



Q20 LONG ARM QUILTING

RIT

The Student Hall for
Exploration and Development

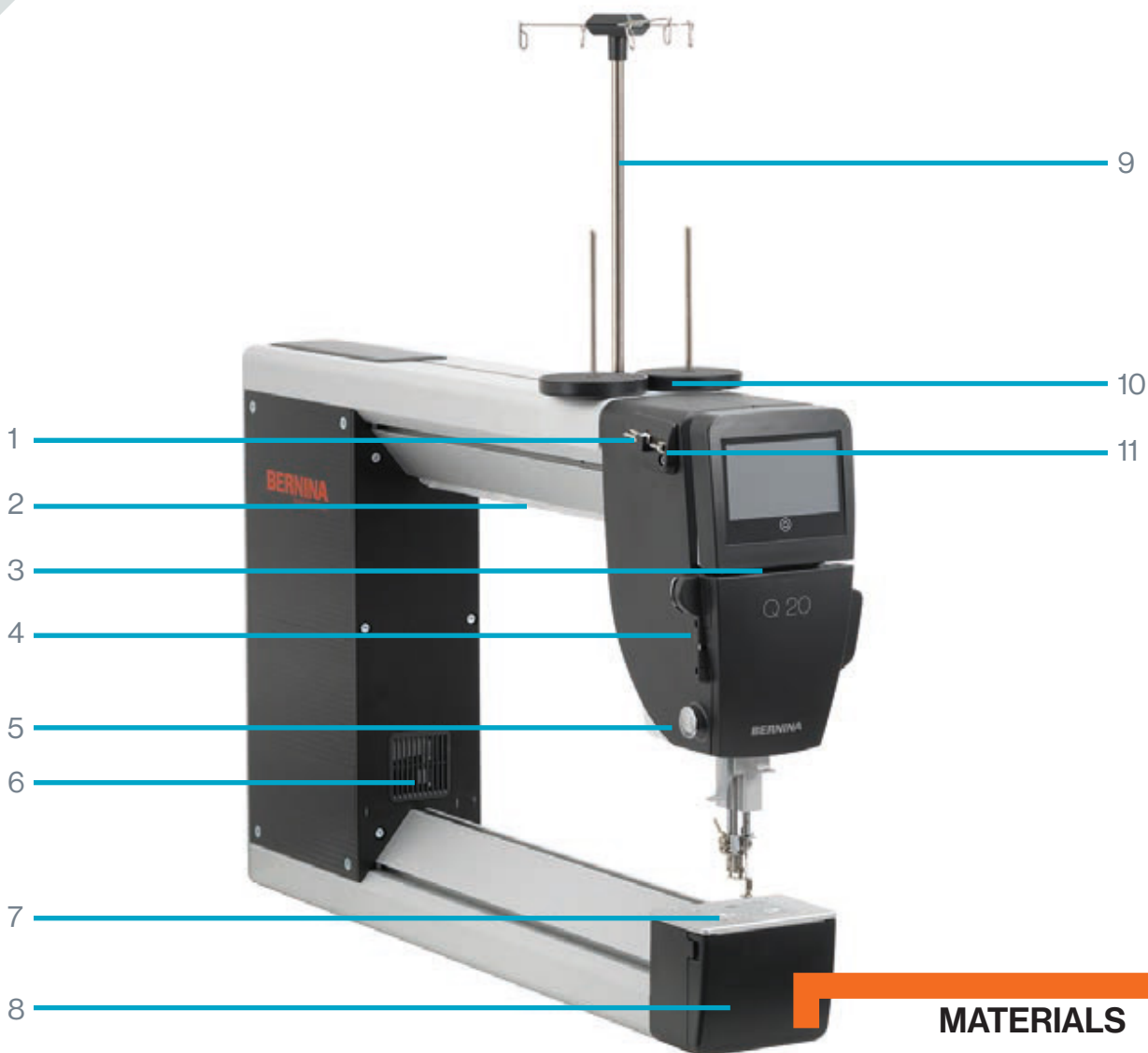
Q20 LONG ARM QUILTING

MACHINE INTRODUCTION

VERSION #

THE Q20 CAN FREELY SEW LARGE SCALE QUILTING PROJECTS

P.2



1. THREAD GUIDE (TOP, LEFT)
2. SEWING LIGHT
3. THREAD GUIDE SLOT
4. THREAD GUIDE (BOTTOM)
5. THREAD CUTTER (WRAP AROUND STYLE)
6. AIR VENTS
7. STITCH PLATE
8. HOOK AND BOBBIN CASE COVER
9. THREAD GUIDE ROD (WITH EYELETS)
10. THREAD STAND
11. THREAD GUIDE (TOP, RIGHT)

