IMPORTANT SAFETY INSTRUCTIONS

When using an electrical machine, basic safety precautions should always be followed, including the following:

Read all instructions before using (this machine).

DANGER - To reduce the risk of electric shock:
1. The machine should never be left unattended when plugged in. Always unplug this machine from the electric outlet immediately after using and before cleaning.

WARNING - To reduce the risk of burns, fire, electric shock, or injury to persons:
1. Do not allow this machine to be used as a toy. Close attention is necessary when this machine is used by or near children.
2. Use this machine only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
3. Never operate this machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
4. Never operate the machine with any air openings blocked. Keep ventilation openings of the Quilting Machine free from the accumulation of lint, dust, and loose cloth.
5. Never drop or insert any object into any opening.
6. Do not use outdoors.
7. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
8. To disconnect, turn all controls to the off position, then remove the plug from the outlet.
9. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
10. Keep fingers away from all moving parts. Special care is required around the Quilting Machine needle.
11. Always use the proper needle plate. The wrong plate can cause the needle to break.
12. Do not use bent needles.
13. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
14. Switch the Quilting Machine off when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
15. Always unplug Quilting Machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.

Connect this machine to a properly grounded outlet only. See Grounding Instructions.

SAVE THESE INSTRUCTIONS

Do not discard box or packaging
IMPORTANT SAFETY INSTRUCTIONS

GROUNDING INSTRUCTIONS

This product must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord that has an equipment-grounding conductor and a grounding plug. Plug the cord from the Quilting Machine into a surge protector. The surge protector must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**DANGER** - Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded.

Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This product is for use on a nominal 120 V circuit, and has a grounding plug that looks like the plug illustrated in sketch A in Figure 61.1. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by the metal screw.

A qualified electrician should be consulted if there is any doubt as to whether an outlet box is properly grounded.
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1. Height: 480 mm, 19"
2. Width: 395 mm, 15.5"
3. Length: 585 mm, 23"
4. Weight: 42 Lbs / 19 Kg
5. Quilting Arm Length: 15” W 8.5” H / 381mm W 215.9mm H
6. Maximum SPM: 1800
7. Minimum SPM: 90
8. Input Voltage: 110-220 VAC
9. Peak Power Consumption: 300 W
10. Timing Belt System
11. Bobbin Type: Large M Class
12. OLED Screen
13. Custom Ergonomic Handles and Handlebars for efficiency and extended use
14. Built in Bobbin Winder
15. Dual Thread Tension Guides, for precise tension.
Specifications And Overview

1. Thread Mast Base
2. Bobbin Thread Guide
3. Bobbin Thread Tensioner
4. Bobbin Thread Cutter
5. Bobbin Wind Stand
6. Bobbin Sensor
7. Dual Thread Tension Guide
8. Small Thread Tensioner
9. Large Thread Tensioner
10. Thread Guides
11. Take Up Lever
12. Lamp
13. Needle Bar
14. Needle
15. Hopping Foot
16. Thread Stand
17. Carriage wheels
18. Hand Wheel
19. Bobbin Case
Please make sure all pieces were included in your kit.

