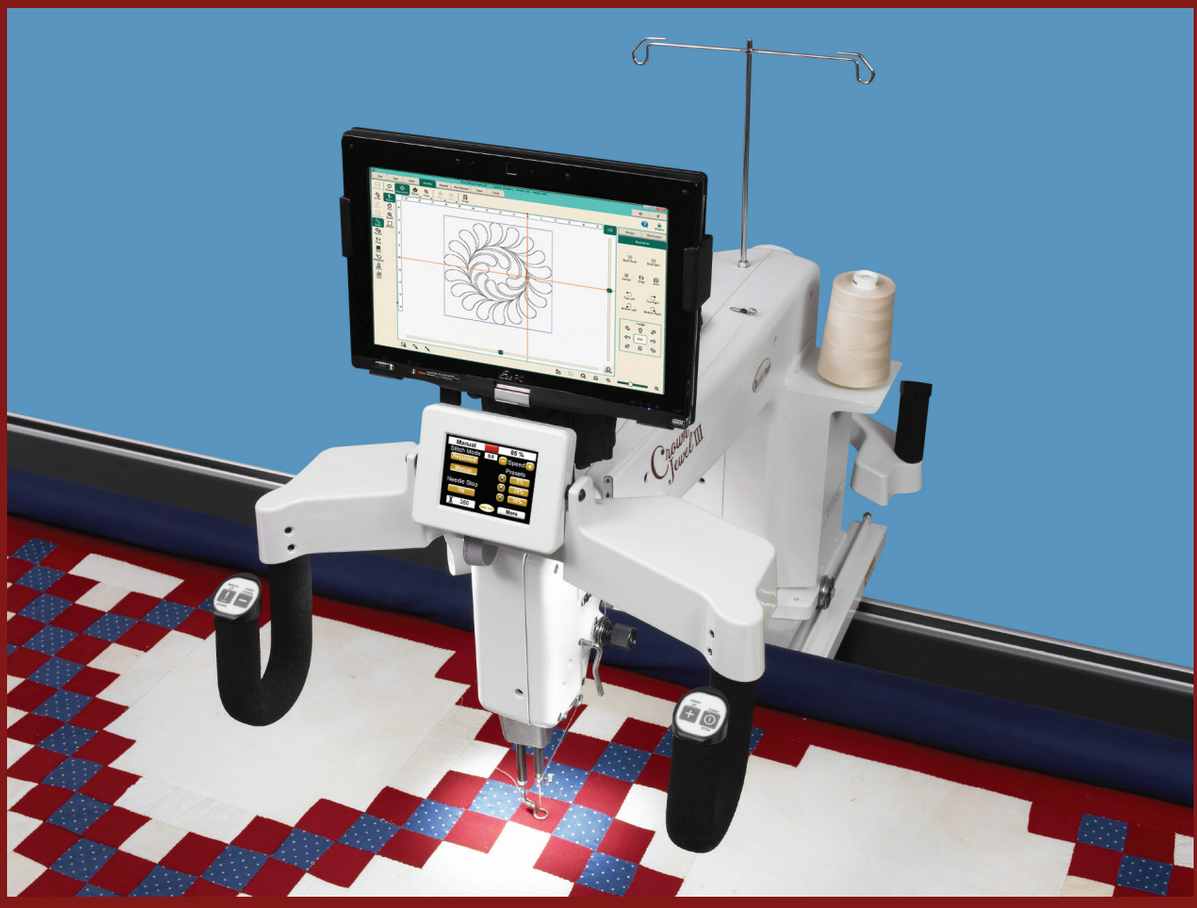
Pro-Stitcher®

PREMIUM

Getting Started Guide

Model BLPS4



baby lock

FOR THE LOVE OF SEWING

To register your warranty and receive product updates and offers, register your Baby Lock product on babylock.com/profile. If you have questions with registration, visit your Authorized Baby Lock Retailer.

