

TruStitch™

For HUSQVARNA VIKING®

User's Guide



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Important Information

Regulatory Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Part 15 of the U.S. Federal Communications Commission (FCC) rules, Canadian ICES-003 and RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The term "IC:" before the certification/ registration number only signifies that the Industry Canada technical specifications were met.

Radio Frequency Interference

This product uses the unlicensed Industrial, Scientific and Medical (ISM) radio band, which begins at 2.400 GHz and extends to 2.483 GHz. Many commonly used products also share this band, including WiFi (wireless) network routers and cordless telephones. Correct and consistent operation of this product may be affected by these conflicting devices.

RF Technical Specifications

RF Output Power: < 92 dBµV/m at 3m

Radio Band: 2.400 GHz to less than 2.483GHz.

Radio Channels: 34 channels, auto selection.

Laser Safety Information

CLASS 1 Laser Product

The TruStitch™ controller contains an invisible laser device that complies with stringent safety requirements. The product meets the U.S. DHHS and IEC 60825-1 laser safety standard requirements for and is classified as a Class 1 laser product. Under this classification, Class 1 denotes lasers whose radiation does not pose a hazard under normal or single fault conditions. There is no risk to eyes including use of an optical instrument. There is no risk to skin.

Safety Considerations



WARNING: To protect against risk of fire, bodily injury, electrical shock or damage to the product:

- Do not immerse any part of this product in water or other liquid.
- Do not spray liquid on this product or allow excess liquid to drip inside.
- Do not use this product if it has sustained damage, such as a damaged cord or plug.
- Clean only with a damp cloth. Use water and a light detergent such as dishwashing detergent if needed.

Environmental Considerations

Recycling Information

We recommend that customers dispose of their used electronic products in an environmentally sound manner. Potential methods include reuse of parts or whole products and recycling of products, components and/or materials.

Waste Electrical and Electronic Equipment (WEEE) Directive



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Important Battery Information

Caution - Do not attempt to replace the battery. Your warranty is void if you attempt to do so. Contact your local retailer for battery replacement.

General Precautions

- Keep batteries out of the reach of children.
- If a battery leaks, remove the battery and recycle or dispose of it in accordance with the local and national disposal regulations.

Special Precautions

The precautions below are to prevent the sudden release of electrolytes, which these prohibited actions can cause:

- Do not install batteries incorrectly.
- Do not open, puncture, or mutilate a battery.
- Do not heat batteries.
- Do not use a fire to dispose of batteries. Released battery electrolyte is corrosive, can cause damage to the eyes and skin, and may be toxic if swallowed.

Battery Disposal



WARNING: Do not dispose of the battery in a fire or with household waste. Contact your local waste disposal agency for the address of the nearest battery deposit site.

The TruStitch™ controller uses a rechargeable Lithium-ion battery for power. Do not attempt to replace this battery. The battery may only be replaced at the factory or by authorized HUSQVARNA VIKING® retailers. Contact your local retailer should you require a battery replacement.

Do not dispose of the product's battery in a fire or with household waste. Battery cells may explode. Discard a used battery according to the manufacturer's instructions or contact your local waste disposal agency for disposal instructions. Dispose of a spent or damaged battery promptly.

Batteries Directive



In the European Union, this label indicates that batteries in this product should be collected separately and not be disposed of with household waste. Substances in batteries can have a potential negative impact on health and environment and you have a role in recycling waste batteries, thus contributing to the protection, preservation, and improvement of the quality of the environment. You should contact your local authority of retailer for details of the collection and recycling options available.

Health Warning

When using this product, as with many activities, you may experience occasional discomfort in your hands, arms, shoulders, neck, or other parts of your body. However, if you experience symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensation, or stiffness, **DO NOT IGNORE THESE WARNING SIGNS. PROMPTLY SEE A QUALIFIED HEALTH PROFESSIONAL**, even if

symptoms occur when you are not working with the product. Symptoms like these can be associated with painful and sometimes permanently disabling injuries and disorders of the nerves, muscles, tendons, or other parts of the body. These musculoskeletal disorders (MSDs) include carpal tunnel syndrome, tendonitis, tenosynovitis, and other conditions.