<table>
<thead>
<tr>
<th>Inclluded Parts And Tools</th>
<th>Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thread Mast</td>
<td><strong>OLED Screen with Cable</strong></td>
</tr>
<tr>
<td>Power Cord</td>
<td><strong>Encoder O-Ring (2)</strong></td>
</tr>
<tr>
<td>Lint Brush</td>
<td><strong>Lower Encoder (Black Spring)</strong></td>
</tr>
<tr>
<td>Bobbin Case</td>
<td><strong>Upper Encoder (Silver Spring)</strong></td>
</tr>
<tr>
<td>Bobbin (3) (one in bag)</td>
<td><strong>Short Encoder Cable</strong></td>
</tr>
<tr>
<td>Timing Spacer</td>
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</tr>
<tr>
<td>Lint Brush</td>
<td><strong>Upper Encoder Spring (Silver)</strong></td>
</tr>
<tr>
<td>Bobbin Case</td>
<td><strong>Lower Encoder Spring (Black)</strong></td>
</tr>
<tr>
<td>M3 Thumb Screw (Needle Screw)</td>
<td><strong>Oil Bottle</strong></td>
</tr>
<tr>
<td>2mm T-handle Allen Wrench</td>
<td><strong>Upper Encoder Spring (Silver)</strong></td>
</tr>
<tr>
<td>2.5mm T-handle Allen Wrench</td>
<td><strong>Lower Encoder Spring (Black)</strong></td>
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<td>3mm T-handle Allen Wrench</td>
<td><strong>Oil Bottle</strong></td>
</tr>
<tr>
<td>4mm T-handle Allen Wrench</td>
<td><strong>Upper Encoder Spring (Silver)</strong></td>
</tr>
<tr>
<td>Flat Head Screw Driver</td>
<td><strong>Long Encoder Cable</strong></td>
</tr>
<tr>
<td>Zip Tie (2) Zip Tie Mount (2)</td>
<td><strong>Hopping Foot Height Gauge</strong></td>
</tr>
<tr>
<td><strong>Thread Mast</strong></td>
<td><strong>OLED Screen with Cable</strong></td>
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<td><strong>Zip Tie (2) Zip Tie Mount (2)</strong></td>
<td><strong>Hopping Foot Height Gauge</strong></td>
</tr>
</tbody>
</table>
Wheel Alignment

Parts & Tools Needed:

- 3mm Allen Wrench

1. Using the 3mm Allen Wrench, loosen the Set Screws located above each of the Wheels on the machine.

**Note:** Estimate the distance the wheels need to be moved to sit on your carriage, and set the machine onto the carriage on your quilting frame.
1. Readjust the wheels as necessary while centering the machine between the left and right wheels. Tighten the Set Screws using the 3mm Allen Wrench.
Encoder Assembly

Parts & Tools Needed:

1. Remove the Left Rear Wheel (see orientation diagram above) from the Quilting Machine and the bottom carriage using the 4mm Allen Wrench. Set the Wheels aside for now.

2. Check the Encoders to ensure that they contain all of the necessary parts and that the Lock Collar is loose.

Orientation Diagram

The Encoders must be installed in the left rear position of the top and bottom carriages.

Parts & Tools Needed:

- Upper Encoder (Silver Spring)
- Lower Encoder (Black Spring)
- 4mm T-Handle Allen Wrench
- 2mm T-Handle Allen Wrench
- Lock Collar
- Shoulder Spacer
- Washer
- Wheel Spacer
- Plastic Stop

M6 x 16mm SBHCS

Wheel
1. Place one of the Wheels on to the Upper Encoder and screw it into the left rear position on the Quilting Machine.

2. Place the remaining Wheel in to the Lower Encoder and screw it in to the rear left position of the Bottom Carriage.

3. Twist the Lock Collar on the Upper Encoder up to tighten the Spring. Tighten the Set Screw using the 2mm Allen Wrench to tension the Encoder.

4. Twist the Lock Collar on the Lower Encoder up to tighten the Spring. Tighten the Set Screw using the 2mm Allen Wrench to tension the Encoder.
1. Place the bottom plate onto the quilting frame.
2. Place the Quilting Machine onto the bottom plate. Make sure that the Encoder rides on the carriage track.
3. Plug in the Encoder Cables from each of the Encoders into the Quilting Machine. The Longer Cable is used for the Encoder attached to the carriage, while the Shorter Cable is used for the Encoder attached to the Quilting Machine.
4. Secure the Long Encoder Cable to the side of the Carriage using a Zip Tie and Mount.
1. Attach the Thread Mast to the Thread Mast Base. Make sure it is securely attached by screwing it on.

Note: The Guide Loops on the Thread Mast should be positioned so that they are directly above the Thread Stands.

The Thread Mast acts as a guide for the thread, and makes it less likely to get snagged or looped around any object.
1. Connect the Display Ribbon Cable from the Display to the Display Hub, and attach the Display by snapping it into the Display Hub.
1. Thread
2. Thread Mast
3. Thread Guide
4. Thread Tensioner
5. Large Thread Tensioner
6. Thread Guide
7. Right Thread Guide
8. Take up Lever
9. Left Thread Guide
10. Bottom Thread Guide
11. Eyelet of Needle
12. Eye of Needle
1. Place thread on the cone style Thread Stand.