Baby Lock Consumer Helpline: 800-313-4110

www.babylock.com

Table of Contents

1. Table of Contents 1.1

2. Important Safety Instructions 2.1

3. Installation 3.1

Congratulations on your Pro-Stitcher® Purchase 3.1
Grounding 3.2
Pro-Stitcher Parts List for Baby Lock Crown Jewel 3.2
Installation 3.5
Installation of the X-Rack and Y-Rack 3.5
To install the X-Rack 3.5
To install the Y-Rack 3.7
Y-encoder circuit board replacement 3.8
To replace the Y-encoder 3.8
To set up the Pro-Stitcher carriage 3.10
To attach the tablet computer 3.13
To turn on and shut down Pro-Stitcher 3.16
To turn on Pro-Stitcher 3.16
To shut down Pro-Stitcher 3.16
Getting started with Pro-Stitcher 3.17
To move the quilting machine after the software has been loaded 3.17
If you have a Pro-Stitcher carriage without levers 3.17
If you have a Pro-Stitcher carriage with levers 3.17
To use the USB flash drive 3.17

2. Important Safety Instructions

Save these instructions

This machine is intended for household use.

Disclaimer

Baby Lock and its Representatives are in no way legally responsible or liable for damage to the 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 Baby Lock.

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 Pro-Stitcher installed on your 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.

How to use this manual

Notes, important notes, and cautions

✎ **NOTE**: A NOTE indicates important information that helps you make better use of Pro-Stitcher.

➲ **IMPORTANT**: An IMPORTANT note provides information that is essential to properly using your Pro-Stitcher.

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

Consignes de sécurité importantes

Conservez ces consignes

Cette machine est destinée à un usage domestique.

Avertissement

Baby Lock et ses représentants ne sont en aucun cas juridiquement responsables des dommages causés à Pro-Stitcher lorsque cellle-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 Baby Lock.

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 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, saisir 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 Pro-Stitcher® Purchase

Baby Lock is proud to offer you user-friendly quilting machines and computer-guided machines with the latest technology and the best value for your money. 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 and tutorials.

Go to (www.babylock.com) for:

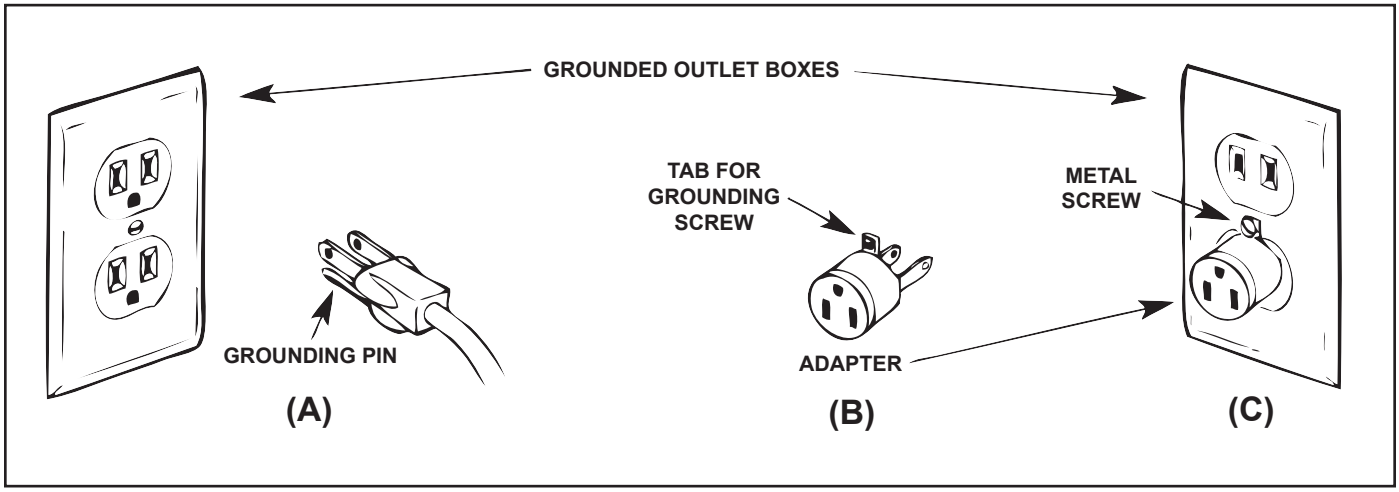
1. Updates to the Pro-Stitcher software *(provided FREE as long as you own your machine)*
2. A full-color version of this manual that can be downloaded and printed
3. Updates to this manual
4. Customer Support: www.babylock.com/support