MATERIALS

ALLOWED MATERIALS

+ Fabric

BANNED MATERIALS

- Wood
- Metal

CONSULT MAKERSPACE STAFF FIRST

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

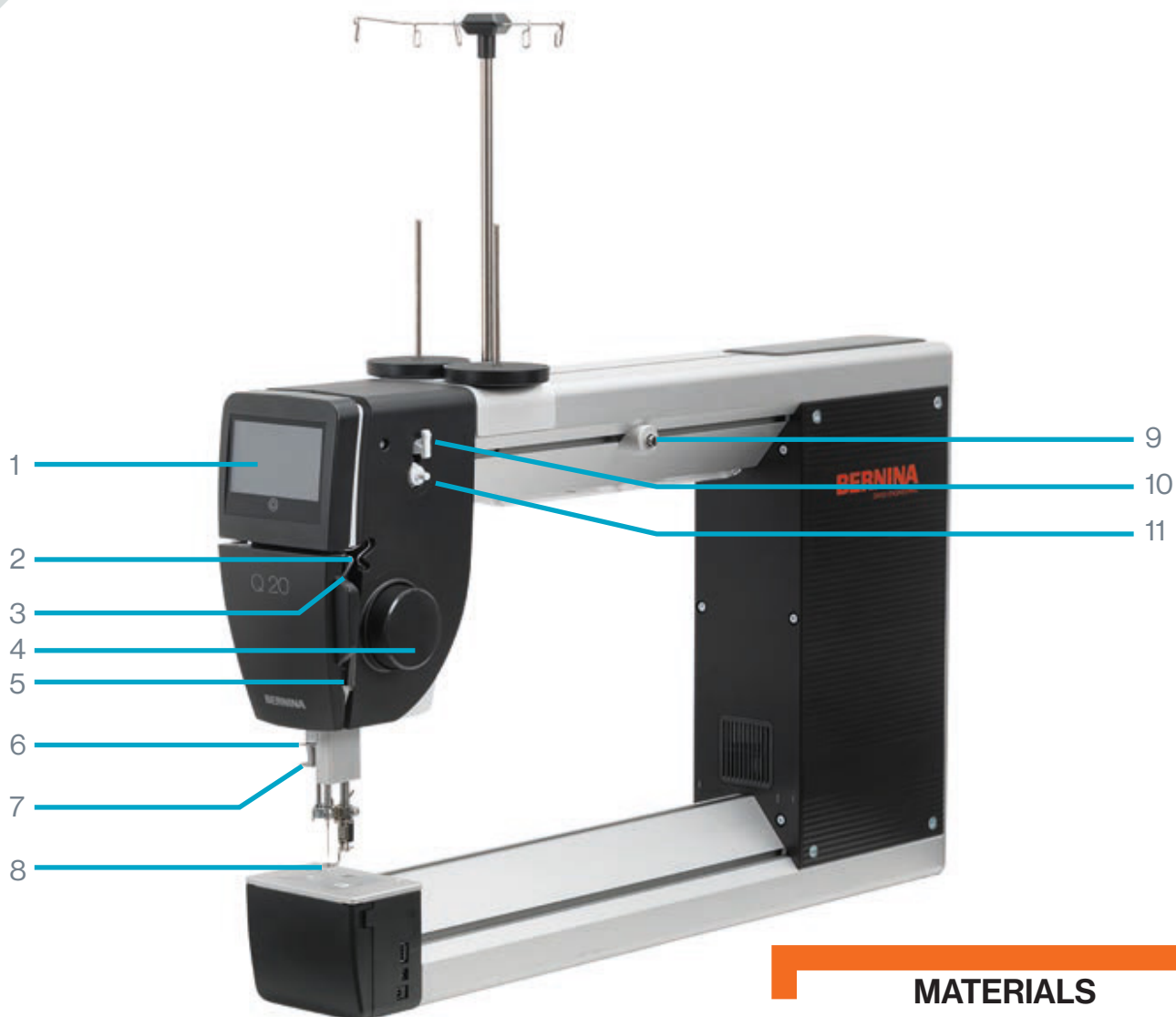
Q20 LONG ARM QUILTING

MACHINE INTRODUCTION

VERSION #

THE Q20 CAN FREELY SEW LARGE SCALE QUILTING PROJECTS

P.3



1. SCREEN
2. THREAD GUIDE
3. THREAD TAKE-UP LEVER
4. HANDWHEEL (FRONT)
5. THREAD REGULATOR
6. THREAD GUIDE
7. NEEDLE THREADER
8. PRESSER FOOT
9. THREAD PRE-TENSION
10. THREAD CUTTER
11. BOBBIN WINDER