Product Description

The TruStitch™ stitch regulator is designed to turn the PLATINUM™ 16 quilting machine into a stitch-regulated quilting machine. It uses patent-pending technology to track your sewing motion and thereby regulate the stitch length as you move the fabric around the table. The TruStitch™ controller uses high-resolution, optical tracking and radio frequency circuitry to follow your every motion while quilting. The TruStitch™ receiver receives the motion information from the TruStitch™ controller and converts it to a format the PLATINUM™ 16 quilting machine can use to control the stitching speed.

The TruStitch™ controller contains a long-life, rechargeable Lithium-ion battery for wireless operation. A charging cable is provided to connect the USB-B type connector on the TruStitch™ controller to the USB-A type connector on the TruStitch™ receiver to recharge the battery. The TruStitch™ controller may still be used for quilting while charging if care is taken to avoid piercing the charge cable with the needle. The TruStitch™ receiver is powered with a power module. A machine interface cable connects the TruStitch™ receiver to the foot pedal connector on the machine. The foot pedal plugs into the TruStitch™ receiver and acts to enable the stitch regulation when in regulation mode.

CE - Authorised Representative

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TruStitch™ Regulator Components



Figure 1. TruStitch™ Components

Pre-installation Instructions

Battery Charging

The battery on the TruStitch™ controller may not be fully charged when the product arrives.

It is a good idea to plug the charging cable into the controller and receiver and then plug the wall power module into the receiver to start the charging. A blue light will be seen through one of the clear dots on top of the controller while it is charging. When that blue light disappears, the controller is fully charged and ready for use.

Installation Instructions

1. Install each cable into the appropriate connector or port (Figures 2 & 3). Please note that the machine interface cable has one end that is identical to the foot pedal connector. Be sure to install the other (round) end into the receiver as shown in Figure 3.

Caution: Use only the power module that came with TruStitch™ to power the TruStitch™ receiver. If you use a different power supply, such as the power supply that came with the bobbin winder, it could supply too much power to the TruStitch™ receiver and damage the internal electronics.



Power Module Connector (DC IN)
Foot Pedal Connector (FOOT PEDAL)
Machine Interface Cable Port (MACHINE)

