How to use this manual

Notes, important notes, and cautions

*NOTE*: A NOTE indicates important information that helps you make better use of your Handi Quilter product.

*IMPORTANT*: An IMPORTANT note provides information that is essential to properly using your Handi Quilter product.

*CAUTION*: A CAUTION indicates a potential for causing harm to your quilting machine, the quilt, or to yourself.

Online resources

Download a full-color version of this manual at: http://www.handiquilter.com/manuals/

Check for software updates to HQ Pro-Stitcher at: http://www.handiquilter.com/prostitcher-download/

Access videos about your Handi Quilter products: http://www.handiquilter.com/videocatalog/

Download tutorials for HQ Pro-Stitcher: http://www.handiquilter.com/education/pro-stitcher/

Participate in online forums with other Handi Quilter owners: http://www.handiquilter.com/forum/

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Printed in the United States of America.
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2. Important Safety Instructions

Save these instructions

This machine is intended for household or commercial use.

Disclaimer

Handi Quilter and its Representatives are in no way legally responsible or liable for damage to the HQ Pro-Stitcher when used improperly or not in accordance with the guidelines stated in this manual or when used on machine quilting frames not recommended by Handi Quilter.

Read all instructions before using

When using any machine, basic safety precautions should always be taken, including the following: Read all instructions before using.

WARNING - To reduce the risk of burns, fire, electric shock, or injury to persons:

The HQ Pro-Stitcher quilting machine should never be left unattended when plugged in. Always unplug the machine from the electric outlet immediately after using and before cleaning.

- Do not allow to be used as a toy. Close attention is necessary when this quilting machine is used by or near children.
- Use this quilting machine only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
- Never operate this quilting 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 quilting machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
- Never operate the machine with any air openings blocked. Keep ventilation openings of the machine free from the accumulation of lint, dust, and loose cloth.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- To disconnect, shut down the computer, then disconnect all cables.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Keep fingers away from all moving parts.
- Always unplug the machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Use only the power cord set provided by the manufacturer or a certified replacement set from the manufacturer.
Read these instructions before using the machine.

To use the machine safely

1. Keep hands and loose clothing away from wheels, gears or other moving parts.

2. Turn the machine off and unplug the cord in the following cases:
   - when you have stopped using the machine
   - when you replace or remove the quilting machine needle or any other part
   - in case of failure when you use the machine
   - when you check or clean the machine
   - when you leave the machine unattended

3. Connect the machine directly to the wall outlet. Do not use extension cords.

To increase the life of your machine

1. Do not store this machine in areas exposed to direct sunlight or high humidity. Never use or store the machine near a heater, an iron, a halogen lamp or other hot things.

2. Clean the computer monitor with a soft, lint-free rag. If necessary, dampen the rag with a small amount of isopropyl alcohol. Do not use any other cleaners on the computer monitor.

3. Use only neutral soaps or detergents to clean the carriage. Benzene, solvents and scouring powders can damage the machine and therefore should never be used.

4. Do not drop or bump the machine.

5. Always consult the manual to replace or fix any other part of the machine.

To repair or adjust the machine

- If the machine breaks down or needs adjustment, first check the troubleshooting chart in the appendix to inspect and adjust the machine yourself.
Consignes de sécurité importantes

Conservez ces consignes

Cette machine est destinée à un usage domestique.

Avertissement

Handi Quilter et ses représentants ne sont en aucun cas juridiquement responsables des dommages causés à HQ Pro-Stitcher lorsque celle-ci est utilisée de manière inadéquate ou non conforme aux consignes énoncées dans ce manuel ou lorsqu'elle est utilisée sur des cadres de machine à quilter non recommandés par Handi Quilter.

Lisez toutes les consignes avant d'utiliser le produit

Lorsque vous utilisez une machine, vous devez toujours prendre des précautions de sécurité de base, notamment ce qui suit : lisez toutes les consignes avant d'utiliser le produit.

AVERTISSEMENT : pour réduire le risque de brûlures, d'incendie, de choc électrique ou de blessures :

Ne jamais laisser la machine à quilter HQ Pro-Stitcher sans surveillance lorsqu'elle est branchée. Débranchez toujours la machine de la prise électrique immédiatement après usage et avant de la nettoyer.

- Ne pas l'utiliser comme un jouet. Il est nécessaire de faire preuve de vigilance lorsque cette machine à quilter est utilisée à côté ou à proximité d'enfants.
- Utilisez cette machine à quilter uniquement pour l'usage prévu décrit dans ce manuel. Utilisez uniquement les accessoires recommandés par le fabricant décrits dans ce manuel.
- Ne jamais utiliser cette machine à quilter si le cordon ou la fiche est endommagé, si elle ne fonctionne pas correctement, si on l'a fait tomber ou endommagé, ou si elle est tombée dans l'eau. Renvoyez la machine à quilter au revendeur ou centre de service après-vente agréé le plus proche pour examen, réparation, ou réglage électrique ou mécanique.
- Ne jamais utiliser la machine si des ouvertures d'air sont bloquées. Gardez les ouvertures de ventilation de la machine libérées d'accumulation de peluches, poussières et morceaux de tissu.
- Ne jamais faire tomber ou insérer un objet dans une ouverture.
- Ne pas utiliser à l'extérieur.
- Ne pas utiliser là où des aérosols (vaporisateurs) sont utilisés ou de l'oxygène est administré.
- Pour déconnecter, arrêtez l'ordinateur, puis débranchez tous les câbles.
- Ne pas débrancher en tirant sur le cordon. Pour débrancher, saisissez la fiche, non le cordon.
- N'approchez pas les doigts des parties mobiles.
- Débranchez toujours la machine de la prise électrique pour retirer des couvercles, lubrifier, ou pour tout autre réglage d'entretien de l'utilisateur mentionné dans le manuel d'instruction.
- Cet appareil n'est pas destiné intended à être utilisé par des personnes (y compris les enfants) dotées de facultés physiques, sensorielles, ou mentales réduites, ou manquant d'expérience ou de connaissances, sauf si elles ont été formées et encadrées sur l'utilisation de cet appareil par une personne responsable de leur sécurité.
- Utilisez uniquement le cordon d'alimentation fourni par le fabricant ou une pièce de rechange certifiée par le fabricant.
Lisez ces consignes avant d'utiliser la machine.

Pour utiliser la machine en toute sécurité

1. N'approchez pas les mains et les vêtements amples des roues, des engrenages ou des autres pièces mobiles.

2. Mettez la machine hors tension et débranchez le cordon dans les cas suivants :
   - lorsque vous avez fini d'utiliser la machine
   - lorsque vous remplacez ou retirez l'aiguille ou une autre pièce de la machine à quilter
   - en cas de défaillance lorsque vous utilisez la machine
   - lorsque vous inspectez ou nettoyez la machine
   - lorsque vous laissez la machine sans surveillance

3. Connectez la machine directement à la prise murale. Ne pas utiliser de rallonges.

Pour augmenter la durée de vie de votre machine

1. Ne pas ranger cette machine dans des endroits exposés à la lumière directe du soleil ou à une forte humidité. Ne jamais utiliser ni ranger la machine à proximité d'un radiateur, d'un fer à repasser, d'une lampe halogène ou d'autres objets brûlants.

2. Nettoyez l'écran d'ordinateur avec un chiffon doux non pelucheux. Au besoin, humidifiez le chiffon avec une petite quantité d'alcool isopropylique. Ne pas utiliser d'autres produits de nettoyage sur l'écran d'ordinateur.

3. Utilisez uniquement des savons ou détergents neutres pour nettoyer le chariot. Le benzène, les solvants et les poudres à récurer peuvent endommager la machine et ne doivent donc jamais être utilisés.

4. Ne pas faire tomber ou cogner la machine.

5. Consultez toujours le manuel pour remplacer ou réparer toute autre pièce de la machine.

Pour réparer ou régler la machine

- Si la machine tombe en panne ou doit être réglée, consultez d'abord les consignes de dépannage figurant en annexe pour inspecter et régler vous-même la machine.
3. Installation

Congratulations on your HQ Pro-Stitcher® purchase

Handi Quilter is proud to offer you easy-to-use quilting machines and computer-guided quilting using the latest technology with the best value for your money. We provide inspiration and education to enhance your transition into computer-guided machine quilting.

Because the world of computer-guided quilting is constantly changing, we invite you to keep up with us by checking our website frequently for news, software updates, tutorials, and more.

Go to www.HandiQuilter.com for:

- Updates to the HQ Pro-Stitcher software (provided free as long as you own your machine)
- A full-color version of this manual that can be downloaded and printed
- Updates to this manual
- Step-by-step tutorials to help you learn how to use HQ Pro-Stitcher
- Free design downloads
- News about hardware upgrades or new machines
- Links to educational information: webinars, retreats, and more

Want to be in the know?

Sign up to join the Handi Quilter e-mail Newsletter list to receive notice of updates, upgrades, special offers, contests, new products and free stuff at: www.HandiQuilter.com/newsletter/subscribe/.

Machine packaging information

Keep the carton and packing materials. You will need them in the event that you need to return the machine to the dealer or send it for repair. If you do not pack the machine properly or if you do not use the correct packaging materials, the machine could be damaged. Handi Quilter is not liable for damage that occurs during return shipping.

Handi Quilter contact information

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501 N 400 W
North Salt Lake, Utah 84054

Toll-free phone: (877) 697-8458
Local phone: (801) 292-7988

Email Address: HQCares@HandiQuilter.com
Website: www.HandiQuilter.com
Optional U.S. Grounding

This product is for use on a nominal 120 V or nominal 220 V circuit, and has a grounding plug that looks like the plug illustrated in sketch A above. 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.

**IMPORTANT:** In Canada, the use of a temporary adapter is not permitted by the Canadian Electric Code.

Parts List

This list shows the parts of the HQ Pro-Stitcher. Items A through Q are for the HQ Avanté (8-wheel carriage version) and HQ24 Fusion. Items A through U are for the HQ Sixteen and HQ Avanté (4-wheel carriage version). Items G, R, S, or T may not be included or needed.

**NOTE:** The parts photographed in this manual may look different from the ones you received.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Blue X-axis Flexirack (12 feet)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B. X-axis Flexirack clamps and screws</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Item Code</td>
<td>Description</td>
<td>Quantity</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>C.</td>
<td>3/32-inch drill bit</td>
<td>1</td>
</tr>
<tr>
<td>D.</td>
<td>Emergency base-plate repair kit</td>
<td>1</td>
</tr>
<tr>
<td>E.</td>
<td>EZ Carriage</td>
<td>1</td>
</tr>
<tr>
<td>F.</td>
<td>Computer bracket</td>
<td>1</td>
</tr>
<tr>
<td>G.</td>
<td>Y-encoder circuit board</td>
<td>1</td>
</tr>
<tr>
<td>H.</td>
<td>Y-axis mounting bracket assembly</td>
<td>1</td>
</tr>
<tr>
<td>I.</td>
<td>Power cord assembly</td>
<td></td>
</tr>
<tr>
<td>I-1.</td>
<td>10-foot power cord</td>
<td>1</td>
</tr>
<tr>
<td>I-2.</td>
<td>2-foot power cord (quilting machine to carriage)</td>
<td>1</td>
</tr>
<tr>
<td>I-3.</td>
<td>2-foot power cord (wall to filter box)</td>
<td>1</td>
</tr>
<tr>
<td>I-4.</td>
<td>Power filter box</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>(for HQ Avanté or HQ24 Fusion)</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I-5.</td>
<td>Y-power cord (10-foot)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>(for HQ Sixteen only)</td>
<td></td>
</tr>
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</table>
J. Adhesive cable mounting clips 4

K. USB flash drive 1

L. Art & Stitch software 1

M. USB cable 1

N. Computer power cord 1

O. Manual engagement/disengagement tool 1

P. Harness cable

Q. HQ Pro-Stitcher tablet computer 1
   \(\textit{NOTE:}\) The model of the HQ Pro-Stitcher computer may be different from the one pictured.

R. HQ Sixteen Y-Encoder 1

S. Power Cord Retaining Clamp 1

T. 3M Command Adhesive Strips 6
Installation (HQ Fusion and HQ Avanté)

These instructions are for installing HQ Pro-Stitcher on the HQ Fusion and HQ Avanté (with an 8-wheel Precision-Glide carriage). Handi Quilter recommends installation by an authorized HQ Pro-Stitcher Representative if available.

Tools required

- Power drill
- 4mm Allen wrench
- 5mm Allen wrench
- Slotted screwdriver (one large and one small)
- Phillips screwdriver (one large and one small)
- Manual engagement/disengagement tool (see Parts List, item O)

Installation of the X-Rack and Y-Rack

To install the X-Rack

1. Remove the blue 12-foot Flexirack (see Parts List, item A) and the Pro-Stitcher carriage (see Parts List, item E) from the box.

2. Place the Pro-Stitcher carriage on the frame. Starting at one end of the table, begin mounting the blue Flexirack to the front of the table while aligning it to the front white gear on the carriage.

   Peel back a few inches of the pink protective layer of the tape. Position the blue Flexirack by aligning it to the white gear as you move down the table. Press down on the blue Flexirack to stick it firmly to the table.
3. Use the carriage as a guide and align the blue Flexirack with the white gear along the length of the table (see arrow at right), removing the pink protective layer and pressing downward on the blue Flexirack while moving down the entire length of the table.

4. Double check the alignment of the carriage white gear with the blue Flexirack by rolling the carriage along the entire length of the table.

5. Trim the Flexirack to length using a knife or wire cutters. The blue Flexirack does not need to extend the full width of the table and can be a couple of inches shorter on either end.

6. At both ends of the blue Flexirack, use two of the small metal clamps (see Parts List, item B) to hold the ends firmly in place. The clamps have a hole through the center and a lip on one end. The lip should be on the side opposite the blue Flexirack. Place the clamps where they will be attached and drill pilot holes using the 3/32-inch drill bit and then use a Phillips screwdriver to fasten the clamps on both sides of the Flexirack to the table.
△ **CAUTION:** Do not use the larger drill bit included in the emergency repair kit, as this is the wrong size for the Flexirack clamps.

☞ **NOTE:** As an alternative, use one clamp at each end. Slide the lip of the clamp over the last gear of the blue Flexirack, drill a pilot hole, and screw in place.

**To Install the Y-Rack**

1. Carefully lay the quilting machine on its power pod side (the left side, looking from the front).

   Underneath the base plates, near the wheels on the C-pod side of the machine (the side with the thread tensioner and guides) there will be either two screws or two holes. If the screws are there, use a large flat screwdriver to remove the screws.

2. Attach the Y-Rack to the bottom of the front and rear base plates. The blue Flexirack should be toward the middle of the machine while the bolt holes should be toward the outside. Use the screws that were removed from the front and rear base plates (or use the two smallest screws in the Base Plate Repair Kit [see Parts List, item D]

   △ **CAUTION:** Be careful not to over-tighten the screws as the base plate holes will strip easily. In case of accidentally cross-threading or stripping one of the base plate holes, an emergency repair kit (see Parts List, item D) has been provided.
3. If the screws in the base plates do not have slotted heads and a nut driver cannot be fitted over the screw head, use one of the provided slotted screws as a replacement (see Parts List, item D) and use a slotted screwdriver to tighten the screws in place.

**Y-encoder circuit board replacement**

![Important Note]

**IMPORTANT**: This step is required only if the circuit board on the Y-encoder is blue. If the Y-encoder has a black circuit board, skip ahead to the next section.

Replace the Y-encoder circuit board with the one in the package (see Parts List, item G) if the circuit board is blue and does not have a 3-pin connector attached. It is held in place with one screw and five connecting pins.

"Replace this style Y-encoder circuit board."

"This style Y-encoder circuit board does not need to be replaced."

**To replace the Y-encoder**

1. Unplug the stitch regulator cable from the Y-encoder.

2. Remove the screw that holds the circuit board in place with a small Phillips screwdriver.
3. Gently pull the circuit board outward toward the front of the quilting machine (the same direction the screw came out).

4. Align the new Y-Encoder circuit board so the five pins on the encoder fit into the five-pin connector on the circuit board and gently push into position. The screw hole on the circuit board should match up with the hole in the encoder housing.

5. Replace the Phillips screw.

6. Plug the stitch regulator cable into the new Y-encoder circuit board.
To set up the HQ Pro-Stitcher carriage

1. Place the Pro-Stitcher carriage on the frame system with the connectors toward the back of the frame. Carefully lift the quilting machine and place it on the carriage so the wheels engage the white carriage tracks, making sure not to set the wheels on top of the stitch regulator cable. This is easier to do with two people, one at each end of the quilting machine.