2. Pull the thread straight up and through the (2) Guide Loops of the Thread Mast.

3. Put the thread through the top hole on the Dual Thread Tension Guide, wrap the thread around and through the bottom hole of Thread Guide.

4. Take the thread through the Small Thread Tensioner, between the two Disks.
5. Loop the thread down around the Large Thread Tensioner and pull the thread through the Tensioner Disks and around the Check Spring.

6. Feed thread through Thread Guide next to Large Thread Tensioner.

7. Feed the thread through the Right Thread Guide up to the Take Up Lever

8. Pull the thread through the hole in the Take Up Lever.
9. Feed thread into the Left Thread Guide below the Take Up Lever.

10. Pull the thread down towards the Needle and through the Bottom Thread Guide.

11. Feed the thread through the Eyelet in the front of the Needle Bar.

12. Feed the thread through the Eye of the Needle.
1. Place the thread on the Thread Stand.
2. Pass the thread through the Guide Loops in the Thread Mast.
3. Pull the thread through the Bobbin Thread Guide at the back of the Quilting Machine.
4. Loop the thread around the Spring Hook and around the Thread Tensioner.
5. Wrap the thread around the Bobbin as shown.
6. Start the Bobbin Winder by pushing the Bobbin Winder Cam into the Bobbin.

**Note:** When the Bobbin is full it will automatically stop.

1. **Parts & Tools Needed:**
   - **Bobbin**
   - **Thread Mast**
   - **Thread Cutter**

2. **Adjust the cam so that the Bobbin does not over-fill**

3. **Push Bobbin Winder Cam**

4. **Make sure the thread is between the Tensioner Disks**

5. **Adjust the cam so that the Bobbin does not over-fill**

6. **When the Bobbin is full you can cut the thread with the Thread Cutter found next to the Bobbin Stand.**

The Bobbin Winder runs on a separate motor from the Quilting Machine. This allows you to wind Bobbins with the Quilting Machine running or stopped, as long as the power is on.
1. Pass the thread through the (2) Guide Loops on the Thread Mast.

2. Pull the thread through both holes in the Bobbin Thread Guide.

3. Loop the thread around the Spring Hook and around the Thread Tensioner.

4. Wrap the thread around the Bobbin as shown.

5. Start the Bobbin Winder by pushing the Bobbin Winder Cam into the Bobbin.

Note: When the Bobbin is full it will automatically stop.

Adjust the Cam to adjust bobbin fill.
1. Remove the Bobbin Case.

2. Place a full Bobbin into the Bobbin Case.

3. Pull the thread so that it comes through the Slot and out of the hole.

4. Place the Bobbin Case into the Quilting Machine with the lever arm at the 3 o'clock position, and press it into place until it “clicks” in.

*Note the direction the thread is coming off the Bobbin in relation to the Bobbin Case.
Adjusting Thread Tension

Note: The Thread Tension will need to be adjusted anytime the thread is changed. Follow the process below to adjust the thread tension for the thread you have selected.

1. Set the Bobbin Case, with the Bobbin inside, in your hand on its side and pull up on the thread. The thread should pull the Bobbin Case vertical and the thread should flow out of the Bobbin without lifting the Bobbin off of your hand. If the Bobbin pulls out of your hand, the tension is too tight and will need to be loosened. If the thread flows out of the bobbin on its side but does not pull the Bobbin vertical the tension is too loose and will need to be tightened.

2. To adjust the bobbin tension, locate the larger of the two screws on the bobbin case. Tighten the tension in minute adjustments by twisting the large screw to the right or clockwise. To loosen, twist the large screw to the left or counterclockwise in small increments.

3. Adjust the top thread tension after the bobbin tension is established. Start with the knob loosened so that none of the screw is showing, then slowly increase the tension until the thread tension is balanced and the thread knots in the middle layers of your fabric.
It is very important to make sure that the bobbin tension is properly set first, see page 26 for directions on setting the bobbin tension. As long as you have your bobbin tension correct, you should be able to fix the tension by adjusting only the top tension. If you are unable to fix your tension by only adjusting the top tension you may need to re-adjust the bobbin tension.