Machine Packaging Information

Keep the carton and packing materials. You will need them in the event that you need to return the machine to Baby Lock retailer 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. Baby Lock is not liable for damage that occurs during return shipping.

Optional U.S. Grounding



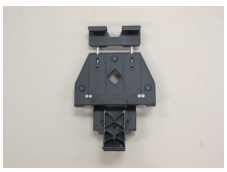
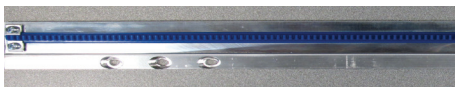
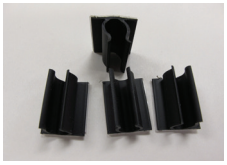
This product is for use on a nominal 120 V or nominal 220 V circuit, and has a grounding plug that looks like the plug illustrated in sketch A above. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in 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.

Pro-Stitcher Parts List for Baby Lock Crown Jewel

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

Item	Quantity	Photo
A. Blue X-axis Flexirack (10 feet)	1	
B. X-axis Flexirack clamps and screws	4	
C. 3/32-inch drill bit	1	

Item	Quantity	Photo
D. Emergency base-plate repair kit	1	
E. Pro-Stitcher Carriage	1	
F. Computer bracket	1	
G. Y-encoder circuit board	1	
H. Y-axis mounting bracket assembly	1	
I. Power cord assembly	1	
I-1. 10-foot power cord		
I-2. 2-foot power cord (quilting machine to carriage)		
I-3. 2-foot power cord (wall to filter box)		
I-4. Power filter box		
J. Adhesive cable mounting clips	4	
K. USB flash drive	1	

Item	Quantity	Photo
L. Art & Stitch software	1	
M. USB cable	1	
N. Computer power cord	1	
O. Manual engagement/disengagement tool	1	
P. Harness cable	1	
Q. Pro-Stitcher tablet computer	1	

> **NOTE**: The model of the Pro-Stitcher tablet computer may be different from the one pictured.