2. With one end of the stitch-regulator cable plugged into the machine’s C-Pod and the middle connector plugged into the quilting machine’s Y-encoder, plug the other end of the cable into the carriage X-encoder.

3. Attach one end of the harness cable (see Parts List, item P) into the connector on the right side of the power supply. Tighten the side screws. You will plug the other ends to the bracket as part of step 5 when you attach the tablet computer.

4. Connect one end of the two-foot power cord (see Parts List, item I-2) to the carriage power inlet and the other end into the quilting machine’s P-pod lower power outlet.

5. If the quilting machine has a power cord attached, remove that cord and set it aside. Plug one end of the 10-foot power cord (item I-1) into the quilting machine’s P-pod upper power outlet. The other end of the 10-foot power cord plugs into the power filter box (I-4). The remaining two-foot power cord plugs into the other end of the power filter box (I-4) and into a wall receptacle when the Pro-Stitcher setup is complete. Do not plug into the wall at this time.
6. The black cables attached to the Pro-Stitcher carriage should be routed up between the rear handles and the quilting machine, toward the right-hand side of the machine (looking at the machine from the back). Attach the cable clips (see Parts List, item J) and route the cable accordingly.

7. The small black cable with the black 3-connector clip should be routed underneath the P-Pod and snapped into the quilting machine’s Y-encoder.

   The two black cables that run from the carriage up to the computer should be clipped into the cable clip under the rear handlebar to help prevent these cables from getting caught on the edges of the carriage.
8. Once again verify that the y-axis gear engages the blue Flexirack for the y-axis.

- Do this by looking from the back of the machine between the bottom of the quilting machine and the top of the carriage. If necessary, use the manual engagement/disseagation tool to move the gears so they engage.

- If horizontal adjustment is needed to ensure that at least half the white gear and blue Flexirack are interlocking, loosen the two screws that mount the y-axis bracket to the base plates and push the bracket in the direction necessary while retightening the screws.

- Both screws can be adjusted with the quilting machine on the carriage. Pull the machine to the front to access the front screw and to the rear to access the rear screw.

- Pull the quilting machine to the rear of the carriage and ensure the rear of the Y-axis bracket does not collide with the black plastic track retainer on the rear of the carriage. Adjust the Y-bracket if needed.

¿ IMPORTANT: If necessary, use the manual engagement/disengagement tool to move the gears so they engage. Insert the end of the tool into the hole at the front of the EZ Carriage.

9. With the power cable plugged in and the motors in the engaged position (use the manual engagement/disengagement tool if necessary), ensure that as the quilting machine is moved in both the X and the Y directions, the corresponding gears are rotating as well.
To attach the tablet computer

1. Disconnect the front handlebar cable from the side of the machine’s head. Then remove the handlebars from the front of the quilting machine by removing the three hex-head bolts with a 5mm Allen wrench.

   If you’re having difficulty reaching the front handlebar cable, first remove two of the hex-head bolts and loosen the third bolt. Then, rotate the handlebar slightly to provide easier access to the handlebar cable.

2. Make sure the three handlebar bolts are in the front handlebar and protruding out the bottom of the handlebar.

3. Position the handlebar over the computer bracket such that the screws go through the three holes in the bracket.

4. Secure the handlebar and bracket in place on the machine head using the three handlebar bolts.
5. The black cable has three connections – two 9-pin serial connectors and one barrel connector for power.

Insert the barrel connector into the center jack located on the bottom edge of the black box that is mounted to the back of the computer bracket. Attach the two 9-pin serial cables to the appropriate ports on the back of the same box, making sure cable connectors are plugged into their corresponding ports on the black box.

6. Remove the computer from its packaging. Install the computer into the computer bracket by sliding it into the black bracket from the side.
7. With the computer installed in the bracket, connect the USB short cable (*see Parts List, item M*) between the USB port, on the top-left side of the computer (position A) and the black box on the back of the bracket (position E).

8. Also connect the computer power cord (*see Parts List, item N*) between the computer (position B) and the black box (position C).

9. The open USB ports on the black box (position F) are for plugging in the USB Flash drive to load designs or update the software, or for plugging in a keyboard or mouse.

❗ **IMPORTANT:** The tablet shown is the Acer W700 series tablet. Your tablet may be a different make or model. Connect the USB and power cables in their proper location based upon your make and model of tablet.
Installation (HQ Sixteen and HQ Avanté with 4-wheel carriage)

These instructions are for installing HQ Pro-Stitcher on the HQ Sixteen and HQ Avanté (with a 4-wheel carriage). Handi Quilter recommends installation by an authorized Handi Quilter Representative if available.

Tools required

- Power drill
- 7/16-inch open end wrench
- 7/16-inch nut driver (or second wrench)
- 4mm Allen wrench
- 5mm Allen wrench
- Manual engagement/disengagement tool (see Parts List, item O)
- Slotted screwdriver (one large and one small)
- Phillips screwdriver (one large and one small)
- Knife and/or wire cutters

Set frame height

Determine whether the quilting machine is placed on a Portable Professional Frame or an HQ Studio Frame and follow the appropriate instructions below.

If you have a Portable Professional Frame

The Portable Professional Frame (Pro-Frame) side arms have three sets of height-adjustment holes. The ideal setting for the HQ Pro-Stitcher is the middle set of holes. This should allow the quilting machine arm to pass freely under the idler bar while keeping the quilt as close as possible to the arm. Use the 7/16-inch wrench to adjust the height if necessary. The ideal height allows just the tip of a finger between the idler pole and the machine.
If you have an HQ Studio Frame

The HQ Studio Frame may already be adjusted to the ideal height for the HQ Pro-Stitcher carriage. After following the assembly instructions below, if the idler pole (the lower pole toward the back of the frame) rubs on the free arm of the quilting machine, adjust the side arms to the next higher position check again and adjust if necessary. The ideal height allows just the tip of a finger between the idler pole and the machine.

Installation of the X-Rack and Y-Rack

To install the X-Rack

1. Make sure the front white track is mounted to the table with the 3M Command Strips (see Parts List, item T) that have been provided (unless the front track is already mounted to the table). Use the carriage as a guide to make sure there is no binding once the front track is mounted to the table.

2. Remove the blue 12-foot Flexirack (see Parts List, item A) and the HQ Pro-Stitcher carriage (see Parts List, item E) from the box.

3. Place the HQ Pro-Stitcher carriage on the frame. Starting at one end of the table, begin mounting the blue Flexirack to the front of the table while aligning it to the front white gear on the carriage. Peel back just a few inches of the pink protective layer of the tape. Position the blue Flexirack by aligning it to the white gear as you move down the table. Press down on the blue Flexirack to stick it firmly to the table.
4. Use the carriage as a guide and align the blue Flexirack with the white gear along the length of the table (see arrow at right), removing the pink protective layer and pressing down on the blue Flexirack while moving down the entire length of the table.

5. Double check the alignment of the carriage white gear with the blue Flexirack by rolling the carriage along the entire length of the table.

6. Trim the Flexirack to length using a knife or wire cutters if necessary (the blue Flexirack does not necessarily need to extend the full width of the table and can actually be a couple of inches shorter on either end, if desired).

7. At the ends of the blue rack, use the four small metal clamps (see Parts List, item B) to hold the ends firmly in place. The clamps have a hole through the center and a lip on one end. The lip should be on the side opposite the blue Flexirack. Drill pilot holes using the 3/32-inch drill bit and then attach the clamps as shown on either end of the blue Flexirack using a Phillips screwdriver.

⚠️ **CAUTION:** Do not use the larger drill bit included in the emergency repair kit, as this is the wrong size for the X-rack clamps.

📌 **NOTE:** As an alternative, use one clamp at each end. Slide the lip of the clamp over the last gear of the blue Flexirack, drill a pilot hole, and screw in place.
To install the Y-Rack

1. Carefully lay the quilting machine on its power pod side (the left side, looking from the front).

Underneath the base plates, near the wheels on the C-pod side of the machine (the side with the thread tensioner and guides) there will be either two screws or two holes. If the screws are there, use a large flat screwdriver to remove the screws.

2. Attach the Y-Rack to the bottom of the front and rear base plates. The blue Flexirack should be toward the middle of the machine while the bolt holes should be toward the outside. Use the screws that were removed from the front and rear base plates (or use the two smallest screws in the Base Plate Repair Kit [see Parts List, item D] if your machine had no screws here). If your Y-Rack included 1/8-inch shim washers, place them between the Y-Rack and the machine base plates as shown and gently tighten the screws. If no shims were attached to your Y-Rack, then shim washers are not necessary.

⚠️ CAUTION: Be careful not to over-tighten the screws as the base plate holes will strip easily. In case of accidentally cross-threading or stripping one of the base plate holes, an emergency repair kit (see Parts List, item D) has been provided.

3. If the screws in the base plates do not have slotted heads and a nut driver cannot be fitted over the screw head, use one of the provided slotted screws as a replacement (see Parts List, item D) and use a slotted screwdriver to tighten the screws in place.
Y-Encoder Assembly Installation (HQ Sixteen only)

Follow the installation guidelines below according to the scenario below (A, B, or C) which describes your situation best.

A. The HQ Pro-Stitcher is an upgrade to a stitch-regulated HQ Sixteen

1. Determine which Y-encoder your HQ Sixteen has. If you have either of the two Y-encoders pictured at the right (Version 2 or Version 3), you do not need to replace the Y-encoder. However, if your Y-encoder is different from the ones pictured, you have a Version 1 Y-encoder and will need to continue with steps 2 through 5 below.

2. Place the HQ Sixteen on its side. Remove the encoder bracket mounting bolt using a 7/16-inch wrench and removing the bolt and bracket that attach the wheel to the rear base plate.

3. Replace the old encoder assembly with the encoder which is provided with the HQ Pro-Stitcher (see Parts List, item R), making sure to put the wheel back in place between the nut and the base plate.

4. Tighten the bolt in place with the 7/16-inch wrench. Use the nut to tighten the wheel to the base plate and then, while holding the nut in position with the wrench, tighten the bolt head with another 7/16-inch wrench or nut driver to the point that the encoder bracket can still spring up and down but is not excessively wobbly.

5. Reposition the coil spring between the encoder bracket and the bottom of the base plate. The encoder bracket has a tab that the spring goes around and the base plate will either have a nub built into the casting or a small plastic device designed to entrap the opposite end of the spring.
B. The HQ Pro-Stitcher is an Upgrade to a Non-Regulated HQ Sixteen

- Follow the instructions for attaching a new Y-encoder assembly that came with the Stitch Regulator Upgrade Kit.

C. The HQ Pro-Stitcher was originally purchased with a new HQ Sixteen

- No additional installation is required. The correct Y-axis encoder assembly should already be attached to the HQ Sixteen.

Install the power cord retaining clamp (HQ Sixteen only)

1. Set the HQ Sixteen back up on its wheels and make sure it is unplugged.

2. Remove the four P-Pod mounting screws from the P-Pod (the plastic box on the left side of the HQ Sixteen which contains the power cord receptacle) using a Phillips screwdriver. Note that the bottom-left screw is longer than the other three.

3. Carefully disconnect all three cables from the P-Pod.

4. If working with an upgrade that included a new P-Pod, continue the following steps using the new P-Pod. Otherwise use the P-Pod that was just removed as you perform the remaining steps.

5. Loosen the two screws that mount the power cord receptacle to the plastic P-Pod using a Philips screwdriver and, if the screws include nuts on the opposite end, a wrench or small pliers to hold the nut (the two Phillips head screws are accessible from the exterior of the pod while the nuts are on the interior).

6. Slide the retaining clamp (see Parts List, item R) over one end of the new Y-split power cord (see Parts List, item I).

7. Insert the power cord into the receptacle on the P-Pod while sliding the two slots on the clamp behind the two screws that were just loosened.

8. Make sure the power cord is fully inserted, and then tighten the two P-Pod screws so they hold the clamp securely against the P-Pod. Insert the small screw included with the retaining clamp into the clamping portion of the retaining clamp and tighten so the clamp is now tight on the power cord.

9. Reconnect the three P-Pod cables and then reattach the P-Pod to the HQ Sixteen head. (Remember that the long screw should be in the bottom-left hole.)
C-Pod Replacement (HQ Sixteen only)

Some kits will come with a new C-Pod. If the HQ Sixteen was purchased with the HQ Pro-Stitcher, there is no need to install a new C-Pod. Also, any HQ Sixteen stitch-regulated system running version 8.04 or later does not require a C-Pod upgrade. The C-Pod screen identifies the version as it boots up.

⚠️ CAUTION: To prevent damage due to electrostatic discharge, use a grounded wrist strap. If a wrist strap is not available, discharge any electrostatic energy on your body by touching any exposed metal (non-painted) portion of the HQ Sixteen prior to and several times during this procedure.

1. Remove the C-Pod from the HQ Sixteen head by removing the four mounting screws with a Phillips screwdriver.

2. Carefully disconnect all cables from the C-Pod, taking care not to touch the bare circuit board.

3. If the new C-Pod includes a Lock Board, skip ahead to step 7.

4. Remove the black Phillips screw that holds the lock board in place on the old C-Pod circuit board.

5. On the old C-Pod (the one just removed from the HQ Sixteen), gently pull upward on the lock board to remove it from the old C-Pod and press it firmly in place on the new C-Pod. Make sure both rows of pins enter the header on the underside of the Lock Board. The red LED should be located at the top right when looking into the C-Pod.

6. Lightly hand-tighten the black Phillips screw through the Lock Board.

7. Attach the internal cables to the new C-Pod.

8. Fasten the C-Pod to the head using the four screws that were removed in step 1.
Set Up the New Carriage

1. Place the Pro-Stitcher carriage in place on the table tracks if it is not already there.

⚠️ IMPORTANT: If a new set of black wheels was purchased to replace the metal wheels on the quilting machine, please be sure those are installed prior to placing the quilting machine on the Pro-Stitcher carriage. You should not have metal wheels on metal tracks.

2. Carefully lift the quilting machine and place it on the carriage so the wheels engage the carriage tracks (this is easier to do with two people – one at each end of the quilting machine).

3. The Y end of the power cord that is not attached to the P-Pod should be attached to the power supply at the back end of the Pro-Stitcher carriage.

4. Attach one end of the harness cable (see Parts List, item P) into the connector on the right side of the power supply. Tighten the side screws. You will plug the other ends to the bracket as part of step 6 when you attach the tablet computer.

   ![Power cord connection](image1.png)

   ![Harness cable connection](image2.png)
5. Verify that the y-axis gear engages the blue Flexirack for the y-axis.

   • Do this by looking from the back of the machine between the bottom of the quilting machine and the top of the carriage. If necessary, use the manual engagement/disengagement tool to move the gears so they engage.

   • If horizontal adjustment is needed to ensure that at least half the white gear and blue Flexirack are interlocking, loosen the two screws that mount the y-axis bracket to the base plates and push the bracket in the direction necessary while retightening the screws.

   • Both screws can be adjusted with the quilting machine on the carriage. Pull the machine to the front to access the front screw and to the rear to access the rear screw.

   • Pull the quilting machine to the rear of the carriage and make sure the rear of the Y-axis bracket does not collide with the black plastic track retainer on the rear of the carriage. Adjust the Y-bracket if needed.

  🚫 IMPORTANT: If necessary, use the manual engagement/disengagement tool to move the gears so they engage. Insert the end of the tool into the hole at the front of the EZ Carriage.

6. Plug one end of the stitch-regulator cable into the rear carriage encoder, and plug the middle connector on the gray stitch-regulator cable into the Y-axis stitch regulator encoder (the stitch regulator encoder mounted to the rear machine wheel).
7. Route the final section of the stitch regulator cable around the back of the quilting machine and plug the 9-pin D-sub connector into the C-Pod.

8. The black cables attached to the HQ Pro-Stitcher carriage should be routed up between the rear handles and the quilting machine, toward the right-hand side of the machine (looking at the machine from the back). Place the cable clips as shown and route the cable accordingly.

The small black cable with the black 3-connector clip should be routed underneath the P-Pod and snapped into the Stitch Regulator Adapter Board (see Parts List, item R) or the 3-pin connector on the V3 encoder board.

**NOTE:** This image shows the Version 2 encoder and adapter board. The Version 3 encoder does not require an adapter board.