MATERIALS

ALLOWED MATERIALS

+ Fabric

BANNED MATERIALS

- Wood
- Metal

CONSULT MAKERSPACE STAFF FIRST

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

Q20 LONG ARM QUILTING

THE Q20 CAN FREELY SEW LARGE SCALE QUILTING PROJECTS

MACHINE INTRODUCTION

P. 4

VERSION #



1. HANDWHEEL (REAR)
2. AIR VENTS
3. POWER SWITCH
4. POWER CABLE INPUT SLOT

MATERIALS

ALLOWED MATERIALS

+ Fabric

BANNED MATERIALS

- Wood
- Metal

CONSULT MAKERSPACE STAFF FIRST

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



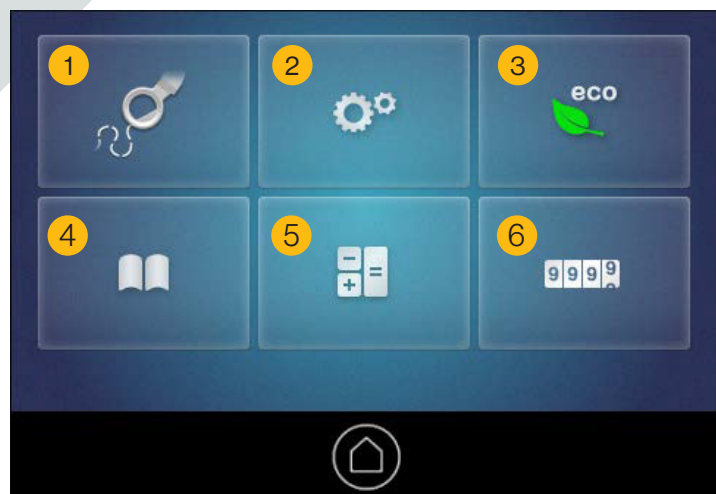
- Keep your face away from the machine needle



- 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

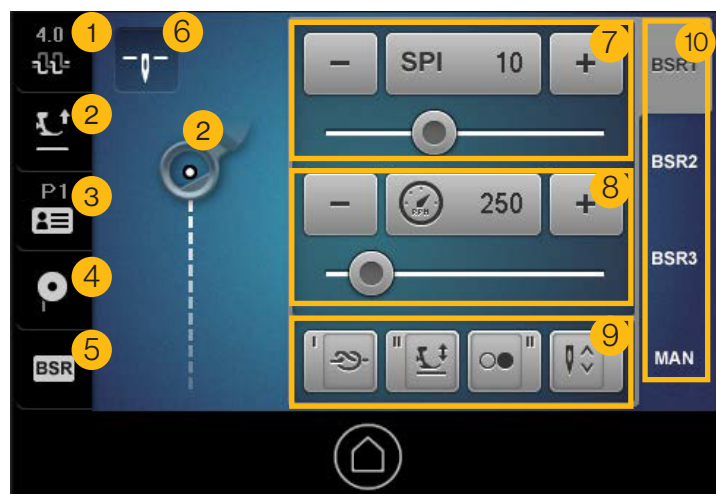


- Use sewing pins or sewing clips to secure your materials to each other
- Keep your fingers away from the needle and metal plate while gently guiding your project through the machine



HOME SCREEN

1. Sewing screen
2. Setup program
3. Eco-mode
4. Tutorial
5. Calculator
6. Stitch counter



SEWING SCREEN (FRAME MODEL)

1. Upper thread tension
2. Raising/lowering the presser foot
3. User profile
4. Bobbin filling
5. BSR (Bernina Stitch Regulator)
6. Needle stops in up/down position
7. Stitches
8. Idle speed
9. Programmable functions
10. Quilting modes



SEWING SCREEN (SIT DOWN MODEL)

1. Programmable functions
2. Kickstart function

FURTHER YOUR SKILLS HERE:

(QR codes and links to higher level program usage tutorials)