Installation

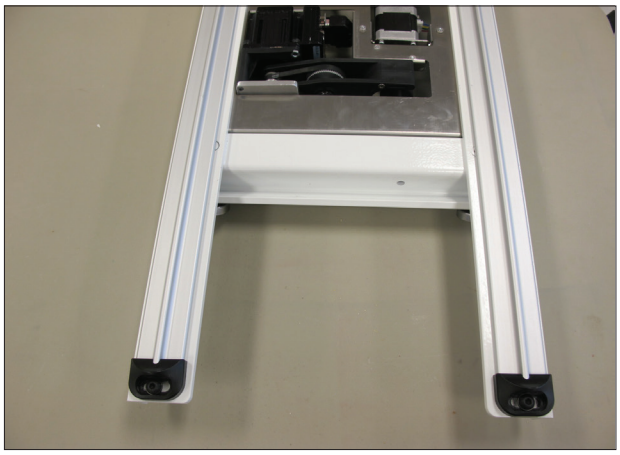
Tools required

- 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

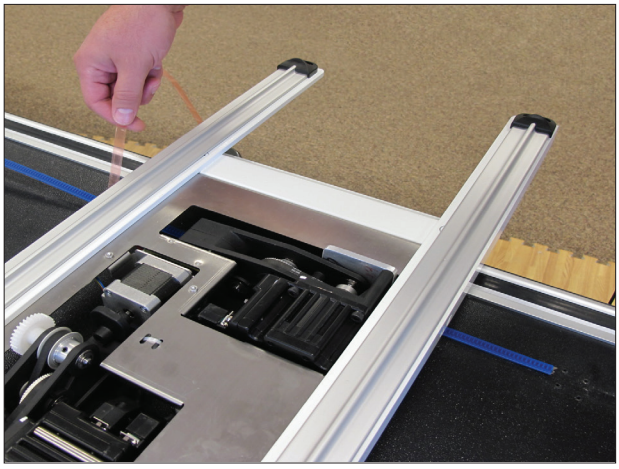
To install the X-Rack

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.

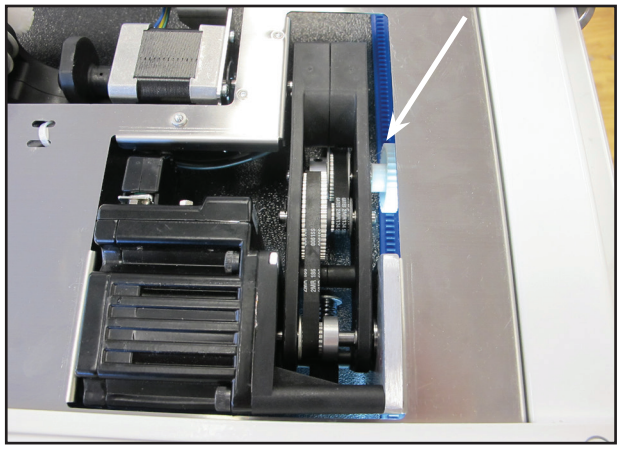


2. Place the Pro-Stitcher carriage on the frame. Starting at one end of the table, begin mounting the blue Flexirack to the front of the table while aligning it to the front white gear on the carriage.

   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.

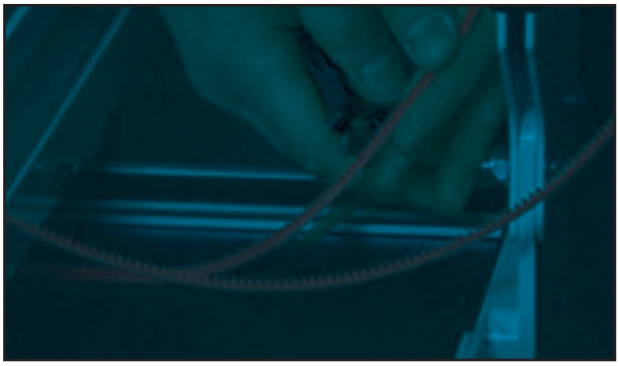


3. Use the carriage as a guide and align the blue Flexirack with the white gear along the length of the table (see arrow at right), removing the pink protective layer and pressing downward on the blue Flexirack while moving down the entire length of the table.