9. With the power cable plugged in and the motors in the engaged position (use the manual engagement/disengagement tool if necessary), ensure that as the HQ Sixteen is moved in both the X and the Y directions that the corresponding gears are rotating as well.
To attach the tablet computer

1. Remove the front handlebar from the front of the quilting machine, making sure to first disconnect the handlebar D-cable from the side of the head and then remove the three \textit{(or two if the handlebar is the HQ Sixteen tilt-screen version)} hex-head bolts with a 5mm Allen wrench.

2. \textbf{For HQ Sixteen Tilt-screen Handlebars:} Remove the adapter plate that is held in place with one hex-head screw and is revealed after pulling the front handlebar off the HQ Sixteen.

3. Place the black computer bracket \textit{(see Parts List, item F)} on the head so the three holes of the bracket line up with the three holes in the head.

4. \textbf{For HQ Sixteen Tilt-screen Handlebars:} Secure the bracket in place by placing the adapter plate on top of the bracket and securing with the short bolt through the hole on the left.
   a. Put the two long bolts in position without the handlebar in place just to ensure that when tightening the short bolt, the long bolts will go through.
   b. Once the short bolt is tightened, remove the two long bolts and position the front handlebar over the adapter plate.
   c. Secure the front handlebar in place with the two long handlebar bolts.

5. \textbf{For HQ Avanté and HQ Sixteen non-tilt-screen handlebars:} Position the handlebar over the bracket and secure the handlebar and bracket in place using the three handlebar bolts.
6. The black cable has three connections – two 9-pin serial connectors and one barrel connector for power.

Insert the barrel connector into the center jack (B) located on the bottom edge of the black box that is mounted to the back of the computer bracket. Attach the two 9-pin serial cables to the appropriate ports on the back of the same box, making sure cable connectors are plugged into their corresponding ports on the black box.

7. Remove the computer from its packaging. Install the computer into the computer bracket by sliding it into the black bracket from the side.
8. With the computer installed in the bracket, connect the USB short cable (see Parts List, item M) between the USB port, on the top-left side of the computer (position A) and the black box on the back of the bracket (position E).

9. Also connect the computer power cord (see Parts List, item N) between the computer (position B) and the black box (position C).

10. The open USB ports on the black box (position F) are for plugging in the USB Flash drive to load designs or update the software, or for plugging in a keyboard or mouse.

⚠️ IMPORTANT: The tablet shown is the Acer W700 series tablet. Your tablet may be a different make or model. Connect the USB and power cables in their proper location based upon your make and model of tablet.
To turn on and shut down HQ Pro-Stitcher

Check that the power cord is plugged into the power supply located at the back of the carriage. Then plug in the barrel-shaped power connector to the bottom of the black box behind the computer and the short power cord from the black box to the computer. If the cable is unplugged, the computer will continue to run on battery power until the charge has been used up.

To turn on HQ Pro-Stitcher

• Press the power switch, usually located at the top-right side of the tablet computer.

To shut down HQ Pro-Stitcher

• Choose Shut Down from the Pro-Stitcher menu. Then choose the Shutdown button at the bottom of the screen. This shuts down both the Pro-Stitcher software and the tablet computer.

Salir del programa de profección de piernas por computadora

• Choose Shut Down from the Pro-Stitcher menu. Then choose the Shutdown button at the bottom of the screen. This shuts down both the Pro-Stitcher software and the tablet computer.

 여행 기록을 하기 전에

• Choose Shut Down from the Pro-Stitcher menu. Then choose the Shutdown button at the bottom of the screen. This shuts down both the Pro-Stitcher software and the tablet computer.

![ hottopic ]

IMPORTANT: If you don’t see the Shutdown button, press the power switch on the tablet computer to continue shutting down the Pro-Stitcher computer.

IMPORTANT: If you leave the Pro-Stitcher computer powered on with the power cord unplugged, the computer will begin running off battery power. The computer will shut down when no battery power remains.

IMPORTANT: If the Pro-Stitcher computer is left on for a long period of time, the screen may turn black and enter a sleep mode. Tap the screen or press the Windows button below the screen to turn on the screen again. It may be necessary to drag a finger upward on the start-up screen to access Pro-Stitcher.

IMPORTANT: Disable the auto-rotate feature for your tablet computer so that it only works in landscape, or horizontal, mode. Depending on your computer, you will do this by pressing a button on the top or side of the tablet computer or by using the Microsoft Windows Control Panel Display options. Refer to the owner’s manual that came with your tablet computer for more information.
Getting started with HQ Pro-Stitcher

To move the quilting machine after the software has been loaded

- To move the quilting machine after the software has loaded, the motors should be disengaged. Press the Disable Motors button in the upper-right corner of the screen to disengage the motors. Note that the button changes to say Enable Motors.

If you have the EZ Carriage, use the options on the Freehand screen to alternate between computerized quilting and free-motion quilting.

- Choose Design, then Freehand. Select the Free Motion button. Pro-Stitcher automatically raises the quick-release levers to disengage the carriage gears from the Flexirack. Select the Engaged button to once again use Pro-Stitcher for computerized quilting.

If you have a carriage with levers

⚠️ IMPORTANT: If you have a carriage with levers, you will need to manually raise the levers for free-motion quilting and lower the levers for computerized quilting with Pro-Stitcher.

When the carriage levers are up (pictured), the carriage gears are disengaged from the Flexiracks. Do this for free-motion quilting.

To use the USB flash drive

- A USB flash drive is included with the Pro-Stitcher and is pre-loaded with more than 180 designs. These designs have also been loaded to the drive on the tablet computer, so the USB flash drive is the backup copy of the designs.
IMPORTANT: It is not necessary to power down Pro-Stitcher to install or remove the USB flash drive, but take care not to remove the flash drive while the system is saving to or loading from the drive.

To use an external keyboard

An external keyboard is helpful when using Art & Stitch on the Pro-Stitcher computer. Use a keyboard and mouse (wired or wireless) by attaching them (or the wireless transmitter) to one of the USB ports on the black box behind the computer.
4. HQ Pro-Stitcher® Overview

HQ Pro-Stitcher runs on a touch screen computer with Microsoft® Windows 8 operating system. Because Pro-Stitcher runs in a Windows environment, you may notice things such as the Windows desktop. If you’re unfamiliar with the Windows operating system or computers in general, you’ll benefit by taking a class or finding other ways to learn more about the basics of Windows 8.

To maintain the integrity of the Pro-Stitcher software, avoid using the Pro-Stitcher tablet computer except when running Pro-Stitcher. For example, if the computer is connected to the Internet, Windows may perform operating system updates that could potentially be incompatible with Pro-Stitcher. It also may expose the computer to viruses and other malware that may compromise the system or lead to other problems that may not be covered by the warranty.

To get the most from using Pro-Stitcher, Handi Quilter recommends using the Pro-Stitcher computer only as directed to run the Pro-Stitcher software, the Art & Stitch software, and other software provided by or recommended by Handi Quilter.

**Handlebar control**

Pro-Stitcher communicates with the quilting machine and the carriage motors.

- If you use Pro-Stitcher with the HQ Sixteen, use the Switch to Handlebar Control button to alternate between using Pro-Stitcher and using the machine’s handlebars.

  ![Press to turn off communications to the HQ Sixteen.](image)

  ![Press to reestablish communications to the HQ Sixteen.](image)

- If the Switch to Handlebar Control button is gray with a lightning bolt, Pro-Stitcher is unable to communicate with the quilting machine. Press the button to reestablish communications.

  **NOTE:** If you use Pro-Stitcher with the HQ Avanté and the HQ Fusion, you have handlebar control even when Pro-Stitcher is communicating with the quilting machine. You will not see this button on the main screen. However, it is available on the Settings menu by selecting Advanced and then Communications.
Enable or disable the carriage motors

Press to lock the motors in position and keep the machine from moving.

Press to be able to move the machine around.

The Enable Motors button (top-right corner of the screen) enables you to switch between locking the motors in position (as long as the levers on the carriage are engaged in the lower position) and allowing the machine to be moved around. If this button becomes gray with a lightning bolt, Pro-Stitcher is not communicating with the carriage motors. Press the button to reestablish communications with the motors. Refer to the Troubleshooting section of this manual for further help.

Press to reestablish communications with the motors.

Overview of the HQ Pro-Stitcher screen

The Pro-Stitcher screen provides quick access to all functions.

Menu options

The left side of the screen shows the available menus: Design, Quilt, Settings, and Shut Down. The functions for these menu options are described later in this manual. At times there may be more functions available than can be displayed on the screen. To scroll through the functions, touch the function list and
drag your finger upward to slide the list up and reveal what is at the bottom. Touch and drag downward to scroll back up to the top of the list.

**Panel buttons**

Select a main menu option to see options for that function.

Buttons appear at the bottom and right sides of the screen according to which function is selected.

**Work Area**

The work area is the portion of the screen where you will load designs and work with them, in preparation for quilting.

The crosshairs represent the position of the quilting machine’s needle relative to the current design and will move as the quilting machine is moved when the carriage is engaged. For more information about how to engage the carriage, see *Freehand Menu* in chapter 5, *Design Menu*.

The size of the bounding box is the width and height of the widest and highest points of the current design.
A large green circle on the loaded design indicates the start point, a large red circle indicates the stop point, and the small green and red circles indicate the start and end points of jumps within the design. Purple dashed lines connect the small green and red circles to show the jumps, or no-stitch, lines.

### Selected vs. non-selected buttons

Some buttons (such as Grid and Ruler) are on/off, or toggle, buttons. Turn them on or off by touching them. Other buttons are either/or buttons and are turned off by selecting another button with the opposite action (such as Pan and Drag).

### Gray Buttons

Depending on the menu or sub-menu item selected, there may be certain buttons that are grayed out. A gray button indicates that this function is not currently available. This typically happens because you have started a function that must be completed first or that the grayed-out function is not possible within the selected function.

### Top toolbar buttons

Commonly used functions are across the top of the screen for easy access. They are available regardless of which menu option you have chosen.
Also visible at the top of the screen are the name of the current design file, the size of the design, and the position of the crosshairs. A letter appears next to the name of the current design file to indicate what type of design it is: (D) indicates it is a design; (G) indicates it is a grouped design; and (R) indicates it is a repeated design.

**To get on-screen help**

- Press **Help** and then press the button or menu option for which you need help to display the Help pop-up box. Exit Help mode by pressing the Help button again or pressing the Close button (red X).

**To cycle the needle up or down to form a half stitch**

The Half Stitch button cycles the needle either to the up or the down position based on the current position of the needle.

- Tap **Half Stitch** once to cycle the needle a half stitch.

**To cycle the needle to the up position**

The Full Stitch button cycles the needle a full stitch to the up position. If the needle is in the down position, it will move only a half cycle so it stops in the up position. Subsequent presses of the button, however, will cycle a full stitch, always ending with the needle in the up position.

- Tap **Full Stitch** once to cycle the needle a full stitch.

**To display the on-screen grid**

- Press **Grid** to turn the grid on or off.

Depending on the zoom level, the lines may indicate either one-inch or one-quarter inch gradations.
To quickly position the design and crosshairs on the screen

The Refresh button centers the design and crosshairs so both are visible on the screen. Refresh does not reposition the design relative to the quilt.

To move the on-screen view

Use Pan to move what you see on the work area. Pan does not reposition the design relative to the quilt.

- Select Pan and then drag your finger across the screen. The current view moves with the movement of your finger.

To view the design larger or smaller

Use Zoom to view the design larger or smaller. Zoom does not reposition or resize the design. If you have grid lines displayed on-screen, you’ll see the grid lines also shrink or grow as you zoom the design.

- To shrink the view of the design, select Zoom and then drag your finger in a downward or right-to-left motion. To enlarge the view of the design, select Zoom and drag your finger in an upward or left-to-right motion.

To move the design on the screen

- Select the design and press Drag. After pressing Drag, the button changes to Drop. Touch the design with your finger and drag the design to a new location. Then press Drop when the design is in place.

- Alternately press Drag and move the quilting machine to move the design. Then press Drop when the design is in place.
To select one or more designs

- Press Select to select one or more design in the work area. A series of buttons appears for selecting one or more design.

After you select a design, its name appears at the top of the screen.

To select a single design

- Select Single to select one design at a time. Touch any design in the work area or choose the name of the design from the pop-up that appears.

Pro-Stitcher displays selected designs with black lines in the work area. Designs that aren’t selected designs appear with gray lines.

To choose and group multiple designs

- Select Multi to select multiple designs. Then touch each design in the work area that you want to include in a grouped design. Then select Group to treat the selected designs as if they were a single design.

Pro-Stitcher gives the group a name and a number and displays the selected group in black with a bounding box around it. If you have created multiple groups, select the Group button and choose the group you want to work with from the pop-up box that appears.

If you Baseline a group, the designs are merged and the group is treated as a single design.

After creating a group, you will not be able to work with the designs individually. However, the following actions may be performed on a Group:

- Change the stitch order
• Give the group a name
• Perform actions such as Rotate, Align, Skew, and most other Design and Stitch menu options.

To name a group

![](rename_group.png)

• Select Name to enter a descriptive name for the group to replace the group number assigned by Pro-Stitcher. Use the keyboard that appears to enter a name and then select OK to save the name or Cancel to close the name box.

> **NOTE**: If the keyboard opens on top of the box for entering the name, move it by touching the top area of the keyboard and dragging it to a new location on the screen. Close the on-screen keyboard or name box by touching the Close (X) button in the upper-right corner. Alternately you can drag the name box to a new area on the screen in the same way.

To change the stitch order of multiple designs

![](stitch_order.png)

• Select Stitch Order to change the order in which the designs in the group are stitched. Choose one or more design and then touch the up and down arrows to shift the stitch order.

Jump lines between designs change as the stitch order changes.

To measure distances in a design or on the quilt

Use the Ruler to measure distances in a design or directly on the quilt.

1. Move the machine so the crosshairs, or the needle position, are at the starting point, or zero coordinate, of the section to be measured.
2. Press Ruler and move the machine to begin measuring. The ruler gives you the distance in the horizontal (x) and the vertical (y) directions, as well as the direct angular distance (represented by the triangle symbol).

3. Press Ruler again to turn off the ruler. To reset the ruler starting point, press Ruler to turn off the ruler and then turn it back on after you have moved the crosshairs to where you want to begin measuring.

Machine Quilting Tip: To measure a dimension longer than the available quilting space

Press Ruler and measure as far on the quilt as you can and mark where you ended with a pin. Enter the measurement into the calculator on your quilting machine. Press Ruler again to turn it off. Advance the quilt, making sure the pin is still visible. Press Ruler and measure the next segment, and use the calculator to add this measurement. Press Ruler to turn it off. Continue in this manner until you have the total measurement you need.

Crosshairs

The intersection of the horizontal and vertical crosshairs represent the position of the machine’s needle. By default, the Follow button isn’t selected and the crosshairs move when you move the machine. This means that the design remains stationary on the screen, but the crosshairs move.

If you select Follow, the crosshairs remain stationary in the middle of the display. As you move the machine, the design moves rather than the crosshairs.

Machine Quilting Tip: When to use Follow

Select Follow when you want to ensure that the crosshairs remain in view when you have zoomed a design. This saves you from having to use Pan to find the crosshairs. It is also helpful to enable Follow when you stitch a wide design because you can both zoom in on the design and always see what is being stitched on the screen.

Pro-Stitcher automatically turns off Follow after you select a new design.
6. Art & Stitch

Art & Stitch is comprehensive quilting-design software for creating and modifying quilting designs. It is included with Pro-Stitcher. Pro-Stitcher can pass designs quickly and easily into Art & Stitch so you can use any of the Art & Stitch tools to modify the design however necessary. Art & Stitch automatically loads and runs in the background when Pro-Stitcher starts, so passing files from HQ Pro-Stitcher to Art & Stitch happens very quickly.

To pass a design to Art & Stitch

1. Select Design, and then Art & Stitch. Press Open screen to open the Art & Stitch software. If Art & Stitch is open and has been licensed, the design will open in Art & Stitch.

   NOTE: If Art & Stitch has not yet been licensed, a licensing screen will appear for entering license information. You will not be able to save any changes to the design until you activate the Art & Stitch license. Follow the instructions in the Art & Stitch instruction manual for offline activation.

2. Press Close to bypass registration and open the design.

When the design is passed into Art & Stitch, the position information is maintained; as long as the design is not moved in Art & Stitch, it will be in the same location when it is passed back to Pro-Stitcher.

Pass the modified design back to Pro-Stitcher by pressing the Pro-Stitcher button on the Art & Stitch toolbar on the left-hand side of the Art & Stitch screen.

