

## Vision<sup>™</sup> 2.0 Upgrade User Manual

Gammill, Inc. | March 2014

# User Manual Vision™ 2.0 upgrade

#### 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. <u>Some of the tools and accessories detailed in this Manual may be optional equipment.</u> 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.

#### Copyright © 2014 Gammill, Inc. All Rights Reserved

PN140-0007 Revoo

March 2014

All rights reserved. No parts of this work may be reproduced in any form or by any means – graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems – without the written permission of the publisher.

Products that are referred to in this document may be either trademarks and/or registered trademarks of the respective owners. The publisher and the author make no claim to these trademarks.

While every precaution has been taken in the preparation of this document, the publisher and the author assume no responsibility for errors or omissions, or for damages resulting from the use of information contained in this document or from the use of programs and source code that may accompany it. In no event shall the publisher and the author be liable for any loss of profit or any other commercial damage caused or alleged to have been caused directly or indirectly by this document.

	This manual outlines the steps required to install a Vision 2 upgrade onto existing Gammill Vision <sup>®</sup> machines, or Gammill machines that have been outfitted with the Gammill Vision <sup>®</sup> In-Home upgrade previously.
	If you do not have a Gammill Vision <sup>®</sup> , or machine with the Gammill Vision <sup>®</sup> In-Home upgrade, consult your local Gammill representative or Gammill factory technician for assistance.

#### TABLE OF CONTENTS

Vision™ 2.0 upgrade Front View	7
Vision™ 2.0 upgrade Installation Instructions	8
Preparation:	11
upgrade Module Installation:	
Tablet Mount Installation:	13
Side Plate Installation (Optional):	
Powering Up	20
The Tablet	25
The Vision™ 2.0 Application	26
Stitching	
Stitching Modes	
Constant Mode	
Regulate Mode	
Coast Regulate Mode	33
Baste Mode	
My Stitch™ Presets	
My Stitch™ Buttons	
Automatic Tie-Off Function	43
Stitch Timer Function	
Stitch Counter Function	50
Bobbin Gauge Function	
Connection Information	56
Needle Stop Position	57
Horizontal Channel Lock	58
Vertical Channel Lock	
Laser	60
Additional Features - Future Enhancements	62
Main Menu	63
Settings and Other Screens	65
General Navigation	65
Gammill Vision® 2	66
About this App & Updates	66
Alerts	

Needle Settings
Laser Settings
Display Settings
Bluetooth Setup82
Quick Start Guide
Service & Maintenance Screens
Navigation
Buttons & Sensors
Motor Operation
Communications
Oiling
Needle Position



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

	Risk for electric shock or burn. Unplug machine before removing any machine covers.						
	Heavy weight. Some components are heavy. A minimum of two people should lift the head, table parts, or any other large components to prevent injury.						

	Moving needle and hopping foot can cause injury. Keep body parts and loose clothing away.					
	Pinch points. It is possible to pinch hands and fingers. Be alert and keep hands clear.					
	Rotating parts can cause injury. Keep hair, body parts, and loose clothing away.					
*	Laser radiation. Avoid direct exposure to beam.					

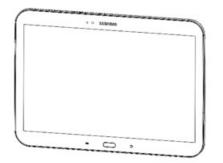
VISION™ 2.0 upgrade FRONT VIEW

Part	What it does
Front Handles	The handles are equipped with push button stitches allowing two button selections. The buttons in the handles can be customized to your preferred settings.
Light	Embedded in the handles, the light illuminates the quilting area with natural (LED) or black light (UV).
Presser Bar	The presser bar holds the hopping foot and controls the hopping foot height and stroke.
Hopping Foot	The hopping foot maintains the needle and fabric distance to create good stitches. The shape makes it safe to guide the machine along the edge of a template or ruler.
Tablet	The tablet contains the Vision 2.0 Android App that communicates with the machine.
Needle Bar	The needle bar holds the needle and maintains the needle height to create good stitches.
Needle	The needle carries the thread through the fabric.
upgrade Module	Replaces the main module as the brains of the machine. Interfaces to the tablet via Bluetooth.

Welcome to the Vision<sup>™</sup> 2.0 upgrade. Take the current Gammill Vision<sup>®</sup> handguided longarm quilting system to a new level of functionality and customizability with the new features offered by the Vision<sup>™</sup> 2.0 upgrade. This upgrade is designed to be installed by the user with these simple instructions.

IMPORTANT NOTICE: THE VISION<sup>™</sup> 2.0 upgrade WORKS WITH THE CURRENT MODULE DOCK WITH TWO PROTRUDING PINS. ANY PREVIOUS DOCKS ARE NOT COMPATIBLE.

UPGRADING THE GAMMILL VISION® MAY BE REVERSED IF DESIRED. SIMPLY REVERSE THE INSTALLATION INSTRUCTIONS PRESENTED HERE IN THIS GUIDE. PARTS REQUIRED (INCLUDED IN KIT)



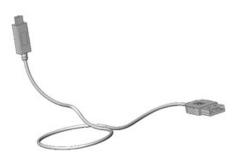
One (1) Samsung Galaxy Tab 3 Tablet



One (1) Tablet Holder



One (1) Misalignment Washer Set (Installation Optional)

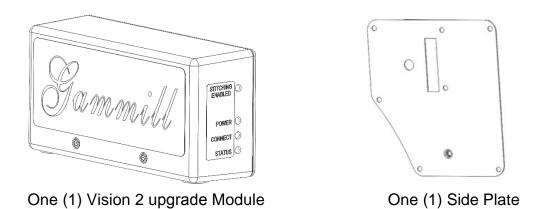


One (1) 18" USB Charging Cable

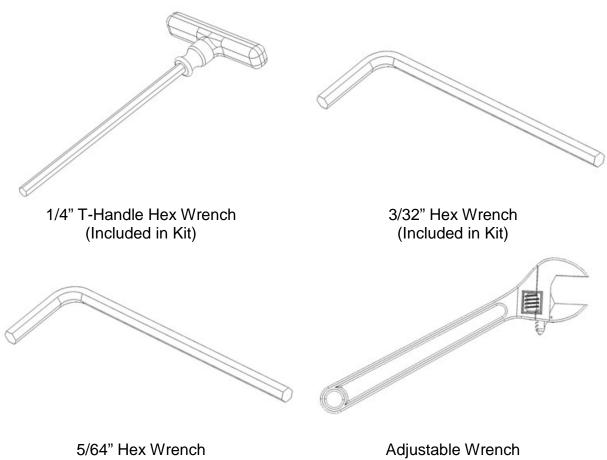


One (1) Tablet Mount

Parts Required (Included in Kit) -Continued:

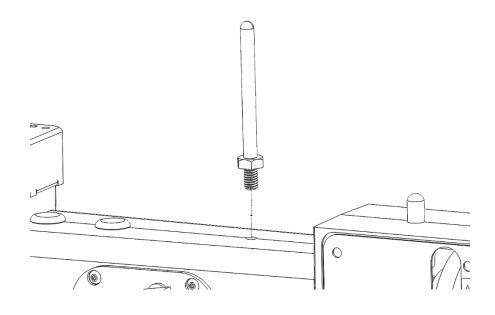


**TOOLS REQUIRED** 

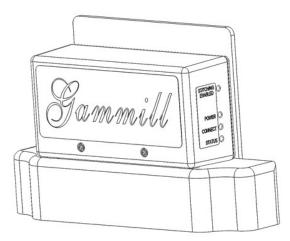


#### PREPARATION:

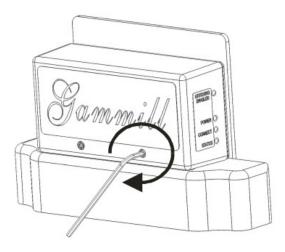
- 1. Turn both machine power switches to the OFF (O) position.
- 2. Unplug the power cord from the rear of the machine.
- 3. Remove the Vision main module from the dock. Store the module away as it will no longer be necessary to operate the machine.
- 4. Using an adjustable or 7/16" wrench, loosen the jam nut and remove the stylus post from the top of the head. Set the stylus post aside for use in the Side Plate Installation Section (Optional).



- 1. Record the information printed on the sticker on the bottom of the upgrade module. This information may be required in a later section.
- 2. Place the upgrade module onto a machine dock. It is recommended that the front dock be used for easy viewing of the indicator lights, but the rear dock may be utilized if the user prefers.

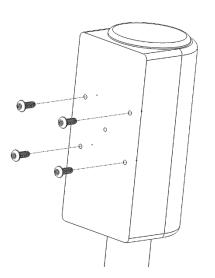


3. While holding the upgrade module into place on the dock, use a 3/32" hex wrench to tighten the two set screws on the front of the module. These screws lock onto the alignment posts and secure the module onto the machine.

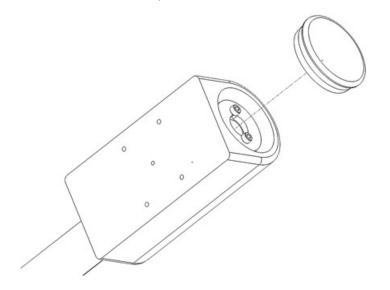


#### TABLET MOUNT INSTALLATION:

1. Using a 5/64" hex wrench, remove the four 6-32 x 3/8" screws from the Tablet Mount Block. Set them aside for re-installation in a later step.

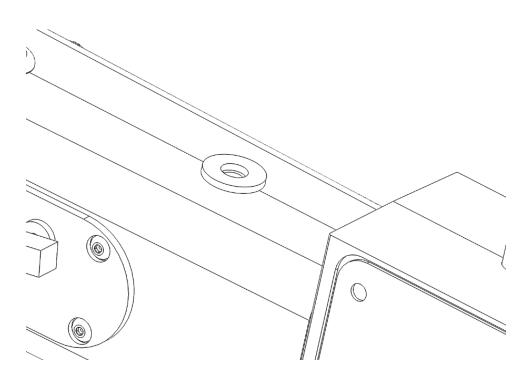


2. Remove the plastic cap from the end of the Tablet Mount and set it aside. It will be re-installed in a later step.



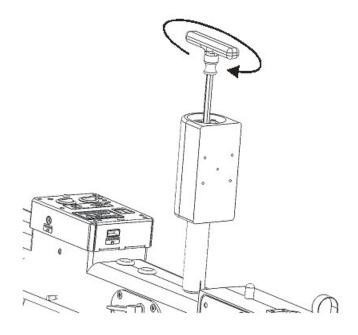
3. Place the included metal alignment washer set (stacked inside each other) onto the top of the head, around the hole where

the stylus post was removed in the Preparation section, step 4.

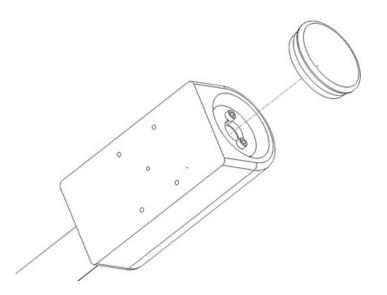


4. Place the tablet mount post onto the stacked metal washers

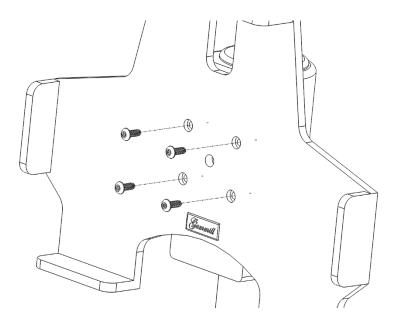
5. Use a 1/4" T-handle hex wrench to tighten the screw that goes through the middle of the post into the head. The alignment mark on the bottom of the post must face forwards (towards the needle end of the machine). Use an adjustable wrench to hold the flats on the shaft as you tighten the screw.



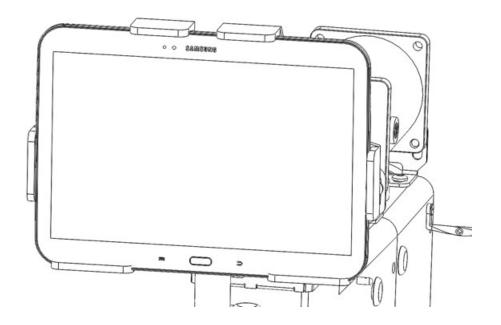
6. Place the black plastic cap onto the top of the mount block.



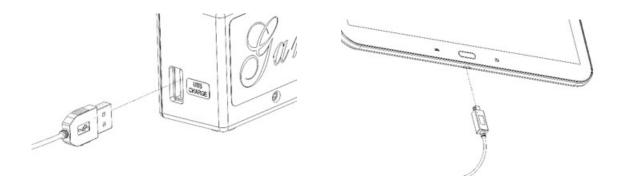
7. Using a 5/64" hex wrench, install the four 6-32 x 3/8" screws removed in step 1 of this section to secure the plastic tablet holder to the mounting block.



- 8. Remove the Samsung Galaxy Tab 3 tablet from its packaging.
- 9. Install the tablet into the holder. Place the bottom of the tablet into the holder first, and rock it rearward until it is locked into place.



10. Plug the black 18" USB charging cable into the USB port on the side of the upgrade module and into the bottom of the tablet. Ensure the cable does not contact rotating components, etc., securing it as necessary.

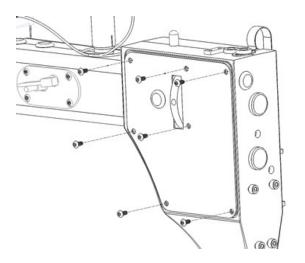


#### SIDE PLATE INSTALLATION (OPTIONAL):

### 

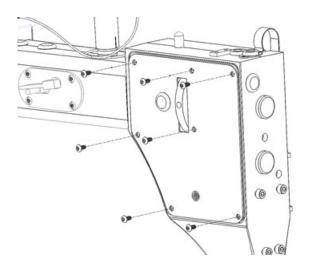
This section is optional. If you did not utilize the stylus post that was removed in Preparation, step 4 to use a laser at the front of the machine, this section may be skipped. Please store the parts for later use in case your needs change.