A thread tension tutorial is available on our website at: http://www.qniquequilter.com/videos/tutorials/
1. Once all the components are connected, you can attach the Power Cord to the Quilting Machine, then connect the Power Cord to an outlet.

2. When you are ready to begin sewing, turn on the machine using the power switch located on the back of the machine.

Below is a reference of how the machine should be configured.
Setup & Assembly

Final Checklist

- The Mast Stand is attached and tightened securely
- The Bobbin Winder is able to fill a Bobbin and stops when full
- The Quilting Machine is threaded correctly
- The Handle Bars are not loose
- The Display Hub is secured to the Handle Bars
- The Display powers on and displays the quilting settings
- Check for bent Needles
- The Needle is secured firmly to the Needle Bar
- The Power Cord is securely connected

Before you begin sewing make sure that:

No objects other than quilting materials should be near the Needle or quilting area of the Quilting Machine.
1. **Menu** - This button returns the user to the main menu screen from any other screen.

2. **Back** - This button will return the user to the previously viewed screen.

3. **Needle Up / Needle Down** - A quick push and release of this button allows you to cycle the needle to the up or the down position. Holding this button for three seconds will change the default stop needle position. When the machine powers up the needle will always default to the up position.

4. **Start / Stop, Select** - This button will select the highlighted function icon. When in a sewing function such as regulate, manual or baste this button will cause the Quilting Machine to sew, or stop sewing.

5. **Increase, Scroll up** - When in a menu this button will scroll up for navigation of listed icon selections. When a variable window is highlighted, such as speed, stitches per inch, time or cycles, this button will allow the user to increment the value of the variable up.

6. **Decrease, Scroll down** - When in a menu this button will scroll down for navigation of listed icon selections. When a variable window is highlighted, such as speed, stitches per inch, time or cycles this button will allow the user to increment the value of the variable down.
The Main Menu provides access to the different sewing methods and access the tools menu.

**Regulated Precise** -  
In both regulated modes, the Quilting Machine will adjust its rate of stitching based on the speed at which the user moves the machine on the quilt frame, in order to maintain a constant stitch length. The screen will show you the current state, and sewing settings. In Precise Mode, the machine will stop sewing if it is not being moved.

**Regulated Cruise** -  
In Cruise Mode, the machine will not stop sewing if it is not being moved. The Stitch speed will not drop below 5%, even when the machine is at rest.

**Manual Mode** -  
This mode allows you to set the speed of the machine. When sewing in this mode the machine speed is fixed. To get consistent stitch lengths you must adjust your movements to match the speed of the machine. This mode is especially useful for small continuous stippling type patterns, as opposed to regulated stitching functions.

**Baste** -  
The baste feature allow the user to place a temporary stitch at large intervals to secure fabric layers together.

**Tools** -  
The tools menu allows access to information regarding the Quilting Machine. You can also enter the diagnostics menu to test different aspects of the machine to identify issues.
**Over-speed Indicator** -
This will be green when the Quilting Machine is being moved within the speed limit for sewing. When the indicator turns red and beeps it means the Quilting Machine is being moved more quickly than the Quilting Machine can stitch, and will be unable to maintain the SPI setting. The audible beep will sound until the speed is reduced sufficiently to allow the machine to regulate.

**Needle Position Indicator** -
This is a visual representation for the default needle position when sewing is stopped. To change, hold the left needle up/down button for three seconds.

**SPI Setting (Stitch Per Inch)** -
Shows the current SPI setting, the minimum is 4, and the maximum is 16.

**Start / Stop Indicator** -
This button indicates what action the Quilting Machine will take when the start/stop button is pressed.
The baste stitch can be set to small, medium, or large.

The Speed indicator shows current sewing speed as a percentage of the maximum 1800 stitches per minute. The minimum being 5% and the maximum of 100%.
The tools menu allows access to information regarding the Quilting Machine. You can also enter the diagnostics menu to test different aspects of the machine to identify issues.

**Stitch / Time**
This screen displays the number of stitches sewn and hours the machine has run. Hours and stitches can be reset individually. To reset either one, navigate to the option you wish to reset using the + or - keys and then press select.