△ CAUTION: If a design is opened in Art & Stitch without using the Pro-Stitcher software and the Pro-Stitcher button is pressed to pass the design into Pro-Stitcher, the design will be saved in its current state with the same name it had when it was opened. This could lead to unintentionally...
writing over a design. **To avoid this, always save the design with a new working name when it is directly loaded in *Art & Stitch*.**

**Licensing**

When using *Art & Stitch* for the first time, the quilter must enter some information to activate the license. Refer to the instructions in the *Art & Stitch* software box for offline activation. All network connections have intentionally been disabled on the Pro-Stitcher computer to prevent the computer from downloading updates or viruses that would adversely affect the performance of Pro-Stitcher.

**Using a mouse or keyboard**

Many functions in *Art & Stitch* are much simpler when using a mouse and keyboard. When using the pop-up keyboard, it may be necessary to press an area on the screen where the text is to be entered before typing on the keyboard. While the pop-up keyboard is a quick keyboard solution, it may be more convenient to use a conventional mouse and keyboard. The Pro-Stitcher computer works with most wired and wireless USB keyboards and mice. Just plug the keyboard, mouse, or wireless dongle into an available USB port, wait a minute for Windows to install appropriate drivers, and then use the keyboard or mouse. A USB hub may be used to expand the number of available USB ports. Keyboards, mice, and USB hubs can be purchased from most electronics retailers.

**Updating Art & Stitch**

*Art & Stitch* may need to be updated to the latest version for Pro-Stitcher to properly pass designs back and forth. To download the latest version, use a computer that is connected to the Internet and go to the Handi Quilter website: (www.HandiQuilter.com).

**To update Art & Stitch**

1. Select **Downloads** and then **Pro-Stitcher Software Update**. Follow the instructions to download the latest version of *Art & Stitch* for Pro-Stitcher. After downloading this installation file, copy it to a USB flash drive and plug it into the HQ Pro-Stitcher computer.

2. Wait approximately 10 seconds for the Pro-Stitcher computer to set up the USB flash drive. Then select **Design**, **File**, and press **Update**.

3. Browse to the appropriate folder on the USB flash drive and double-tap the Art & Stitch installation file. The Pro-Stitcher software will close and the installation will begin.
4. If you are prompted to Repair or Uninstall the Art & Stitch software, it is best to uninstall first and then run the installation program again to install the new version.

**NOTE:** To access the file browser after the Pro-Stitcher software is closed, either attach a keyboard or press the keyboard icon at the top left-hand corner of the screen to open the pop-up keyboard. Press and hold the Windows key followed by the letter E to open a file browser to locate and then run the Art & Stitch installation file again.

5. After the new version of Art & Stitch is installed, reboot the Pro-Stitcher computer using the Windows Start menu from the bottom of the computer screen. Select either Shut Down or Restart to shut the computer down and restart.
5. Design Menu

The Design menu functions open, modify, position, and save quilting designs. Much of what you will do with Pro-Stitcher will be from this menu.

After you select Design, two clusters of buttons appear on the lower-left and lower-right corners of the screen.

Red dots mark the start of a jump, the point where Pro-Stitcher stops stitching so you can tie off the thread.

The purple dashed line shows the jumps (not stitched).

Green dots mark the end of the jump and the beginning of the next stitching segment.

The four buttons in the lower-left corner of the Design screens turn on or off the display of a portion of the design.

Select to show or hide the design.

Select to show or hide the jump points.

The four buttons in the lower-right corner of the Design screen help to keep track of changes made to the design.

Select to undo the last function performed.

Select to redo the last function that was undone.

Select to baseline a design, or have the software treat it as a new design.

Select to see a list of the functions that have been performed since opening a design.

**Design history**

- Press **History** to show a list of the functions that have been performed since opening a design.
To clear the history of recent functions

- To clear the history of recent actions, select **Clear History**.

After clearing the history, the history is gone and you will not be able to Undo or Redo previous actions. As you perform new actions, they are added to the history and the Undo and Redo buttons will work on those actions.

**Baseline**

Pro-Stitcher has very flexible design capabilities. Each function you choose is reprocessed and reapplied when the next function is performed. For example, you can skew a design to fit an area and then rotate the skewed design. The design continues to skew as it rotates to keep it within the area.

The baseline feature enables you to freeze the design at any point in the design process, essentially freezing all of your design choices. The design isn’t saved to the computer, but the resize, rotation, and crop settings are maintained until you change them.

**To baseline a design**

- At any point in the design process, select **Baseline**.

After you baseline a design, you will not be able to use any of the design reset buttons to return the design to its original settings. However, you will be able to use the Undo or Redo functions based on the design history.

After you baseline a group, the designs are merged and the group is treated as a single design. You will not be able to work with the designs individually.
Machine Quilting Tip: Practical uses for Baseline

Use the Baseline function to stitch a quilt with multiple, identical blocks. Mark the area of the first block, fit the design to the block using Skew or other functions to modify the design, and then baseline the design. Quilt the block. Clear the Area. The design will maintain its size and shape. Reposition the design to another block and quilt the design. Continue quilting the baselined design on the blocks throughout the quilt.

Use Baseline when you want to crop multiple shapes from a design. Mark and crop the first area, and then select Baseline. Clear the area and create a new area in another location for cropping. Continue to mark and crop as desired, followed by selecting Baseline after each crop to create multiple cropped regions in a design.
To work with design files

Pro-Stitcher reads five file types: .hqf, .hqv (vector file format), .hqp, .qli, .txt, and .tap. Pro-Stitcher can also read .hqx encrypted files, provided you use a key code that is unique to your HQ Pro-Stitcher computer. You will need this code when you purchase the encrypted .hqx designs.

To find the key code for encrypted files

- Select Settings, Advanced, About. A pop-up box with the key code then appears on the HQ Pro-Stitcher screen.

Open, close, save, and duplicate design files

To access recently used designs

- Choose Recent to see a list of the most recent designs you have opened. Then select the design you want to use.

This shortcut enables you to open recent designs without searching through the design library.

To load a design from the design library

1. To load a design, select Design, File, and then select Open.

2. Browse to the design stored either on the C: drive or on a USB drive. The different design file types have color-coded backgrounds as follows:

   - * .hqf: beige
   - * .hqv: green
   - * .hqp: purple
   - * .qli: light blue
   - * .txt: lavender
   - * .tap: pink
Loading the thumbnails may take a few moments, depending on how many designs are stored in the selected folder and how intricate those designs are. While the thumbnails load, a colored block with the name of the file type will be visible in place of the actual design thumbnail.

3. Double-tap the name of the desired file or single tap and then press **Open** to load the design. A prompt to Clear Area appears on-screen. Choose **Yes** to clear any area you have defined or **No** to leave the area as designated.

**Designers Showcase**

Pro-Stitcher comes with a large library of quilting motifs from digital quilt motif designers. Select **Designers Showcase** and then select the designer’s name to see the motifs. Then choose the design you want to use and select **Open**. These designs are in a vector file format, .hqv. If you save the design, either to a new name or overwrite the existing .hqv file, Pro-Stitcher changes it to an .hqf file format.

**To save a design**

Pro-Stitcher prompts you to save your work when closing the software or closing a design. However, it is a good idea to save your work regularly.

- Press **Save** to save the design in its current state. The design library appears with the name of the current design loaded.
- To overwrite the existing design with that name, press **Save**.
- To save a copy of the design to a new name, enter a new name using the pop-up keyboard and then press **Save**.
- To cancel without saving the design, press **Cancel**.

**To save a group as a design or a project**

You can save a group of designs as a design or as a project. If you save a group as a design, Pro-Stitcher creates a single design. When you load it again in the future, you will not be able to work with the designs independently.
• To save a group as a design, select the group, select Save and then select Design before giving it a filename and saving.

If you save a group of designs as a project, Pro-Stitcher saves each design independently so that when you load the project again, you will be able to modify the designs individually.

• To save a group as a Project, select the group, select Save and then select Projects. Give the group a file name and select Save on the Save Project screen.

**To save designs or projects to a new folder**

• To save the design or project to a new folder, browse to the desired folder using the folder tabs on the left side of the design library. Alternatively, use the navigation buttons at the top of the screen to move among folders and drives.

**To duplicate a design**

• Select the design or group you want to copy and choose Duplicate.

The duplicated design is placed at the current position of the crosshairs. If the crosshairs have not been moved, the duplicate(s) will be in exactly the same place as the original. Choose Reposition or Drag to move the duplicated design to a different location in the work area. Alternately, select the design or group and drag it to a new position on the screen.

**To view design information**

Many designers include copyright information and instructions on how to use their designs within the design file itself.
• To view design information, load the design file and press **Copyright**. A pop-up window displays the information contained within the design file related to copyrights and user instructions.

**To load a Pro-Stitcher software update**

As updates for the Pro-Stitcher software become available, download the updated file from the Handi Quilter website, www.HandiQuilter.com.

• Select the **Downloads** link at the top of the page. Then select **Pro-Stitcher Software Update**.

Follow the instructions for downloading the latest update, save the update file to a USB flash drive, and plug the USB flash drive into a USB port on the Pro-Stitcher computer. Wait for approximately 10 seconds while Pro-Stitcher accesses the USB flash drive. Follow the instructions included on the website for installing the update.

**To return a design to its original settings**

Many settings in Pro-Stitcher remain set even after other operations are performed. For example, you might rotate a design, repeat it multiple times, resize it, and more.

• To turn off design changes you’ve made since the last baseline, press **Reset All**.

If a new design is loaded or you baseline the design, Reset All is automatically performed.
Create and use areas

A quilting area is a portion of the Pro-Stitcher screen that represents an area on the quilt. Within this area, you can place designs, repeat them, stretch them, skew them, crop them, and so forth, knowing that everything within the defined area on the screen will match up with the corresponding area on the quilt.

Create an area at any point during the design process. You can create only one area at a time.

To clear an area

- Select Area on the menu, then select Clear.

Areas can be a simple rectangle, created by identifying two opposing corners (2-corner areas), or they can be more complex, unique shapes, created by plotting multiple points (multi-point areas). The area is fixed in position once it is defined and cannot be moved.

To move or adjust an area, first clear the current area and then recreate it. To fit the area within the work area of the screen, use Zoom.

To create a rectangular area using 2 Corner

1. Move the quilting machine so the needle lines up with one corner of the desired area on the quilt. (It may be necessary to press the Disable Motors button at the top-right corner of the screen.) Then press 2-Corner.
2. A purple dot displays on the screen to indicate the first corner. Move the quilting machine so the needle lines up with the opposite corner of the desired area on the quilt.

3. Select **2-Corner** again. A purple rectangle indicates the quilting area.

**To override the width or height of an area**

The width and height of the area appear in the number boxes on the screen. You can modify these values to create an area beyond what the quilting machine can reach.

- Touch either the **Area Width** number box or the **Area Height** number box, enter a new value in the number pad that appears, and then press **Enter**. After you enter a value in either box, the area converts to a rectangle with the new dimension(s).
Multi-Point

For more complex areas, use Multi-Point to mark multiple points to create triangles, hexagons, octagons, or any shape with three or more points.

To create an area with multiple points

1. Move the quilting machine so the needle lines up with one corner of the desired area on the quilt. It may be necessary to press the Disable Motors button at the top-right corner of the screen. Press Multi-Point.

2. Move the machine to a second point along the perimeter of the quilting area and press Multi-Point again. A purple line joins the two marked points.

3. Move the machine to a third point along the perimeter of the quilting area and press Multi-Point. Pro-Stitcher automatically closes the shape back to the first point when the third point is marked, creating a purple triangle to indicate the multi-point area.

4. Mark other points as desired to create a detailed quilting area.

To keep track of how many points you have marked

- The Point Count box displays how many points you have marked. When you clear the area, the point count goes back to zero.
Rotate designs

- Select **Design** and then **Rotate** to see the options for rotating designs.

![Diagram of Design Menu with Rotate options explained](image)

- **Number box**
  - Flips the design vertically.

- **Flips the design horizontally.**

- **Reset the rotation back to zero.**

- **Rotates the design**
  - 45° clockwise or counterclockwise.

- **Rotates the design 1° or 0.1° clockwise or counterclockwise.**

Original design

Design rotated 45° clockwise

Design rotated 45° counterclockwise
In addition to using the rotation buttons, press the number box and enter a rotation value on the number pad. Enter a positive number to rotate the design clockwise or a negative number to rotate the design counterclockwise.

2-Point Rotation

2-Point Rotation uses the quilting machine to identify a line that represents the rotation angle. You’ll set a start point and an end point to create a line that represents the angle to which the design will align.

To rotate a design according to an angle on the quilt

1. Move the quilting machine to a point on the quilt left of the line to follow and press 2 Point Start. Note the position of the crosshairs in the image at the right.

2. Move the machine to a point further to the right along the angled line. Note the position of the crosshairs in the image at the right.
3. Select 2 Point End. The design rotated to match the angle created by the two points selected in steps 1 and 2.

The rotation angle appears in the number box and the design rotates to match the angle, -49.10 degrees in this example.

**Machine Quilting Tip: Use 2-Point rotation to quilt sashing in an on-point quilt**

Create an area that represents the sashing to be quilted. Load the design and make design changes, such as resize and create repeats. The design will be horizontal on the screen. Then use 2-Point rotation to rotate the design to match the quilt. Position the machine’s needle along the angled sashing seam line and select 2-Point Start. Move the machine’s needle to a spot along the same seam line and select 2-Point End. The design rotates to match the angle you defined.

**To fine tune the angle of rotation**

- Redefine either the start point or the end point as necessary by moving the quilting machine to a new location and pressing either **2 Point Start** or **2 Point End**, depending on which end of the line needs to be repositioned.

**NOTE:** A start point on the left followed by an end point on the right (i.e. a straight line with start on the left and end on the right) is a 0° rotation, or no rotation. A start point on the right and an end point on the left (i.e. a straight same line, but with the start and end points reversed) is a 180° rotation, or in other words, the design will be upside down.
Rotation of repeated designs

Repeated designs can be rotated individually or treated as a single design and rotated as a set.

To rotate repeated designs individually

Before rotating, select **Single**. Then select one of the rotate buttons. Each individual design will be rotated (or mirrored or flipped).

To rotate repeated designs as a group

Before rotating, select **Group**. Then select one of the rotate buttons. The entire set of repeated designs is rotated (or mirrored or flipped) as a single entity.
Crop Menu

Use Crop menu functions in conjunction with areas. After modifying a design as needed, mark an area that represents the region to be cropped.

- Select **Design** and then **Crop**.

⚠️ **NOTE:** If the Crop panel buttons at the bottom of the screen are grayed out, an area hasn’t yet been defined. Define the area to be cropped before using any of the Crop functions.

Treatment of loose ends

Pro-Stitcher has two ways of handling loose ends, or jump points, that are created from a crop: Open or Closed.

**To perform a tieoff at jump points**

- Choose **Open** to perform a tieoff at the jump points in a cropped design. Select **Tie Off Start** and **Tie Off Finish** in Settings. For more information about the tieoff settings, see *Control how Pro-Stitcher performs tie-offs* in chapter 8, *Settings Menu*.

**To stitch between jump points**

- Choose **Closed** to stitch along the border of the cropped area between jump points in a cropped design.

  **Machine Quilting Tip: To stitch around the cropped area**

  The Closed option may not stitch the entire area outline. Consider using Trace Outline to stitch around the perimeter of the area.
Crop designs based on areas or start and end points

To crop everything outside the defined area

- Select **Outside** to crop away everything outside the defined Area and keep everything within that Area.

To crop everything inside the defined area

- Select **Inside** to crop away everything inside the defined area and keep everything outside the area.

To isolate and crop a portion of a design

Use Crop Start-End in conjunction with New Start/End points (on the Quilt menu) to isolate a part of a design for quilting. Pro-Stitcher crops any of the design before the start point and after the end point.

1. Load a design, such as the continuous bunny and stars e2e.hqf design.

2. Select **Quilt** and then **New Start/End**.

3. Use the slider bars and arrows to change the start and end points.
4. Select **Design** and then **Crop**.

5. Select **Start-End** to crop away the design before the start point and after the end point. Save the design to a new file name so you can use it again in the future.
Repeat Menu

The Repeat Main function provides several options for repeating a design.

- Select Design, Repeat, and then Main.

The Repeat Wrapping function provides several options for wrapping, or offsetting, designs. Most of these options can be done with or without a defined area.

- Select Design, Repeat, and then Wrapping.

Using a defined area in conjunction with the Repeat options will stretch, skew, or fit the desired number of repeats within that area. If an area has not been defined, the options to stretch and fit will be disabled because they require an area to stretch or fit to.