Controller Charging Port (USB CHARGER)
OFF/ON Switch

Figure 2. TruStitch™ Receiver Connectors/Ports/Switch

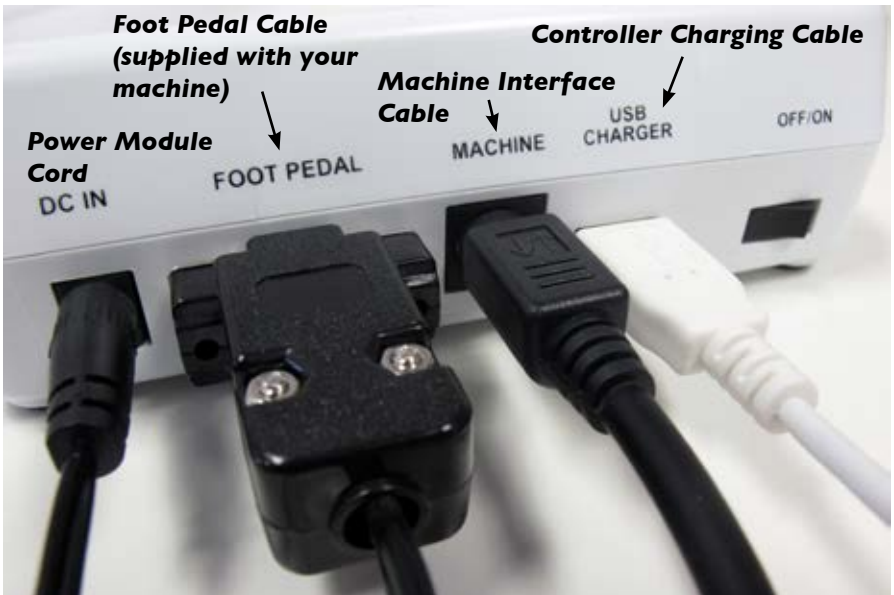


Figure 3. All Cables Installed

2. Install remaining end of controller charging cable into the controller as shown in Figures 4 & 5.



Figure 4. USB Mini-B style charging port on the TruStitch™ Controller.



Figure 5. Charging cable installed. Note flat on cable is up.

3. With the machine and TruStitch™ controller turned off, install the machine interface cable connector to the machine foot pedal port (Figure 6). Secure the connector by turning the screw shafts (Figure 7).



Figure 6.



Figure 7.

4. The TruStitch™ receiver may sit on top of the table or on the shelf below the table. It may also be attached to the machine using the Velcro® strips provided, to secure it to the side of the control or power pod.

5. Plug the power module into a power outlet and turn units on in the following order:

1. Machine
2. TruStitch™ receiver
3. TruStitch™ controller

Indicator LED Identification

Both the TruStitch™ controller and receiver have indicator LEDs to guide the user.

1. The controller has a flashing WHITE LED that flashes only in low light conditions, such as when it is under the quilt. This helps the quilter find the controller. The light shuts off when the controller is in full light.

The second LED turns YELLOW when the controller needs to be charged. It turns BLUE during charging and turns OFF when the controller is fully charged (Figure 8).

2. The receiver has three Indicator LEDs.

The left LED FLASHES RED when it is powered on, but not connected to the machine and/or the controller.

The middle LED lights up YELLOW when the controller needs to be charged. It turns off when charging.

The right LED lights BLUE when the unit is powered on. See Figure 9 for placement of these LEDs.

Finder LED

Charge Indicator LED

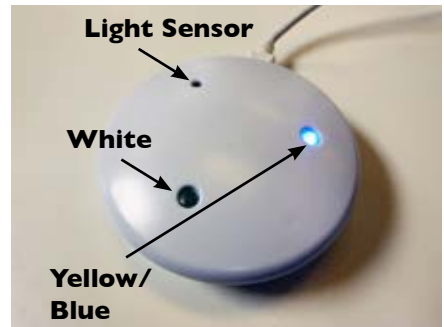


Figure 8.



Left: Connection Indicator LED (flashes RED when no connection)

Middle: Charge Indicator LED (turns YELLOW when controller needs charging)

Right: Power Indicator LED (turns BLUE when receiver is powered on)

Figure 9. Receiver Indicator LED Placement

Activating Stitch Regulation

Display Screens Information

1. Once the machine is powered up and the power module for the TruStitch™ receiver is plugged in, the machine will recognize that the Stitch Regulator is installed and will display a screen that looks like Figure 10.

Manual Mode

The two buttons on the left side of the display are the Stitch Mode selectors, “Regulated” and “Manual”. Selecting “Manual” will allow the machine to operate without stitch regulation. In this mode, you have access to the stitching speed Presets and other features that are standard with the PLATINUM™ 16 quilting machine.

Regulated Mode

Pressing the “Regulated” button will change the display, replacing the “Speed Adjustment” and “Preset” sections of the screen with a “Stitches-Per-Inch” section and a “Idle” section (Figure 11).

A “Play/Pause” button is also added above the “More” button on the center-right side of the screen to allow machine operation without having to press the foot pedal (Figure 11).



Figure 10. PLATINUM™ 16 quilting machine Main Screen.