**Total -**
This area cannot be reset. The Quilting Machine will keep track of the total number of stitches sewn, and hours the machine has run.
System Information
This screen will display the motor control firmware version and the display control firmware version.

Diagnostics
The diagnostics are used to identify where the Quilting Machine may be experiencing an issue. This will be very useful when working with a technician.

The diagnostics can be used to troubleshoot a machine. They provide a means to do testing, should a problem arise.
Preferences

This screen will be used to change defaults for various options as follows:

Default: Precise/Cruise/Baste/Menu

Units: Inches/Metric

Inches/Baste: Small/Medium/Large

Stitch/Inch: 4-16.

Over Speed: On/Off

Left Handed/ Right Handed: This will reverse the buttons for right or left handed users.
This section contains direction for cleaning and maintaining the Quilting Machine, and instruction to repair simple issues.

Every Quilting Machine includes a basic repair kit, which includes parts to make simple repairs to your machine.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>M3 Thumb Screw - 1</strong></td>
<td><img src="image" alt="Thumb Screw" /></td>
</tr>
<tr>
<td>A replacement for the needle bar set screw.</td>
<td></td>
</tr>
<tr>
<td>If the thumb screw is overtightened, it will strip out and will need to be replaced.</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Item Description</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Encoder Springs - 1 Black/ 1 Silver</strong></td>
<td><img src="image" alt="Encoder Springs" /></td>
</tr>
<tr>
<td>Replacement springs for the encoders.</td>
<td></td>
</tr>
<tr>
<td>If the encoder springs are over-tensioned the may break and must be replaced.</td>
<td></td>
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</tbody>
</table>

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<tr>
<th>Item Description</th>
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<tbody>
<tr>
<td><strong>Timing Spacer - 1</strong></td>
<td><img src="image" alt="Timing Spacer" /></td>
</tr>
<tr>
<td>A tool to make timing your machine easier and more consistent.</td>
<td></td>
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</tbody>
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<tr>
<th>Item Description</th>
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<tbody>
<tr>
<td><strong>Hopping Foot Height Gauge - 1</strong></td>
<td><img src="image" alt="Hopping Foot Height Gauge" /></td>
</tr>
<tr>
<td>A tool to set the Hopping Foot height on your machine easier and more consistent.</td>
<td></td>
</tr>
</tbody>
</table>
Replacing The Encoder Spring

Parts & Tools Needed:

- Upper Encoder Spring (Silver)
- Lower Encoder Spring (Black)
- 2mm T-handle Allen Wrench
- 4mm T-handle Allen Wrench
- Lock Collar
- Encoder
- Spring
- Washer
- Wheel Spacer
- Plastic Stop
- Short Spring Arm
- Encoder Base
- Long Spring Arm

1. Unplug the encoder cable then loosen the lock collar and remove the encoder from the carriage.
2. Remove the Plastic Stop, Wheel Spacer, and Washer from the encoder then remove the broken encoder spring.
3. Put the replacement spring on the encoder. Set the Long Spring Arm in the hole on the Lock Collar and set the Short Spring Arm in the hole on the Encoder Base.
4. Replace the Washer, Wheel Spacer, and Plastic Stop then reattach the encoder to the carriage.
1. Place your Needle Plate on your Quilting Machine and rotate Hand Wheel to lower Needle and ensure Needle Plate orientation. Ensure all screw holes are visible and Needle enters the middle of the Needle Plate without contacting the Needle Plate at any point.
2. Attach your Needle Plate using 4 Needle Plate Screws, don’t tighten the screws during this step.
3. Rotate hand wheel until the Needle is in the lowest position move Needle Plate till it is centered around Needle and tighten all 4 Needle Plate Screws.
The Hook Holder

Tools Needed:

- 3mm T-Handle
- Allen Wrench

1. Rotate your Hook Assembly so that the Positioning Guide is at the highest point during rotation.
2. Attach your Hook Holder to your Quilting Machine with a M5 X 10mm FHCS (don’t tighten the screw during this step) with the Hook Holder’s finger in the middle of the Hook Assembly’s Positioning Guide.