Repeat Main

To repeat a design

- Press the Plus Sign (+) to increase the number of times you want to repeat a design. To decrease the number of repeats that appear on-screen, press the Minus Sign (–).

- Alternately, tap on the number box and enter the desired number of repeats into the pop-up number box. Then press Enter.

**NOTE:** If the repeated design includes jump points, Pro-Stitcher preserves them when you save the design.

To change the size of the gap between repeated designs

- Enter a value (in inches) in either the Horizontal Distance box or the Vertical Distance box to increase the size of the gap between repeated designs. To overlap the designs, enter a negative value.
To stretch a design to fill an area

You can stretch a design to fit either the width or the height of an area.

• First define an area and then choose either the Stretch Width or the Stretch Height button.

To calculate the optimal number of repeats for an area

• Press Fit to have Pro-Stitcher calculate the optimal number of repeats in both height and width. Add more horizontal or vertical repeats, and then select Stretch Width and Stretch Height to fit them to the area.

Point 2 Point

Some designs are intended to be linked together horizontally or vertically but must be overlapped for the start and end points to match up. The Point 2 Point buttons link the start and end points of repeated designs. The following image shows the design before selecting Point 2 Point.

To join horizontally repeated designs

• To link designs horizontally, ensure the start and end points are at the same height, or vertical coordinate. Then select Horizontal Point 2 Point to align the designs such that the end point of the first design matches up with the start point of the next design.
To join vertically repeated designs

- To link designs vertically, ensure the start and end points are at the same horizontal coordinate. Then select **Vertical Point 2 Point** to align the designs such that the end point of the first design matches up with the start point of the next design.

⚠️ **NOTE**: To manually enter a distance value between the designs in either the horizontal or vertical distance box, you must first turn off Point 2 Point.

**Repeat Wrapping**

Use the wrapping options in conjunction with repeated designs. The options enable you to shift rows or columns of repeated designs, or offset the entire design window. Typically you will wrap either a row or a column, but not both.

- On the Design menu, select **Repeat**, then select **Wrapping**.

**Repeated Baptist Fan design has been joined vertically and horizontally with Point 2 Point.**
To wrap rows

- To shift every other row of repeated designs (beginning with the second row) by half of the width of the design, select the 1/2 button.

- Select the right arrow button to shift the row to the right by 1/8 inch. Select the left arrow button to shift the row to the left by 1/8 inch.

- Or touch the number box under Row and use the number pad to enter a decimal value to offset rows. For example, to move every other row by one inch to the right, enter 1. To move every other row by one inch to the left, enter -1. After you select Enter, the rows shift accordingly.

To wrap columns

- To shift every other column of repeated designs (beginning with the second column) by half of the height of the design, select the 1/2 button.

- Select the up arrow button under Column to shift the columns up by 1/8 inch.

- Select the down arrow button under Column to shift the columns down by 1/8 inch.

- Or touch the number box under Column and use the number pad to enter a decimal value to shift columns. For example, to move every other column up by one inch, enter 1. To move every other column down by one inch, enter -1. After you select Enter, the columns shift accordingly.
**To horizontally wrap the design window**

Choose from the options along the bottom of the screen to specify how to wrap the designs window horizontally.

- To shift all rows horizontally by half of the width of the design, select the **1/2 button**.

- Select the **right arrow** button to shift all rows to the right by 1/8 inch.

- Select the **left arrow** button to shift all rows to the left by 1/8 inch.

- Or touch the number box under Window and use the number pad to enter a decimal value to shift the repeated designs. For example, to move all rows by one inch to the right, enter **1**. To move all rows by one inch to the left, enter **-1**. When you select **Enter**, the rows all shift accordingly.

**To vertically wrap the design window**

Choose from several Window options along the right side of the screen to specify how to wrap the design window vertically.

- To shift all rows by half of the height of the design, select the **1/2 button**.

- Select the **up arrow** button to shift all rows up by 1/8 inch.

- Select the **down arrow** button to shift all rows down by 1/8 inch.
• Or touch the number box under Window and use the number pad to enter a decimal value to shift the repeated designs. For example, to move all rows up by one inch, enter 1. To move all rows down by one inch, enter -1. When you select Enter, the rows all shift accordingly.

**To manually wrap the design window**

• To manually reposition the design, choose the Drag button. Use your finger (or move the machine) to drag the design to your desired wrapping position. The Drag button remains enabled and displays the word Drop; continue to fine tune by dragging the design. When you are happy with the wrapping position, select Drop.

**Treatment of jump points**

Choose between two ways of handling loose ends, or jump points, that are created from wrapping designs.

• Select Open to perform a tieoff at the jump points in a wrapped design. Tie Off Start and Tie Off Finish must be selected in Settings. For more information about the tieoff settings, see *Control how Pro-Stitcher performs tie-offs* in chapter 8, *Settings Menu*.

• Select Closed to stitch along the border of the area between jump points in a wrapped design.
Resize Menu

- To open the resize options, select **Design** and then **Resize**.

To resize a design

- Click one of the height or width buttons and then press the **Plus Sign** (+) to increase or **Minus Sign** (−) to decrease, or tapping the number box to directly enter the size (in inches).
• To stretch or shrink the design along the original X axis rather than how it is oriented on the screen, select the **Original Width** button (with the blue angled line) and then press the **Plus Sign** (+) to increase or **Minus Sign** (–) to decrease the size of the design.

**NOTE**: The Original Width and Original Height buttons are accessible only if a design has been rotated.

• To stretch or shrink a rotated design along its original Y axis rather than how it is oriented on the screen, select the **Original Height** button (with the yellow angled line) and then press the **Plus Sign** (+) to increase or **Minus Sign** (–) to decrease the size of the design.
Skew / Align Menu

After you create an area, use the skew and align options to fit the design within the area. The **Skew 1** option works with convex areas (e.g. triangles, rectangles, and hexagons) of three or more points. The **Skew 2** option works with concave areas (e.g. stars, crosses, or scalloped borders) of four or more points.

- Select **Design** and then **Skew/Align**.

**To horizontally align blocks within an area**

The align options work only with concave areas.
To vertically align blocks within an area

1. Load a design.
2. Create a triangle-shaped area using Multi-point.
3. Select Design, then Skew/Align.
4. Select the Horizontal Alignment Align Left button.

Align Top: Aligns the top of the design's bounding box with the top of the area (pictured).

Align Center: Aligns the vertical center of the design's bounding box with the vertical center of the area.

Align Bottom: Aligns the bottom of the design's bounding box with the lowest point of the area.

Vertical Stretch: Stretches or shrinks the design so the top of the bounding box aligns with the highest point of the area and the bottom of the bounding box aligns with the lowest point of the area.

To align a triangle design

1. Load a design.
2. Create a triangle-shaped area using Multi-point.
3. Select Design, then Skew/Align.
4. Select the Horizontal Alignment Align Left button.
5. Select the **Vertical Alignment Align Top** button.

To skew a design to fit a convex area

1. Load a design and then create a convex area, such as a diamond.

2. Rotate the design (Design, Rotate) to fit the area. This design was rotated 45 degrees.

3. Choose **Design, Skew/Align**. Select **Skew 1**. The design will skew to fit the area.
To skew a design to fit a concave area

Pro-Stitcher can skew a design to fit within a concave area, such as a cross or scalloped border.

1. Load a design, such as the Crosshatch Square. Rotate, repeat, crop, or resize the design as desired.

2. Use Area, Multi-Point to create an area that represents the concave area. This area maps to a portion of a scalloped border.

3. Choose Design, Skew/Align. Select Skew 2. The design will skew to fit the area.
Freehand Menu

Pro-Stitcher can record the movement of the quilting machine. For example, record your own all-over background designs across the width of the quilt. Or record your signature so you can quilt your signature into your quilts. This screen also enables you to quickly switch from using Pro-Stitcher to free-motion quilting.

- Select Design and then Freehand.

Depending on your Pro-Stitcher configuration, you will see a different screen.

If you have the EZ Carriage:

To switch to free-motion quilting

- Select the Free Motion button and free-motion quilt as desired. When you are ready to once again quilt with Pro-Stitcher, select Engaged.

If you have the manual-release carriage:

You’ll see this screen if you have an older version of the firmware running on your quilting machine. It looks and functions exactly like previous versions of Pro-Stitcher.
To switch to free-motion quilting

- Manually raise the levers to switch from using computer-guided quilting to free-motion quilting. To return to using Pro-Stitcher, manually lower the levers.

You’ll see the following screen if you have a newer version of the firmware running on your quilting machine (HQ Avanté or HQ Fusion only; does not apply to HQ Sixteen).

To switch to free-motion quilting

- Select the **Machine** button and free-motion quilt as desired. When you are ready to once again quilt with Pro-Stitcher, select **Motors**.

Record the movements of your freehand quilting

To record freehand motion

- Select **Record**. Begin quilting the design you want to record. When complete, select **Stop**. Save the design to the computer (select **File**, then **Save**).
Machine Quilting Tip: Add recorded stitching to an existing design

Load a design and position the crosshairs where you want to begin recording freehand motion. A stitching line connects the end point of the design and the position of the crosshairs when recording begins.

When adding to an existing design, Pro-Stitcher baselines the design and treats it as a single design when performing other design functions.

To mark and record straight lines

Mark is similar to Record, but instead of recording continuously as you move the machine, it records a straight line between each marked point.

1. Move the quilting machine to the point where you want to begin a straight line and select Mark.
2. Move the machine to where you want to end the straight line and again select Mark. Continue marking along the line, stitch the line, or save it as a design for future use.

Machine Quilting Tip: Record stitch-in-the-ditch quilting lines

Move the quilting machine to the beginning of the quilt ditch and select Mark to record the first point of the line. Then move the machine to another point further down the ditch and press Mark again. Continue marking points along the ditch to record straight lines between each marked point. The marked ditch design can then be stitched or saved to stitch at different places on the quilt.

To add jumps to your recorded design

At any point while recording or marking, insert a jump point into your design.

- Stop recording or marking, and then select Jump. Continue moving the machine, but no stitch lines will be recorded until you once again select Record or Mark. Jump lines display as dotted lines.

NOTE: Make sure the Auto Rotate function on the tablet computer is turned off. This ensures that the screen functions properly as you record the freehand motions.
Reposition Menu

The main way to reposition a design for quilting is to create an area based on your quilt and then to use the Reposition or Skew/Align tools to position the design relative to that area. However, you can use the reposition functions even if you haven’t defined an area.

**NOTE:** You can’t use the Skew and Align functions with the Reposition functions. For example, if you skew a design to a defined area and then select one of the reposition options, the Skew/Align settings are turned off (essentially resetting the design to its original shape) and the reposition action takes place.

**Machine Quilting Tip: To quilt a skewed design multiple times**

If you want to stitch a skewed design multiple times on the quilt, baseline the design (select the Baseline button in the lower right corner of the screen) and then reposition the design.

**To position a design to the intersection of the crosshairs**

- Move the quilting machine needle to a position on the quilt where the design is to be quilted. If you positioned the needle at the top-left corner, press the top-left corner button. Pro-Stitcher aligns the top-left corner of the design with the position of the needle and crosshairs. The bottom-left corner, top-right corner, and bottom-right corner buttons work the same way.
Positions the top-right corner of the design at intersection of the crosshairs.

Positions the bottom-right corner of the design at the intersection of the crosshairs.

Positions the bottom-left corner of the design at the intersection of the crosshairs.

Positions the center of the design at the intersection of the crosshairs.
To reposition a design based on the Home location

The Home location of a design is the point in the design where x=0 and y=0. It may be the start point of the design, but other times it may be in the middle or any other point in the design. Some digital designers use the Home location for positioning.

- Move the quilting machine needle to a position on the quilt where you want the Home location to quilt. Press the Home button to reposition the design relative to the Home location.

**Machine Quilting Tip: Quickly reposition a design to the crosshair position**

Use the Home button as a quick-and-dirty positioning tool. For example, if the design is off the screen because the quilting machine has been moved to a new location, press Reset to bring the design closer to the current crosshair position.

**NOTE**: The Home button is a repositioning tool. Do not select it if the design has already been positioned at the desired location.

To position a design based on the center point

- Move the quilting machine needle to the center point of the block or other area of the quilt. Press the **Center** button to center the design at the current needle and crosshair position.

To position a design’s start point on the quilt

- Move the quilting machine needle to the point where you want to begin quilting. Press **Start Point** to reposition the start point of the design with the current needle and crosshair position.

To position a design’s end point on the quilt

- Move the quilting machine needle to the point on the quilt where you want the quilting to end. Press **End Point** to reposition the end point of the design with the current needle and crosshair position.
To reposition a design up, down, left, or right

- To reposition the design a specific amount in any of the four directions, enter a distance (in inches) in the Nudge number box and then press the appropriate arrow to nudge the design up, down, left, or right. This is especially useful if you want to nudge the design in minute increments.

 **Machine Quilting Tip: To nudge the design in tiny increments**

By default the nudge distance is set to one tenth (.10) of an inch. To nudge the machine in smaller, more minute increments, change this value to one hundredth (.01) of an inch.

**Swap Start/End**

There may be times when you want to switch the quilting start and end points, such as when you rotate or flip a design and the start point is now at the right side of the design. Use the **Swap Start/End** option to do this.

**To swap the quilting start and end points**

1. Load a design.

2. Modify the design as desired. For example, perhaps you want this dinosaur design to quilt in the top border upside down.

3. Choose **Design, Swap Start/End**. Then select the **Swap** button. The start and end points will swap places.
7. Quilt Menu

The functions on the quilt menu enable you to quilt your designs. The Run button is available to start the stitching from any quilt function.

**Machine Quilting Tip: Set your stitch regulation to Cruise mode**

Handi Quilter recommends that before quilting you set the quilting machine to Cruise stitch regulation mode, at a percentage of 3 to 5%.

- After the design has been formatted, positioned, and is ready to be stitched, select **Quilt** and then **Run**. If everything looks good, press **Proceed** to begin stitching. Otherwise, press **Cancel**.

If you selected the option to Verify Settings before Quilting in the quilt settings, a pop-up Verify Settings box appears so you can double check the settings before stitching. For more information about turning on or off this option, see **To verify settings before quilting** in chapter 8, **Settings Menu**.

**To choose between stitching or tracing the design, bounding box, or area perimeter**

- Make sure the Stitch button is enabled (shown in a darker color) for the machine to stitch the quilt according to the selections you make. To disable stitching, press the darkened **Stitch** button. If the Stitch button is disabled, Pro-Stitcher traces the design, bounding box, or area perimeter with the machine but does not stitch. Select the **Stitch** button again to enable stitching.

**To immediately stop the machine from quilting**

- If you must immediately stop the machine while quilting, press **Emergency Stop**. Unlike Pause, which brings the machine to a gentle stop, the Emergency Stop button immediately stops Pro-Stitcher. To reduce the risk of a torn quilt in case the needle is stuck, Pro-Stitcher also disables the motors.
Before you stitch the design on the quilt

Before stitching any design, it’s a good idea to double check the position of the design relative to the quilt.

Machine Quilting Tip: Verify the position of the design relative to the quilt

Move the quilting machine needle to a location on the quilt. Select the Follow button in the top-right corner of the screen so the design will move as you move the machine. Look at the screen and confirm that the crosshairs match the desired position in the design. Do this for a variety of places on the quilt, such as the start and end points and the highest and lowest points in the design.

In addition to doing a manual check, use the two Trace options to verify the position of the design’s bounding box or the defined area relative to the quilt.

To verify the position of the design’s bounding box on the quilt

- Select **Trace Box** and then **Run**. Pro-Stitcher moves the machine around the perimeter of the design, following the blue bounding box. Watch the needle position as the machine traces the design’s bounding box to ensure the design will quilt where expected. If the Stitch button is enabled (appears darker), Pro-Stitcher stitches, rather than traces, the bounding box.

To verify the position of the defined area on the quilt

- Select **Trace Area** and then **Run**. Pro-Stitcher moves the machine around the perimeter of the defined area, shown as purple lines on the screen. Watch the needle position as the machine traces the area’s perimeter to ensure the design will quilt where expected. If the Stitch button is enabled (appears darker), Pro-Stitcher stitches, rather than traces, the perimeter of the area.

**NOTE**: If you’ve enabled the Stitch button to stitch rather than trace the bounding box or the perimeter of the area, you must manually do tieoffs at the beginning and end of stitching.
Move the quilting machine with Pro-Stitcher

The Move function moves the quilting machine in any of the eight directions indicated by the on-screen arrows.