Figure 11. Stitch-Regulation Screen

Machine Operation

Manual Mode

When in manual mode, depressing the foot pedal will cause the sewing speed to increase, until the pedal is fully depressed, at which point, the machine speed matches the top speed setting.

Stitch-Regulated Mode

Turn the TruStitch™ controller on by using the switch on the bottom of the controller. A bright white light will flash until it makes radio contact with the TruStitch™ receiver. Once contact is made, flashing will only occur if the ambient light is low, such as when you have the receiver under the fabric.

Two Ways to Start/Stop in Stitch-Regulated Mode

Foot Pedal

In stitch-regulated mode, the foot pedal acts as a “Regulation Start” switch. Once sewing is started by depressing the foot pedal, pressing the foot pedal further will have no effect on the sewing speed. The pedal acts as a simple on-off switch.

Play/Pause Button

There is also a “foot pedal-free” mode of regulated operation with the TruStitch™ Stitch Regulator. When in Regulated mode, a “Play/Pause” button can be found on the main screen at the center-right of the screen (Figure 11 on Page 10). This button can be used to start and stop regulated operation in place of the foot pedal. Please note that the foot pedal must still be plugged into the receiver for the TruStitch™ to work.

Two Styles of Stitch Regulation

Idle

The default Stitch-Regulation Style is called Idle. When in Idle stitching mode, depressing the pedal will start the machine at the defined Idle (starting) speed. As the fabric and the TruStitch™ controller are moved together, the machine will regulate the machine speed, when the controller motion is faster than the Idle speed setting. It speeds up as you do, maintaining the Stitches-Per-Inch stitch length that you’ve chosen (see Using the Stitch Regulator, Page 12).

Using Idle style allows you to ease gently into your stitching, creating smoother starts and stops. It is the best style choice for most quilting methods.

Precision

Setting the Idle speed to 0 will automatically engage the Precision Style of Stitch Regulation.

When in Precision stitching style, depressing the pedal (or pressing the Play/Pause Button) activates the machine and starts regulation but the machine does not start sewing yet.

The status box on the top center part of the screen will turn from red to green to indicate the machine is active.

Moving the TruStitch™ controller with the fabric will start the machine stitching. When the controller stops moving, the machine stops stitching, possibly in mid-stroke. The default Needle Up/Down choice is overridden by Precision.

Releasing the pedal or pressing the Pause/Play button stops machine operation and moves the needle to the chosen Needle Up/Down position.

Choosing a non-zero Idle value will re-engage the Idle setting.

Using the Stitch Regulator

The TruStitch™ controller is designed to track the motion of the controller across the table, not the motion of the fabric during quilting. For proper stitch regulation, always keep the controller moving with the fabric as described below.

1. Place the controller on the table surface, under the quilt sandwich, either to the right or left side of the machine head during operation (Figure 12).
2. Position the controller in the area where you would typically hold the fabric when free-motion quilting.
3. Use your hands to hold the quilting area taut beneath the needle of the machine. As you move the quilt sandwich, maintain contact with the controller through the fabric with the palm of the hand or directly with fingers of the hand.
4. Keep the fabric flat between your hands and move both hands together while keeping them parallel to your body. It is best to start your experience with the Stitch Regulator by using Idle style set to a low speed percentage setting.

TIP: Think of moving the fabric in the compass directions: North, South, East, West. Remember that your quilting will mimic the speed and direction of the controller, but only if you keep your hand motions parallel to the needle and to the table edge (Figure 13).

Do not move the controller in a circle around the needle. If you do, the needle will make multiple stitches in one place, as it tries to keep up with the movement of the controller (Figure 14).



Figure 12.



Figure 13. Move quilt north, south, east and west.



Figure 14. Don't rotate quilt.

TruStitch™ Accessories

Two accessories are provided with the TruStitch™ Stitch Regulator to give the quilter more flexibility in quilting.

Magnet

1. The magnet allows you to quilt “hands-free” without holding onto the controller through the quilt sandwich.

Place the controller on the table, just outside of where you wish to place your hands. Place the magnet on top of the controller and on the top of the quilt sandwich (Figure 15).

Free-motion quilt as usual while keeping your hands close to the controller. The controller will move with the quilt sandwich, regulating your stitch length.

WARNING: If the quilt sandwich is extremely soft, you may not be able to use the magnet, because the controller won't be able to follow the motion of your hand if the fabric sandwich buckles between your hand and the controller. Most quilt sandwiches are stiff enough to allow you to use the magnet.

Coaster

1. The coaster allows you to quilt close to the edge of the quilt without losing stitch-regulation.

Attach the coaster to the edge of the quilt sandwich using the two clips. The clips were designed for one-handed action. Place the coaster on the table, press on both clips at the same time with one hand. Use the other hand to slide the quilt edge into the clips, then release the clips (Figure 16).

Free-motion quilt as usual while

keeping your hands close to the controller. The controller will move with the quilt sandwich, regulating your stitch length.

WARNING: If the quilt sandwich is extremely soft, you may choose to fold the edge of the quilt sandwich to stiffen it slightly.



Figure 15.



Figure 16.

Tips and Techniques

1. Don't twist the fabric under the needle, as this will cause the needle to sew faster or slower than it should and you will not maintain regulation. As long as the fabric remains in the same orientation relative to your body while quilting, the regulation will be accurate.
2. When you have finished a section of quilting, readjust the position of the TruStitch™ controller to make the next section easier to work on. Don't try to quilt large sections of the quilt at one time. Work within a space no farther out than 6"-15" from the needle.
3. Idle speed can help you keep the needle in motion and prevent long stitches e.g. when doing zigzag, star or circular patterns.
4. Adjusting your Idle speed will give you better results. Experiment with different percentages to find the level you like best for each quilting method. For example, micro-stippling with a high stitches-per-inch count will require a higher percentage setting than stitch-in-the-ditch.
5. When using rulers hold the controller next to the ruler and move the ruler with both hands. As you adjust the ruler, adjust the controller as well. Some quilters prefer to use the magnet when doing ruler work. Don't forget to release the foot pedal or press the Pause button before moving the controller.
6. A hoop may be used in conjunction with the controller for better control of the fabric being sewn. You can hold the controller just outside of the hoop with your hand or with the magnet.
7. If you are using a higher stitches-per-inch setting and the Idle speed is set to zero, it is recommended that you keep the controller closer to the needle. Be careful not to let the controller hang up on the needle plate.
8. Because the controller senses its motion across the table top, it is important that it never be allowed to pass over the gap in the table behind the needle where the PLATINUM™ 16 quilting machine arm is placed. This gap will cause a break in the information sent to the receiver and will result in uneven stitches.
For the same reason, make sure the controller doesn't extend past the edge of the table (which could happen when using the coaster).

Register your TruStitch™

For product and warranty registration, go to the HUSQVARNA VIKING® web site at www.husqvarnaviking.com.

Recommended for Use with the PLATINUM™ 16 quilting machine and TruStitch™

Visit your local retailer to purchase the following recommended tools and accessories.

INSPIRA® Table Extension **INSPIRA® Horizontal Spool Pin**



Expand your original PLATINUM™ 16 quilting machine table with Table Extensions. Each extension measures 18" x 30." Purchase one or two to provide extra support for large projects. Adding two extensions will expand the original table to a full six feet in width (one extension shown above).



An optional horizontal spool pin is available for use with delicate threads such as metallics or holographic threads or for specialty threads that are wound on a spool (not a cone). Some threads twist and break if fed from a vertical spool.



INSPIRA® Table Overlay

The table overlay covers the entire table with a slick surface that allows the quilt sandwich to glide. At the same time, it covers the gap where the machine is set into the tabletop, allowing the TruStitch™ controller to operate in the area behind the needle without interruption in stitch regulation.

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