3. Slide your Hook Holder away from the Hook Assembly so there is about a 0.75mm gap (it’s hard to measure so just make it as big of a gap as possible) between the Hook Holder and the Hook Assembly, and tighten the M5 X 10mm FHCS.
1. Using the Hand Wheel in the back of your machine, rotate your machine until the Needle Bar is in the lowest position.
2. Attach your Hopping Foot to the press bar using a M3 Thumb Screw (don’t tighten during this step)
1. Using the hole in the Needle Plate, align the Hopping Foot so that is centered.

4. Place the Hopping Foot Height Gauge under the Hopping Foot and make sure the Hopping Foot is touching the Hopping Foot Height Gauge. Tighten the M3 Thumb Screw using the 3mm Allen Wrench.
Timing The Machine

**Tools Needed:**
- Timing Spacer
- 2mm T-Handle
- Allen Wrench

**Note:** Consult with technical support before attempting to adjust the machine timing.

1. Remove Needle Plate.
2. Loosen all three Hook Assembly Set Screws with a 2mm Allen Wrench by inserting the wrench into the machines Timing Hole Cut Out as each Set Screw aligns with the hole.
3. Rotate the Hand Wheel clockwise from the front of the machine so Needle is raising out of the Hook Assembly.
1. Bring the Needle so it rests on the top of Timing Spacer so the groove in the Needle aligns in the middle of the Hook on the Hook Assembly. The Needle should be as close as possible to the Hook Assembly without touching, roughly between 0.02mm and 0.075mm.

2. Tighten set screw; make sure the Needle doesn’t hit the hook by watching to see if the Needle bends during rotation and there is no clicking noise. Rotate machine Hand Wheel a full rotation to ensure the Needle doesn’t hit anywhere during rotation. If Needle hits the Hook Assembly anywhere during rotation adjust needle height up or down off center from Hook in 0.25mm increments as appropriate to clear the collision. Tighten the two remaining Set Screws and re-attach the Needle Plate.
1. Power off the machine.
2. Raise the Needle to the highest point.
3. Loosen the Thumb Screw that secures the Needle a quarter turn.
4. Remove Old Needle and insert the New Needle.
5. Hand tighten the Thumb Screw while holding the Needle in place.

*Be sure to install the Needle with the scarf (indent) toward the throat of your machine.

*The eye of the needle faces the bobbin opening.

*Hand tighten Needle Thumb Screw only.

Be sure to install the Needle with the scarf (indent) toward the throat of your machine.

The eye of the needle faces the bobbin opening.
1. Remove thread.
2. Remove all lint and thread remnants.

**Note:** You can use canned/compressed air to clean this area.

**Note:** Lint build up between the Tension Disks can prevent you from being able to properly tension your thread.

1. Remove the Bobbin Case.
Frequency: Every 20hrs of use.
1. We recommend oiling at the beginning of each project or oil before use if you have not used your machine for more than 30 days.
2. Place 1-2 drops of oil in each hole on top of the machine.
3. After oiling, run the machine briefly to ensure all components receive lubrication.

\textbf{Note:} The head of the machine and the Hook Assembly are the only areas that require regular lubrication.

Frequency: Once every other Bobbin change.
1. Remove the Bobbin Case.
2. Ensure all lint and thread remnants have been removed.
3. Rotate the Hand Wheel so that the Needle is halfway down, about a quarter turn. This will put the hook in the optimal position to be oiled.
4. Place 1 to 2 drops of oil on the Hook Assembly indicated by the arrow, pictured here.
5. After oiling, run the machine briefly to ensure all components receive lubrication.

\textbf{Note:} Once both components are clean re-assemble the Bobbin Case and place it into the Quilting Machine.
1. Adjust the Bobbin Winder Cam to be centered to the Bobbin without touching it by loosening the Set Screw with the 1.5mm Allen Wrench, adjusting the Cam, and retightening the Set Screw.

2a. If thread winds mostly on the top of the bobbin, the Tension Disks Post will need to be lowered by twisting the Post Clockwise and retightening the hex nut.

2b. If thread winds mostly on the bottom of the bobbin, the Tension Disks Post will need to be heightened by twisting the Post Counter Clockwise and retightening the hex nut.

Tools Needed:
• 1.5mm Allen Wrench (not included)
• 9mm Crescent Wrench (not included)