To change the speed at which the machine moves

- Tap the **Plus Sign (+)** to increase the movement speed. Tap the **Minus Sign (–)** to decrease the movement speed. Or select the number box and enter a value (up to 50) in the number pad that appears and then press **Enter**.

To move the quilting machine from within Pro-Stitcher

- Press and hold an arrow button. The selected arrow button changes to a Stop button. The machine moves in the selected direction until you stop pressing the arrow key.

- Alternately, select **Continuous**. Then press (and release) an arrow key. The selected arrow button changes to a Stop button. The machine moves in the selected direction until you press the **Stop** button.

To stitch a straight line using the Move buttons

- Select the **Stitch** button. Press and hold an arrow button. The selected arrow button changes to a Stop button. The machine stitches a line in the selected direction until you stop pressing the arrow key.

- Alternately, select both **Stitch** and **Continuous**. Then press (and release) an arrow key. The selected arrow button changes to a Stop button. The machine stitches in the selected direction until you press the Stop button.

**Machine Quilting Tip: Straight-line quilting**

Use the Move and Stitch options to stitch straight lines for stitch-in-the-ditch, piano-key borders, and cross-hatching. Use the down arrow with stitch to baste down the right and left sides of the quilt. If you also select Continuous, you will be able to use both hands on the quilt to ensure that the quilt top and edges lay flat against the batting.
Pro-Stitcher as a horizontal or vertical channel lock

If you use the channel lock feature in Pro-Stitcher, you will be able to stitch horizontal and vertical lines that are perfectly square with Pro-Stitcher and the frame.

To stitch a horizontal or vertical line with the channel lock

- Select **Horizontal Channel Lock** to lock Pro-Stitcher so it stitches only in a horizontal direction. Press the Start/Stop button on the machine’s handlebars and move the machine to stitch the line in a left-to-right or right-to-left direction.

- Select **Vertical Channel Lock** to lock Pro-Stitcher so it stitches only in a vertical direction. Press the Stop/Start button on the machine’s handlebars and move the machine to stitch the line in a top-to-bottom or bottom-to-top direction.

**IMPORTANT:** Ensure that the carriage motor levers are in the engaged position. You can then manually use the quilting machine handles to stitch either horizontal or vertical lines.

**Machine Quilting Tip: To stitch a plumb line with Pro-Stitcher**

Ensure your quilt top is loaded squarely on the frame by stitching a horizontal plumb line across the top of the batting and backing. Select Horizontal Channel Lock, press the Start/Stop button on the machine’s handlebars, and stitch a plumb line approximately one inch from the top of the quilt backing and batting. Then align the top edge of the quilt top with the plumb line and baste close to the edge so the stitching will be covered by the quilt’s binding.

**IMPORTANT:** If you use an HQ Sixteen with Pro-Stitcher, switch to manual control before using the handlebars.

Adjust settings while quilting

While the machine is stitching, you can adjust several quilting settings, such as speed, auto jump, stitches per inch, tieoff, pullup, and pause delay. For more information about quilt settings, see chapter 8, *Settings Menu*. You can also adjust the most commonly used settings directly on the Stitch screen.
To adjust commonly used stitch settings

- Select Quilt and then select Stitch on the menu. Turn on or off the starting or ending tieoffs and choose how to do pullups. For more information about tieoffs and pullups, see Control how Pro-Stitcher performs tie-offs in chapter 8, Settings Menu. You can adjust these settings while quilting or after quilting is paused.

   NOTE: If you disable the Stitch button, the tieoff and pullup options are also turned off. If you select either the Tie Off or Pullup option, the Stitch button is automatically selected.

To adjust the quilting speed while quilting

- Choose Slow, Medium, or Fast to control the stitching speed, or drag the scroll bar to your desired quilting speed. For more information about the quilting speed setting, see Control how fast Pro-Stitcher operates in chapter 8, Settings Menu.

To adjust the auto jump threshold while quilting

A jump is a gap in a design where there is no stitching. If a jump is less than the threshold, Pro-Stitcher does not pause for you to cut the thread. If a jump is greater than the threshold, Pro-Stitcher pauses for you to cut the thread. For more information about the auto jump threshold, see Control how Pro-Stitcher handles jumps in chapter 8, Settings Menu.
• Select the **Auto Jump** box to specify the maximum length (in inches) of a jump, or gap in a design path. A number pad appears on the screen for you to enter the number, then press **Enter**. Alternately, use the **Plus Sign (⁺)** to increase or **Minus Sign (⁻)** to decrease the number.

**To adjust stitches per inch while quilting**

• Enter the number of stitches per inch for quilting the design. A number pad appears on the screen for you to enter a number, then press **Enter**. Alternately, use the **Plus Sign (⁺)** to increase or **Minus Sign (⁻)** to decrease the number.

**Machine Quilting Tip: The best stitches per inch setting for your design**

Smaller designs, especially designs that have lots of curves and circles, may require a shorter stitch length, such as 12 to 18 stitches per inch. Less intricate designs with large curves or circles can use a larger stitch length, such as 10 stitches per inch.

**To manage the tieoff settings while quilting**

Indicate how to tie off the stitching at jump points and at the start and end of a design. For more information about the tieoff settings, see *Control how Pro-Stitcher performs tie-offs* in chapter 8, **Settings Menu**.
Choose **Tie-Off Start** or **Tie-Off End** to indicate your preference for tieoffs. Choose whether to use a tacking stitch or micro stitches for the tieoffs. If you do not select either tieoff option, you will need to manually do the tieoffs.

**To change the thread pullup settings while quilting**

Indicate how to pull up the bobbin thread before quilting a design. Pull-up On brings up the bobbin thread and disables the motors for you to move the machine and pull up the bobbin thread. Pull-up Auto brings up the bobbin thread and then automatically moves the machine aside and pauses for you to grab the threads. In each case, press Resume to continue after grabbing the threads. For more information about the pullup options, see *Control how Pro-Stitcher handles bobbin-thread pullups* in chapter 8, Settings Menu.

Choose **Pull-up On** or **Pull-up Auto** to indicate your preference for handling pullups. If you do not select either pullup option, you will need to manually pull up the bobbin thread before stitching.

**To change the pause delay settings while quilting**

After beginning to stitch and following a pullup, Pro-Stitcher does some stitches and then pauses for you to cut the threads. The pause delay setting indicates how much stitching to do, measured in either inches or seconds, before pausing. For more information about the pause delay options, see *Control the delay following a bobbin-thread pullup* in chapter 8, Settings Menu.
Specify how far or how long Pro-Stitcher will stitch before pausing for you to trim the threads. Choose either **Seconds** or **Inches**. Then touch the number box, enter a number into the number pad that appears, and then press **Enter**.

### Adjust settings while quilting is paused

On occasion you may need to pause stitching to make further adjustments to settings, to replace a bobbin, or rethread the machine. You can change any of the settings described in the previous section while the machine is paused. However, after pausing the machine, other options are also available: stitch, reposition, status, and new start/end.

**To pause quilting**

- Press the **Pause** button for the machine to come to a gentle stop. Pro-Stitcher places gold marker at the point in the design where you paused. To make changes to settings, select **Quilt** and then select **Reposition**, **Status**, or **New Start/End**.

### Reposition designs while quilting is paused

At any point after pausing the quilting, you can reposition the design based on the start point or end point.

- After pausing the quilting, select **Quilt**, then select **Reposition**.

**To reposition the design while quilting is paused**

The Current Point function is available only during a Pause. The Current Point is the point in the design where the Pro-Stitcher paused the stitching. It is marked with a gold marker.
- Move the machine and crosshairs to the desired location and press the **Current Point** button under Reposition. If the Start Point has been altered during a Pause, pressing Resume will cause the Pro-Stitcher to resume from the adjusted Start Point rather than the Current Point.

**To see how far into a design the machine has stitched**

After pausing the quilting, select Quilt and then select Status. Pro-Stitcher displays the line segment being stitched and the distance traveled (in inches).

**Machine Quilting Tip: Using the line segment and distance information**

The line segment information is useful if you want to resume quilting from that exact point, such as when you are quilting over-sized blocks and need to roll the quilt after quilting part of the block. Make a note of the line segment and distance values so that you can begin quilting again at that precise location.

The distance information may be useful in determining how much thread has been used.

**Change the start or end point of a design**

After the thread breaks or the bobbin runs out of thread, you may need to start quilting from a point other than the design’s start point. Similarly, you may want to change the end point to a point other than the design’s original end point and quilt only a part of the design.
To begin quilting from a point other than the design’s start point

- Position the needle where you want to begin stitching and select Start Auto. The point in the design that is closest to the crosshairs will be the new start point. Alternately, drag the top scroll bar to move the start point to a new position in the design.

To end quilting at a point other than the design’s end point

- Position the needle where you want to end stitching and select Stop Auto. The point in the design that is closest to the crosshairs will be the new end point. Alternately, drag the bottom scroll bar to move the end point to a new position in the design.

**NOTE:** If you select a start point that is beyond the current end point in the design, the end point is adjusted to follow the start point. Similarly, if you select an end point that is before the current start point in the design, the start point is adjusted to come before the end point.

**NOTE:** If the Start Auto or Stop Auto buttons are selected, the start or end points continue to move as you move the machine and crosshairs.

To adjust start and end points with the scroll bars

The upper scroll bar controls the start point and the lower scroll bar controls the end point.

- Use the left and right arrows at the ends of the scroll bars to fine tune the selection to precisely position the new start or end point.

To set a start or end point to a jump point in the design

- For designs that have multiple jump points, press the Jump Point arrows to move either the start or end point to the next jump point in the design.
**Machine Quilting Tip: Recovering from a thread break or bobbin change**

If the thread breaks while stitching, press **Pause**. Fix the problem by rethreading the machine or changing the bobbin. Select the Quilt menu and then select the New Start/End function. Then press the **Start Auto** button. Press **Disable Motors**. Move the machine’s needle to the place on the quilt where you want to begin stitching again. The crosshairs on the screen will move to the corresponding position on the design. If some fine tuning is needed to move the new starting point forward or back in the design, use the left or right arrows on the scroll bar until the new start point is exactly where desired. Press **Start Auto** again. Use the **Half Stitch** button to pull up the bobbin thread. Press the **Tie off on Resume** and **Pullup on Resume** buttons to disable. Press **Resume** to continue quilting.

If the quilt has shifted slightly and the point on the design does not match up exactly with the point on the quilt, move the needle to the exact location on the quilt that matches the new starting point that was just set. Then select **Reposition** on the Quilt menu and press **Start Point**. The design shifts to align the new start point with the current needle position. Double check the Tie Off and Pullup settings and press **Resume** to continue stitching the design.
8. Settings Menu

Before stitching any design, it is always a good idea to double-check the settings. Some quilters may find settings that will work for everything they do and never go back to change them. However, most will likely find that different projects will require different settings. Make a habit of checking these settings before quilting any design.

Control how fast Pro-Stitcher operates

The Speed setting sets how fast the Pro-Stitcher carriage will move through the quilting design. Because the quilting machine regulates its own speed to maintain a specific stitches-per-inch setting, the speed does not directly set the needle speed. Instead it sets how fast the machine moves across the frame system.

- Select Settings, Speed.

To set the default speed

- Choose either the Slow, Medium, or Fast button to set the default speed.
- Alternately, use the scroll bar to select a speed between the slow, medium, or fast settings.

Control how Pro-Stitcher handles jumps

If a quilt design contains jumps, or gaps, in the design path that are not stitched, Pro-Stitcher can either move automatically without stitching through the jump point and begin stitching at the end of the jump or it can pause before the jump so you can trim the thread before it moves to the next starting point.

- Select Settings, Auto Jump.

Machine Quilting Tip: Avoid long jumps

The longer the jump, the more likely the thread will break or the quilt will gather or become distorted as the machine pulls the thread to the next start point. Set an Auto Jump threshold that is an appropriate number of inches so both your quilt and quilting remains smooth.
To set the Auto Jump threshold

- Press the **Plus Sign (+)** to increase or **Minus Sign (–)** to decrease the Auto Jump threshold by .5 inch. Alternately, touch the number box and type a value directly and press **Enter**.

**NOTE:** If the jump distance is less than the **Auto Jump** threshold (number of inches entered in the **Auto Jump** box), Pro-Stitcher does not pause for you to trim the thread before jumping to the next start point. If the jump is longer than the **Auto Jump** threshold, Pro-Stitcher pauses before the jump so you can trim the thread.

**NOTE:** If **Tie Off** options are turned on, Pro-Stitcher performs a tie off at the jump start and end points, regardless of which jump method is performed. If the **Pullup** feature is turned on, Pro-Stitcher performs a pull up at the end of the jumps that exceed the **Auto Jump** threshold.

Control the number of stitches per inch

- Select **Settings, Stitches Per Inch**.

To set the stitches per inch

- Press the **Plus Sign (+)** to increase or **Minus Sign (–)** to decrease the stitches per inch. Alternately, touch the number box and type a value directly and press **Enter**.
Control how Pro-Stitcher performs tie-offs

By tying off at the beginning and ending of stitching, the stitches will be secure and will not come undone. The Tie Off feature enables you to select your preferred method for how and when Pro-Stitcher performs tie-offs.

- Select Settings, Tie Off.

To have Pro-Stitcher perform a tie-off at the beginning of stitching

- Select Tie-Off Start.

To have Pro-Stitcher perform a tie-off at the end of stitching

- Select Tie-Off End.

To indicate how many tie-off stitches Pro-Stitcher will perform

- Press the Tie-Off # Plus Sign (+) to increase or Minus Sign (−) to decrease the number of tie-off stitches Pro-Stitcher performs. Alternately, touch the number box and type a value directly and press Enter.

**NOTE:** The number you specify is the number of full stitches that are formed, not the number of times the needles cycles. For example, if the tie-off number is set to 2 and you selected the Micro method, the needle cycles three times before beginning to stitch the design. Alternately, if you selected the Tack method, the needle cycles five times to form two stitches forward and two stitches back.

To set the length of each tie-off stitch

- Press the Distance Plus Sign (+) to increase or Minus Sign (−) to decrease the distance in inches for each tie-off stitch. Alternately, touch the number box and type a value directly and press Enter.
To select the method of tie-off stitch: Micro or Tack

- Press **Tack** to select the Tack method of tie-off. The Tack method forms the selected number of stitches forward into the design and then back to the start point before beginning to stitch the design, thus doubling the number of stitches selected.

- Press **Micro** to select the Micro method of tie-off. The Micro method forms the set number of tie-off stitches forward into the design and then begins stitching from there. When stitching the design is coming to an end, Pro-Stitcher stops stitching just before the end point and performs the selected number of tie-off stitches to the end of the design. This method does not back over itself and is more likely to be pulled loose than the Tack method. However, it is much less noticeable than the Tack method because there is no build-up of thread.

Control how Pro-Stitcher handles bobbin-thread pullups

Pro-Stitcher can be set to automatically pull up the bobbin thread at the start of stitching a design. It can pull up the thread and automatically shift aside for you to grab the threads or it can pull up the thread and enable you to manually move the machine aside to pull up the thread.

- Select **Settings, Pullup**.

To turn on bobbin-thread pullups

- Press **Pull-Up On** for Pro-Stitcher to perform a pull up at the beginning of the design and at the beginning of each segment following a jump that exceeds the Auto Jump threshold.
To turn on automatic bobbin-thread pullups

- Press **Pull-Up Auto** for Pro-Stitcher to shift the quilting machine to the right a few inches after pulling up the bobbin thread so you can grab both threads. Press **Resume** to continue quilting the design.

**NOTE**: If Pull-Up Auto is not selected, but Pull-Up On is selected, the quilting machine will take a stitch at the start point and then disable the motors. This enables you to manually push the quilting machine aside to pull up the bobbin thread. Press Resume for the machine to move back into position and resume quilting.

Control the delay following a bobbin-thread pullup

The Pause Delay feature pauses the quilting machine shortly after starting into a design and after each time a pullup is performed. This enables you to safely trim the thread tails.

- Select **Settings, Pause Delay**.

To set the Pause Delay

- Select **On** to turn on Pause Delay or **Off** to turn off Pause Delay.

You have the option of setting the Pause Delay in seconds (how long of a delay) or inches (how far it stitches before pausing).

To set Pause Delay in seconds

- Select **Seconds** and then press the **Plus Sign (+)** to increase or **Minus Sign (–)** to decrease the number of seconds for the pause. Pro-Stitcher will pause the number of seconds indicated so you can trim thread tails and then resume stitching.

To set Pause Delay in inches

- Select **Inches** and then press **Plus Sign (+)** to increase or **Minus Sign (–)** to decrease the number of inches Pro-Stitcher stitches before pausing. Press Resume after trimming thread tails to continue stitching.
Advanced Menu

The Advanced Menu contains options that you will rarely need to use. Many are used by HQ Technical Support as they help to diagnose any issues you may experience with Pro-Stitcher. Additionally, you can create a simulation license for Pro-Stitcher that enables you practice using Pro-Stitcher when it is not attached to the quilting machine.

General Options

- Select Settings, Advanced, General.

To create a simulation license

You can create a simulation version of Pro-Stitcher which enables you to use the Pro-Stitcher software in simulation mode on any computer running Microsoft Windows 7 or 8. It also runs on the Pro-Stitcher tablet itself when not attached to the quilting machine. Using a simulation license enables you to take the tablet computer or a notebook computer to Pro-Stitcher training and use the software functions even though the computer isn’t attached to a quilting machine.

1. Download the latest version of the Pro-Stitcher software, for example PSUpdate15.04.0071.exe, to a USB flash drive.

   IMPORTANT: If this version isn’t already installed on your Pro-Stitcher tablet, install it by inserting the USB flash drive into the tablet computer. After the tablet computer accesses the USB drive, follow instructions on the screen for continuing the installation.

2. Start Pro-Stitcher and ensure that it connects with the carriage motors.

   NOTE: If you will be running Pro-Stitcher in simulation mode from the Pro-Stitcher tablet computer, installation is complete. If you will be running Pro-Stitcher in simulation mode on a different computer, such as a Windows laptop computer, continue with the remaining steps.
**IMPORTANT:** You must have administrator rights for the Windows computer you will use for the Pro-Stitcher simulation.

3. Insert the USB flash drive into a USB port on the Windows computer you will use for simulation mode. View the files on the USB drive. Right-click the Pro-Stitcher executable file (PSUpdate15.04.0071.exe, in this example) and select **Run as administrator**. Pro-Stitcher will install onto the Windows computer and then start.

4. You will see a pop-up message asking whether you want to be able to run Pro-Stitcher in simulation mode. Select **Yes**. If you select **No**, Pro-Stitcher will not run.

5. When you receive this message, **do not yet select OK**.

6. Remove the USB drive from the Windows computer and insert it into the Pro-Stitcher tablet computer that is attached to the quilting machine’s carriage.

7. On the Pro-Stitcher tablet, select **Settings, Advanced, General**. Then select the **Create Simulation License** button.

8. When you receive the message **License file written**, select **OK**. Remove the USB drive.

9. Return to the Windows computer you will use for simulation mode and insert the USB drive back into the USB port of the Windows computer. Now select **OK**

10. You can now run Pro-Stitcher in simulation mode on the Windows computer.
To use the Pro-Stitcher simulation mode

If running the simulation mode on the Pro-Stitcher tablet computer, you may switch between simulation mode and regular mode. However, when running Pro-Stitcher on a standalone Windows computer, it only runs in simulation mode.

- To run Pro-Stitcher simulation mode on the Pro-Stitcher tablet computer, select Settings, Advanced, General. Select Simulation on/off to alternate between simulation mode and regular mode.

- To run Pro-Stitcher simulation mode on the Windows computer, simply start Pro-Stitcher.

When Pro-Stitcher is running in simulation mode, a Sim button (for simulation) appears in the upper right section of the screen and the Follow button is removed.

When the Sim button is selected, the mouse and the keyboard arrow keys simulate moving the quilting machine to do things such as zoom, pan, or create areas. The other button function as normal. Simply select them with the mouse.

1. Ensure the Sim button is selected (appears dark green) at the top right of the screen.
2. Use the arrow keys or mouse to simulate moving the quilting machine.

\[\text{NOTE}: \text{Hold the shift key while using the arrow keys for faster cursor movements. You can also hold the left mouse button and drag the mouse and the cursors will move along with the mouse.}\]

To turn on or off the Thread Break Sensor (HQ Fusion machines only)
- Press the button next to Thread Break Sensor on/off to turn it on or off. It is on when the button is dark.

If the thread break alarm is triggered and this option is on, Pro-Stitcher pauses when the thread breaks. If it is off, Pro-Stitcher ignores the thread break and continues stitching.

To verify settings before quilting
- Press the button next to Verify Settings Before Quilt to have Pro-Stitcher display a pop-up box with all of the current settings. This gives you the opportunity to verify that everything is set up properly before stitching. If you don’t want to see this box, disable the button.

Communications Options

The Communication sub-menu enables you to manually establish communications with either the quilting machine or the Pro-Stitcher motors.

- Select Settings, Advanced, Communications
To stop communications between Pro-Stitcher and the quilting machine

- Press **Switch to Handlebar Control**. The button changes to say Connect to Pro-Stitcher. To reestablish communications, press **Connect to Pro-Stitcher**.

For HQ Avanté and HQ Fusion machines, handlebar control is always available. This button simply prevents any communication from the Pro-Stitcher computer from being processed by the quilting machine.

> **NOTE**: HQ Sixteen quilting machines will not allow handle control while the Pro-Stitcher is communicating with the quilting machine, so this button will need to be pressed to allow the quilter to operate the quilting machine manually from the handles. This button is located at the top-left corner of the screen for the HQ Sixteen version of Pro-Stitcher.

To reconnect motors

If the Pro-Stitcher motors ever become unplugged or disconnected from the computer, it may be necessary to reestablish communications between the Pro-Stitcher computer and the motors.

- Press **Reconnect Motors** or the **Motor Error** button in the top-right corner of the screen to reestablish communications between the Pro-Stitcher computer and the motors.

If the Pro-Stitcher computer cannot communicate with the motors for any reason, it will be indicated by a lightning bolt icon at the top right-hand corner of the screen.

- Press **Reconnect Motors** or the **Motor Error** button in the top-right corner of the screen to reestablish communications between the Pro-Stitcher computer and the motors.

To reconnect the machine

You may need to reestablish communications between Pro-Stitcher and the quilting machine. For example, this happens when you start the Pro-Stitcher computer while the quilting machine is turned off.

- Press **Reconnect Machine** to reestablish communications between the Pro-Stitcher and the quilting machine.

Easily test whether Pro-Stitcher is communicating with the quilting machine by pressing the Full Stitch button at the top of the Pro-Stitcher screen, or looking at the touchscreen on the quilting machine’s handlebars. If there is communication between the quilting machine and Pro-Stitcher, the quilting machine’s touchscreen will indicate it. If they are connected, the quilting machine will cycle the needle.
If they are not communicating, nothing will happen. If the Pro-Stitcher computer can detect that it is not communicating with the quilting machine, a lightning bolt icon will appear in the top-left corner of the Pro-Stitcher screen. Pressing that button will perform the same function as the Reconnect Machine button.

**Speed Profile**

The Speed Profile enables you to customize the relationship between quilting speed and the precision needed to quilt intricate designs.

**To set your speed profile**

- Select **Default** for most quilting designs. Only if you feel that the quilting design requires more precision should you ever need to change the setting.
- Select **Precision** to stitch intricate designs more slowly.
- Select **Speed** for more speed than Precision, but to ensure curves are stitched smoothly.

We recommend that you use the advanced speed profile options only as advised by a technician.

**Motor Option**

The Motor Torque Limit enables you to customize the sensitivity of the Pro-Stitcher motors. For example, if while quilting the Infinity hits the poles, there is a thread lock, or you’ve selected a quilting speed that is too fast for the complex design you’re using, the error message *Motor Error: Excessive Motor Strain Detected* appears and the motors stop. This setting varies the threshold for stopping the motors. The default limit is 50. Most will not need to adjust this value.

**When to adjust the Motor Torque Limit**

Generally you will make this adjustment when recommended by a technician or if you repeatedly receive the motor error message that excessive motor strain was detected.

If you receive the motor strain error message during normal stitching conditions:

1. Check for and remove any obstructions.
2. Clear the error message by touching the X in the upper-right corner of the message.
3. Press **Reconnect Motors** or the **Motor Error** button in the top-right corner of the screen to reestablish communications between the Pro-Stitcher computer and the motors.
4. Reduce your quilting speed and resume quilting.
5. If you continue to receive the error message, change the speed profile (**Settings**, **Advanced**, **Speed Profile**). If the current setting is **Default**, select **Speed**. If the current setting is **Speed**, select **Default**. If the error message persists after you resume quilting, select **Precision**.
6. If you continue to receive the motor strain error message, adjust the Motor Torque Limit.

**To adjust the Motor Torque Limit**

1. Select **Settings**, **Advanced**, **Motor**.
2. Increase the Motor Torque Limit to lessen the motor sensitivity or decrease the Motor Torque Limit to increase the motor sensitivity. Select the number box and enter the value. Typically entering 55 or 60 is sufficient to eliminate the error message except when there is a significant obstruction.

⚠️ **CAUTION**: Increasing the Motor Torque Limit means that the Pro-Stitcher motors will be less responsive to obstructions and may continue running, potentially causing damage to the quilt. Decreasing the Motor Torque Limit means that the Pro-Stitcher motors will stop more easily when there is resistance.

⚠️ **IMPORTANT**: Do not increase the Motor Torque Limit above 100 or decrease it below 40.

**Logging Options**

The logging options are for troubleshooting Pro-Stitcher by a technician.

- Select **Settings**, **Advanced**, **Logging**

![Logging Options](image)

**About**

This option shows version information for the Pro-Stitcher software.

**Shut Down**

Three shutdown options are available on the Shut Down menu.

**To shutdown all software and power down the computer**

- Select **Shutdown** from the menu. Then select the **Shutdown** button.

You should do a full shutdown when done using Pro-Stitcher.
To shutdown the software and computer, and then start up again

- Select **Shutdown** from the menu. Then select the **Reboot** button.

If you suspect there may be computer-related issues interfering with Pro-Stitcher, rebooting the computer often will help.

To exit Pro-Stitcher but keep the computer running

- Select **Shutdown** from the menu. Then select the **Exit to Windows** button.

At times it may be necessary to close down the Pro-Stitcher software and use the standard Windows operating system.

To restart the Pro-Stitcher software from Windows

- Locate the Pro-Stitcher shortcut icon on the desktop and double-tap it.
## 9. Troubleshooting

<table>
<thead>
<tr>
<th>Problem/Symptom</th>
<th>Corrective Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No display on the touch-screen monitor</td>
<td>The Pro-Stitcher computer is powered off. Press the Power button at the top-right side of the computer to turn it on.</td>
</tr>
<tr>
<td>LED on the power button at the top right-hand side of the screen is on.</td>
<td>The Pro-Stitcher computer is powered off. Press the Power button at the top-right side of the computer to turn it on.</td>
</tr>
<tr>
<td>LED on the power button at the top right-hand side of the screen is off.</td>
<td>There is no power to the tablet computer. Ensure the power cord to the Pro-Stitcher is plugged into a powered outlet on one end and the power supply under the carriage on one of the Y branch ends of the power cord. Also check that the round barrel connector is plugged firmly into the mating cable connector under the Pro-Stitcher carriage. If all cables are plugged in properly and the LED remains off, press the Power button on the top-right side of the monitor.</td>
</tr>
<tr>
<td>The stitch regulator cable is not connected properly</td>
<td>Make sure the gray flat stitch regulator cable is plugged into the back of the C-Pod, the encoder wheel on the back wheel of the quilting machine, and the encoder wheel on the carriage. Check the black cable that connects the Pro-Stitcher to the machine encoder wheel. This cable has a 3-wire connector at the end that plugs into the machine’s stitch regulator encoder circuit board attached to the back left wheel of the quilting machine. Verify the Pro-Stitcher and the quilting machine are communicating with each other by pressing Reconnect Machine in the Settings -&gt; Advanced menu. If the two systems are communicating, pressing the Full Stitch or Half Stitch buttons on the Pro-Stitcher will result in the quilting machine’s needle performing that function. Check the gray stitch regulator cable for damage (the end of the cable that plugs into the C-Pod will have one wire clipped – this is normal).</td>
</tr>
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</tr>
<tr>
<td>The Pro-Stitcher stitches, but the stitch lengths vary and the quilting machine slows down or even stops in some directions.</td>
<td>The problem can be narrowed to a specific encoder wheel by running the quilting machine manually (HQ Sixteen owners will need to press the Switch to Handlebar Control button at the top left-hand corner of the screen to pass control back to the handles). Start the quilting machine from the handlebars in Stitch Regulated mode and only move the machine left and right. Then try only moving front and back. If the quilting machine stops stitching while moving front and back, then the problem is with the encoder mounted to the back of the machine. If it stops stitching left and right then the problem is with the encoder on the carriage. Make sure the encoder wheels roll on the tracks when moving the quilting machine and also that the gray stitch regulator cable is plugged in securely to the encoders.</td>
</tr>
<tr>
<td>HQ Sixteen owners: The C-Pod screen is blank or scrambled and the handlebar screens are stuck on a screen that says, “Handlebars Version X.X”</td>
<td>The gray flat stitch regulator cable is plugged in upside-down to one or both of the stitch regulator encoder wheels. Make sure the red stripe on the gray cable is facing up on both encoder connections.</td>
</tr>
<tr>
<td>An older version of the “Y” encoder is mounted to the HQ Sixteen</td>
<td>Make sure the “Y” or “machine” encoder, which is mounted to the back left-hand side (when looking from the front) is the newest version encoder for the HQ Sixteen. The old version has a 2-inch section of black plastic heat shrink encasing a small circuit board where the cable plugs in. The new version does not have that 2-inch section of black heat shrink. If the old encoder is mounted to the machine, then replace it with the new encoder that is included in the HQ Pro-Stitcher accessory bag.</td>
</tr>
<tr>
<td>The white gears do not engage the blue flexirack</td>
<td>Make sure the white gears fully engage the blue rack. Use the manual engagement/disengagement tool to adjust. Insert into the hole at the front of the EZ Carriage.</td>
</tr>
</tbody>
</table>

When the quilting machine is pushed by hand, the horizontal and/or vertical crosshair lines do not move.
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<td>The X and/or Y axis gears are only partially engaged</td>
<td>If there is motion in the X-axis (left-right), check the X-axis gear assembly and make sure nothing is preventing the assembly from springing downward and putting pressure on the blue rack. If the motion is in the Y-axis (front/back), make sure the blue rack and the white gear are properly aligned and adjust if necessary by loosening the two Y-axis bracket mounting screws and shifting the Y-axis bracket left/right and retightening the screws. If the white gear is not pressing upward enough on the blue rack to fully engage the gears, it may be necessary to install shim washers between the quilting machine base-plates and the Y-axis bracket to drop the bracket a little.</td>
</tr>
<tr>
<td>One or more of the pulleys/gears on the X or Y axis assemblies are loose</td>
<td>Monitor the motor assembly while engaged and enabled to determine which gear/pulley is slipping. It will most likely be either the gear mounted directly to the motor shaft or the gear mounted to the shaft that drives the white gear. Use the appropriate Allen wrench to tighten both set screws on the gear. The motor gear requires a 1/16” Allen wrench and the larger gear on the drive axle with the white gear requires a 5/64” Allen wrench.</td>
</tr>
<tr>
<td>The X and Y tension springs are too loose.</td>
<td>The X and Y tension springs may need to be tightened. First make sure the Pro-Stitcher version is 14.01.0043 or newer. Using a 3mm Allen wrench, tighten the bolts (clockwise) running through the center of the two springs in the Pro-Stitcher carriage (one on the X motor assembly and one on the Y motor assembly). Only one or two full rotations is all that is usually required. Tightening more than three turns will likely damage the system. Be careful while tightening not to flex the shaft that the bolt is tightening into or it may break. The quilting machine will need to be removed from the carriage and the carriage turned upside down to access the X tension spring. Test that the springs are not too tight by going to the Freehand screen and pressing the “Engage” or “Free Motion” buttons to rotate the engagement motor a few times. If they are too tight, the motor will slip and not complete its rotation. Loosen the tension spring bolt if this occurs.</td>
</tr>
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<tr>
<td>Lubrication required between white gears and blue rack</td>
<td>When the Pro-Stitcher carriage levers are engaged squeaking can be heard as the machine is pushed or driven. Lubricate the teeth of the white plastic gears for both the X and the Y axes by applying a small amount of silicone lubricant to the teeth of the white gears. Do not use a solvent-based or an oil-based lubricant (such as WD-40 or sewing machine oil) as this will attract dust and eventually clog the gears.</td>
</tr>
<tr>
<td>Positioning a pattern using the Reset Home button</td>
<td>When the Reset Home button is pressed, the pattern is not positioned properly. The Reset Home button is not intended to be used as a re-positioning tool. Reset Home simply makes the current needle position match up with the “X=0, Y=0” point of the pattern. This “0,0” position can vary from pattern to pattern, so the best way to reposition is by using the Area or Reposition tools from the menu.</td>
</tr>
<tr>
<td>Quilting machine stuck in a faster speed than selected by Pro-Stitcher</td>
<td>Stitch length is much smaller than selected, machine running faster than it should. Something has caused the quilting machine to lock up at a higher speed (tighter SPI) than selected. Rebooting both the quilting machine and the Pro-Stitcher computer should resolve the issue.</td>
</tr>
<tr>
<td>No patterns or folders show up in the design library</td>
<td>The current path is pointing to the wrong drive letter. Designs are stored on the computer’s hard drive and on the removable USB flash drive. If you are attempting to access designs specifically on the USB flash drive, make sure the USB flash drive is plugged in securely to the Pro-Stitcher computer. Press Cancel if the Open screen is already open, remove the USB flash drive, wait about 15 seconds, and then press the Open button again. The patterns that come pre-loaded on the Handi Quilter USB Flash drive are located in a folder called Designs on the USB flash drive (usually drive D:\ or E:). From the Open window, select a drive letter by pressing on the arrow button next to the drive you wish to browse. If there is a circle with a ^ symbol on the right-hand side of the button, it means there are more folders in that particular path. If there continues to be nothing showing up on the USB flash drive, plug it into a desktop or laptop computer and verify that the USB flash drive has the desired files on it. If the computer says it wants to reformat the flash drive then the flash drive has gone bad and will need to be replaced. If it opens but there are no files on the flash drive, contact Handi Quilter for replacement files.*</td>
</tr>
<tr>
<td></td>
<td>*Handi Quilter highly recommends backing up all pattern files on a home computer or another disk.</td>
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<td>Jumps between repeated patterns</td>
<td>When using the Repeat functions, if the start and/or stop points are within the block of the pattern (i.e. they are not located at the left and right-hand sides of the pattern block) and/or not at the same height, there will be a jump between each repeat of the pattern. This can be corrected by selecting the Point 2 Point box in the Repeat screen.</td>
</tr>
<tr>
<td>Use of any of the Repeat options results in a jump between each pattern</td>
<td></td>
</tr>
</tbody>
</table>

