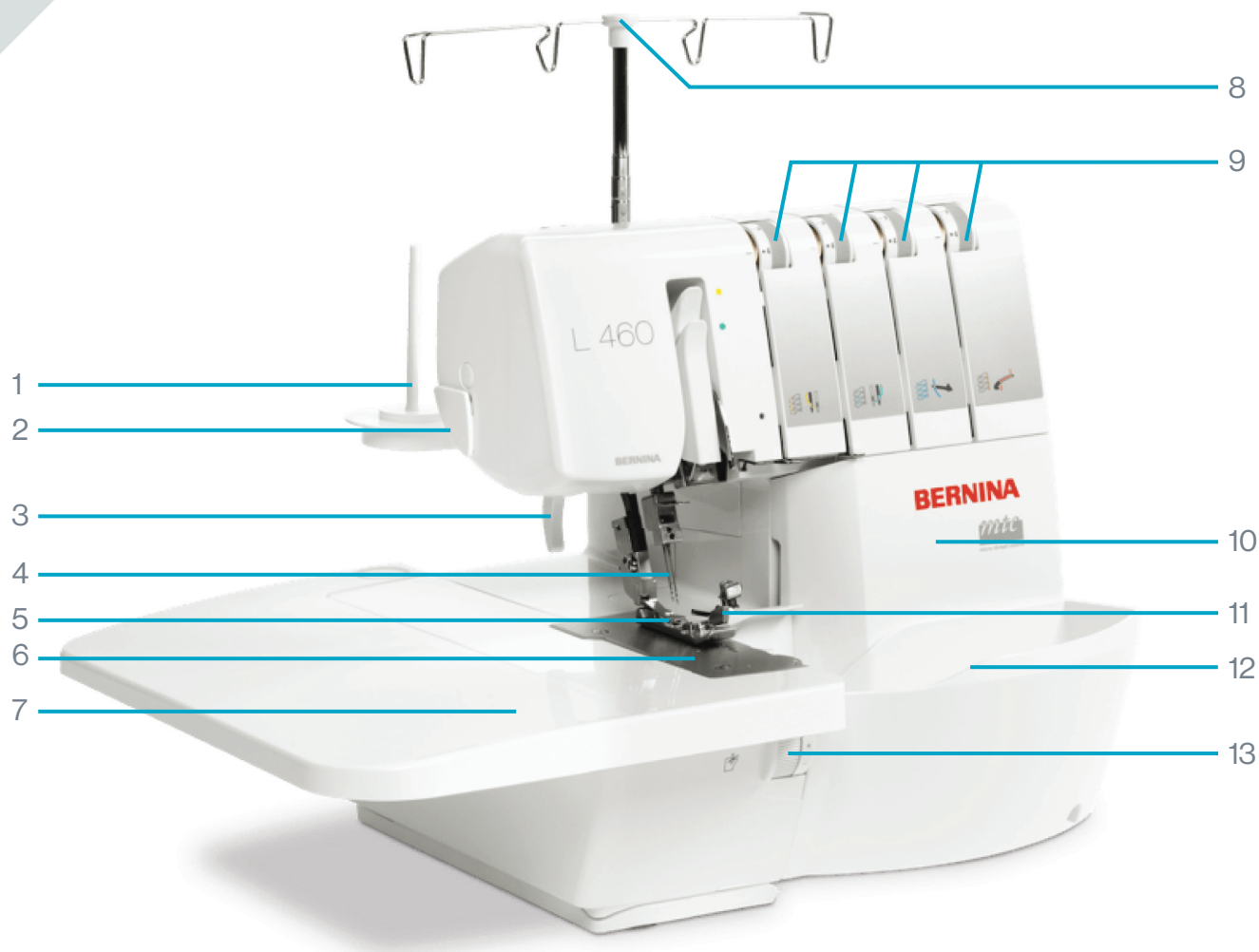
# L460 SERGER MACHINE

## MACHINE INTRODUCTION

CREATES AN OVERLOCKING STITCH WHILE TRIMMING EXCESS MATERIAL

P.2

VERSION #



1. SPOOL HOLDER
2. THREAD CUTTER
3. PRESSER FOOT LEVER (RAISE AND LOWER)
4. NEEDLES (RIGHT AND LEFT)
5. PRESSER FOOT
6. STITCH PLATE
7. EXTENSION TABLE
8. RETRACTABLE TOP THREAD GUIDE
9. THREAD TENSION DIALS
10. THREAD LOOPER COVER
11. NEEDLE FIXING SCREW
12. CUT-OFFS BIN
13. CUTTING KNIFE