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

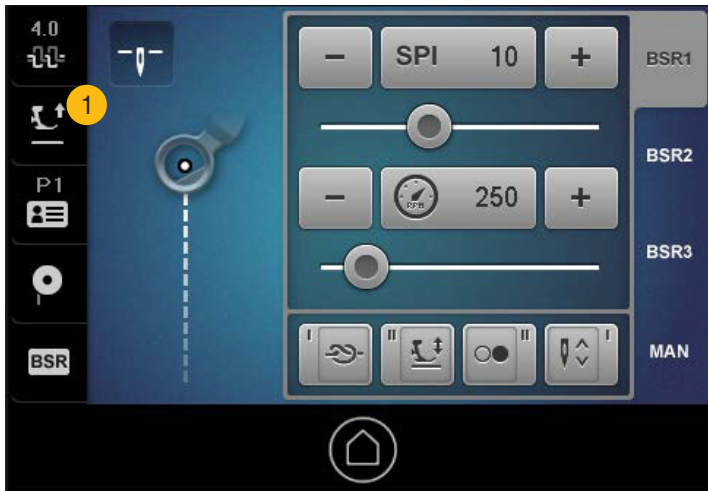
TOOLS

- What's needed and is provided
 - Pins
 - Bobbins
 - Our machines use specialized bobbins
 - Scissors
 - Thread snips
 - Seam ripper
 - Pin cushion
 - Markers/tailors chalk
 - Ruler/measuring tape
- Where to get your own
 - JoAnn's
 - Walmart
 - Michaels
 - SewGreen @ Rochester



LOADING AND SECURING MATERIALS

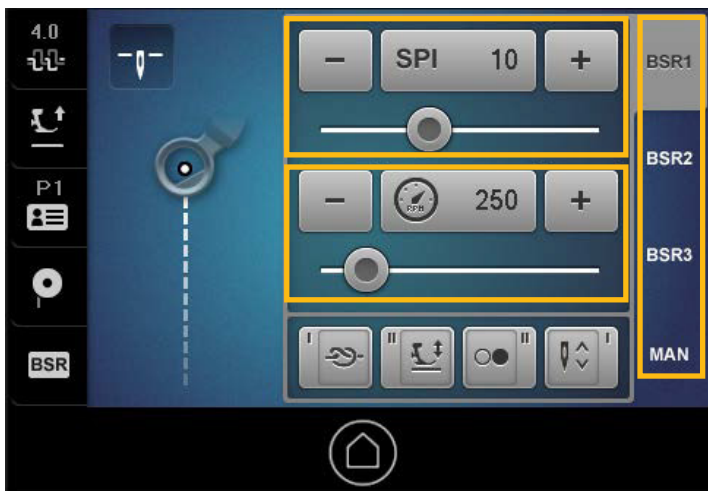
1. Lift the presser foot and place your project underneath it.
2. Lower the presser foot.
 - The Q20 uses two red LEDs to sense the movement of the fabric and places down stitches based on how fast the fabric is being moved.
 - You should still be manually guiding your project with your hands to control the stitches.



MACHINE SETTINGS

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

- Stitch settings can be changed in the boxed tabs.
- BSR3 is basting mode.
- Talk to Makerspace Staff if you need the thread tension changed, as it rarely needs changing.



**MAKE SURE FABRICS
ARE SECURED**

QUICK CHECK BEFORE STARTING

1. Make sure your fabrics are pinned together.
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.

DURING THE JOB

1. Gently guide the fabric with your hands. The faster you move your fabric through the machine the faster it will sew.
2. Always look at what you're sewing.
3. Remove pins or 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

**TAKE YOUR TIME TO
PREVENT MISTAKES AND
INJURIES**

**TURN THE MACHINE
OFF WHEN NOT IN USE**

CLEANUP

1. Turn the knob on the side of the machine until the needle is no longer in the fabric OR lift your foot completely from the pedal to make use of the machine's foot control feature.
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

SEWING IN PLACE/FABRIC IS BEING “EATEN”

- Stop sewing immediately
- Call a Makerspace Staff over to help you change the needle
- Staff will unjam the machine to prevent machine damage
- To prevent:
 - Make sure that the fabric is fully covering and starting out just past the hole in the stitch plate that the needle goes through when sewing



SEWING OR BOBBIN THREAD SNAPPED OR RAN OUT

- Stop sewing immediately
- Rethread the machine
- Call a Makerspace Staff over to help you if you are unsure how



TOO MUCH FABRIC UNDER THE PRESSER FOOT

- Stop sewing immediately
- Reduce the fabric thickness

WHEN IN DOUBT ASK A MAKERSPACE STAFF

ADDITIONAL MACHINE INFO CAN BE FOUND HERE:

