



Vision™ 2.0

User Manual

Manual

Vision™ 2.0

IMPORTANT MACHINE INFORMATION

It is our goal to ensure that Customers have information on the tools and accessories (standard and optional), that are available for use with Gammill® quilting machines. Some of the tools and accessories detailed in this Manual may be optional equipment. We recommend that you consult with your Authorized Gammill Dealer or Sales Representative for the most current list of standard and optional equipment. Standard equipment, optional equipment, and pricing are subject to change without notice.

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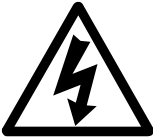

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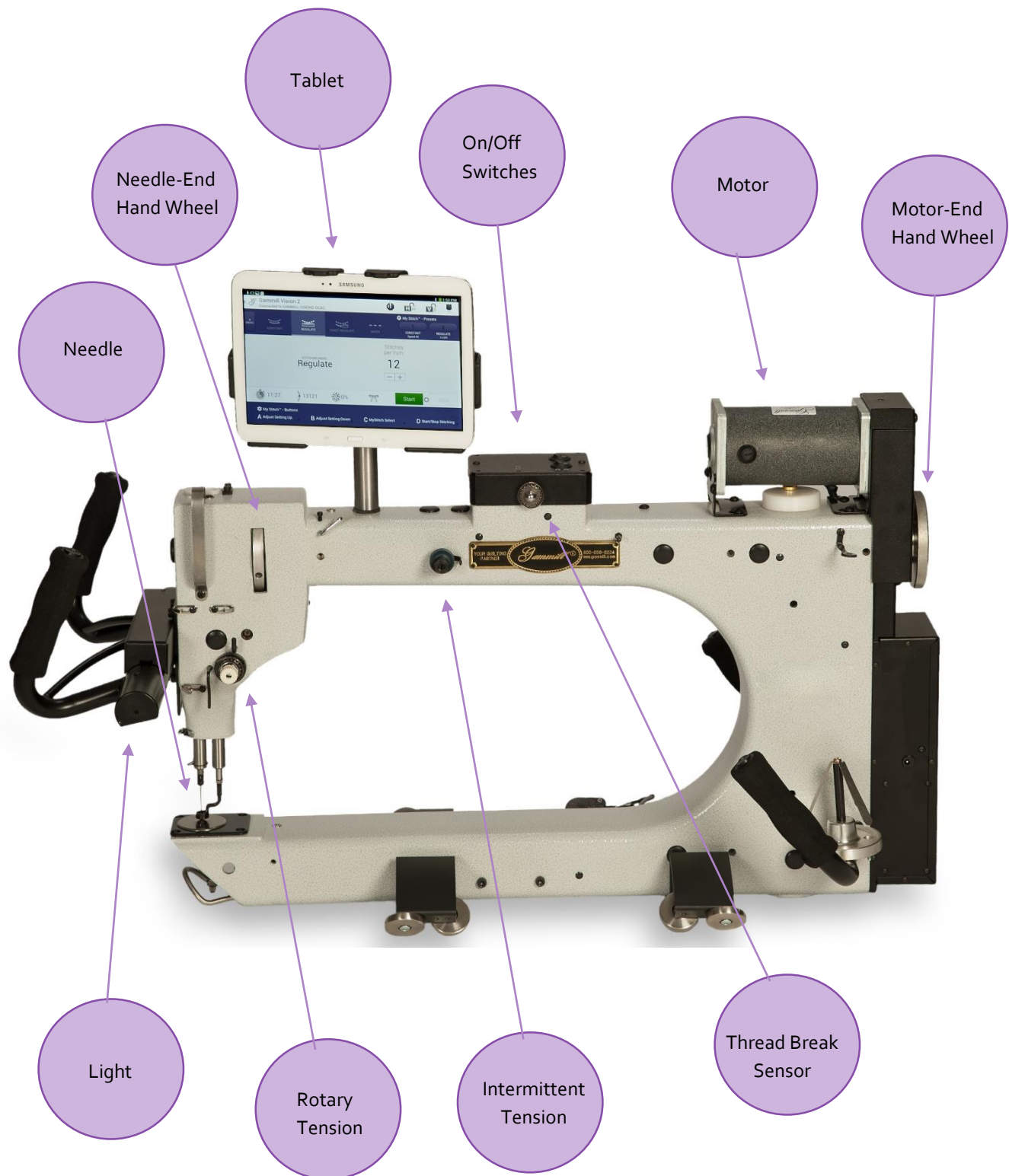
SAFETY WARNINGS

 CAUTION	
	<p>Moving needle can cause injury.</p> <p>Keep body parts and loose clothing away.</p>
	<p>Rotating parts can cause injury.</p> <p>Keep hair, body parts, and loose clothing away.</p>
	<p>Motor may become hot.</p> <p>Do not touch motor if machine has been in operation.</p>
	<p>Risk for electric shock or burn.</p> <p>Unplug machine and wait 1 hour before removing any machine covers.</p>
	<p>Laser radiation.</p> <p>Avoid direct exposure to beam.</p>

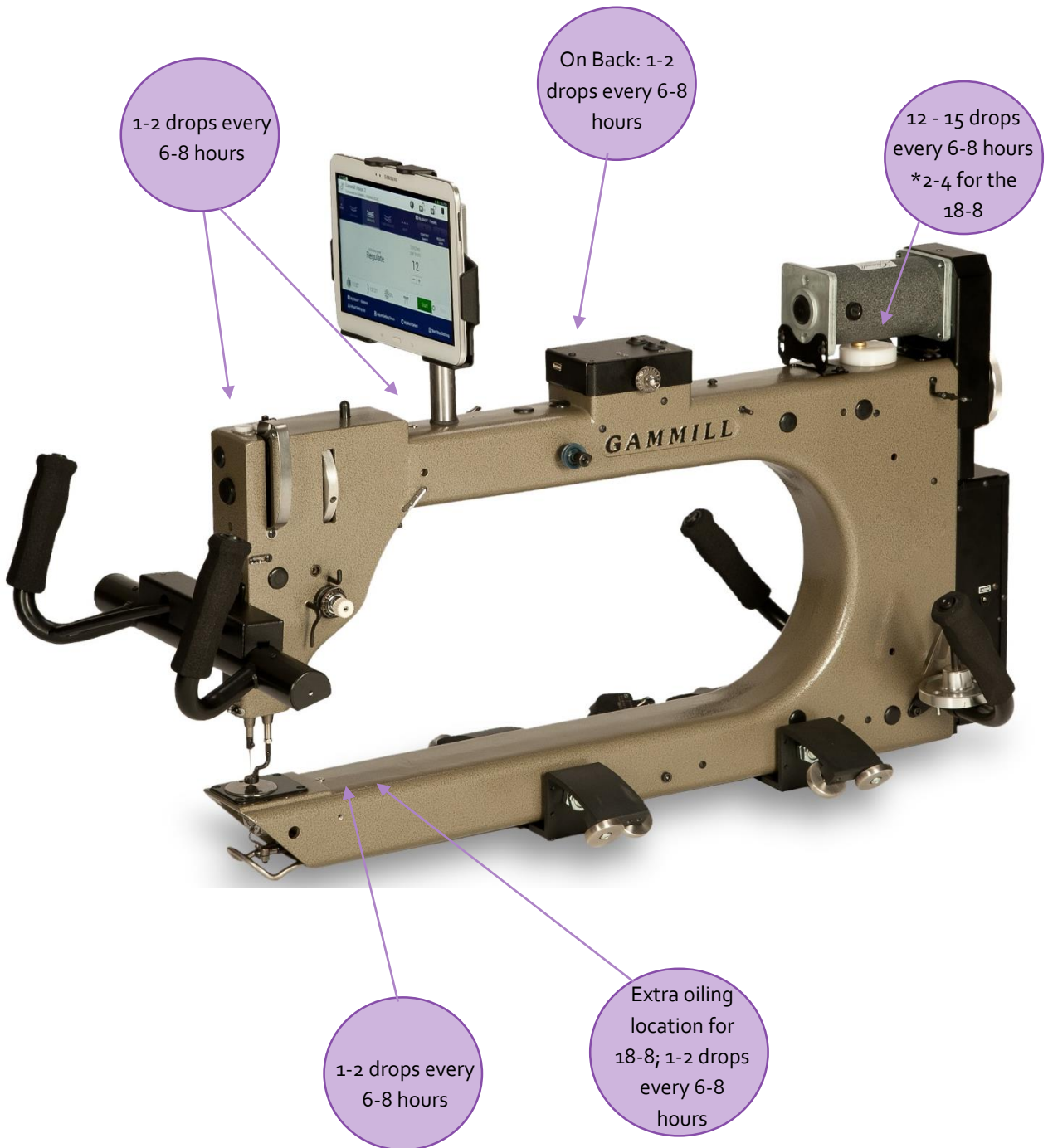


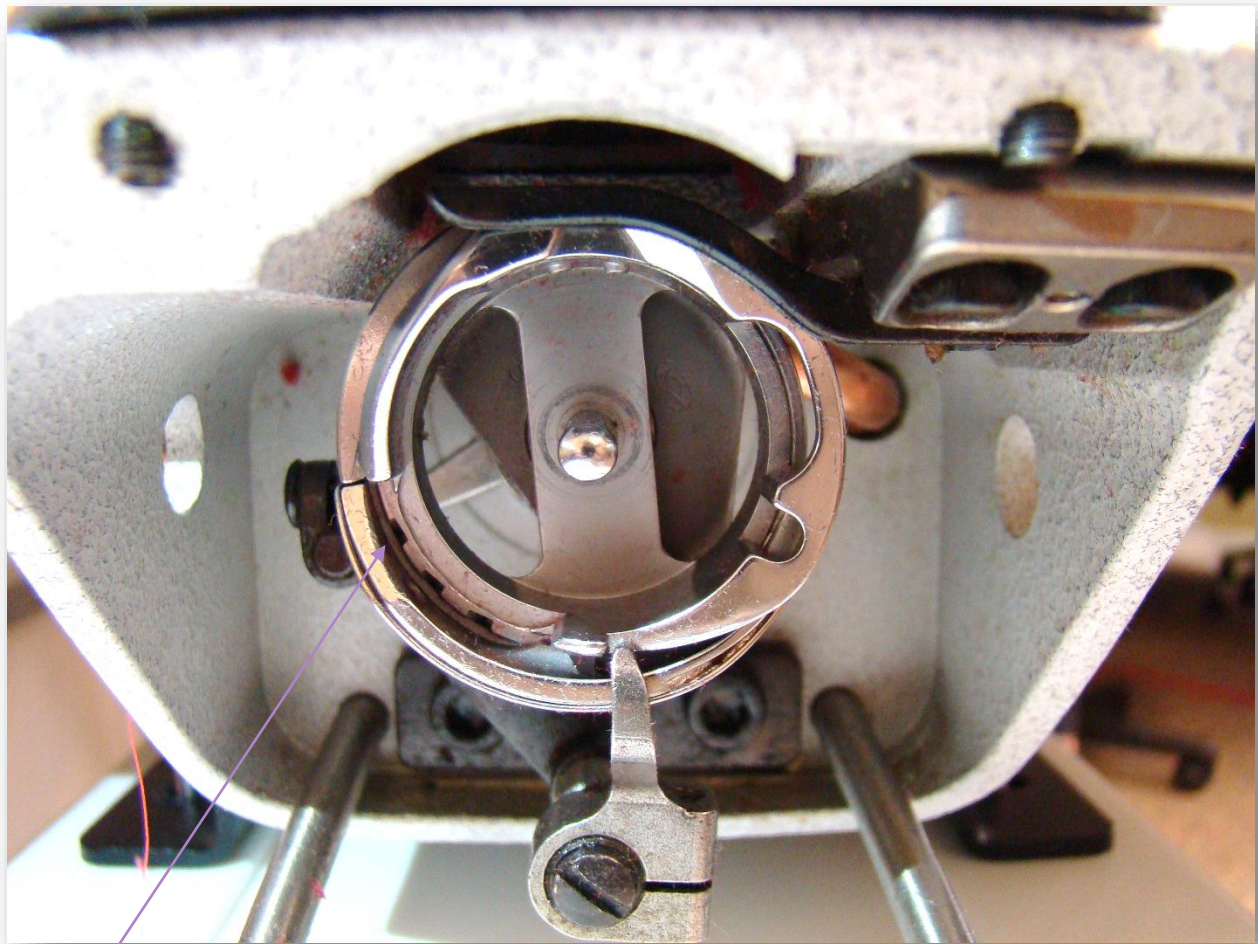
Welcome to the Vision® 2.0 by Gammill, the latest in hand-guided quilting technology at your fingertips. Experience the ease offered by My Stitch™ customizability. Make your quilting system exactly the system you need.

OVERVIEW



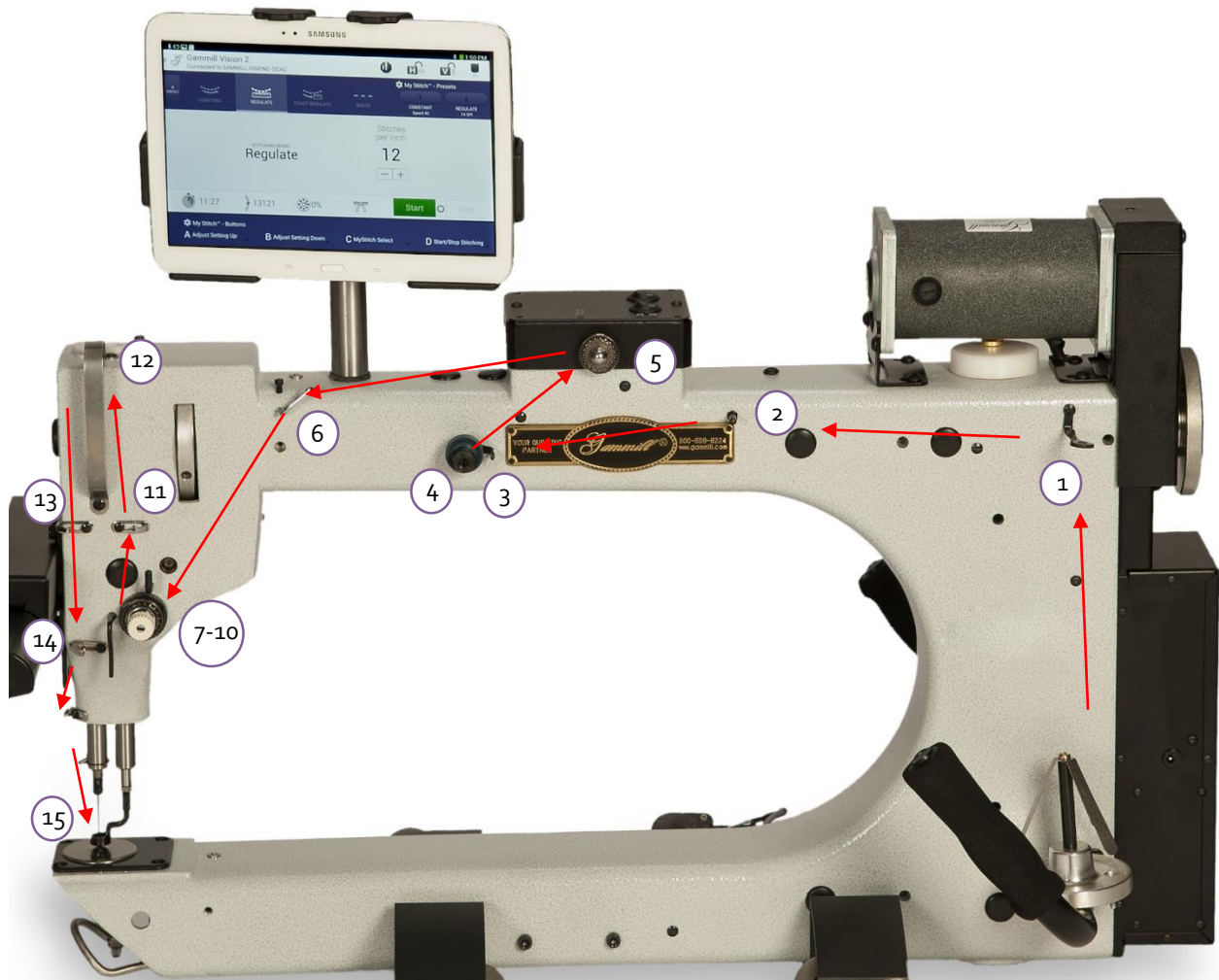
OILING ROUTINE





OIL THE HOOK ASSEMBLY EACH TIME YOU CHANGE THE BOBBIN. PLACE THE OIL IN THE TOP OF THE THREE HOLES ALONG THE INSIDE OF THE HOOK ASSEMBLY. LET IT RUN DOWN INTO THE OTHER TWO HOLES. ROTATE THE HAND WHEEL THREE TURNS TO DISTRIBUTE THE OIL EVENLY.

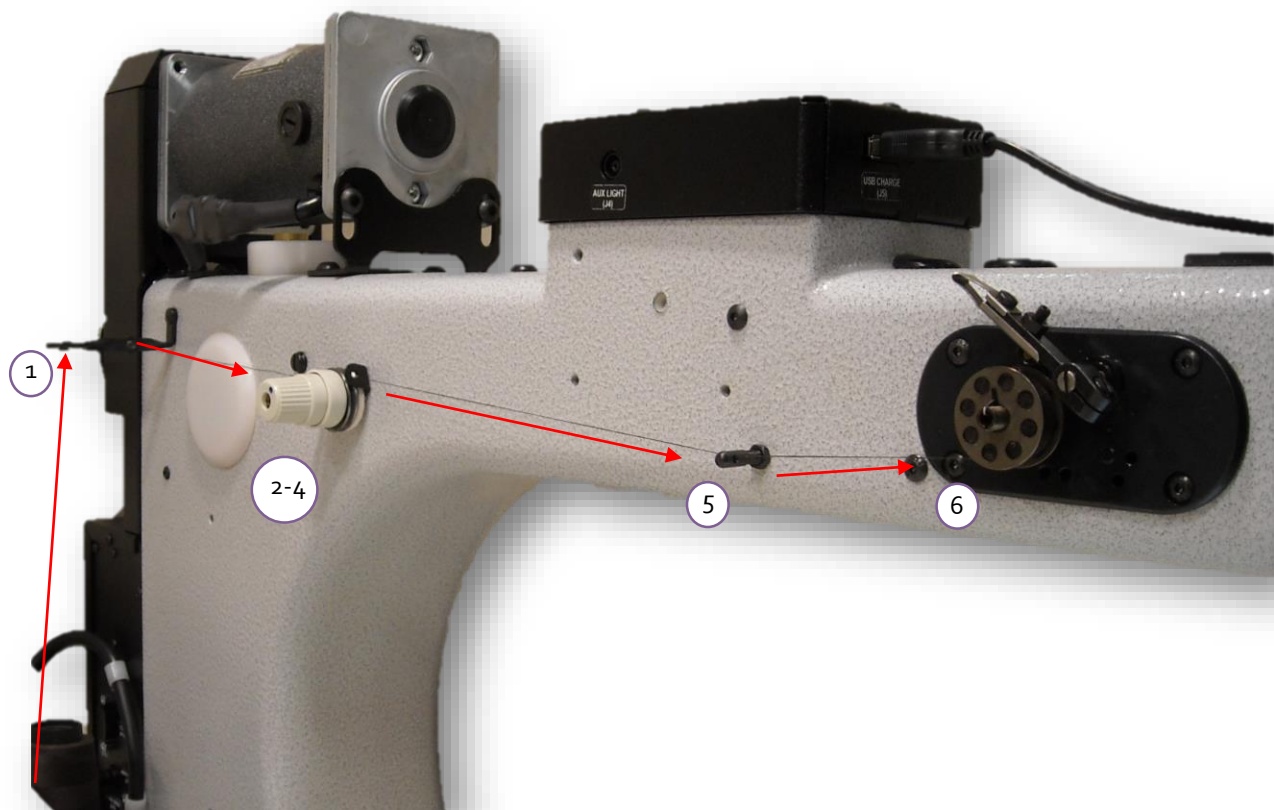
THREADING GUIDE



Order	Threading Order	Threading Instructions
1	Thread Lead Off	Take the thread from the cone, up through the hole in the end of the Thread Lead Off guide and then through the middle hole from right to left.
2	Small Guide	Take the thread through the back of the small thread guide, continuing toward the needle end of the machine.
3	Intermittent Tension Thread Guide	Push a loop of thread through the Intermittent Tension thread guide.
4	Intermittent Tension	Open the loop and put it around the Intermittent Tension between the discs.
5	Thread Break Sensor Wheel	Wrap the thread counter clockwise around the Thread Break Sensor Wheel.
6	3-hole Thread Guide	Pass the thread up through the first hole and back down through the third hole.

7	L-Guide	Bring the thread over the L-Guide.
8	Rotary Tension	Wrap the thread clockwise 1 $\frac{3}{4}$ times around the Rotary Tension in the wheel.
9	Check Spring	Catch the thread on the Check Spring.
10	Gooseneck Guide	Pull the thread up, catching the Gooseneck Guide.
11	Thread Guide	Snap the thread into the thread guide leading to the Take-up Lever.
12	Take-up Lever	Take the thread through the right side of the eye of the Take-up Lever toward the needle end of the machine.
13	Thread Guides	Snap the thread into the remaining thread guides leading to the needle.
14	Needle	Pass the thread through the eye of the need from the front to back.

BOBBIN WINDING



Order	Bobbin Winder Threading Order	Threading Instructions
1	Thread Lead Off	Take the thread from the cone, up through the hole in the end of the Thread Lead Off guide and then through the middle hole.
2	Pre-Bobbin Winder Tension Thread Guide	Take the thread through the Pre-Bobbin Winder Tension Thread Guide.
3	Post-Bobbin Winder Tension Thread Guide	Take the thread through the Post-Bobbin Winder Tension Thread Guide.
4	Thread Guide Bobbin Winder Tensioner	Pull the thread between the Pre-Bobbin Winder Tension Thread Guide and the Post-Bobbin Winder Tension Thread Guide slipping it between the metal tension discs of the Tensioner.
5	Thread Guide	Take the thread through the back of the small thread guide, continuing toward the needle end of the machine.
6	Bobbin	Wrap the thread several times around the bobbin clockwise and slip the thread through a hole facing you. Push the bobbin onto the bobbin spindle rotating until it clicks. Push the lever arm against the bobbin.

THE BOBBIN CASE



Bobbin Threading Order	Threading Instructions
Bobbin Case	Insert the wound bobbin into the Bobbin Case with the thread unwinding clockwise.
Slot	Slide the thread into the slot in the bobbin case.
Tension Spring & Thread Guide	Slip the thread behind the Tension Spring and out the thread guide.
Latch	Open the latch to secure the bobbin while inserting it into the hook assembly.
Hook Assembly	Place the bobbin case into the hook assembly, release the latch and rotate to fit the hook latch tab into the notch in the hook.
Click it!	Push the bobbin case into the hook assembly until it clicks.

TO CHECK YOUR BOBBIN TENSION, LAY THE BOBBIN CASE IN YOUR HAND, BOBBIN SIDE UP. PULL THE THREAD UP. THE BOBBIN SHOULD STAND UP IN YOUR HAND, BUT NOT LIFT OFF. IF THE BOBBIN LIFTS OFF LOOSEN THE BOBBIN TENSION SCREW. IF IT DOES NOT STAND UP, TIGHTEN THE BOBBIN TENSION SCREW.

POWERING UP THE SYSTEM



Powering Up Order

Plug In

Power Switch (Circle with line)

Motor Switch (M with circle)

Powering Up Instructions

Be sure the power cable is plugged into the electrical socket in the wall and connected to the machine.

Toggle the Power Switch to the On position (I).

Toggle the Motor Switch to the On position (I).

TO TURN OFF THE SYSTEM DO EACH OF THESE STEPS IN REVERSE.

POWER RECOMMENDATIONS:

120 V AC

15 AMP CIRCUIT

50 OR 60 HERTZ

LOAD PEAK 1500 VA

SURGE
PROTECTOR
RECOMMENDED

THE TABLET

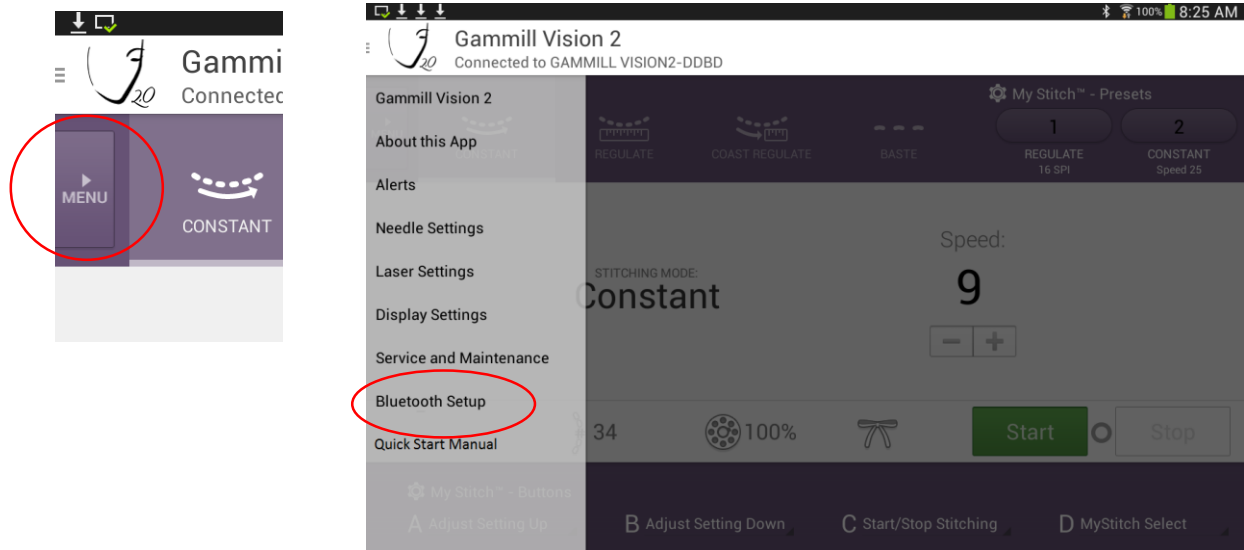
SEE THE TABLET QUICK START GUIDE FOUND IN THE TABLET BOX FOR BASIC TABLET INFORMATION.



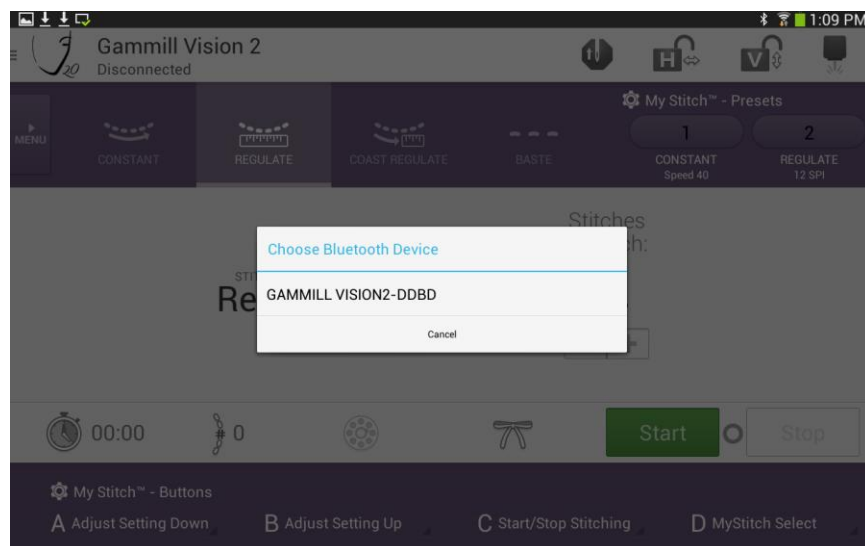
Find the Vision™ 2.0 Application Icon on the tablet Home Screen and tap to launch it. It can also be found on the app screen.

BLUETOOTH SETUP

The Bluetooth Setup pairs the tablet user interface to the quilting machine. The Bluetooth Setup is found in the Main Menu on the left hand side of the Main screen.

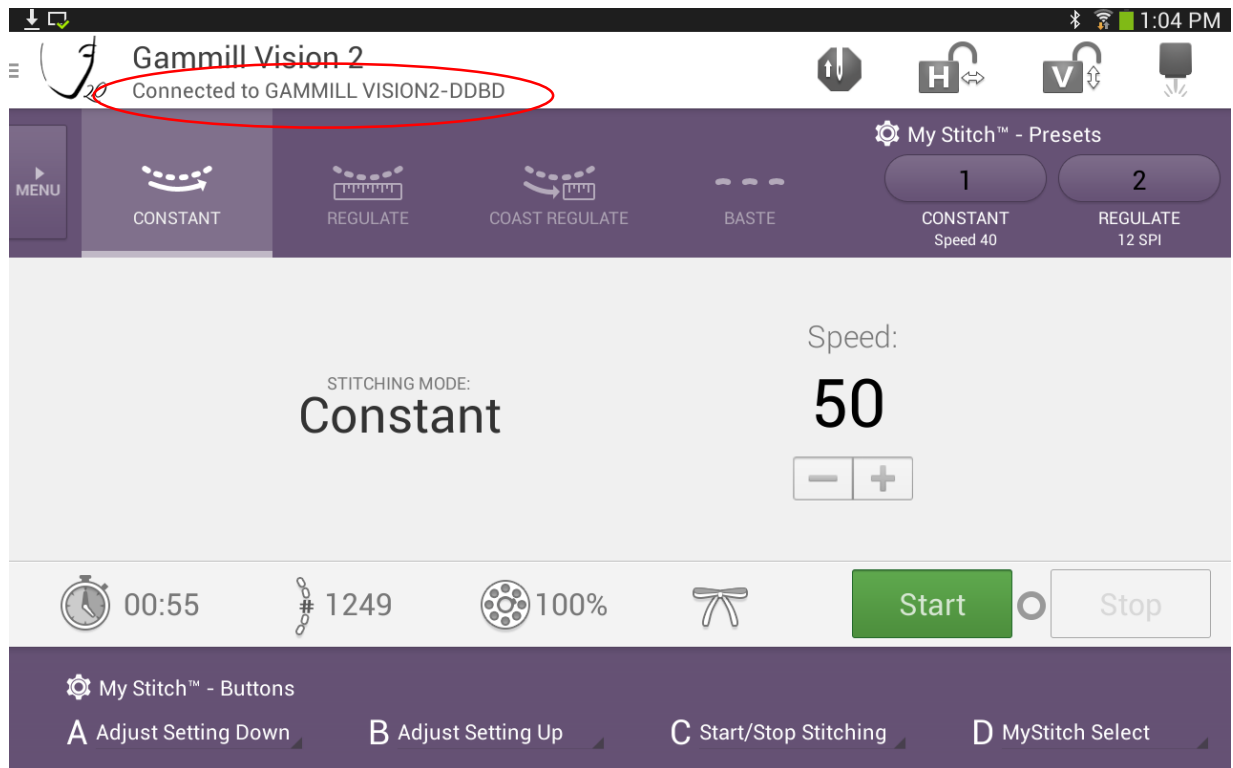


When selected, a popup window will appear. This popup window will display all the available machines identified by the software.



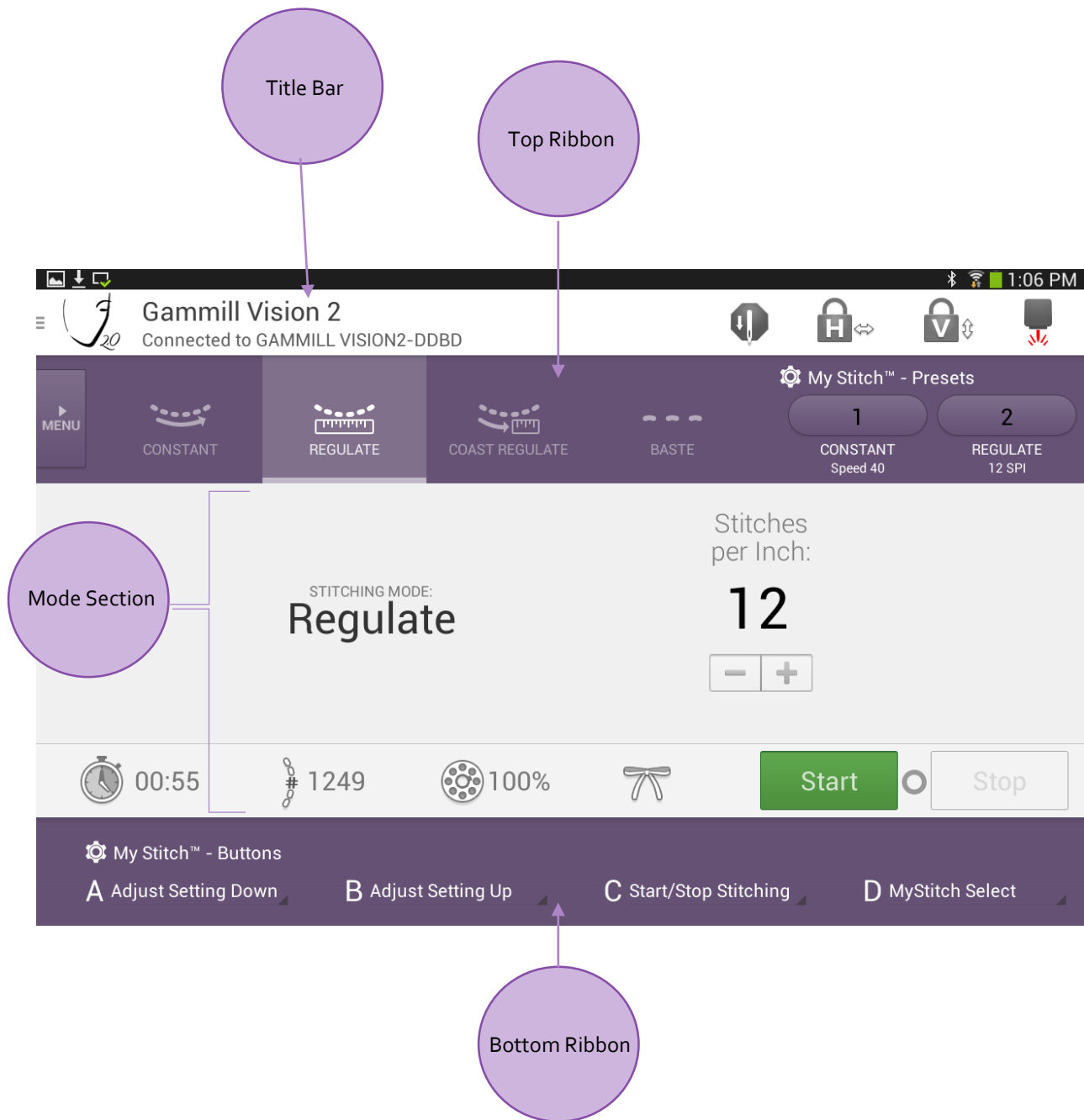
Touch the listing for the machine you want to connect to. If you have multiple items listed to connect with, consult the address printed on a decal at the rear of the machine to determine the correct address.

Once touched, the popup window will disappear, and the user interface will be connected to the machine. When complete, the user interface will show being connected in the upper left corner of the screen under the machine name.

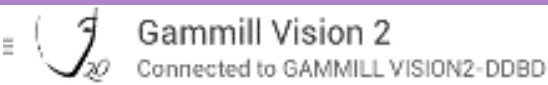












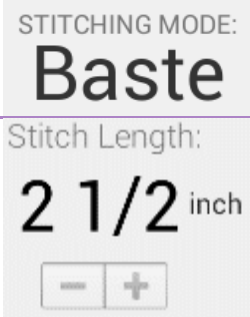

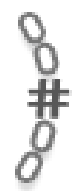





THE GAMMILL VISION® 2.0 APPLICATION

The main screen offers the most commonly used features at a finger's touch. Notice this screen is broken down into four sections: the title bar, top ribbon, mode section and the bottom ribbon.




The **Title Bar** contains the application title, key quilting features used for specialty functions. The **Top Ribbon** provides access to the menu, quilting modes and My Stitch™ presets. In the **Mode Section**, the active stitching mode is displayed along with access to stitching adjustments such as speed and stitches per inch along with related features such as starting and stopping stitching. The **Bottom Ribbon** accesses the My Stitch™ Buttons features.

Title Bar		What you can do with it
	Menu Access	Accesses the menu options for specialized functions
	Needle Position	Sets needle position when stitching stops to needle up or needle down
	Horizontal Lock	Locks the head to only move in the horizontal direction
	Vertical Lock	Locks the head to only move in the vertical direction
	Laser	Turns the laser on or off
Top Ribbon		What you can do with it
	Menu Tab	Accesses the menu options for specialized functions
	Constant	Allows the constant stitching mode to be selected
	Regulate	Allows the regulate stitching mode to be selected
	Coast Regulate	Allows the coast regulate stitching mode to be selected
	Baste	Allows the basting mode to be selected
	My Stitch™ Presets 1 & 2	Allows two modes and settings to be saved for easy access and for use by the My Stitch™ buttons.

Mode Section		What you can do with it
	Stitching Mode	Indicates the active stitching mode.
	Stitch Setting	Indicates the stitch setting and allows stitch adjustment
	Stitch Timer	Tracks stitching time and is resettable
	Stitch Counter	Tracks the stitch count and is resettable
	Bobbin Gauge	Tracks the bobbin usage and alarms when the bobbin is low
	Tie Off Function	Initiates a series of tiny locking stitches
	Start Button	Starts stitching
	Stop Button	Stops stitching
Bottom Ribbon		What you can do with it
		Assigns functions to each of the four handle buttons.

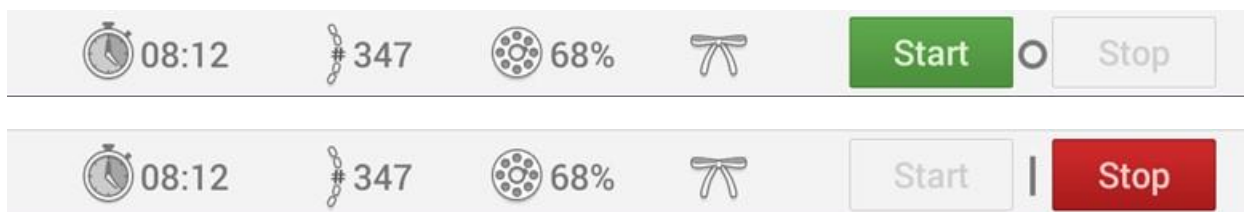
STITCHING

⚠ CAUTION	
	<p>Moving needle can cause injury.</p> <p>Keep body parts and loose clothing away.</p>

To begin and end stitching, there are several options available.

Start and Stop On-screen Buttons:

- Select the green **START** button located in the bottom right mode portion of the screen to enable stitching using the main screen. To stop, select the red **STOP** button located in the same area.



Handle Button:

- Use the My Stitch™ feature to program any handle button to control stitch starting and stopping to match your needs. The Start/Stop Stitching control can be assigned to any of the four buttons, but one must be set to Start/ Stop Stitching.



- Press the handle button assigned to start/stop stitching to engage and disengage stitching.

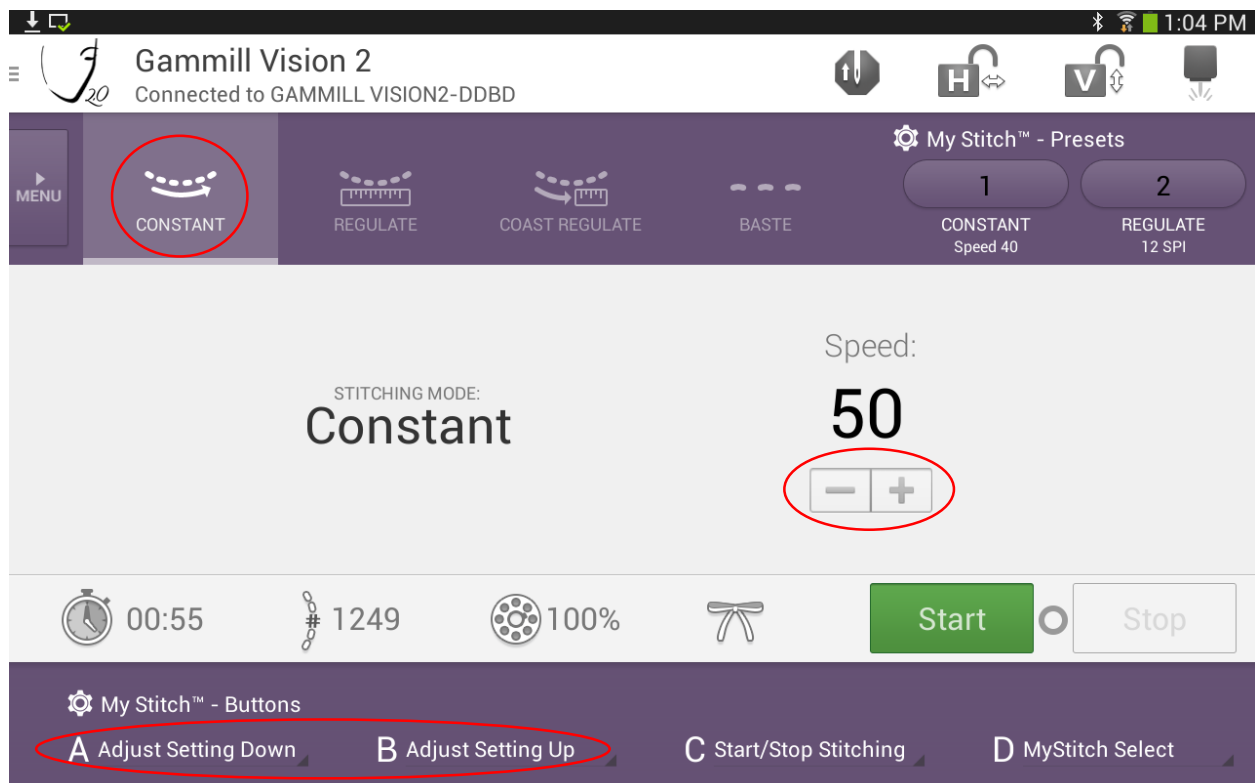
SIDE NOTE: THE MACHINE WILL STOP STITCHING ON ITS OWN IF IT SENSES NO MOVEMENT FOR 10 SECONDS. THIS IS A SAFETY FEATURE THAT CANNOT BE DISABLED.

STITCHING MODES

Vision™ 2.0 features four stitching modes: constant, regulate, coast regulate and baste. Stitching modes are selected in the top ribbon and the active mode is displayed in the mode section and highlighted on the top ribbon.

CONSTANT MODE:

Constant Mode stitches at an unchanging speed. The rate the needle moves up and down to stitch does not increase or decrease with the movement of the head, but rather stays constant.



To engage Constant Mode:

- Tap the **Constant icon** in the top ribbon.
- Notice the stitching mode is indicated in the mode section in the middle of the screen.

To set Constant Mode speed:

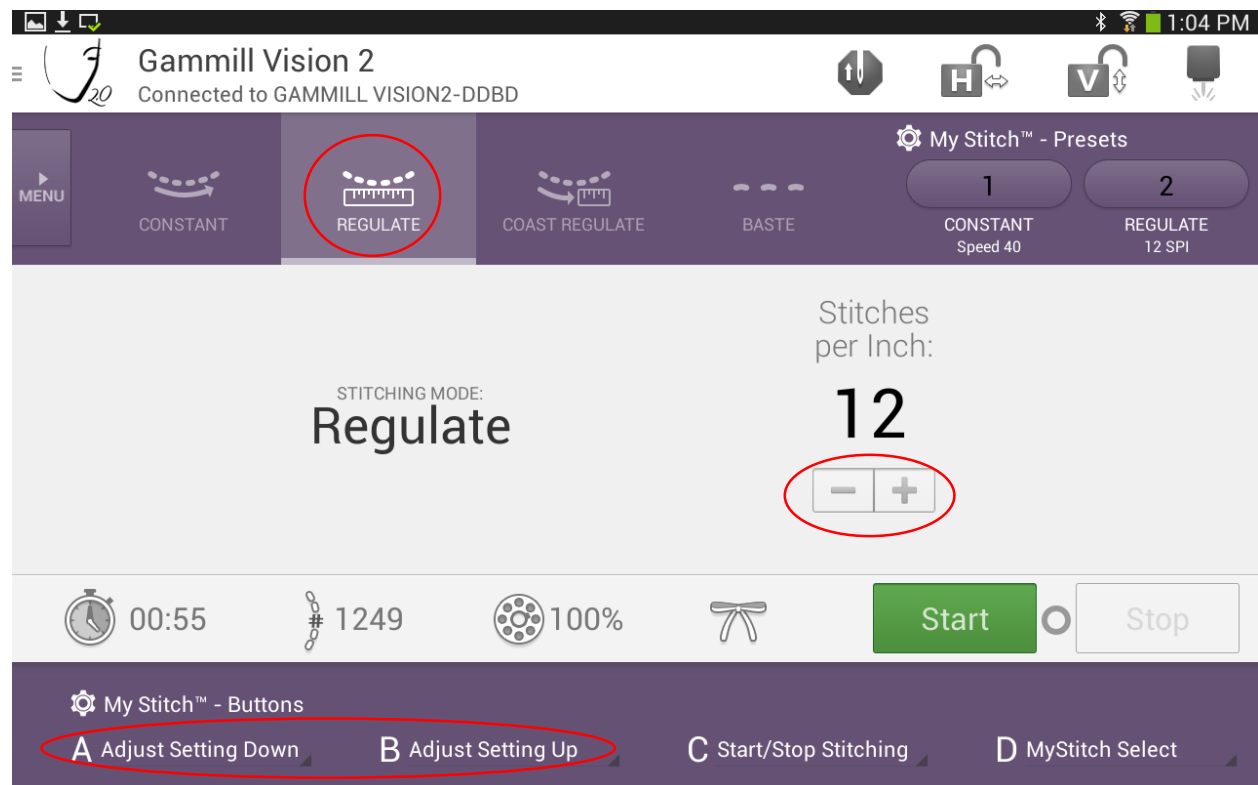
- Adjust the speed up or down by tapping the **plus or minus sign** in the mode section.
- Speed can be set from 0 to 100.

To adjust Constant Mode speed:

- Tap the **plus or minus sign** to increase or decrease speed while stitching, or
- Set the My Stitch™ Buttons to adjust setting up and/or adjust setting down. Then you may use the handle buttons to adjust speed while stitching.

REGULATE MODE:

Regulate Mode controls the length of the stitch regardless of the movement of the machine. Whether the head moves slowly or quickly, the stitch length remains the same.



To engage Regulate Mode:

- Tap the **Regulate icon** in the top ribbon.
- Notice the stitching mode is indicated in the mode section in the middle of the screen.

To set Regulate Mode:

- Adjust the stitch length up or down by tapping the **plus or minus sign** in the mode section.
- Stitch length can be set from 8 to 24 stitches per inch.

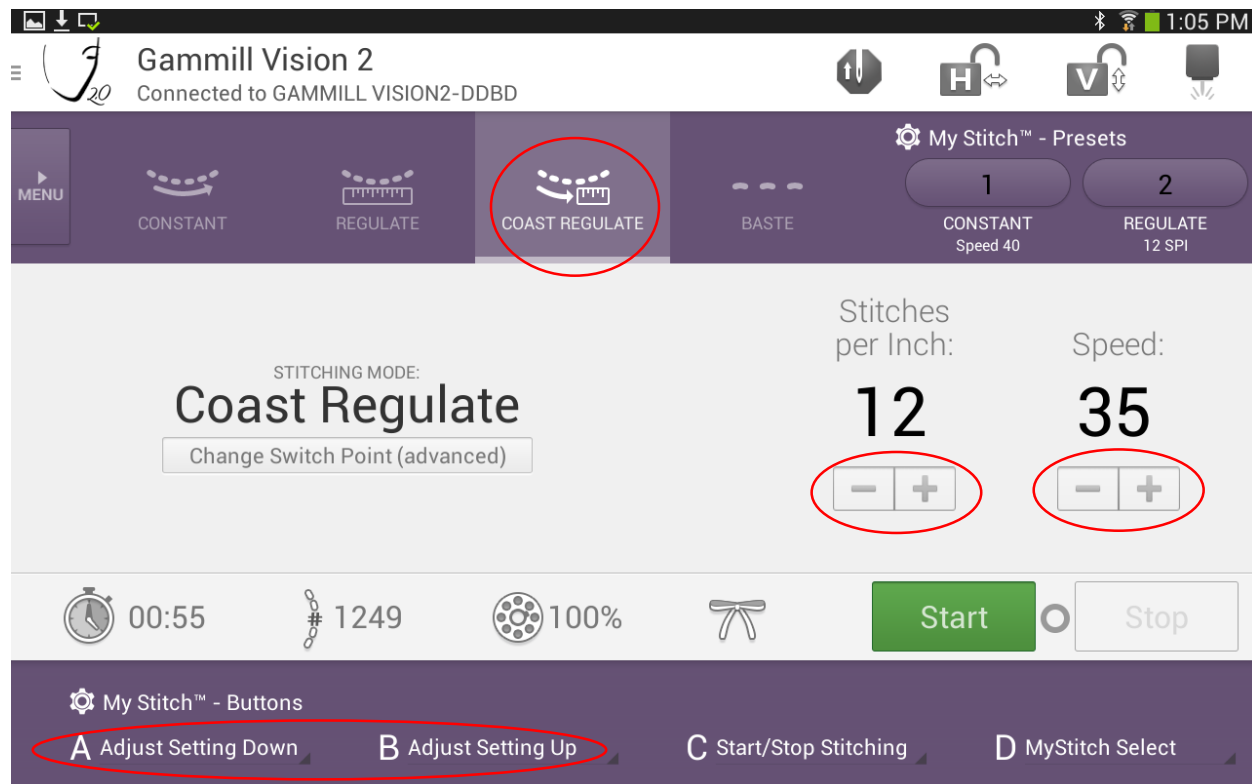
To adjust Regulate Mode:

- Tap the **plus or minus sign** to increase or decrease the stitch length while stitching, or
- Set the My Stitch™ Buttons to adjust setting up and/or adjust setting down. Then you may use the handle buttons to adjust speed while stitching.

BECAUSE THE MACHINE IS MAINTAINING A SET NUMBER OF STITCHES PER INCH, WHEN THE HEAD STOPS, MOVING STITCHING PAUSES. MOVING THE HEAD WILL CAUSE IT TO RESUME STITCHING. IF THE HEAD IS NOT MOVED FOR 10 SECONDS, THE MACHINE WILL STOP STITCHING. PRESS THE START BUTTON TO RESUME STITCHING.

COAST REGULATE MODE:

Coast Regulate Mode offers graceful transitions between large sweeping patterns and fill work. By fluctuating between stitch regulation and constant speed, the machine adjusts to the rate the head is moved providing the best of both worlds.



To engage Coast Regulate Mode:

- Tap the **Coast Regulate icon** in the top ribbon.
- Notice the stitching mode is indicated in the mode section in the middle of the screen.

To set Coast Regulate Mode:

- Adjust the stitches per inch up or down by tapping the **plus** or **minus sign** in the mode section.
- Next, adjust the speed up or down by tapping the **plus** or **minus sign**.

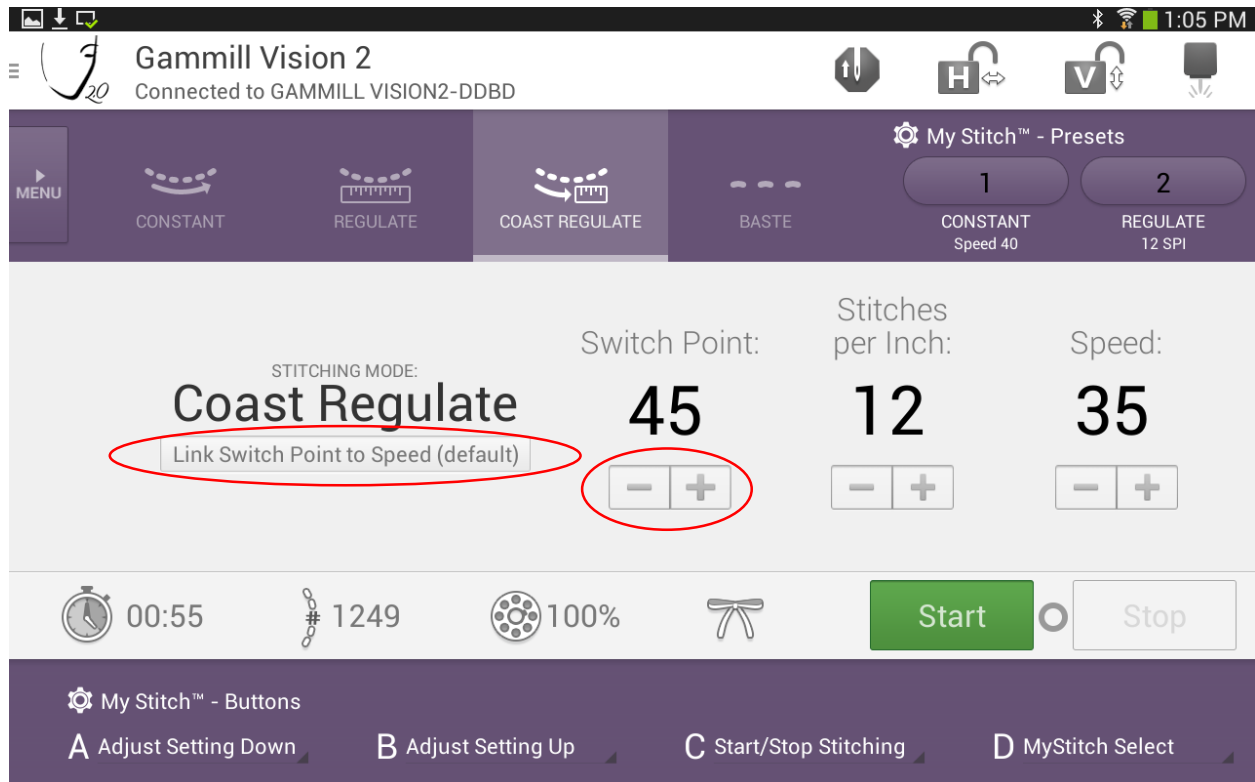
To adjust Coast Regulate Mode:

- Tap the **plus** or **minus sign** to increase or decrease speed while stitching or stitches per inch, or
- Set the My Stitch™ Buttons to adjust setting up and/or adjust setting down. Then you may use the handle buttons to adjust speed while stitching.

Coast Regulate Mode fluctuates automatically between Constant and Regulate modes. The set speed and stitch per inch is used to decide which mode the machine will stitch in. As the head is moved, the machine continually looks at the motor speed required to maintain the stitches per inch. If this rate of movement is above the set

speed, the machine operates in a regulated mode and maintains the set stitches per inch. If the speed is below the set speed, then the machine runs at a constant mode at the speed setting.

As an advanced feature, the point at which the machine switches from Regulate to Constant can be selected independently from the Constant speed.



To enable the Coast Regulate Switch Point:

- Tap the **Change Switch Point (advanced)** button located below the words "Coast Regulate" in the Stitching Mode indicator in the white mode section.
- The switch point appears in the mode section.

To set the Coast Regulate Switch Point:

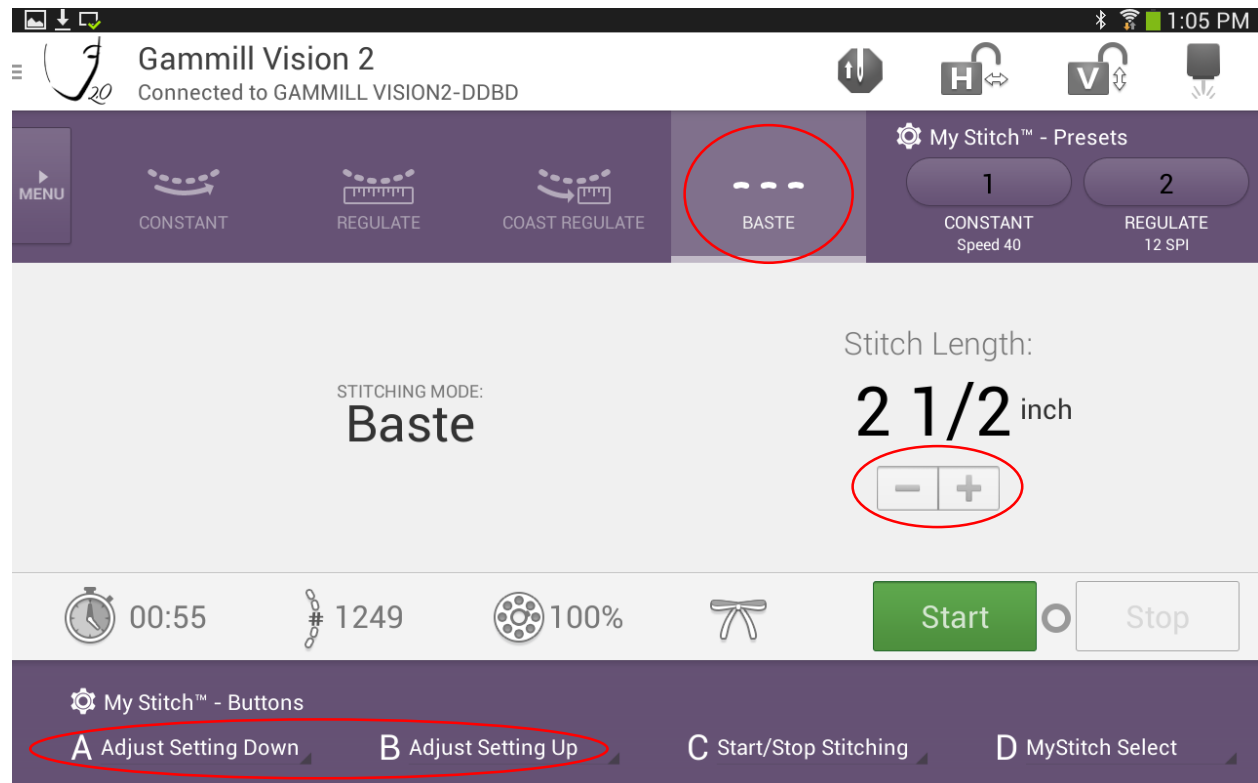
- Adjust the switch point up or down by tapping the **plus or minus sign** below the Switch Point indicator.

To disable the Coast Regulate Switch Point:

- Tap the **Link Switch Point to Speed (default)** button located below the words "Coast Regulate" in the Stitching Mode indicator in the mode section.

BASTE MODE:

Baste mode functions like stitch regulation on a large scale, stitching from $\frac{1}{4}$ inch stitch up to 4 inches per stitch. This helps to stabilize the quilt.



To engage Baste Mode:

- Tap the **Baste icon** in the top ribbon.
- Notice the stitching mode is indicated in the mode section in the middle of the screen.

To set Baste Mode:

- Adjust the stitch length up or down by tapping the **plus or minus sign** in the mode section.
- Basting length can be set from $\frac{1}{4}$ inch to 4 inches in $\frac{1}{4}$ inch increments.

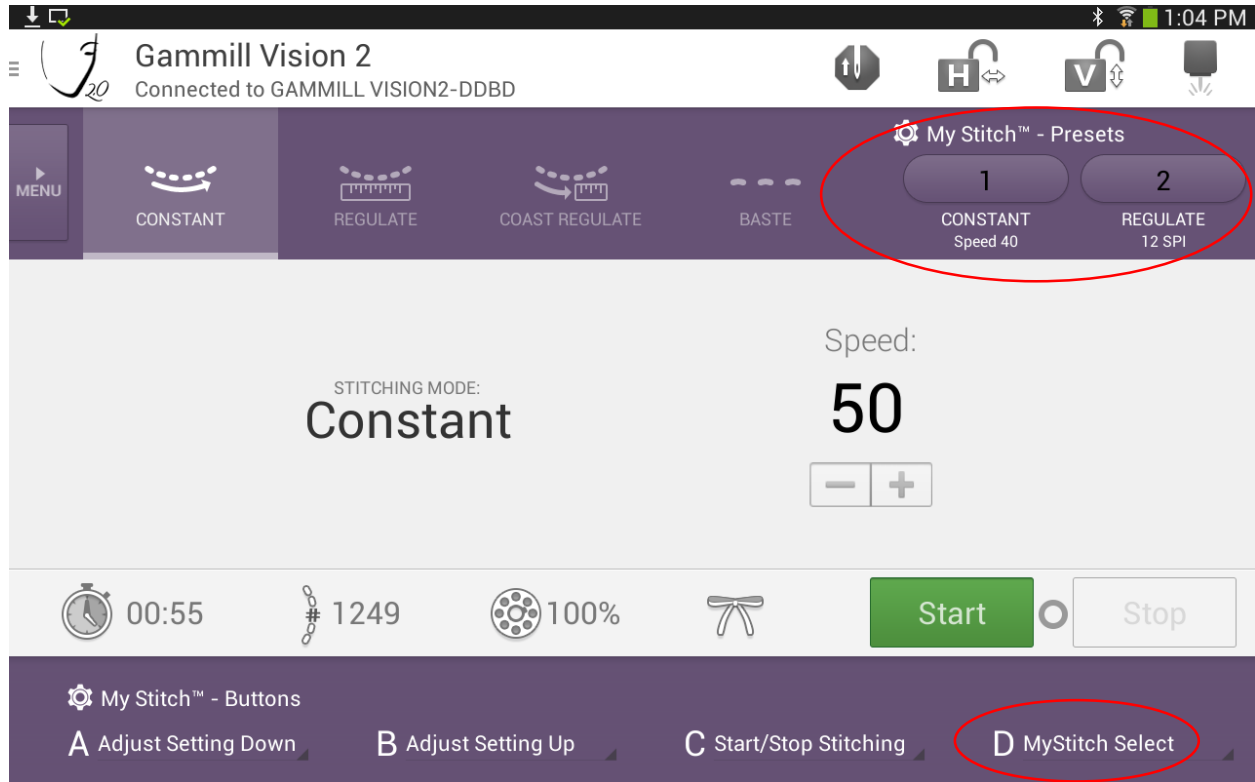
To adjust Baste Mode:

- Tap the **plus or minus sign** to increase or decrease stitch length while stitching, or
- Set the My Stitch™ Buttons to adjust setting up and/or adjust setting down. Then you may use the handle buttons to adjust speed while stitching.

BECAUSE THE MACHINE IS MAINTAINING A SET NUMBER OF STITCHES PER INCH, WHEN THE HEAD STOPS MOVING, STITCHING PAUSES. MOVING THE HEAD WILL CAUSE IT TO RESUME STITCHING. IF THE HEAD IS NOT MOVED FOR 10 SECONDS, THE MACHINE WILL STOP STITCHING. PRESS THE START BUTTON TO RESUME STITCHING.

MY STITCH™ PRESETS

My Stitch™ Presets offers a way to create presets for modes and settings. This is very useful for commonly used values. Additionally, by using the My Stitch™ Select Button, the user may change between the two presets without stopping stitching.



To access a My Stitch™ Preset:

- Tap the numbered My Stitch™ Preset button desired to access.
- Notice the stitching mode is indicated in the mode section in the middle of the screen and the active My Stitch™ Preset button is white.

To set a My Stitch™ Preset:

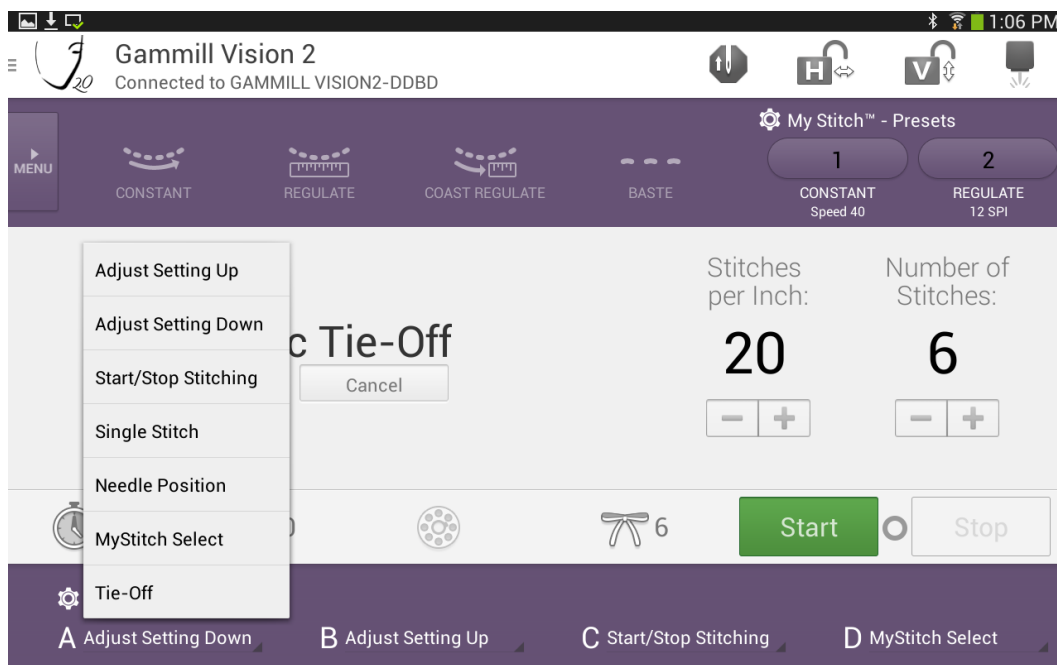
- Once the mode and settings are adjusted, touch and hold the desired preset button for 2 seconds to program it.
- Notice the mode and setting are indicated below the My Stitch™ Preset button.

To use the My Stitch™ Presets with My Stitch™ Buttons:

- Set one of the My Stitch™ Buttons to **MyStitch Select**.
- While stitching, press the handle button set to MyStitch Select.

MY STITCH™ BUTTONS

The My Stitch™ Buttons feature offers adjustment while stitching, fingertip access to key features and assistance with common functions. Each of the four My Stitch™ Buttons can be customized and set to change functions and speeds on the fly as well as access key functions such as tie off.



Each of the four buttons can be configured to any one of the following functions:

Function	Function Description
Adjust Setting Down	When pressed, the setting of the current mode will be decreased by one increment. If in Coast Regulate mode, only the Speed setting will be decreased.
Adjust Setting Up	When pressed, the setting of the current mode will be increased by one increment. If in Coast Regulate mode, only the Speed setting will be increased.
Needle Position	If the needle is up, when pressed, the needle will move to the down position and vice versa. When pressed again, the needle will move back to the up position.
Single Stitch	When pressed, the machine will take one stitch.
Start / Stop Stitching	This starts or stops the machine from stitching. One button must be set to this setting for the machine to function.
Tie Off	When pressed, the machine will begin the tie-off function.
MyStitch Select	When pressed, the machine function will switch between the two My Stitch™ Presets. If stitching, the machine will not stop, but will instantly switch between the two modes.

EACH BUTTON PERFORMS THE SAME FUNCTION WHETHER STITCHING IS STARTED OR STOPPED. HOWEVER, SOME FUNCTIONS SUCH AS NEEDLE POSITION AND SINGLE STICH ARE DISABLED ONCE STITCHING IS STARTED.