### Error messages

**Motor Error** with lightning bolt icon in the top-right corner (may occur with various types of Motor Error messages on the screen).

This will occur with various types of motor errors. Generally they mean that the Pro-Stitcher cannot communicate with the motors. Check that the carriage is plugged in and that the serial cables are connected properly into the box behind the Pro-Stitcher computer. If everything is connected properly and power is on, press the lightning bolt button to attempt to re-establish communication with the motors. The icon will turn to either a red or green motor button once communications are re-established.

If this occurs during stitching (possibly due to a large electrostatic discharge (ESD) event or power surge), the Pro-Stitcher will stop moving and wait for the lightning bolt icon to be pressed. If the quilting machine is still stitching at this point, press the STOP button on the handles. Pro-Stitcher does not resume on its own after such a disruption for safety reasons and will require user intervention to resume stitching the design. When communications are re-established by pressing the lightning bolt button, it will be necessary to re-set the starting point to the position where the stitching stopped and resume stitching from that point. If the tablet touch-screen does not respond after such an ESD or surge event, it may be necessary to re-boot the tablet using the power button. A mouse may be plugged into an available USB port and used to save any work prior to re-booting the tablet.
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<tbody>
<tr>
<td><strong>Buffer Underflow</strong></td>
<td>If a message with the words Buffer Underflow appears while stitching, it is an indication that data is not getting to the motors quickly enough. This may be due to something in the computer tying up the CPU. Although it may be possible to resume quilting by simply pressing red X box to close the error message and then pressing the Motor Error lightning bolt button at the top right-hand corner of the screen, it is best to cancel the current design stitch-out, save the pattern, and re-boot the computer. Use the New Start Point function if necessary to resume from where stitching was left off.</td>
</tr>
<tr>
<td><strong>System Restore or System Repair message on boot-up.</strong></td>
<td>If a message appears on boot-up (black screen, white text) that asks whether to run System Restore or Start Windows Normally, select Start Windows Normally by using the volume buttons on the tablet to move your selection up or down and use the “Windows” button to select “Start Normally.” The system should resume as normal. The computer will default to the System Restore screen (more of a typical Windows blue/white screen) if you do not select the Start Normally option in time. If this occurs, use the power switch to reboot the computer and try again.</td>
</tr>
</tbody>
</table>
10. Warranty

Warranty issued should, whenever possible, first be submitted to the Authorized Representative who completed your service and training. These representatives have been selected for their dedication to customer satisfaction and have been trained in technical service. They also may provide follow-up advice, training, service, accessories, and other services.

HQ Authorized Representatives may offer their own warranties in addition to those offered by the manufacturer, but do not obligate the manufacturer.

HQ Pro-Stitcher® - Limited Warranty

Handi Quilter, Inc. (hereinafter HQ) offers a limited warranty on the HQ Pro-Stitcher (hereinafter “Product”) to be free of defects in workmanship and materials under normal use upon the terms and conditions hereinafter set forth:

(a) 90 day Limited Warranty: During the first 90 days from date of purchase, HQ will repair any manufacturing defect without charge for parts or labor. All subsequent warranties include parts costs only.

(b) Three year Mechanical Warranty: For any mechanical failure within this period. Manufacturer will provide free replacement parts, customer pays for labor and shipping.

(c) Lifetime Software Update Warranty: From the date of purchase HQ will provide updates (minor changes to the HQ Pro-Stitcher software), free of charge, to the consumer via electronic downloads. These are intended to provide the consumer with the latest software updates for the HQ Pro-Stitcher and are not the same as Upgrades, which will incur a fee to the consumer.

(d) Two year Electronic/Electrical Warranty: The electric/electronic components are warranted to be free from manufacturing defects for two years from the date of purchase. If any defect is reported within this period, manufacturer will provide free replacement parts, customer pays for labor and shipping. The two year electronic/electrical warranty will be invalid if the product is left plugged into a power source when not in use. This limited warranty stated in sections (b), (c) and (d) above shall be limited solely to the replacement of parts which, in the opinion of HQ are defective in workmanship or material and are returned to HQ, or an authorized repair facility, or such other point or place that may be designated by HQ. All other costs, including cost of freight and shipment for repair under this warranty, shall be the customer’s costs.

The product registration card must be completed and received by HQ before warranty is valid.

Warranty Exclusions

HQ shall have no obligation for any claim under this warranty if the HQ Pro-Stitcher has been misused, abused, neglected, damaged in transit or has been altered from the standard specifications established by HQ, if proper cleaning and maintenance has not been performed, or if the HQ Pro-Stitcher is used on other frame systems or with other machines than those specified by Handi Quilter. No warranties extend beyond the express warranty offered. HQ disclaims all other warranties, express or implied, regarding the Product, including any implied warranties of merchantability or fitness for a particular purpose. In the United States, some laws do not allow the exclusion of the implied warranties.
Specific exclusions of warranty limitations include, but are not limited to the following:

- General, consequential, incidental or special damages including damage to fabric or material, the cost of rework or lost profits, the cost of installation or removal of any Products, and any inspection, testing or redesign caused by any defect or by the repair or replacement of Products arising from a defect in any Product.

- Products which are received by HQ improperly packaged, altered, or physically damaged.

- Counterfeit or altered label(s) or stickers.

- Broken pins or connectors

- Stripped screws or nuts

- Connector(s) damaged, cracked, missing or broken.

- Missing, torn or punctured seals(s)

- Any use besides computerized machine quilting applications

- Operator error in the customary use of the Product.

- Internal adjustments, tampering or parts replacement done by anyone except authorized Representatives or customers specifically authorized by Handi Quilter Customer Support or warranty repair personnel on a case by case basis.

The warranty does not cover and the user assumes the risk of and there is hereby excluded any liability to HQ for failure, defects, loss, deterioration, personal injury or damage which are due to: (1) ordinary wear and tear or exposure, (2) abuse, misuse, negligence, operator error, or (3) use of parts, components, or accessories not authorized by HQ.

In no event shall HQ be liable to the purchaser of the Product or to third parties for special or consequential damages, including, but not limited to, death or personal injuries.

HQ does not assume, or authorize any person to assume on its behalf, any other obligation of liability other than that sent forth herein.

Some states do not allow exclusion of limitation of incidental or consequential damages, so above limitation or exclusion may not apply. This warranty gives the purchaser specific legal rights and the purchaser may also have other rights, which may vary from State to State.

Exclusive Remedy

Remedy is limited to the repair or replacement of the defective Product. HQ may elect which remedy or combination of remedies to provide at its sole discretion and shall have a reasonable time, after determining that a defective Product exists, to repair or replace the defective product. Replacement Product may be from new or serviceable used parts. The HQ warranty applies to repairs or replaced Products for the balance of the applicable period of the original warranty or ninety days from the date of shipment of a repaired or replaced Product, whichever is longer.

HQ’s entire liability for any defective Product shall in no event exceed the purchase price for the defective Product. This limitation applies even if Handi Quilter cannot or does not repair or replace any defective Product.
**Warranty Claims**
Service under the above warranties may be obtained by returning the product, with proof of purchase, to the authorized Representative from whom the product was purchased, a local Representative, or to Handi Quilter Support.

Any product to be returned to the factory, either by customers or Representatives, must be accompanied by a Return Material Authorization Number (RMA). RMAs may be obtained by email (sales@handiquilter.com) or by calling customer support at 801-292-7988 or toll-free at 1-877-697-8458. If it is determined that the Product may be defective, an RMA number will be issued with instructions for Product return. An unauthorized return (a return without an RMA number) will be shipped back to customer at customer’s expense. Authorized returns are to be shipped prepaid and insured in an approved shipping container. The original box and packaging materials should be kept for storing or shipping.

**Shipping Cost**
Shipping is the responsibility of the customer.

**Product Service and Maintenance**
Periodically use a small brush to clean all lint and threads from under the carriage, track and rack. Keep rack and track clean and clear of any foreign material, build up, or obstruction.

*Follow HQ Quilting Machine Service and Maintenance for best results with the HQ Pro-Stitcher.*

Replace needles every 2 to 4 hours *(1 to 2 per large quilt)* and lubricate hook every 3 to 4 hours of use *(about every second bobbin change)*. Periodically check the thread tensioner. Use small brush to clean out all lint, loose thread or obstructions from the bobbin hook each time you begin to use the HQ Pro-Stitcher and HQ quilting machine.

Servicing is recommended for your HQ quilting machine annually from a qualified representative. Servicing will cover belt tensioning, encoder positioning, bearing retainers, hook axial play and timing, presser and needle bar adjustment, and internal lubrication to take-up lever, hopping foot levers, bushings/bearings.

Handi Quilter, Inc.
Customer Relations
501 N. 400 W.
North Salt Lake, UT 84054
Toll Free: 1-877-MY-QUILT (697-8458)
Local Phone: 801-292-7988
HQCares@HandiQuilter.com
HQ Pro-Stitcher® Warranty Registration

Mail or Fax completed Warranty Registration Card within 30 days of purchase. If you have questions, email HQCares@HandiQuilter.com or call Customer Relations at 1-877-697-8458. Online warranty registration is also available at HandiQuilter.com.

MAIL:  Handi Quilter, Inc.  FAX:  801-294-3011
Warranty Registration Dept.
501 N 400 W
North Salt Lake, Utah 84054

HQ Pro-Stitcher Warranty Registration Card

The HQ Pro-Stitcher warranty consists of two-year electronic/electrical, three-year mechanical and lifetime software updates (see detailed warranty information in HQ Pro-Stitcher User Manual). Check with your local HQ Representative for details on service or making warranty claims.

Customer Name:

Company/Business Name (if applicable):

Address:

City, State, Zip:

Daytime Phone:

Evening Phone:

Fax:

Email:

HQ Pro-Stitcher Serial Number:

Order Number (5 digits):

Purchase Date:

Date Product Received:

Location of Purchase (Shop or Show name, City & State):

Signature:

Date:
# HQ Pro-Stitcher Training Checklist

**Customer Name** ________________________________  **Date of Purchase** ____________________________

**HQ Representative Shop Name** __________________  **Date of Training** ____________________________

## Installation and Set Up
- Rack System ☐
- Carriage System ☐
- Encoder Cables ☐
- Gears Engage in Racks ☐
- Quick Release Mechanism ☐

## HQ Pro-Stitcher Overview
- Disable/Enable Motors ☐
- Pull-up Bobbin Thread ☐
- Zoom/Pan Function ☐
- Refresh ☐
- Half-Stitch ☐
- Reset Home ☐
- Follow ☐

## Design Menu
- Find drive where design are located ☐
- Show File with all Designs ☐
- Load Design ☐
- Design ☐
- Box ☐
- Jump Points ☐
- Start/Stop ☐
- Undo ☐
- Redo ☐
- History ☐
- Baseline ☐
- Loading and Saving a Design ☐
- Setting an Area ☐

## Art & Stitch (if applicable)
- Rotation (Mirror, Flip, 2-Point, Group) ☐
- Crop (Inside, Outside, Open, Closed) ☐
- Repeat ☐
- Resize ☐
- Skew and Align ☐
- Freehand Record and Mark ☐
- Reposition (by Corner, Center, Start, End, Drag & Drop, Nudge) ☐

## Settings Menu
- Speed ☐
- Auto Jump ☐
- Stitches-Per-Inch ☐
- Tie Off (Tack and Micro) ☐
- Pullup ☐
- Pause Delay ☐
- Switch to Handlebar Control ☐
- Reconnect Motors ☐
- Reconnect Machine ☐
- Shut Down (Shutdown, Reboot, Exit to Windows) ☐

## Cleaning and Maintenance
- Cleaning Rack ☐
- Maintenance of HQ Machine ☐

## Quilt Menu
- New Start/End Points ☐
- Jump Points ☐
- Move (Continuous & Stitch) ☐
- Channel Lock ☐
- Trace Outline ☐
- Box ☐
- Area ☐
- Pause ☐
- Emergency Stop ☐

## Warranty Review
- Review Manufacturer’s Warranty ☐
- Sign Checklist ☐

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The items listed above have been explained to me by my HQ Rep.  
I have covered the items listed above with my customer.

_________________________  __________________________
**Signature of Owner**  **Signature of Trainer**

*Note to the HQ Rep: Upon completion, please cut along dotted line and fax the signed copy to Handi Quilter at 801-294-3011. It is okay to photocopy this page.*
11. Handi Quilter Printouts

A place for the latest information
For news about Pro-Stitcher updates, watch: www.handiquilter.com/prostitcher-download

For tips and tutorials, watch: www.handiquilter.com/education/pro-stitcher/

See something you want to remember? Print it out and keep it here.
12. Tutorials

Tutorials from the Handi Quilter educators

Go to www.handiquilter.com/education/pro-stitcher for lessons, tips and tutorials for using the latest software updates.

Print them out and keep them handy in this section of your user manual. We write the tutorials with step-by-step instructions, so you feel as though one of the Handi Quilter educators is standing right by your side as you learn.
13. Designs

A place to store your design catalogs
Even though HQ Pro-Stitcher offers an easy-to-use way to view your quilting designs, it’s sometimes nice to have them printed on paper for browsing. If you quilt for hire, it’s a good way to let your customers choose a design.

We suggest you three-hole punch your catalogs and keep them here with your HQ Pro-Stitcher user manual.

HQ Pro-Stitcher and Art & Stitch designs
Use your Art & Stitch program to organize and print catalogs of all of the designs in HQ Pro-Stitcher and Art & Stitch.

Print Catalog is a powerful function to show and to print all designs of all formats on paper. This function will print thumbnails and file names of all designs in a folder. You will find Print Catalog in the Art & Stitch software program and you can use it to create catalogs of all of your designs, regardless of their origin.
14. My Ideas

You know you’ll forget if you don’t save it here

This is a section to keep pictures, tearsheets from magazines, printouts from the web. Anything you find inspirational should find its way here!
Handi Quilter, Inc.
501 N 400 W
North Salt Lake, UT 84054

1-877-MY-QUILT (697-8458) • www.HandiQuilter.com

HQ Pro-Stitcher® is part of the family of innovative quilting products from Handi Quilter®