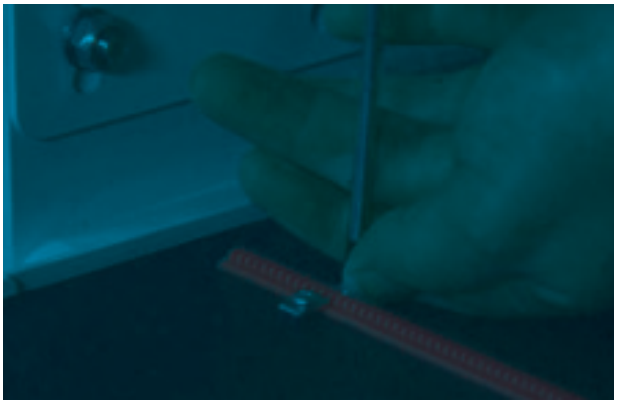


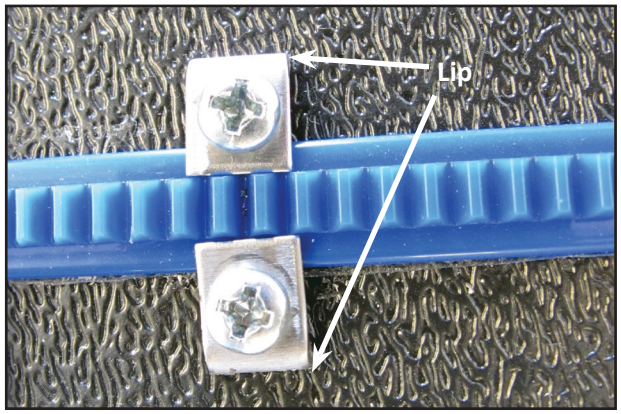
4. Double check the alignment of the carriage white gear with the blue Flexirack by rolling the carriage along the entire length of the table.

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*] if your machine had no screws here).

   △ **CAUTION**: Be careful not to over-tighten the screws s 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.

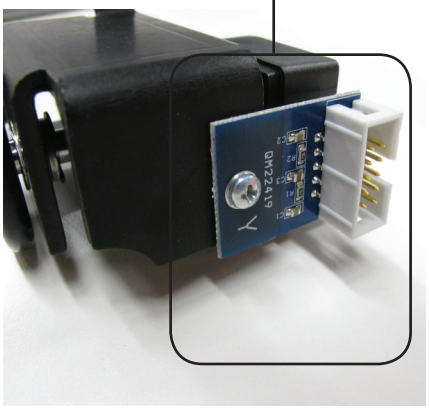
Y-encoder circuit board replacement

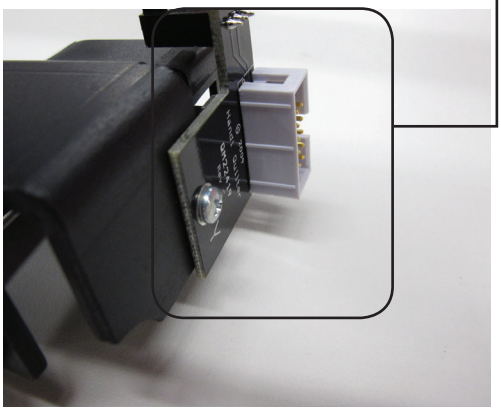
➲ **IMPORTANT**: This step is required *only* if the circuit board on the Y-encoder is blue. If the Y-encoder has a black circuit board, skip ahead to the next step.

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.