### MATERIALS

#### ALLOWED MATERIALS

+ Fabric

#### BANNED MATERIALS

- Wood  
- Metal

#### CONSULT MAKERSPACE STAFF FIRST

+ Plastics  
+ Tape  
+ Glue  
+ Wire  
+ All other materials

# L460 SERGER MACHINE

## SAFETY

VERSION #

TAKE PROPER SAFETY PRECAUTIONS WHEN OPERATING THE SERGER

P.3



- Keep your face away from the machine needles



- Wear short sleeves or roll up long sleeves
- Secure any loose clothing (zip up jackets, tuck in strings, etc.)
- Tie up and tuck in long hair
- Remove jewelry and lanyards, etc.
- Do not wear gloves



- Use basting spray or sewing clips to secure your materials to each other
- Keep your fingers away from the needle while gently guiding your project through the machine



### MATERIALS

- What we offer
  - Various fabrics
  - Elastic
  - Sewing thread
- Common places to buy these materials:
  - JoAnn's
  - Walmart
  - Michaels
  - SewGreen @ Rochester
- Material parameters
  - Dimensions
  - Type, etc

**If bringing your own material, you must provide a receipt or MSDS as proof of what it is**

### TOOLS

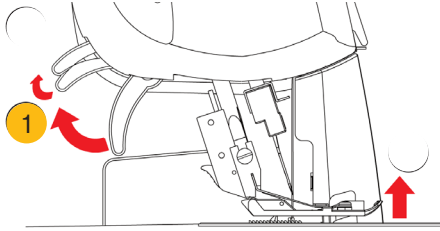
- What's needed and is provided
  - Scissors
  - Thread snips
  - Seam ripper
  - Markers/tailors chalk
  - Ruler/measuring tape
- Where to get your own
  - JoAnn's
  - Walmart
  - Michaels
  - SewGreen @ Rochester





### LOADING AND SECURING MATERIALS

1. Lift the presser foot and place your project at the edge closest to you.
2. Lower the presser foot.
  - You should always start and end with extra stitches on your thread tails in order to be able to secure the loose ends afterwards.
  - The presser foot works in tandem with the feed dogs to push the fabric through the machine.
  - You should still be manually guiding your project with your hands to control the stitches.



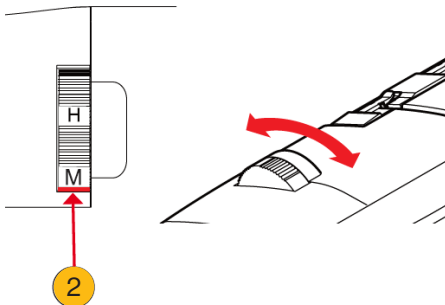
### MACHINE SETTINGS

Each person has their own preferred settings based on the project and materials they're working with.

- The harder you press on the foot pedal, the faster the serger will stitch.
- Talk to Makerspace Staff if you need the thread tension changed, as it rarely needs changing.

### STANDARD STITCH SETTINGS

1. Each of the stitch dials has a dot on them to mark the standard and recommended setting
2. The standard setting for the presser foot height is M

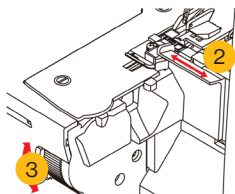
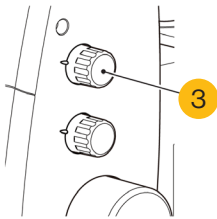




### ROLLED HEM SET UP (MAKERSPACE STAFF ONLY)

1. Check the L460 manual for accurate settings
2. Remove the left needle and put it in the provided needle case
3. Adjust dial tensions as instructed in the manual

**STITCH SETTINGS DO NOT USUALLY NEED TO BE CHANGED**



### STITCH LENGTH

1. Check the L460 manual for accurate settings
2. Remove the left needle and put it in the provided needle case
3. Adjust dial tensions as instructed in the manual

### CUTTING WIDTH

1. Check the L460 manual for accurate settings
2. Remove the left needle and put it in the provided needle case
3. Adjust dial tensions as instructed in the manual

### CHECKING MATERIAL SETTINGS

1. Pull the threads behind the presser foot and to the left
2. Lower the presser foot
3. Position your test fabric under the front of the presser foot (with most fabric this can be done when the presser foot is lowered) and sew slowly.
4. Check the stitch and repeat until satisfied with the settings

### USAGE TIPS

- When working with stretch fabrics or elastic, refrain from pulling on the materials to preserve the stretch.
- Take your time and keep your eyes on what you're sewing to prevent mistakes and injuries.
  - Any mistakes can be seam ripped away.

### MAKE SURE FABRICS ARE SECURED

### QUICK CHECK BEFORE STARTING

1. Use basting spray or sewing clips to secure the fabrics.
2. Set up the correct stitch settings for your project.
  - Use a piece of scrap fabric to test the settings.
3. Check to make sure that the needle is not bent or damaged. Call a Makerspace Staff for help if it is.
4. Presser foot should be lowered.

### TAKE YOUR TIME TO PREVENT MISTAKES AND INJURIES

### DURING THE JOB

1. Gently guide the fabric with your hands.
2. Always look at what you're sewing.
3. Remove clips as they approach the presser foot to prevent broken and bent needles.
4. Keep fingers away from the machine needle and clear of the stitch plate.
5. Stop sewing and get help from Makerspace Staff when:
  - Error codes come up
  - The machine starts making weird noises
  - The machine needle breaks

### TURN THE MACHINE OFF WHEN NOT IN USE

### CLEANUP

1. Turn the knob on the side of the machine until both needles are no longer in the fabric.
2. Lift the presser foot.
3. Pull your project out and use scissors or the thread blade on the side to cut the thread.
4. Bobbins, thread spools, and needles can be left in the machine unless they are your own. Remember to take your own tools with you.
5. Thread tails should be tied and cut.
6. Turn the machine off when finished.





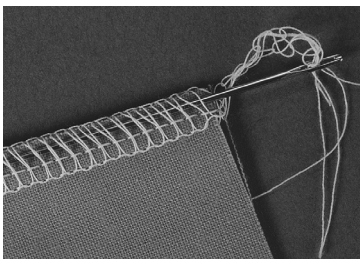
### BROKEN OR BENT NEEDLE

- Stop sewing immediately
- Call a Makerspace Staff over to help you change the needle
- Make sure all the broken needle pieces are disposed of properly in a sharps disposal bin



### THREAD TENSION ISSUES

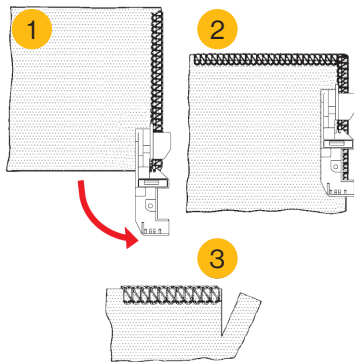
- Incorrect thread tension is affected by lots of different dials and can be tricky to fix
- Call a Makerspace Staff over and use the L460 manual to help you adjust the tension to best suit the needs of your material
  - Make sure that the machine is threaded correctly in and in the right order



### SECURING THREAD TAILS

- Leave a 5" (12cm) chain at the beginning and the end of the seam so that it can be knotted or pulled through the first and last few stitches with a darning needle

### SEWING CORNERS



1. When reaching the edge, stop sewing and use the hand crank to lift the needles from the fabric.
2. Raise the presser foot and pull the thread chain so that it just clears the stitch plate. Turn the fabric, lower the presser foot, and begin stitching in the new direction.
3. When overlocking and trimming at the same time, cut the fabric along the new stitching line for about 1.5"/3cm in front of the corner.

**WHEN IN DOUBT ASK A MAKERSPACE STAFF**

**ADDITIONAL MACHINE INFO CAN BE FOUND HERE:**