 Using a 3/32" hex wrench, remove the eight (18" and 22" machines) or seven (26" and 30" machines) 8-32 x 3/8" screws that secure the side plate to the head. Note - Front Dock and Handles removed in image for clarity.

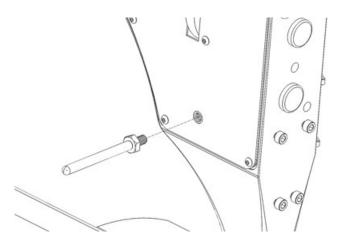


- 2. Remove the rubber gasket from the head and clean of all oils.
- 3. 26" or 30" Machines ONLY move the hole plug from the old side plate to the new one.
- 4. Place the gasket onto the side plate and place them both onto the head.

5. Using a 3/32" hex wrench, install the eight (18" and 22" machines) or seven (26" and 30" machines) 8-32 x 3/8" screws to secure the side plate to the head. Note - Front Dock and Handles removed in image for clarity.



- 6. Turn the hand wheel by hand. Verify that neither the gasket nor new side plate are rubbing the hand wheel as it is rotated. If it does rub, repeat Steps 1 6, adjusting where necessary to eliminate the issue.
- 7. Install the stylus post removed in Preparation, step 4 into the nut on the side plate. Note - Front Dock and Handles removed in image for clarity.



8. Using an adjustable or 7/16" wrench, tighten the jam nut to secure the stylus post.

#### POWERING UP

- 1. Plug the power cord back into the rear of the machine.
- 2. Turn both power switches to the ON (I) position.
- 3. Observe that the power light on the upgrade module is lit. If it is not lit, turn the power switches OFF (O) and ensure that the upgrade module is properly installed onto the dock.
- 4. Turn the Samsung tablet on. To do this, press and hold the power button (upper left corner) until you see a logo on the screen.
- 5. Once the tablet is fully booted, touch the Gammill Vision 2 icon on the home screen to open the app.



6. Touch the Menu button on the upper left of the screen.

				🕸 My Stitch <sup>™</sup> - Presets			
MENU	·	נווייייייין				2	
	CONSTANT	REGULATE	COAST REGULATE		CONSTANT Speed 40	REGULATE 12 SPI	

#### 7. Touch Bluetooth Setup.

	Gammill Visio		8E			∦ 🖀 📕 4:02 PM
	Gammill Vision 2				🛱 My Stitch™ - Pres	sets
	About this App	لسيسين				2
	About this App	REGULATE				REGULATE 12 SPI
	Alerts					
	Needle Settings				peed:	
	Laser Settings	STITCHING MODE			50	
	Display Settings	Constar	nt		50	
	Service and Maintenance				- +	
_	Bluetooth Setup					
	Quick Start Manual	3970	100%	M	Start O	Stop
				R Start/Stop Sti	tching	

8. Touch the address of your machine from the list. If you have multiple machines on the listing, consult the address recorded in step 1 on page 12. It is four digits, and may consist of numbers and capital letters. I.E. FBBD, DC4A, etc. The tablet will be connected to the machine.

	STI	se Bluetooth Devic		E	
<b>()</b> 00:04	89		Cancel	Start	O Stop

9. Touch the Menu button on the upper left of the screen.

				🕸 My Stitch <sup>™</sup> - Presets			
MENU	·	لسسسا	Sim			2	
	CONSTANT	REGULATE	COAST REGULATE		CONSTANT Speed 40	REGULATE 12 SPI	

10. Touch Service and Maintenance. The screen will change to the Service and Maintenance screens.

Gammill Visi		E18E			∦ 🖀 📕 4:02 PM
Gammill Vision 2				🕸 My Stitch''' - Pre	sets
About this App	(monor)				2
Alerts	REGULATE			CONSTANT Speed 40	REGULATE 12 SPI
Needle Settings				peed:	
Laser Settings	STITCHING MODE:		C.	50	
Display Settings	Consta	nt	_		
Service and Maintenance				+	
Bluetooth Setup		0			
Quick Start Manual	3970	100%	M	Start O	Stop
🕸 My Stitch * – Bultons					
L MyStitch Select			R Start/Stop Stil		

11. Touch the Motor Operation tab. The tab displayed will change.

	Maintenance	18E			⊀ 🖀 📕 4:06 PM
BUTTONS & SENSORS	MOTOR OPERATION		OILING		
Encoder Position		Handle Buttons		Needle Position	Thread Movement
Đ	L		REAR	UP SENSOR	
the quilting arm, mo	sors, and the thread	movement sensor. T ip and down limits, a	he associated nd press any h	ncoders, the machine h indicator should turn g andle button on the Vis d.	reen when you move

- 12. Remove thread from needle and take-up lever if necessary. Also remove the bobbin from the machine.
- 13. Touch Calibrate. A popup window will appear.

( )	vice &	Maintenanc	e			×.	<u></u>
U		٠			<b>‡</b> ∬		
BUTTONS & SE	NSORS	MOTOR OPERATION	COMMUNICATIONS		NEEDLE POSI		
	c	alibration			Manual Op	eration	
SI	peed (%	.) Sec/stitch (m	ns)		0	● Forw ○ Reve	
Calibra	te 🦨	300			Sta	rt O	Stop
will automa	atically b	be calibrated. Man	he machine before o ual Operation: Selec b be changed while	t a Direction and	d Speed setting, the		

14. Touch Start motor calibration on the popup window. A calibration routine will be run on your motor. This is used to improve the accuracy of stitch regulation. The test will run for approximately 40 seconds and automatically stop when complete.

	G,	10 m		t l	
	otor Calibra	ation			
	Remove the threa motor will run for <b>Are you ready to</b>	approxim	ately 40 second	ls.	ward verse
Calibrate	Cancel		Start motor	calibration	) Stop
	l and bobbin from the ma be calibrated. Manual Oj ed setting may also be c				

15. Once calibration is complete, touch the icon in the upper left corner of the screen to return to the main screen.



16. Installation is complete. Enjoy your new Vision™ 2.0 upgrade.

#### THE TABLET

### SEE THE SAMSUNG TAB $_{\rm 3}$ QUICK START GUIDE FOUND IN THE TABLET BOX FOR BASIC TABLET INFORMATION.



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

Samsung Tablet Updates:

SAMSUNG WILL REGULARLY PUSH UPDATES FOR THE TABLET. WE RECOMMEND THAT YOU DO NOT INSTALL THESE UPDATES UNTIL WE PUT A NOTICE ON THE GAMMILL WEBSITE RECOMMENDING YOU DO SO. THIS WILL GIVE US TIME TO CHECK THE UPDATE TO SEE HOW IT WILL INTERACT WITH OUR APPLICATION AND YOUR VISION™ 2.0 SYSTEM.

#### THE 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<sup>™</sup> 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<sup>™</sup> Buttons features.

Title Bar		What you can do with it
E Gammill Vision 2 Connected to GAMMILL VISION2-DDBD	Menu Access	Accesses the menu options for specialized functions and contains the connection status to the machine
	Needle Position	Sets needle position when stitching stops to needle up or needle down
Ĥ⇔	Horizontal Lock	Locks the head to only move in the horizontal direction
Ŷ	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	Menu Tab	Accesses the menu options for specialized functions
CONSTANT	Constant	Allows the constant stitching mode to be selected

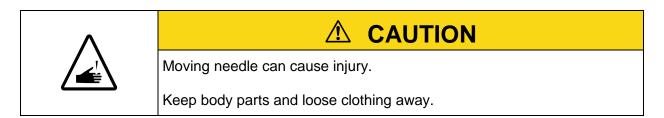
REGULATE	Regulate	Allows the regulate stitching mode to be selected
COAST REGULATE	Coast Regulate	Allows the coast regulate stitching mode to be selected
BASTE	Baste	Allows the basting mode to be selected
Image: Constant       REGULATE         Speed 40       12 SPI	My Stitch™ Presets 1 & 2	Allows two 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: Baste	Stitching Mode	Indicates the active stitching mode.
Stitch Length: 21/2 inch	Stitch Setting	Indicates the stitch setting and allows stitch adjustment
	Stitch Timer	Tracks stitching time and is resettable

00#00	Stitch Counter	Tracks the stitch count and is resettable
	Bobbin Gauge	Tracks the bobbin usage and alarms when the bobbin is low
77	Tie Off Function	Initiates a series of tiny locking stitches
Start	Start Button	Starts stitching
Stop	Stop Button	Stops stitching
Bottom Ribbon		What you can do with it
🛱 My Stitch <sup>™</sup> - Buttons	My Stitch™ Buttons A-D	Assigns functions to each of the four handle buttons.

IF THE TOUCH SCREEN SEEMS LESS SENSITIVE AFTER A WHILE, REBOOT THE TABLET BY PRESSING AND HOLDING THE TABLET POWER BUTTON. SELECT **RESTART** FROM THE WINDOW. ONCE RESTARTED, REOPEN THE APP BY TOUCHING THE ICON.

WHEN TURNING OFF THE MACHINE, PUT THE TABLET TO SLEEP BY PRESSING THE BUTTON ON THE TOP LEFT EDGE OF THE TABLET. IF THE TABLET IS LEFT ON WITH THE MACHINE OFF, THE TABLET BATTERY WILL BE DEPLETED QUICKLY.

#### STITCHING



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<sup>™</sup> 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 two buttons, but one must be set to Start/ Stop Stitching.

🛱 My Stitch <sup>™</sup> - Buttons	
L Adjust Setting Up	R Start/Stop Stitching

• Press the handle button assigned to start or 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<sup>™</sup> 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.

■ Gammill V = 20 Connected to 0	<b>Tision 2</b> GAMMILL VISION2-E	E18E	0	• ⊞⇔ ∎	* 🗊 🖬 3:28 PM
MENU	REGULATE	COAST REGULATE	BASTE	Ø My Stitch <sup>™</sup> - Pre 1 REGULATE 16 SPI	esets 2 CONSTANT Speed 25
	STITCHING MOD Consta		Spe 2		
00:09	¥# 101	000 100%	77	Start O	Stop
🛱 My Stitch™ - Butto L Adjust Setting Up	ns		R Start/Stop Stitch	ing	

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:

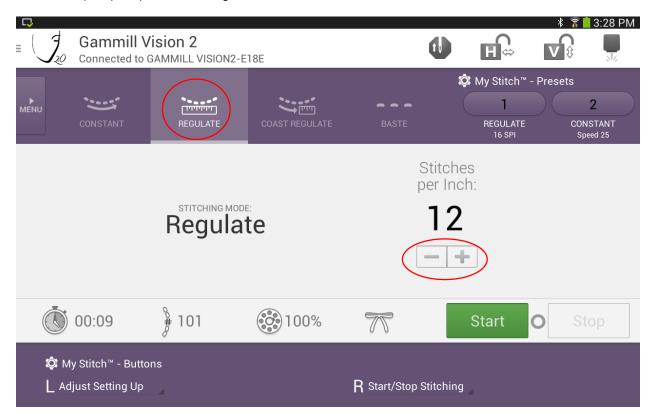
- Adjust the speed up or down by tapping the **plus or minus sign** in the mode section.
- Speed can be set from 0 to 100.

To adjust Constant Mode speed while quilting:

• Tap the **plus or minus sign** to increase or decrease 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 while quilting:

• Tap the **plus or minus sign** to increase or decrease the stitch length 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.

#### Over Speed Alarm:

■ <b>□</b> = (J <sub>20</sub>	Gammill V Connected to G	<b>ision 2</b> GAMMILL VISION2-E	18E	Q		* 🛜 🖥 3:29 PM
▶ MENU	CONSTANT	(ที่ที่ที่ที่ที่ REGULATE	COAST REGULATE	BASTE	Ø My Stitch™ REGULATE 16 SPI	2
		STI	DVER SPEED: as moved faster than regu y result. OK		in:	
Š	00:23	¥ 483	100%	77		Stop
	y Stitch™ - Buttor just Setting Up			R Start/Stop Stite		

WHEN THE STITCHES PER INCH ARE SET AT A HIGH NUMBER, AND THE HEAD IS MOVED QUICKLY, IT IS POSSIBLE THAT THE REQUIRED MOTOR SPEED WOULD BE HIGHER THAN CAN BE MAINTAINED FOR AN EVEN STITCH. IF THIS SITUATION OCCURS, AN ALERT MESSAGE: *OVER SPEED* WILL APPEAR ON THE SCREEN. IF THIS APPEARS, LONG STITCHES COULD RESULT. SETTING A LOWER STITCHES PER INCH SETTING, SLOWING MOVEMENTS, OR BOTH WILL PREVENT THIS.

#### 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.

	Gammill \ Connected to	/ision 2 GAMMILL VISION2	2-E18E		1	E⇔	∦ 🛜 🕇 3:29 PM 🔽 🕄 🕄
MENU	CONSTANT	<mark>Гітітіті</mark> REGULATE	COAST REGULATE	BASTE	<b>X</b>	X My Stitch™ - 1 REGULATE 16 SPI	- Presets 2 CONSTANT Speed 25
	Coas	STITCHING MODE: St Regul Switch Point (adva		(	Stitch per In 12	ich:	Speed: <b>35</b>
Ś	00:30	# 484	100%	77		Start	O Stop
	y Stitch™ - Butto just Setting Up	ons		R Start/Stop S	Stitching	A	

To engage Coast Regulate Mode:

- Touch 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:

- Touch the **plus** or **minus sign** under Stitches per Inch to adjust stitch length.
- Touch the **plus** or **minus sign** under Speed to adjust the stitching speed.

To adjust Coast Regulate Mode while quilting:

• Touch the **plus or minus sign** to increase or decrease speed while stitching or stitches per inch.

COAST REGULATE MODE FLUCTUATES AUTOMATICALLY BETWEEN CONSTANT AND REGULATED MODES. THE SET SPEED AND STITCHES PER INCH ARE 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.

	Gammill V Connected to G	<b>ision 2</b> FAMMILL VISION2-E	18E			<b>E</b> ⇔	* î	3:30 PM
MENU	CONSTANT	۲۳۹۹۹۹۹ REGULATE	COAST REGULATE	BASTE	¢	My Stitch <sup>™</sup> · REGULATE 16 SPI	CC	2 DNSTANT Speed 25
<	Coas	TITCHING MODE: <b>TRegula</b> Point to Speed (def	te <b>4</b>	n Point: 5 +	Stitch per In <b>12</b>	nes ich:	Spee 35	d:
١	00:31	°# 484	100%	M		Start	<b>o</b> s	top
	y Stitch™ - Buttoı just Setting Up	ns		<b>R</b> Start/Stop	Stitching			

To enable the Coast Regulate Switch Point:

- Touch 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:

• Touch the **plus or minus sign** below the Switch Point indicator to adjust up or down.

To disable the Coast Regulate Switch Point:

• Touch 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 ¼ inch up to 4 inches per stitch. This helps to stabilize the quilt.

■ ↓ J <sub>20</sub>	Gammill Vi Connected to G	<b>sion 2</b> AMMILL VISION2-E	18E	1		* 🛜 🗎 3:30 PM
MENU	CONSTANT	<b>Террет</b> REGULATE	COAST REGULATE	BASTE	Ø My Stitch <sup>™</sup> - Pre REGULATE 16 SPI	2 CONSTANT Speed 25
stitching mode: Baste					titch Length: 2 1/2 inch	
Ō	00:31	# 484	100%	77	Start O	Stop
Ø My Stitch™ - Buttons L Adjust Setting Up				R Start/Stop Stitcl	hing	

To engage Baste Mode:

- Touch 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:

- Touch the **plus or minus sign** to adjust the stitch length.
- Basting length can be set from ¼ inch to 4 inches in ¼ inch increments.

To adjust Baste Mode while basting:

• Touch the **plus or minus sign** to increase or decrease stitch length 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.

#### Over Speed Alarm:

_ ( ]	Gammill Vi	sion 2		A		∦ 🗊 🚺 3:31 PM		
= \J_20		AMMILL VISION2-	E18E	<u>u</u>	H⇔			
					🛱 My Stitch™ - I	Presets		
MENU					1	2		
						CONSTANT Speed 25		
		2						
		ALERT -	ALERT - OVER SPEED:			h Length:		
			The head was moved faster than regulation could maintain. Long stitches may result.			h		
			ок			- [+]		
Š	00:39	₩ 495	100%	77	Start	Stop		
<b>Ø</b> M	y Stitch™ - Button							
	just Setting Up			R Start/Stop Stitc				

WHEN THE STITCH LENGTH IS SET AT A LOWER NUMBER, AND THE HEAD IS MOVED QUICKLY, IT IS POSSIBLE THAT THE MACHINE CAN BE MOVED FASTER THAN THE STITCHING CAN MAINTAIN. IF THIS SITUATION OCCURS, AN ALERT MESSAGE: *OVER SPEED* WILL APPEAR ON THE SCREEN. IF THIS APPEARS, LONG STITCHES COULD RESULT. SETTING A LOWER STITCHES PER INCH SETTING, SLOWING MOVEMENTS, OR BOTH WILL PREVENT THIS.

#### MY STITCH™ PRESETS

My Stitch<sup>™</sup> 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<sup>™</sup> Select Button, the user may change between the two presets without stopping stitching.

■ <b>□</b> = (	Gammill V Connected to G	<b>ision 2</b> GAMMILL VISION2-	E18E		0		* 🗊 🕇 3:32 PM
MENU	CONSTANT	<b>การกระก</b> <b>REGULATE</b>	COAST REGULATE	BASTE		My Stitch <sup>™</sup> - 1 CONSTANT Speed 40	Presets 2 REGULATE 12 SPI
STITCHING MODE: Constant				[	Speed: 50 - +	_	
١	00:48	¥ 496	100%	M		Start C	Stop
©t My Stitch™ - Buttons L MyStitch Select R Start/Stop					Stitching	A	

To access a My Stitch<sup>™</sup> Preset:

- Tap the numbered My Stitch<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> Preset button.

To use the My Stitch<sup>™</sup> Presets with My Stitch<sup>™</sup> Buttons:

- Set one of the My Stitch<sup>™</sup> Buttons to **My Stitch Select**.
- While stitching, press the handle button set to My Stitch Select.
- Notice the stitching mode instantly changes to the newly selected preset while stitching.

EACH OF THE TWO PRESETS CAN BE SET TO ANY MODE AND SETTING COMBINATION THAT IS AVAILABLE TO THE USER. WHILE THE EXAMPLE IMAGE SHOWS TWO DIFFERENT MODES, IT IS POSSIBLE TO SET BOTH PRESETS TO THE SAME MODE WITH DIFFERENT SETTINGS, ETC. THIS FEATURE IS LIMITED ONLY BY THE USER'S IMAGINATION.

To access Help:

• Press the small gear above the My Stitch Preset buttons.

					🕸 🛜 🛑 3:32 PM
	I Vision 2 to GAMMILL VISION2	-E18E	0		
				Ø My Stitch™	- Presets
MENU ****		ÿ		1	2
CONSTANT	REGULATE			CONSTANT Speed 40	REGULATE 12 SPI
			S	peed:	
	STITCHING MO			50	
	Consta	ant	C	00	
			-	· •	
<u>م</u> ۵۵ ۲۵	8 105	(00) 1000		01-1	
00:48	₿ 496	00%		Start	O Stop
🛱 My Stitch™ - B	uttons				
L MyStitch Select			R Start/Stop Stit	tching	
					🕴 🛜 📋 3:36 PM
	II Vision 2		6		
20 Connected	to GAMMILL VISION2	-E18E			- Presets
MENU "	My Stite	:h™ - Presets		1	2
CONSTANT			f the barrent	INSTANT	REGULATE
_	your Preset	ve two different grou s. First, choose a stit	ch type: Constant	t,	12 SPI
	Regulate, C settings that	oast Regulate, or Bas at you like.	te. Then, choose	stitch	
			- ·		
		current stitch setting old the Preset 1 or P		2	
	seconds.				
	To recall the	e saved settings, any	time you like:		
*	Simply pres	s the Preset 1 or Pre	set 2 button.		
00:48				irt	O Stop
		OK			
🕼 My Stitch <sup>™</sup> - B			D. Stort (Store St)		
MyStitch Selec			R Start/Stop Stit		

#### MY STITCH™ BUTTONS

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

	Gammill Visio		E18E			<b>E</b>	* 🖀 🗎 3:38 PM		
MENU	CONSTANT	TTITITITI TEGULATE	COAST REGULATE	© My Stitch <sup>™</sup> - Presets 1 2 BASTE CONSTANT REGUL Speed 40 12 SF					
	Adjust Setting Up	1					12011		
	Adjust Setting Down			Speed:					
	Start/Stop Stitching	onstant		50					
	Single Stitch			- +					
	Needle Position				_				
C	MyStitch Select	496	100%	M		Start O	Stop		
¢	Tie-Off								
L	MyStitch Select			R Start/Stop S	titching	B/			

Each of the two 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.
My Stitch 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.

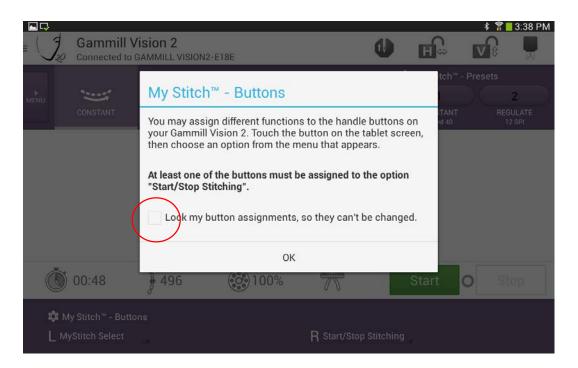
# LOCKING THE BUTTON ASSIGNMENTS PREVENTS THEM FROM EASILY BEING CHANGED.

Locking the My Stitch Buttons:

• Touch the small gear beside the My Stitch<sup>™</sup> Buttons.

<b>-</b>						🕴 🔋 📋 3:28 PM		
= (J_20								
					🛱 My Stitch™ - Pro	esets		
► MENU	·:				1	2		
	CONSTANT	REGULATE	COAST REGULATE	BASTE	REGULATE 16 SPI	CONSTANT Speed 25		
				Stitches per Inch:				
					2			
Regulate			-+					
Ö	00:09	€ 101	000 100%	77	Start O	Stop		
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	y Stitch™ - Butto ljust Setting Up	ns		R Start/Stop Stite	ching			

• Touch the box to select the option to lock the button assignments.



# AUTOMATIC TIE-OFF FUNCTION

Secure stitching with the Automatic Tie-Off function that delivers a set number of stitches at a preselected density.

	Gammill Vi Connected to G	sion 2 AMMILL VISION2-	E18E		0		* 🗊 3:38 PM
MENU	CONSTANT	REGULATE	COAST REGULATE	BASTE	CC	Stitch <sup>™</sup> - Pre 1 DNSTANT Speed 40	esets 2 REGULATE 12 SPI
Automatic Tie-Off Reset to Defaults					Stitches per Inch: <b>20</b>	S	umber of titches: 6
Č	00:48	¥ 496	100%	<u> </u>	Sta	art O	Stop
	y Stitch™ - Button 'Stitch Select	s		R Start/Stop	Stitching		

To access the Automatic Tie-Off:

• Touch the **tied bow** icon to access the tie-off mode.

<b>.</b>						🕴 🍞 📒 3:28 PM		
= (J_20	Gammill V Connected to (	<b>ision 2</b> GAMMILL VISION2	-E18E	¢	D E			
					🛱 My Stitch*	' - Presets		
	·:				(1	2		
	CONSTANT	REGULATE	COAST REGULATE	BASTE	REGULATE 16 SPI	CONSTANT Speed 25		
					tches r Inch:			
STITCHING MODE:					2			
		Regula	ate					
					· •			
~		0		$\frown$				
	00:09	₿ 101	100%	T	Start	O Stop		
<b>ф</b> м	y Stitch™ - Butto	ns						
L Ad	just Setting Up	.A.		R Start/Stop Stit	ching			

• Notice the stitching mode changes to Automatic Tie-Off in the mode section in the middle of the screen and the tied bow indicates the number of stitches left in the tie-off.

To set the Automatic Tie-Off:

- Touch the **plus** or **minus sign** below "Stitches per Inch" to adjust the stitch length. The Stitches per Inch may be adjusted from 12 to 60.
- Touch the **plus** or **minus sign** below "Number of Stitches" to adjust the number of stitches used in the tie-off. The Number of Stitches may be adjusted from 2 to 15.

	Gammill Vis			Ó		¥ ͡ଛ <b>■</b> 3:38 PM
20	Connected to GA	AMMILL VISION2-	E18E		<b>Ø</b> My Stitch™	- Presets
MENU	CONSTANT	REGULATE	COAST REGULATE	BASTE	CONSTANT Speed 40	REGULATE 12 SPI
					titches er Inch:	Number of Stitches:
Automatic Tie-Off         Reset to Defaults +       Cancel					20	6
					- +	-+
0	0:48	# 496	100%	776	Start	O Stop
	Stitch™ - Buttons	s		R Start/Stop Stite		

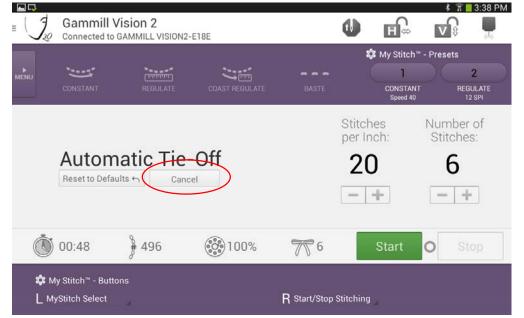
To reset the defaults for the Automatic Tie-Off:

- Touch the **Reset to Defaults** button located under the Automatic Tie-Off label in the center of the screen.
- Notice the Stitches per Inch and Number of Stitches settings return to their original settings.

■ <b>□</b> = (	Gammill Vi Connected to G	ision 2 AMMILL VISION2	-E18E			* 🖬 🖬 3:38 PM
	A Anna Anna Anna				🔯 My Stite	ch™ - Presets
MENU	CONSTANT	REGULATE	COAST REGULATE	BASTE	CONST	
					Stitches per Inch:	Number of Stitches:
	Automatic Tie-Off				20	6
	Reset to Defaul	ts 🕤 Cano	el		- +	- +
Ŏ	00:48	<b>4</b> 96	<b>100%</b>	<b>2</b> 7 6	Start	O Stop
	y Stitch <sup>™</sup> - Buttor Stitch Select	15		R Start/Stop	Stitching	

To cancel the Automatic Tie-Off:

- Touch the **Cancel** button located under the Automatic Tie-Off label in the center of the screen.
- Or touch the **tied bow** icon again to cancel.
- Notice the screen changes back to the mode and settings selected prior to entering the Automatic Tie-Off function.



To execute an Automatic Tie-Off:

- Touch the **Start** button on the screen.
- Or press the handle button set to start/ stop stitching.

	Gammill Vi Connected to G	<b>sion 2</b> Ammill Vision2-e	18E			H⇔	* î V \$	3:38 PM
MENU	CONSTANT	רייייייייייייי REGULATE	COAST REGULATE	BASTE	ĝ	My Stitch™ 1 CONSTANT Speed 40	RE	2 EGULATE 12 SPI
Automatic Tie-Off Reset to Defaults to Cancel					Stitch per In <b>20</b>	ch:	Numbe Stitche 6	
١	00:48	# 496	100%	<i>2</i> 6		Start	S	top
	y Stitch™ - Button Stitch Select	S		R Start/Stop	Stitching	4		

- Move the head.
- Notice the machine begins stitching as soon as the head moves. The number beside the tied bow also counts down as the stitches are delivered.

Jo	Gammill V Connected to	<b>/ision 2</b> GAMMILL VISION	2-E18E	1	ि छि	
					🛱 My Stitch™ - Pre	esets
	CONSTANT	REGULATE	COAST REGULATE		CONSTANT Speed 40	2 REGULATE 12 SPI
Automatic Tie-Off						
	Autom	natic Tie	e-Off	Applyi	ng stitch	es

IF THE RED STOP BUTTON IS PRESSED DURING A TIE-OFF, THE CURRENT TIE-OFF WILL STOP BUT WILL NOT LEAVE THE TIE-OFF MODE. IF THE GREEN START BUTTON IS PUSHED AGAIN, THE TIE-OFF WILL START OVER RATHER THAN PICKING UP WHERE STOPPED.

■ = (	Gammill Vis	sion 2	E18E	0	E E		<mark>іі 3:41 РМ</mark>
MENU	CONSTANT	ागगगगग REGULATE	COAST REGULATE	BASTE	CONSTANT Speed 40		2 EGULATE 12 SPI
	Automa	atic Tie-	Comple	eted.			
	01:32	€ 566	(****) (*****) 100%	77	Start	S	top
and the second sec	ly Stitch™ - Button: yStitch Select	3		R Start/Stop Stitching	1		

WHEN THE AUTOMATIC TIE-OFF FUNCTION IS COMPLETE, THE SCREEN WILL CHANGE TO SHOW IT IS COMPLETED BRIEFLY AND THEN CHANGE BACK TO THE MODE AND SETTINGS SELECTED PRIOR TO ENTERING THE AUTOMATIC TIE-OFF FUNCTION.

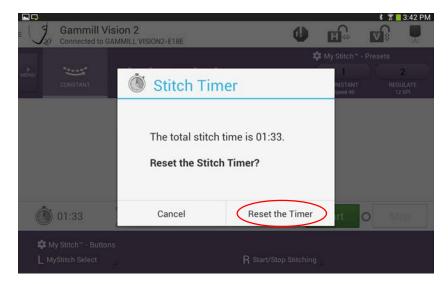
# STITCH TIMER FUNCTION

The Stitch Timer function continually monitors the amount of time spent stitching making it easy to keep track of the time spent on a project.

□ = \	Gammill V Connected to (	<b>Íision 2</b> GAMMILL VISION2-E	18E	(		* <b>? 1</b> 3:28 PM	
					🛱 My Stitch™ - Pr	resets	
► MENU		••••• <u> </u>	¥€			2	
	CONSTANT	REGULATE	COAST REGULATE		REGULATE 16 SPI	CONSTANT Speed 25	
		stitching mode Regula		Stitches per Inch: 12			
Ś	00:09	₿ 101	100%	M	Start O	Stop	
	<del>y Stit</del> ch™ - Butto Ijust Setting Up	ns		R Start/Stop Stitc	hing		

To reset the Stitch Timer:

- Touch the **Stitch Timer** icon.
- Notice a window appears asking if you are sure you want to reset the Stitch Timer.
- Touch the **Reset the Timer** button to reset the time.

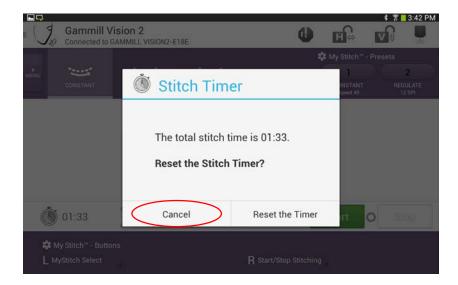


• Notice the timer display resets to oo:oo.

	Gammill \ Connected to	/ision 2 GAMMILL VISION2	-E18E	Q		* 🖀 📑 3:42 PM
MENU	CONSTANT	(THE POPULATE	COAST REGULATE	BASTE	Ø My Stitch™ - Pro	esets 2 REGULATE 12 SPI
		stitching M Consta			beed: 0	
Ō	00:00	} 570	(****) ********************************	$\mathcal{T}$	Start O	
2000 CA	l <del>y Stitch</del> - Butto yStitch Select	ons		R Start/Stop Stite	shing	

To cancel resetting the Stitch Timer:

- Touch the **Cancel** button on the Stitch Timer window.
- Notice the window closes.



TIME IS DISPLAYED IN AN HH:MM:SS FORMAT WHERE HH IS THE NUMBER OF HOURS, MM IS THE NUMBER OF MINUTES, AND SS IS THE NUMBER OF SECONDS. IF THE TIMER EXCEEDS 99:59:59, THE TIMER WILL AUTOMATICALLY RESET TO 00:00.

# STITCH COUNTER FUNCTION

The Stitch Counter continually counts the number of stitches taken making it easy to track the number of stitches in a project.

□ = \20	Gammill V Connected to (	<b>ision 2</b> GAMMILL VISION2-E	18E	ſ		* 🔋 🚺 3:28 PM	
					🕸 My Stitch™ - P	resets	
	````	••••• <u>•</u> ••••	3		1	2	
	CONSTANT	REGULATE	COAST REGULATE		REGULATE 16 SPI	CONSTANT Speed 25	
		stitching mode Regula		Stitches per Inch: <b>12</b>			
١	00:09	₿ 101	100%	77	Start O	Stop	
	y Stitch™ - Butto just Setting Up	ns		R Start/Stop Stitcl	hing		

To reset the Stitch Counter:

- Touch the **Stitch Timer** icon.
- Notice a window appears asking if you are sure you want to reset the Stitch Timer.



- Tap the **Reset the Counter** button to reset the count.
- Notice the count display resets to o.

To cancel resetting the Stitch Counter:

- Tap the **Cancel** button on the Stitch Counter window.
- Notice the window closes.

THIS INDICATOR DISPLAYS THE NUMBER OF STITCHES TAKEN, WITH A MAXIMUM OF  $_{999,999}$  ALLOWED. AT THIS POINT, THE INDICATOR WILL AUTOMATICALLY RESET TO  $_{0}$ .

### BOBBIN GAUGE FUNCTION

The Bobbin Gauge function monitors the amount of top thread used to estimate usage of the bobbin thread displaying a percentage of the amount of the bobbin thread remaining.

						🕴 🛜 🛑 3:28 PM	
= (J_20)	Gammill V Connected to (	<b>/ision 2</b> GAMMILL VISION2-E	18E				
					🛱 My Stitch™ - F	Presets	
	````	•••••• سسسی	¥₩		1	2	
	CONSTANT	REGULATE	COAST REGULATE		REGULATE 16 SPI	CONSTANT Speed 25	
					tches Inch:		
		stitching mode Regula		1	2		
Š	00:09	₿ 101	100%	77	Start C	Stop	
	ly Stitch™ - Butto	ns					
	ljust Setting Up			R Start/Stop Stit	ching		

To use the Bobbin Gauge:

- Tap the **Bobbin Gauge** icon.
- Notice the Bobbin Gauge settings window appears.

1 720	Gammill \ Connected to			18E	(	D	v	3:43	PM	
MENU		Bo	bbin Ga	auge				Prese	ts 2 REGULATE	
		Use the	Bobbin	Gauge	Thread Factor: <b>10</b>				12.SPI	
			ОК		Reset th	e Gau	ge			
Ś	00:00	€ 57	'0	100%	777		Start	0		
	y Stitch <sup>™</sup> - Butto Stitch Select	ons			R Start/Stop Stil	tching				

- Tap the box beside the "Use the Bobbin Gauge" message.
- Notice a check mark appears indicating the Bobbin Gauge is active.

To set the Thread Factor:

- Touch the **plus** or **minus sign** to adjust the Thread Factor up or down. The Thread Factor may be adjusted from 1 to 10.
- Set the Thread Factor higher for thinner threads.
- Set the Thread Factor lower for thicker threads.
- Tap the **OK** button.

		mill Vision 2 Ited to GAMMILL VISIO	N2-E18E	J		* 🔋 🛛 3:43 PM
▶ MENU		Bobbin	Gauge			Presets
	CONSTAN			Thread	Factor:	REGULATE 12 SPI
		✓Use the Bob!	oin Gauge	10	0	
					+	
		ОК		Reset the (		
Ö	00:00	₿ 570	100%	77	Start	O Stop
				${f R}$ Start/Stop Stitch		
				n Starty-Stop Strice		

THE THREAD FACTOR IS A VALUE HELPS DETERMINE THE BOBBIN THREAD USAGE. THE BEST WAY TO THINK OF THE FACTOR IS TO RELATE IT TO THE THICKNESS OF THE BOBBIN THREAD. THE THICKER THE BOBBIN THREAD, THE LESS THREAD WILL FIT ON A BOBBIN. USE A LOWER NUMBER WHEN USING THICKER THREAD. ADJUST THE BOBBIN FACTOR AND OBSERVE WHEN THE ALARM OCCURS VERSUS THE ACTUAL AMOUNT OF THREAD LEFT ON YOUR BOBBINS. MAKE ADJUSTMENTS BASED ON THIS FEEDBACK UNTIL YOU OBTAIN THE DESIRED RESULTS.

To reset the Bobbin Gauge:

- Tap the **Reset the Gauge** button.
- Notice the Bobbin Gauge on the main screen is reset to 100%

To disable the Bobbin Gauge:

- Tap the checked box beside the "Use the Bobbin Gauge" message.
- Notice the check mark disappears indicating the Bobbin Gauge is now inactive.
- Touch the **OK** button.

■		nill Vis ted to GAN	ion 2 MMILL VISIO	N2-E18E		0	<b>E</b> €⇔		3:43 PM	
▶ MENU	• • •		Bobbin	Gauge				Presets	2	
	CONSTAN		Use the Bobbin Gauge			Thread Factor: <b>10</b>			REGULATE 12 SPI	
Â	00:00		o \$ 570	к 100%	Re	set the Gau	ge Start	0	Stop	
1000 2		- Buttons	ð.		₩ Start/St	top Stitching				

• Notice the window closes and the Bobbin Gauge icon is greyed out on the main screen and no percentage is shown.

As you stitch, the bobbin gauge percentage will decrease. When the percentage reaches 10%, the system will issue an alert to warn you that the bobbin is almost empty.

						🖇 🗊 📕 3:46 PM			
= (J <sub>20</sub>	Gammill V Connected to C	<b>ision 2</b> SAMMILL VISION2-E	18E	(					
					<b>છ</b> ়ি My Stitch™ -				
▶ MENU		בהיותיות (			1	2			
					CONSTANT Speed 40				
ALERT – BOBBIN: Bobbin is almost empty. Please check bobbin and refill if necessary.									
			ок						
Č	00:59	₿ 2000	10%	77	Start	O Stop			
	y Stitch <sup>™</sup> - Butto Stitch Select			R Start/Stop Stit	tching				

SINCE IT IS NOT POSSIBLE TO DIRECTLY MEASURE THE AMOUNT OF BOBBIN THREAD REMAINING, THE SYSTEM MUST USE THE USAGE OF THE TOP THREAD TO GAUGE THE USE OF THE BOBBIN THREAD. THE SYSTEM ASSUMES SOME THINGS SUCH AS TENSION, BOBBIN CAPACITY, AND HOW FULL THE BOBBIN IS FILLED TO, BUT PROPER ESTIMATION OF THE REMAINING BOBBIN THREAD STILL RELIES ON INPUT FROM THE OPERATOR.

THE BOBBIN GAUGE MAY BE USED, BUT ONLY THE ALERT DISABLED. SEE THE SECTION ON THE ALERT SCREEN FOR ADDITIONAL INFORMATION ON THIS CAPABILITY.

#### CONNECTION INFORMATION

The Vision™ 2.0 Application communicates to the quilting system using Bluetooth. When connected, the text will read "Connected to Gammill Vision2-XXXX" where XXXX is the last 4 digits of the address of the system it is connected to.

	Gammill V Connected to C	T <mark>ision 2</mark> GAMMILL VISION2-E	18E	0		* 7 i 3:28 PM
					🕸 My Stitch™ -	Presets
► MENU	`==`	••••• 	¥€		1	2
	CONSTANT	REGULATE	COAST REGULATE		REGULATE 16 SPI	CONSTANT Speed 25
		stitching mode Regula		per	tches Inch: 2	
Ċ	00:09	₩ 101	100%	M	Start (	<b>D</b> Stop
_	My Stitch™ - Butto Adjust Setting Up	ns		R Start/Stop Stite	ching	

IF THE APPLICATION IS NOT CONNECTED TO A SYSTEM, IT WILL READ "DISCONNECTED". IF THIS IS THE CASE, COMMUNICATION NEEDS TO BE ESTABLISHED. SEE THE SECTION ON BLUETOOTH CONNECTION FOR ADDITIONAL INFORMATION ON HOW TO CONNECT THE TABLET TO THE SYSTEM.

#### NEEDLE STOP POSITION

The top bar in the user interface contains several icons allowing quick and easy use of the machine. The first of these icons controls the position of the needle when stitching stops.

□ = \	Gammill V Connected to G	<b>ision 2</b> GAMMILL VISION2-E	18E			¥ 🛜 🚺 3:28 PM
•	•••••	*****			‡\$\$ My Stitch™ - Pre	sets
MENU	CONSTANT	REGULATE	COAST REGULATE	BASTE	REGULATE 16 SPI	CONSTANT Speed 25
					tches Inch:	
		Regula		1	2	
					+	
Č	00:09	¥ 101	100%	77	Start O	Stop
	y Stitch™ - Butto just Setting Up	ns		R Start/Stop Stite	ching	

To stop stitching with the needle down:

- Tap the **Needle Stop Position** icon so the needle indicates the down position.
- Notice, when stitching stops, the needle stops in the down position.

To stop stitching with the needle up:

- Tap the **Needle Stop Position** icon so the needle indicates the up position.
- Notice, when stitching stops, the needle stops in the up position.

WHEN USING THE NEEDLE DOWN POSITION, USE OF A SINGLE STITCH WILL RESULT IN THE NEEDLE STOPPING IN THE UP POSITION FOR THE FIRST PRESS. SUBSEQUENT PRESSES OF THE SINGLE STITCH BUTTON WILL RESULT IN FULL STITCHES TAKEN.

#### HORIZONTAL CHANNEL LOCK

The Horizontal Channel Lock Icon limits the motion of the machine to a horizontal direction, not allowing any vertical movement. This feature aids in creating perfectly straight lines whether for basting or stitching.

□ = \	Gammill V Connected to C	<b>ision 2</b> GAMMILL VISION2-E	18E	0		* 🛜 🚺 3:28 PM
MENU	CONSTANT	REGULATE	COAST REGULATE	BASTE	© My Stitch <sup>™</sup> - Pre 1 REGULATE 16 SPI	2 CONSTANT Speed 25
		stitching mode Regula		per	ches Inch: <b>2</b>	
١	00:09	¥ 101	100%	77	Start O	Stop
✿ My Stitch™ - Buttons L Adjust Setting Up			R Start/Stop Stitc	hing		

To engage the Horizontal Channel Lock:

- Tap the **open Horizontal Channel Lock** icon.
- Notice the icon locks indicating the channel lock is engaged and the machine only moves in a horizontal direction left or right, but cannot move up or down vertically.

To disengage the Horizontal Channel Lock:

- Tap the **closed Horizontal Channel Lock** icon.
- Notice the icon unlocks indicating the channel lock is disengaged and the machine moves freely in all directions.

# VERTICAL CHANNEL LOCK

The Vertical Channel Lock Icon limits the motion of the machine to a vertical direction, not allowing any horizontal movement. This feature aids in creating perfectly straight lines whether for basting or stitching.

□ = \	Gammill V Connected to G	<b>Tision 2</b> GAMMILL VISION2-E	18E	Q		* 😨 🖬 3:28 PM
		**==**	3a*		ג¢ My Stitch™ - Pre	
MENU	CONSTANT	REGULATE	COAST REGULATE	BASTE	REGULATE 16 SPI	2 CONSTANT Speed 25
					tches Inch:	
		Regula		1	2	
					+	
Č	00:09	¥ 101	100%	M	Start O	Stop
Ø My Stitch™ - Buttons L Adjust Setting Up			R Start/Stop Stite	ching		

To engage the Vertical Channel Lock:

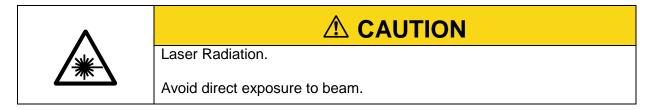
- Tap the **open Vertical Channel Lock** icon.
- Notice the icon locks indicating the channel lock is engages and the machine only moves in a vertical direction up or down, but cannot move left or right horizontally.

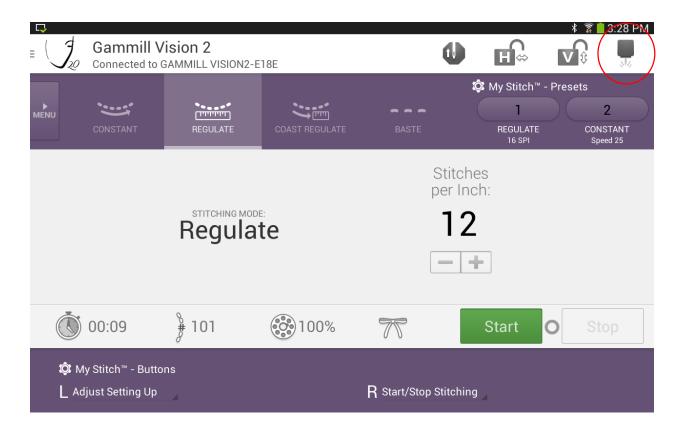
To disengage the Vertical Channel Lock:

- Tap the **closed Vertical Channel Lock** icon.
- Notice the icon unlocks indicating the channel lock is disengaged and the machine moves freely in all directions.

### LASER

The Laser icon turns the laser on or off with the tap of a finger.





To turn the laser on:

- Touch the greyed **Laser** icon.
- Notice laser on the Laser icon turns red indicating that the laser is on.

To turn the laser off:

- Touch the red **Laser** icon.
- Notice the laser on the Laser icon turns grey indicating that the laser is off.

□ = (	Gammill V Connected to (	<b>ision 2</b> GAMMILL VISION2-E	18E	0	<b>H</b> ⇔	* 🔋 2:28 PM
•	****	******	******		🔯 My Stitch™ - Pr	
MENU	CONSTANT	REGULATE	COAST REGULATE	BASTE	REGULATE 16 SPI	2 CONSTANT Speed 25
				Stitc per li		
		stitching mod Regula		1:	2	
					+	
Š	00:09	₿ 101	100%	77	Start O	Stop
	ly Stitch™ - Butto djust Setting Up	ns		R Start/Stop Stitchi	ng	

THIS FUNCTION CONTROLS THE LASER, WHETHER PLUGGED IN TO THE FRONT OR REAR OF THE MACHINE. THE INTENSITY (SPOT SIZE) OF THE LASER IS ALSO USER ADJUSTABLE, AND IS EXPLAINED IN THE LASER SETTINGS SECTION.

#### ADDITIONAL FEATURES – FUTURE ENHANCEMENTS

The Additional Features Indicator allows access to new features as they become available in future software updates. At this time, there are no additional features to access, so the icon is not visible.

± □ ∎ (J <sub>20</sub>	Gammill Connected to	Vision 2 GAMMILL VISION2	-DDBD	0	e v	8 T 1:04 PM
MENU	`		;: ;:		🕸 My Stitch*	2
	CONSTANT	STITCHING MC		Ę	peed:	r REGULATE 12 SPI
	00:55	1249	100%	77	Start	O Stop
	y Stitch™ - Butt just Setting Up			R Start/Stop Stit	ching	

# MAIN MENU

The Main Menu offers access to many of the settings and services not regularly used during quilting.

$ = \begin{pmatrix} 2 \\ 20 \end{pmatrix} $ Gammill V Connected to 0	<b>'ision 2</b> GAMMILL VISION2-E	18E	Q	D E	* 🗊 <b>1</b> 3:28 PM
	REGULATE	COAST REGULATE	<b>BASTE</b>	Ø My Stitch™ 1 REGULATE 16 SPI	- Presets 2 CONSTANT Speed 25
			per	tches Inch: <b>2</b>	
	Regula	te			
00:09	¥ 101	(****) 100%	77	Start	O Stop
© My Stitch™ - Butto L Adjust Setting Up	ns		R Start/Stop Stite	ching	

To access the Main Menu:

• Touch the **Menu** button.

To select an item from the Main Menu:

• Touch the desired selection.

E January Gammill Visi		18E			∦ 🗊 📕 4:02 PM
Gammill Vision 2				🔯 My Stitch™ - Pre	
About this App					2
About this App	REGULATE			CONSTANT Speed 40	REGULATE 12 SPI
Alerts					
Needle Settings			S	speed:	
Laser Settings	STITCHING MODE:		~	FO	
Display Settings			į		
Service and Maintenance				-   +	
Bluetooth Setup					
Quick Start Manual	3970	100%	77	Start O	Stop
🎼 My Stitch" - Buttons					
L MyStitch Select			R Start/Stop St	itching	

DETAILS ON ALL OF THE SCREENS FOUND IN THIS MENU CAN BE FOUND IN THE SETTINGS AND OTHER SCREENS SECTION.

#### SETTINGS AND OTHER SCREENS

#### GENERAL NAVIGATION

To leave any secondary screen and return to the main screen, press the left arrow in the top left corner of the screen.

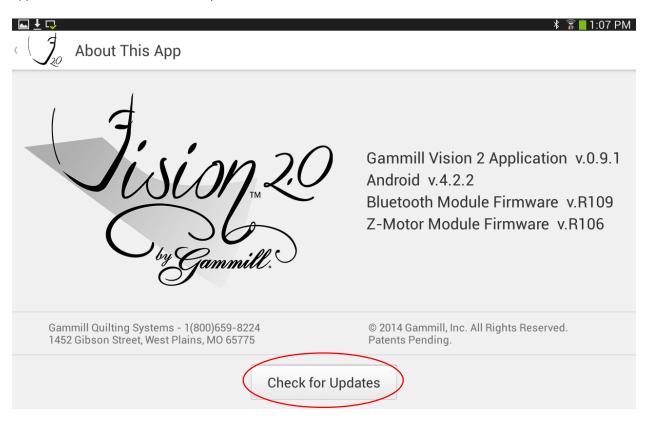


#### GAMMILL VISION 2

The Gammill Vision 2 selection is a placeholder for the main window. As a result, it appears to do nothing when selected. This was required to properly set up the menu structure and is intentional.

#### ABOUT THIS APP

Access the About This App selection to learn information about your current version of the Vision<sup>™</sup> 2.0 application and check for software updates.



To check for updates:

- Make sure the tablet is connected to the internet.
- Touch the **Check for Updates** button.
- Notice an update window opens indicating whether or not an update is available.

THIS FUNCTION REQUIRES THE TABLET TO BE CONNECTED TO THE INTERNET THROUGH A USER-SUPPLIED WIRELESS NETWORK. FOR INFORMATION ON HOW TO DO THIS, CONSULT THE DOCUMENTATION THAT CAME WITH THE TABLET.

About This App	考 🖀 🗖 1:07 PM
	Gammill Vision 2 Application v.0.9.1 Android v.4.2.2 Version 1.1.0 is available. ownload and install it now? VES
Gammill Quilting Systems - 1(800)659-8224 1452 Gibson Street, West Plains, MO 65775	© 2014 Gammill, Inc. All Rights Reserved. Patents Pending.
	Check for Updates

To update the Vision<sup>™</sup> 2.0 Application:

- Touch the **YES** button.
- Notice the update begins downloading.
- Please wait while the app is downloading from the Gammill website.

± • ± •	\$ 🛜 📕 1:07 PM
About This App	
Downloading Gammill/Vision2_v1.1.0.apk Please wait Cancel Download by Cammilt	Gammill Vision 2 Application v.0.9.1 Android v.4.2.2 dule Firmware v.R109 ule Firmware v.R106
Gammill Quilting Systems - 1(800)659-8224 1452 Gibson Street, West Plains, MO 65775	© 2014 Gammill, Inc. All Rights Reserved. Patents Pending.
Check for Upda	tes

THE DOWNLOAD MAY BE CANCELLED AT ANYTIME BY PRESSING THE **CANCEL DOWNLOAD** BUTTON.

• Once downloaded, a window will appear for permission to install the update.

🛨 🖬 ± 🗔		🗚 🖀 📕 1:07 PM
About This App	ل Gammill Vision 2	1
4	Do you want to install an update to this existing application? Your existing data will not be lost. The updated application will get access to:	
Visl City	This update requires no new permissions.	n 2 Application v.0.9.1 2 Jule Firmware v.R109 Ile Firmware v.R106
Gammill Quilting Systems - 1452 Gibson Street, West Pla		. All Rights Reserved.
	Cancel Install	

• Press Install to begin the update.

The app will be automatically updated and prompt you when complete.

■±±□		🖇 🛜 📕 1:07 PM
	ل Gammill Vision 2	
	Installing	

To open the updated app:

• Tap the **Open** button.

⊨ ± ± ₽			*	🖥 🖥 1:08 PM
	🚽 Gammill Vision 2			
	Application installed			
	Done	Open		
	USIN	open		

If no update is found, a message will pop up to let you know:

		¥ 🖀 ॾ 4:17 PM
$( \int_{20}^{9} About This App )$		
History Barnet	2.Q n available. OK	Gammill Vision 2 Application v.0.9.4 Android v.4.2.2 dule Firmware v.R109 ule Firmware v.R106
Gammill Quilting Systems - 1(800)659-822 1452 Gibson Street, West Plains, MO 65775		© 2014 Gammill, Inc. All Rights Reserved. Patents Pending.
	Check for Updat	tes

If a new machine firmware update is included within the new application, the application will prompt you with the steps to update the firmware.

To Update Firmware:

• Press **OK** to begin the update.

							* 8	5:15 PM
= J_20	Gammill Vis	sion 2			0	E		<b>100</b>
					zộ	I My Stitch™ - Presets		
	·					1		2
								INSTANT Speed 25
, i		Firmy	ware Update					
			e Bluetooth module firmware?					
			Cancel	ок				
Ŏ	00:00	<b>₽</b> 0	100%	M		Start	<b>0</b> s	
<b>Ι</b> ΩS My	/ Stitch''' - Button:	5						
L My				R Start/Stop S				

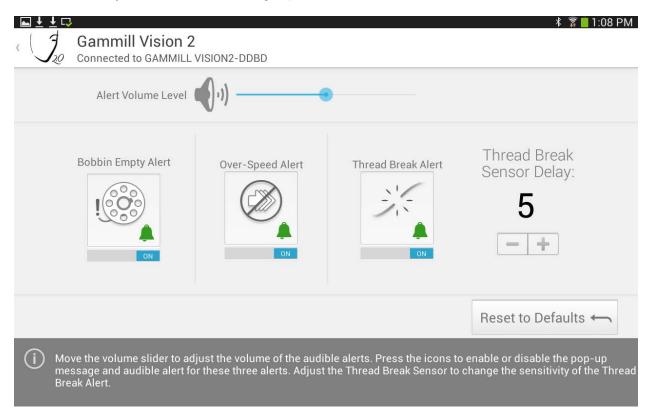
# ONCE STARTED, DO NOT INTERRUPT THE UPDATE BY USING THE TABLET OR MACHINE.

<b>-</b>						🕴 🖀 📃 5:16 PM			
= J_20	Gammill Vi Disconnected	sion 2		đ	ि स				
				🔯 My Stitch 🐃 – Presets					
MENI)	·					2			
		STT Updating f	e Update irmware	25690/668	02				
Ö	00:00	<b>₽</b> 0	100%	M	Start O				
				R Start/Stop Stitch					

ONCE THE UPDATE IS COMPLETE, THE BLUETOOTH CONTROL BOARD WILL AUTOMATICALLY RESET AND RECONNECT TO THE APPLICATION.

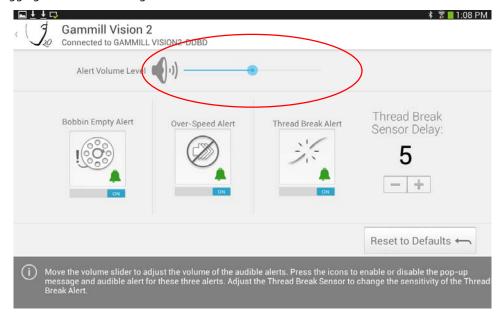
# ALERTS

All alerts can be adjusted or disabled according to your needs.



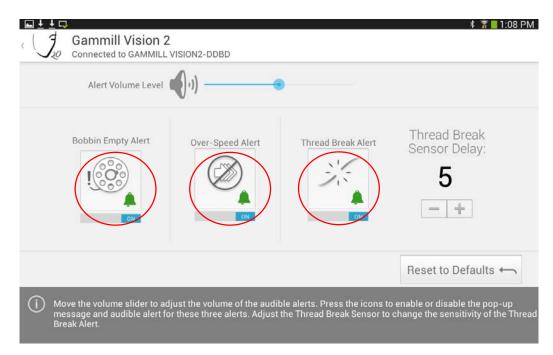
To adjust the volume of alert sounds:

- Drag the bubble on the slider.
- Dragging the slider to the left will lower the volume.
- Dragging the slider to the right will increase the volume.



To disable an alert:

- Touch an alert icon.
- With each press, the alarm will toggle between on and off.
- Notice the indicator below the alarm icon indicates whether it is on or off.

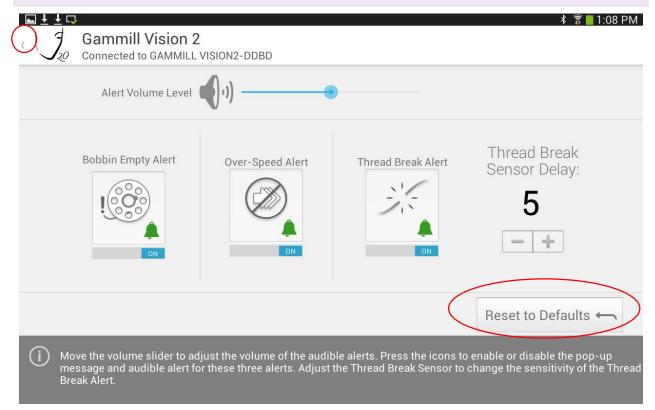


To adjust the Thread Break Sensor Delay:

- Press the (minus) button to decrease the delay making the sensor more sensitive.
- Press the + (plus) button to increase the delay making the sensor less sensitive.

Alert Volume Level	1)	•	
Bobbin Empty Alert	Over-Speed Alert	Thread Break Alert	Thread Break Sensor Delay: 5 -+
			Reset to Defaults

TO GENERATE A THREAD BREAK ALARM, THE SYSTEM LOOKS AT THE NUMBER OF STITCHES VERSUS THE MOVEMENT OF THE THREAD BREAK SENSOR. IF YOU HAVE FALSE ALERTS WHEN MAKING LOTS OF SMALL, FAST STITCHES OR WHEN USING VERY FINE THREAD, INCREASING THIS VALUE SHOULD HELP ALLEVIATE THESE FALSE ALERTS.



# PRESS THE **RESET TO DEFAULTS** BUTTON TO RESET ALL SETTINGS ON THIS SCREEN TO THE FACTORY DEFAULTS. TO EXIT THE SCREEN WHEN YOU ARE FINISHED MAKING CHANGES, PRESS THE LEFT ARROW AT THE TOP LEFT OF THE SCREEN.

# NEEDLE SETTINGS

Customize various aspects of the needle movement and functions by accessing the Needle Settings screen.

< J_20	Gammill Vision 2 Connected to GAMMILL VISION2-DDBD	∦ 🛜 📕 1:08 PM
Need	e Positioning Speed	
	General: Baste Only:	
	15 15	
		Reset to Defaults ←
(j) Sel	ect the speeds used for needle position events. This is used to adjust the stop pos	sition of the needle.

Adjust Needle Position Speed:

- Press the + (plus) button to increase the needle to position faster.
- Press the (minus) button to adjust the needle to position slower.
- Note: the General setting controls all stitching modes except basting.
- Note: the Baste setting controls only the basting mode.

THIS IS AN ADVANCED SETTING, AND THE VALUE IS NORMALLY REDUCED TO ACCOUNT FOR WEAR WITHIN A MACHINE AS THE MACHINE AGES. IT IS NOT RECOMMENDED THAT YOU CHANGE THIS SETTING, UNLESS DIRECTED BY A GAMMILL TECHNICIAN.

J_20	Gammill Vision 2 Connected to GAMMILL VI	SION2-DDBD		
Need	le Positioning Speed			
		General:	Baste Only:	
		15	15	
		- +	- +	
				Reset to Defaults ←
j) Sel	ect the speeds used for nee	dle position events.	This is used to adjust the	e stop position of the needle.

To Reset Defaults:

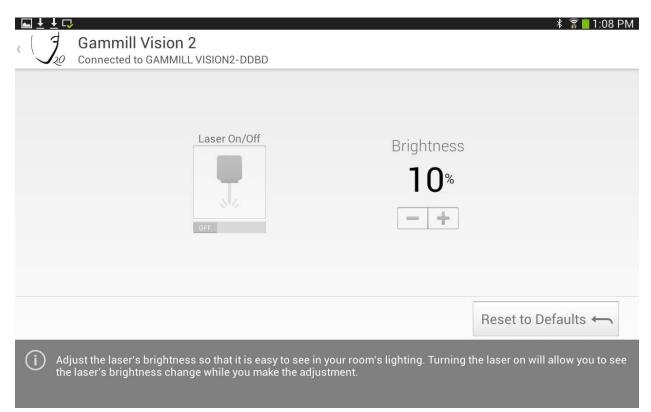
(

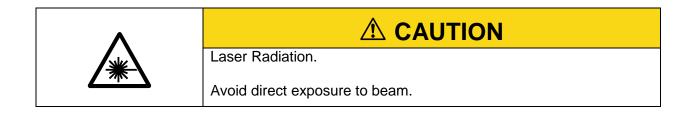
• Press the Reset to Defaults button to reset all settings on this screen to the factory defaults.

TO EXIT THE SCREEN WHEN YOU ARE FINISHED MAKING CHANGES, PRESS THE LEFT ARROW AT THE TOP LEFT OF THE SCREEN.

# LASER SETTINGS

Adjust the intensity of the laser to compensate for your room's brightness as well as to change the size of the laser dot.





To turn the laser on or off:

- Press the Laser On/Off button to turn the laser on.
- Notice the indicator below the laser icon indicates whether it is on or off.
- Press the Laser On/Off button to turn the laser off.

	Gammill Vision 2 Connected to GAMMILL VISION2-DDBD	* 🕱 🔳 1:08 f	PM
	Laser On/Off	Brightness 10%	
_		Reset to Defaults 🦛	
(i) Adj the	ust the laser's brightness so that it is easy to see in yo laser's brightness change while you make the adjustn	ur room's lighting. Turning the laser on will allow you to se nent.	e

To adjust the laser brightness:

- Press the + (plus) to increase brightness and increase the size of the laser point.
- Press the (minus) to decrease brightness and decrease the size of the laser point.

Gammill	Vision 2 GAMMILL VISION2-DDBD	* 중 <mark>■</mark> 1:08 Pi
	Laser On/Off	Brightness
		Reset to Defaults 🦛
Adjust the laser's the laser's	brightness so that it is easy to see in less change while you make the adju	your room's lighting. Turning the laser on will allow you to see stment.

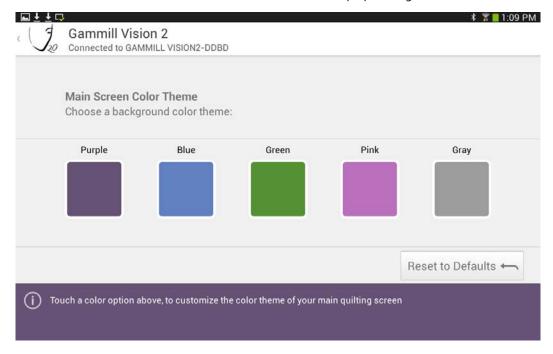
To reset defaults:

• Touch the **Reset to Defaults** button to reset all settings on this screen to the factory defaults.

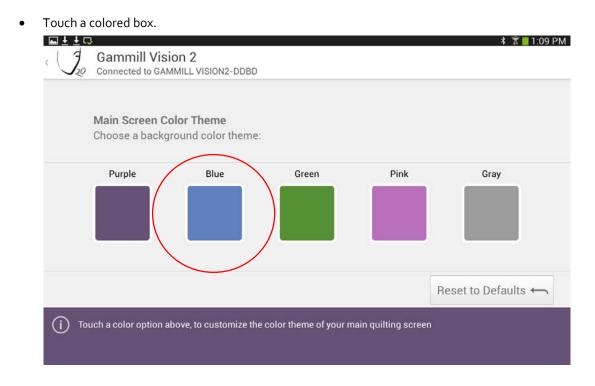
	Cammill Vision 2		∦ 穿 📕 1:08 PM
	Laser On/Off	Brightness 10%	
	OFF	- +	
		<	Reset to Defaults 🖛
(i) Adjus the las	t the laser's brightness so that it is easy ser's brightness change while you make	y to see in your room's lighting. Turning e the adjustment.	the laser on will allow you to see
	HE SCREEN WHEN YOU AR T THE TOP LEFT OF THE SC	E FINISHED MAKING CHAN CREEN.	GES, PRESS THE LEFT

# **DISPLAY SETTINGS**

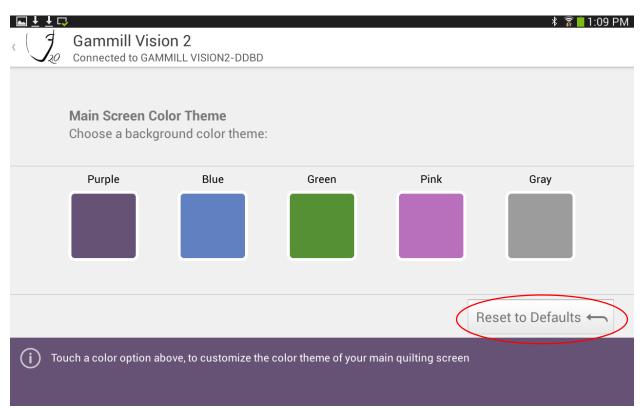
Select the color used on the colored bars of the main screen in the Display Settings screen.



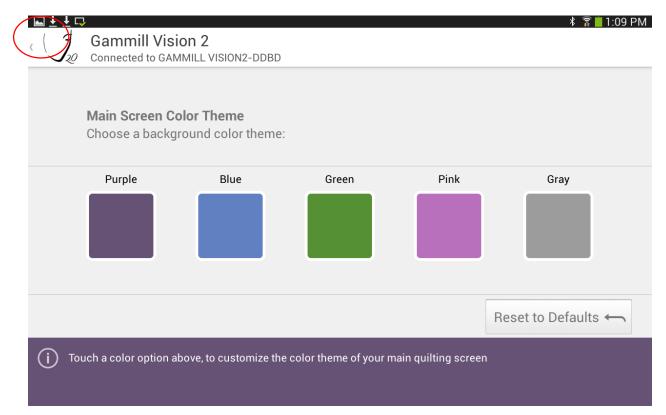
#### To select a color:



• Touch the Reset to Defaults button to reset the main screen color to purple.



To exit the screen, press the left arrow at the top left of the screen.



# BLUETOOTH SETUP

The Bluetooth Setup allows the user to connect the tablet user interface to a machine. When chosen, a popup window will appear. This popup window will display all the available machines identified by the software.

■ <b>↓</b> = <b>↓</b> 20	Gammill Vi	ision 2		(		* <b>? </b> ■ 4:05 PM
MENU	CONSTANT	רייזיידן REGULATE	COAST REGULATE	BASTE	Ø My Stitch <sup>™</sup> - Pre CONSTANT Speed 40	REGULATE 12 SPI
		STI	Bluetooth Device			
Š	02:09	€ 3970	100%	77	Start O	
	y Stitch <sup>™</sup> - Buttor ⁄Stitch Select			R Start/Stop Stite		

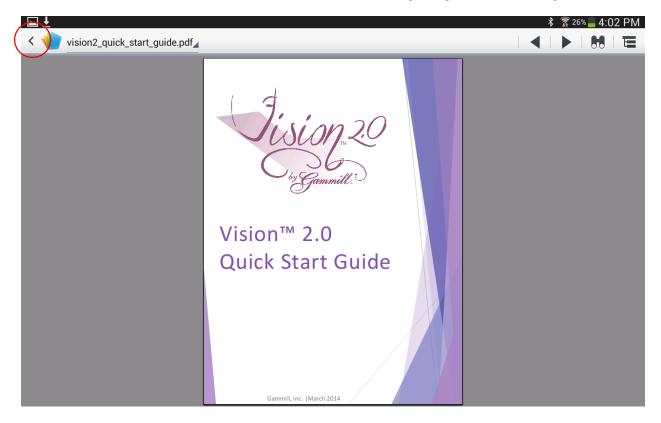
TOUCH THE LISTING FOR THE MACHINE YOU WANT TO CONNECT TO. IF YOU HAVE MULTIPLE MACHINES THAT YOU COULD CONNECT TO, CONSULT THE ADDRESS PRINTED ON THE MACHINE DECAL AT THE REAR OF THE HEAD TO DETERMINE WHICH ADDRESS YOU WANT TO CONNECT TO.

THE POPUP WINDOW WILL DISAPPEAR, AND THE USER INTERFACE WILL BE CONNECTED TO THE MACHINE. WHEN THIS IS COMPLETE, THE USER INTERFACE WILL SHOW THE CONNECTION IN THE UPPER LEFT CORNER OF THE SCREEN UNDER THE MACHINE NAME.

	Gammill V Connected to (	' <mark>ision 2</mark> GAMMILL VISION2-E	18E	(	t	E ÷	* 7 V	5 <b>■</b> 3:28 PM
MENU	CONSTANT	REGULATE	COAST REGULATE	BASTE	<b>\$</b>	/ly Stitch™ - ] REGULATE 16 SPI		2 ONSTANT Speed 25
		stitching modi Regula		pe	titches er Inch: 12			
Ċ	00:09	₩ 101	100%	77	S	tart	0	Stop
	My Stitch™ - Butto \djust Setting Up	ns		R Start/Stop Sti	itching			

# QUICK START GUIDE

Access the onboard Quick Start Guide for basic instructions in threading, oiling and interface navigation.



- The Quick Start Guide opens in a separate app.
- Swipe to scroll and pinch to zoom.
- Press the back arrow at the top left to return to the Vision<sup>™</sup> 2.0 app.

# SERVICE & MAINTENANCE SCREENS

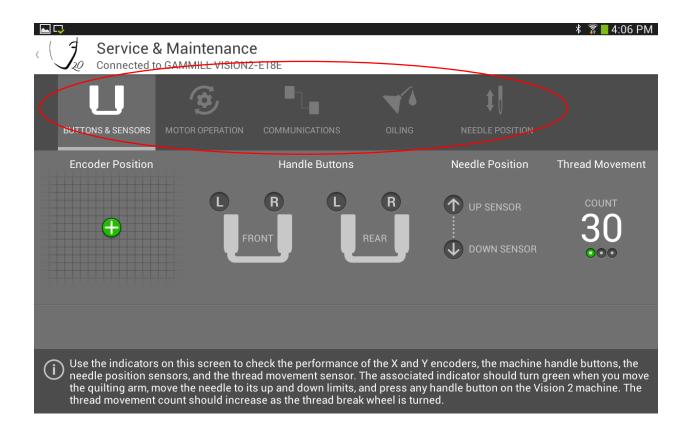
#### NAVIGATION

The Service & Maintenance Screens is accessed through the main menu.

Gammill Visi		-18F			∦ 🛜 📕 4:02 PM
Gammill Vision 2				🔯 My Stitch™ - Pre	sets
About this App	ليتقيقين				2
Alerts	REGULATE			CONSTANT Speed 40	REGULATE 12 SPI
Needle Settings			S	peed:	
Laser Settings	STITCHING MOD		G	50	
Display Settings	Junsta	III			
Service and Maintenance			L	• +	
Bluetooth Setup		~			
Quick Start Manual	3970	100%	M	Start O	Stop
101 My Stitch'' - Buttons					
L MyStitch Select			R Start/Stop Stit		

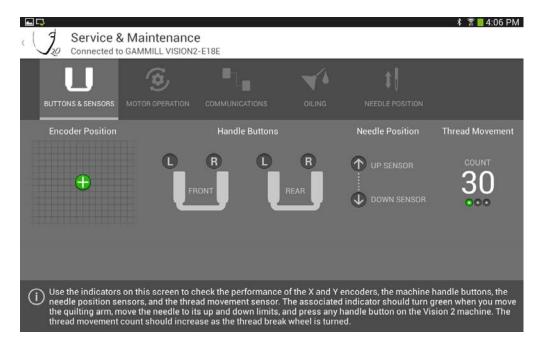
THESE SCREENS ARE USED WHEN DIAGNOSING POSSIBLE ISSUES WITH YOUR GAMMILL VISION 2 MACHINE. NORMALLY, THEY ARE TO BE USED UNDER THE DIRECTION OF A TECHNICIAN, BUT NO HARM CAN COME TO THE MACHINE AS LONG AS YOU FOLLOW THE DIRECTIONS.

WHEN THE SCREEN IS ACCESSED, THE BUTTONS AND SENSORS TAB IS SELECTED AS A DEFAULT. DIFFERENT FUNCTIONS MAY BE ACCESSED BY CLICKING ON THEIR CORRESPONDING TABS AT THE TOP OF THE SCREEN.



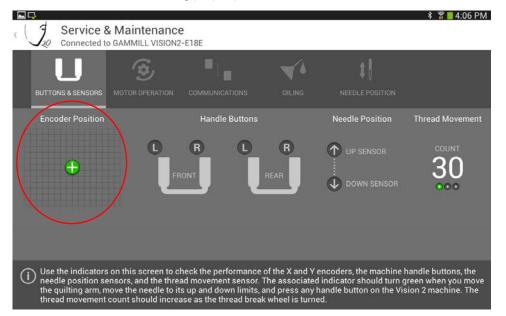
#### BUTTONS AND SENSORS

The Buttons and Sensors tab allows you to identify issues with the various sensors and buttons on the machine.



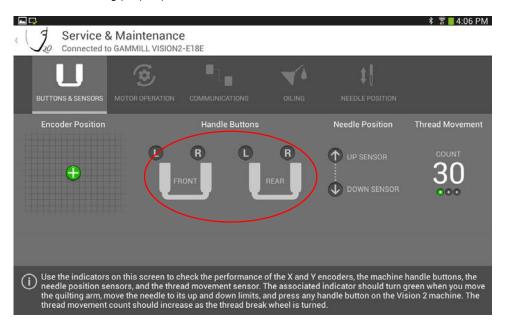
To check the Encoder Position:

- Move the machine to the left and right.
- Notice the green indicator on the encoder position moves left to right as you move the machine. This verifies that the X encoder is working properly.
- Move the machine to the front and rear.
- Notice the green indicator on the encoder position moves up and down as you move the machine. This
  verifies that the Y encoder is working properly.



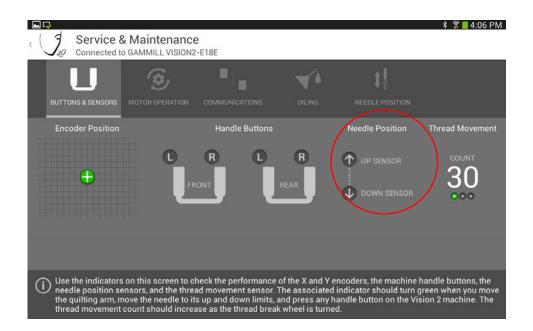
To check Handle Buttons:

- Press each handle button.
- Notice that as the button is pressed, the corresponding indicator turns green. This verifies that all buttons are functioning properly.



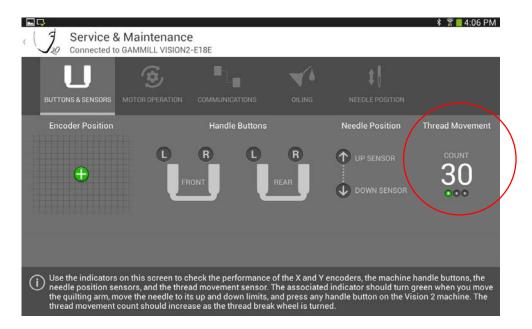
To check the Needle Position:

- Slowly turn the hand wheel by hand.
- Observe if the Up and Down needle position sensors turn green, and that they turn green at the correct needle positions.



To check Thread Movement:

• Turn the thread break wheel.



THE THREAD MOVEMENT COUNT WILL EITHER INCREASE OR DECREASE (DEPENDING ON DIRECTION ROTATED) BY 1 FOR EACH ROTATION OF THE WHEEL. THIS VERIFIES THAT THE THREAD BREAK ENCODER IS WORKING PROPERLY.

To exit Buttons and Sensors:

• Touch the left arrow at the top left of the screen.

		Maintenance				⊀ 穿 📕 4:06 PM
E	BUTTONS & SENSORS				<b>t</b>	
- 15	Encoder Position		Handle Buttons		Needle Position	Thread Movement
	÷	Ľ		EAR	UP SENSOR	
(i)	needle position se the quilting arm, n	ensors, and the threa nove the needle to it	ad movement sensor. Th	ne associate id press any	encoders, the machine h d indicator should turn g handle button on the Vis ed.	reen when you move

# MOTOR OPERATION

The Motor Operation tab contains the ability to manually operate the motor for troubleshooting purposes as well as initiate the motor calibration routine.

**NOTICE** Remove the thread and bobbin from the machine before using this screen. Failure to do this could cause damage to the machine.

Service & Maintenance				¥ 🗊 🖬 4:08 PM
BUTTONS & SENSORS MOTOR OPERATION		OILING	NEEDLE POSITION	
Calibration		Ма	anual Operation	
Speed (%) Sec/stitch (ms	)	Speed 20 – +	● Forwa ○ Revei	
Calibrate 🔊			Start O	Stop
(i) Remove the thread and bobbin from th will automatically be calibrated. Manua motor on. The speed setting may also	al Operation: Selec	t a Direction and Speed	oration: press Calibrate a I setting, then press Star	nd the motor t to turn the

	Moving needle can cause injury.
	Keep body parts and loose clothing away.

To manually run the motor:

• Touch Forward or Reverse to select a direction.

				🕴 🗊 📕 4:08 PM			
Connected to GAMMILL VISION2-							
			<b>‡</b> [				
BUTTONS & SENSORS MOTOR OPERATION	COMMUNICATIONS	OILING	NEEDLE POSITION				
Calibration		Ма	anual Operation				
Speed (%) Sec/stitch (ms	Speed 20 – +	<ul><li>Forw</li><li>Reve</li></ul>					
Calibrate 🙍			Start O	Stop			
(i) Remove the thread and bobbin from the machine before using this screen. Calibration: press Calibrate and the motor will automatically be calibrated. Manual Operation: Select a Direction and Speed setting, then press Start to turn the motor on. The speed setting may also be changed while the motor is running.							

• Press the – (minus) or + (plus) to select the speed to run at.

			⊁ 🗊 📕 4:08 PM			
Connected to GAMMILL VISION2-8	E18E					
			<b>‡</b> [			
BUTTONS & SENSORS MOTOR OPERATION	COMMUNICATIONS		NEEDLE POSITION			
Calibration		Mai	nual Operation			
Speed (%) Sec/stitch (ms)		Speed 20 - +	<ul> <li>Forward</li> <li>Reverse</li> </ul>			
Calibrate 👰			Start O Stop			
(i) Remove the thread and bobbin from the machine before using this screen. Calibration: press Calibrate and the motor will automatically be calibrated. Manual Operation: Select a Direction and Speed setting, then press Start to turn the motor on. The speed setting may also be changed while the motor is running.						

Service & Maintenance Connected to GAMMILL VISION2-DDBB	\$ 🛜 🖬 1:35 PM					
BUTTONS & SENSORS MOTOR OPERATION COMMUNI	CATIONS OILING NEEDLE POSITION					
Calibration	Manual Operation					
Speed (%) Sec/stitch (ms)	Speed 20 - + Speed Forward O Reverse					
Calibrate 👰	Start Stop					
(i) Remove the thread and bobbin from the machine before using this screen. Calibration: press Calibrate and the motor will automatically be calibrated. Manual Operation: Select a Direction and Speed setting, then press Start to turn the motor on. The speed setting may also be changed while the motor is running.						

- Press the **Start** button on the screen.
- When you are ready to stop running, press the **Stop** button.

				* 🛜	1:35 PM
	& Maintenance to GAMMILL VISION2				
U	<b>(\$</b> )		<b>V</b> 1	ţ ļ	
BUTTONS & SENSORS	MOTOR OPERATION	COMMUNICATIONS			
(	Calibration			Manual Operation	
			Spee 20 -		
				Start St	top
<ul> <li>will automatically</li> </ul>	be calibrated. Manu	he machine before us ial Operation: Select i be changed while th	a Direction and Sp	Calibration: press Calibrate and the beed setting, then press Start to tu g.	e motor rn the

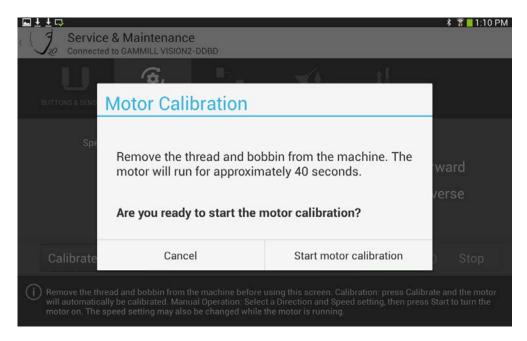
THE SPEED MAY BE ADJUSTED WHILE RUNNING, BUT THE MOTOR MUST BE STOPPED TO CHANGE THE DIRECTION.

To initiate the motor calibration routine:

• Press the **Calibrate** button on the screen.

			∦ 穿 🖥 1:35 PM			
Connected to GAMMILL VIS						
			<b>‡</b> [			
BUTTONS & SENSORS MOTOR OPERATI	ON COMMUNICATIONS	OILING	NEEDLE POSITION			
Calibration	_	Manual Operation				
Speed (%) Sec/stitcl	n (ms)	Speed 20 – +	<ul> <li>Forward</li> <li>Reverse</li> </ul>			
Calibrate 👳			Start O Stop			
(i) Remove the thread and bobbin from the machine before using this screen. Calibration: press Calibrate and the motor will automatically be calibrated. Manual Operation: Select a Direction and Speed setting, then press Start to turn the motor on. The speed setting may also be changed while the motor is running.						

- A popup will appear, to confirm you are ready to begin calibration. If so, press Start Motor Calibration.
- If not, press Cancel.



The calibration routine will run automatically, displaying results as it progresses.

				tenance						≵ 🚡 25% <mark>_</mark> 4:04 PM
BUT		ISORS	MOTOR C	<b>B</b> DPERATION	сомм	JNICATIONS	,	OILING		
		C	Calibra	tion					Manual Opera	ation
	Sp	eed (? 15 25		/stitch (m: 172.41 86.21	3)					
	<b>~</b>	50 75		40.16 26.60						
C	Calibrat	e	000	Rese	et					
(i) Remove the thread and bobbin from the machine before using this screen. Calibration: press Calibrate and the motor will automatically be calibrated. Manual Operation: Select a Direction and Speed setting, then press Start to turn the motor on. The speed setting may also be changed while the motor is running.										
IF YOU	J RUN 1	ГНЕ (	CALIB	RATION	AND	WANT	ΤΟ ΤΗ	IEN RU	IN THE MANUA	L OPERATION,

# PRESS **RESET** TO ACCESS THE MANUAL OPERATION SPEED ADJUSTMENTS.

#### COMMUNICATIONS

Use the communications tab to verify that the internal machine communications are working properly.

				🕴 🛜 🛄 8:19 AM
Connected to GAMMILL VISION				
L S		-	‡≬	
BUTTONS & SENSORS MOTOR OPERATION	COMMUNICATIONS	OILING	NEEDLE POSITION	
	Z-Drive 🗹 –			
Encoc	ler Board 🗹 –			
Sens	or Board 🗹 –			
	Sca	an		
(i) Select items above, then press Scan	to run an automatic c	heck of the machine	e's electronic communi	cations.

# THIS SCREEN IS USEFUL TO DIAGNOSE AN INTERMITTENT CONNECTION PROBLEM WITHIN THE MACHINE, OR A CIRCUIT BOARD THAT MAY BE FAILING.

To test Communications:

- Notice the boxes beside each of the communication systems to test is already checked.
- Touch the box beside any of the systems you do not wish to test.
- Leave all of the boxes checked to check the entire communication system.

	Maintenance				∦ 🖀 🚾 8:19 AM		
BUTTONS & SENSORS	(OTOR OPERATION			NEEDLE POSITION			
		Z-Drive					
Encoder Board							
Sensor Board							
		Scan					
Select items above, t	hen press Scan to	o run an automatic che	ck of the machin	ne's electronic communi	cations.		

• Press the **Scan** button.

Connected to GAMMILL VISION				¥ 🗊 📕 8:19 AM			
BUTTONS & SENSORS MOTOR OPERATION		OILING	NEEDLE POSITION				
	Z-Drive 🗹 –						
Encod	er Board 🗹 –						
Sensor Board 🗹							
Scan							
(i) Select items above, then press Scan to run an automatic check of the machine's electronic communications.							

• The test will automatically run showing progress and results. The messages received should be equal to the messages sent. If they are not equal, communication was lost between the device and the Bluetooth module.

					🕴 🛜 📕 8:20 AM
	& Maintenanc				
U	¢			<b>t</b>	
BUTTONS & SENSORS		COMMUNICATIONS			
		er Board $\frac{M}{M}$	essages Sent: essages Received: essages Sent: essages Received: essages Sent: essages Received:	1000 1000 1000 1000 1000 1000	
		Res	set		
(i) Select items abov	e, then press Scan t	o run an automatic (	check of the machir	ie's electronic commur	nications.

• Touch the **Reset** button to retest the communication system.

Service & Maintena				\$ 🖀 🛛 1:12 PM			
BUTTONS & SENSORS MOTOR OPERAT		s OILING					
Enc	Z-Drive oder Board	Messages Sent: Messages Received: Messages Sent: Messages Received:	1000 1000 🛩 1000 1000				
Reset							
i Select items above, then press Scan to run an automatic check of the machine's electronic communications.							

To exit and return to the main screen, press the left arrow at the top left of the screen.

	& Maintenance				∦ 🛜 📕 1:12 PM
U	¢)				
BUTTONS & SENSORS	MOTOR OPERATION	COMMUNICATIONS	OILING	NEEDLE POSITION	
	Freed	Z-Drive –	lessages Sent: lessages Received: lessages Sent:	1000 1000 🗸	
	Encou	ei Doalu 📈	lessages Received:	1000	
		Re	set		
(i) Select items abov	e, then press Scan t	o run an automatic	check of the machi	ne's electronic commu	nications.

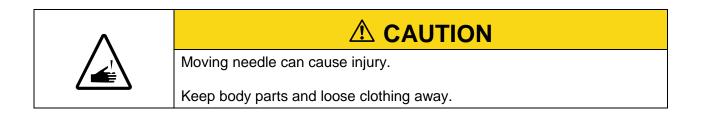
#### OILING

Run the Oiling Routine to exercise the machine once it has been oiled after sitting for an extended period of time. This routine helps get the oil properly distributed throughout the system.

**NOTICE** Remove the thread and bobbin from the machine before using this screen. Failure to do this could cause damage to the machine.

Service & Maintenand Connected to GAMMILL VISION				∦ 🛜 🗖 1:12 PM
BUTTONS & SENSORS MOTOR OPERATION		OILING	NEEDLE POSITION	
Time Remaining	j:	Stage 1		
15:00	)	Stage 3		
	Res	set	Start	O Stop
(i) Remove the thread and bobbin from Press Start to run the motor, and a 1 if you want to pause the process. Pr	5-minute automatic p	rocess will spread	the oil throughout the	on 2 User Manual. e machine. Press Stop

THE OILING ROUTINE IS A WAY TO RUN THE MACHINE THROUGH A 15 MINUTE OILING ROUTINE. DURING THIS ROUTINE, THE MACHINE WILL RUN 5 MINUTES IN FORWARD, 5 MINUTES IN REVERSE, AND 5 MINUTES IN FORWARD.



To run the Oil Routine:

- Fill all oiling points on the machine. See Oiling Instructions on page 11.
- Touch the **Start** button.

	Maintenance	DDBD			*	🕈 📕 1:12 PM
BUTTONS & SENSORS M	G OTOR OPERATION	COMMUNICATIONS				
т	ime Remaining:		Stage 1			
	15:00		Stage 2 Stage 3			
		Reset	t (	Start		Stop
(i) Remove the thread ar Press Start to run the if you want to pause t	motor, and a 15-m	inute automatic pro	cess will spread th			

• The machine will go through the routine and show the progress. When the routine is complete, the machine will automatically stop running.

To Stop and Resume the Oiling Routine:

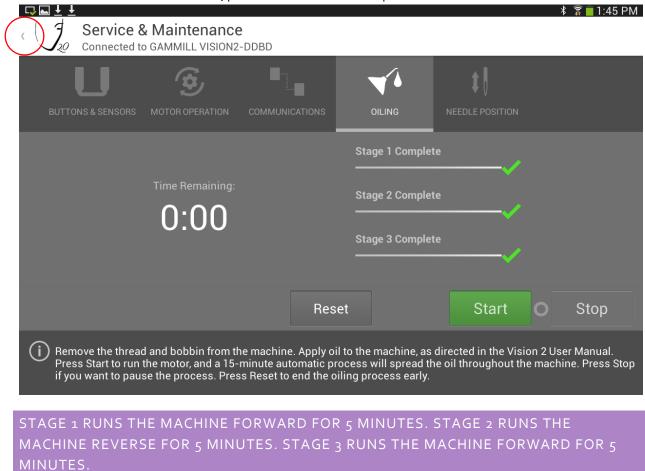
• Touch the **Stop** button to stop the oiling routine.

		Maintenance				¥ 🖀 🗖 1:16 PM
BU	ITTONS & SENSORS	MOTOR OPERATION		OILING		
				Stage 1		
		Time Remaining:		Stage 2		
		12:16		Stage 3		
			Res	et	Start	Stop
$\sim$ <sub>F</sub>	Press Start to run	d and bobbin from th the motor, and a 15- se the process. Pres	minute automatic p	rocess will spread t	s directed in the Visic the oil throughout the	on 2 User Manual. e machine. Press Stop

- Touch the **Start** button to resume to continue the oiling routing.
- Touch the **Reset** button to begin from the beginning of the oiling routine.

	Maintenance				考 🗊 🛑 1:45 PM	
BUTTONS & SENSORS	MOTOR OPERATION		OILING	NEEDLE POSITION		
	Time Remaining:		Stage 1 Complet Stage 2 Complet Stage 3 Complet	te		
		Res	set	Start	O Stop	
(i) Remove the thread and bobbin from the machine. Apply oil to the machine, as directed in the Vision 2 User Manual. Press Start to run the motor, and a 15-minute automatic process will spread the oil throughout the machine. Press Stop if you want to pause the process. Press Reset to end the oiling process early.						

To exit and return to the main screen, press the left arrow at the top left of the screen.



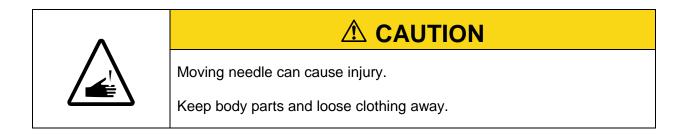
# NEEDLE POSITION

Automatically verify that the needle position sensors are working and adjusted properly by using the Needle Position tab.

NOTICE

Remove the thread and bobbin from the machine before using this screen. Failure to do this could cause damage to the machine.

		Maintenance				∦ 🛜 📕 1:12 PM
	U	(¢)			‡≬	
BUTTO	ONS & SENSORS	MOTOR OPERATION	COMMUNICATIONS	OILING	NEEDLE POSITION	
			↑ NEEDLE UP SEI			
					Start	O Stop
(i) auto Pos Whe	omatically stop ition Sensor (L	o. The readings abov Jp or Down) on the V	ne machine. Press ST/ re will change. If a rea Vision 2 machine. Afte nsors are properly adj	ding is red, adjust r adjusting, press	the position of the a START again to upda	ssociated Needle ate the readings.



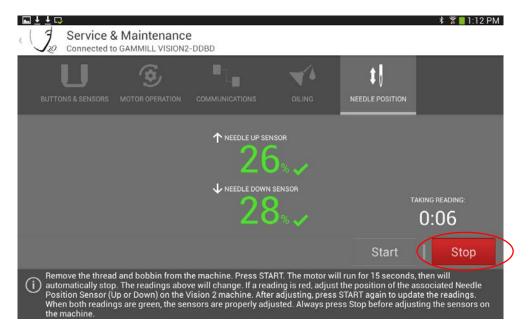
To test the Needle Sensors:

• Touch the **Start** button.

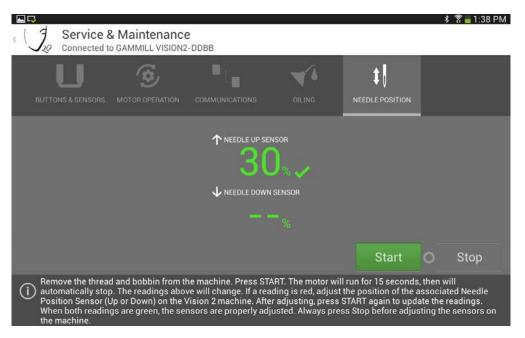
⊾±±					🖇 🖀 📒 1:12 PM
	ed to GAMMILL VISION				
U	G.		<b>V</b>	t I	
BUTTONS & SENS				NEEDLE POSITION	
			ensor 		
		VEEDLE DOW	N SENSOR		
				Start	Stop
(i) automatically Position Sens	nread and bobbin from stop. The readings ab or (Up or Down) on the adings are green, the s	ove will change. If a re Vision 2 machine. Aft	ading is red, adjus er adjusting, press	t the position of the a START again to upd	associated Needle ate the readings.

THE MACHINE WILL RUN AN AUTOMATED TEST AND STOP WHEN COMPLETE. THE DISPLAY WILL SHOW THE VALUES FOR THE UP AND DOWN SENSORS AS WELL AS COLOR AND SYMBOLS TO SHOW IF THE VALUES ARE ACCEPTABLE OR NOT.

• Touch the **Stop** button to stop the test while running.



• Touch the **Start** button to restart the test.



IF THE VALUE IS GREEN, AND FOLLOWED BY A CHECKMARK, THE TEST HAS PASSED. IF THE VALUE IS RED AND FOLLOWED BY AN X, THE TEST HAS FAILED. IN THE EVENT OF A FAILURE, CALL FOR TECHNICAL SUPPORT OR CONTACT A GAMMILL REPRESENTATIVE.

To exit and return to the main screen, press the left arrow at the top left of the screen.

-	±±₽					🕸 🖀 📘 1:13 PM
< (		& Maintenance o GAMMILL VISION2				
	U	( <b>\$</b> )			‡≬	
					NEEDLE POSITION	
l			↑ NEEDLE UP SE 29 ↓ NEEDLE DOWN 20	<b>)</b> <sub>*</sub> ~		
					Start	O Stop
C	<ul> <li>automatically sto Position Sensor (</li> </ul>	p. The readings abo Up or Down) on the '	he machine. Press ST ve will change. If a rea Vision 2 machine. Aft nsors are properly ad	ading is red, adjust er adjusting, press	t the position of the a START again to upda	ssociated Needle ate the readings.