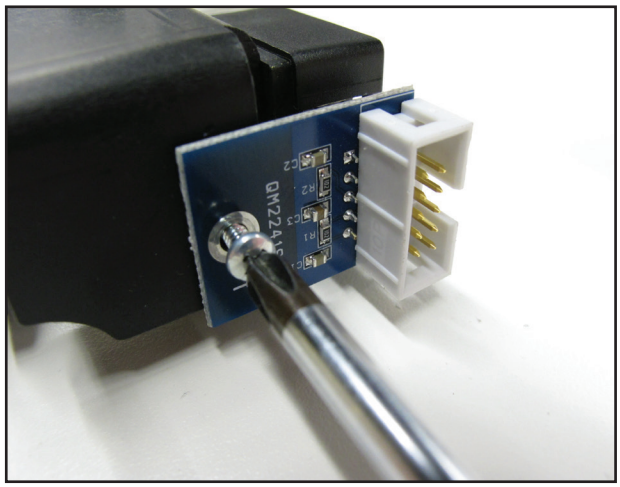




To replace the Y-encoder

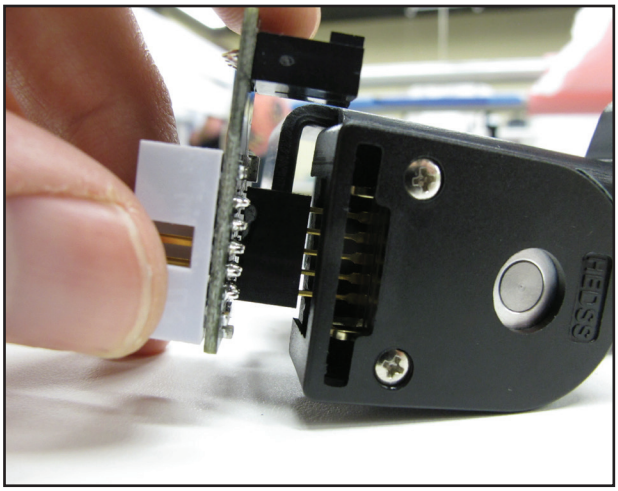
1. Unplug the stitch regulator cable from the Y-encoder.

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.



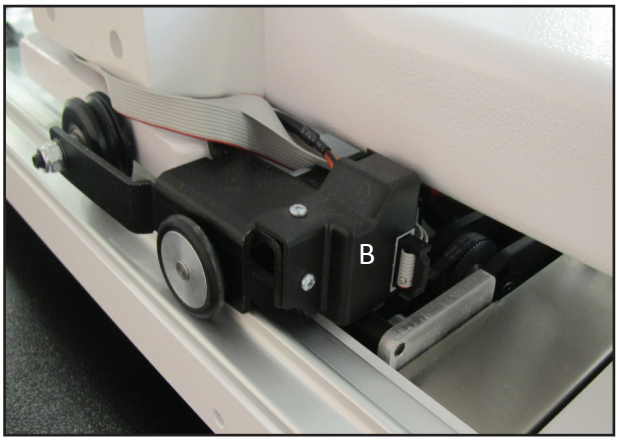
5. Replace the Phillips screw.

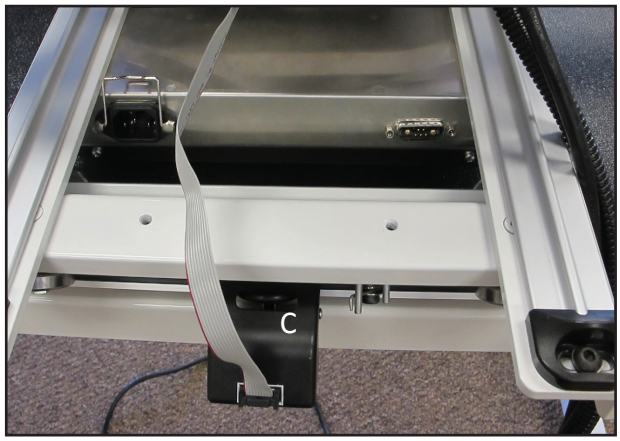
6. Plug the stitch regulator cable into the new Y-encoder circuit board.

To set up the Pro-Stitcher carriage

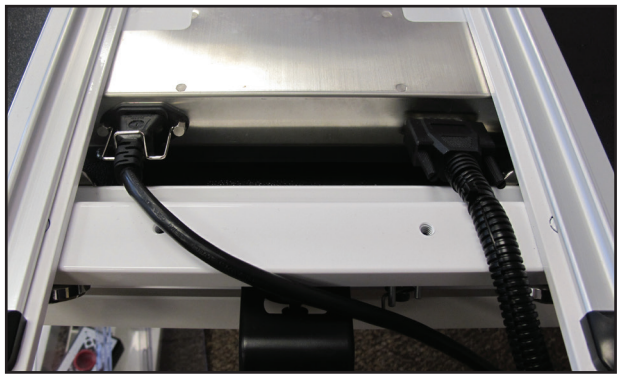
1. Place the Pro-Stitcher carriage on the frame system with the connectors toward the back of the frame. Carefully lift the quilting machine and place it on the carriage so the wheels engage the aluminum carriage tracks, making sure not to set the wheels on top of the stitch regulator cable. This is 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 (A, right) and the middle connector plugged into the quilting machine's Y-encoder (B, below), plug the other end of the cable into the carriage X-encoder (C, lower right).



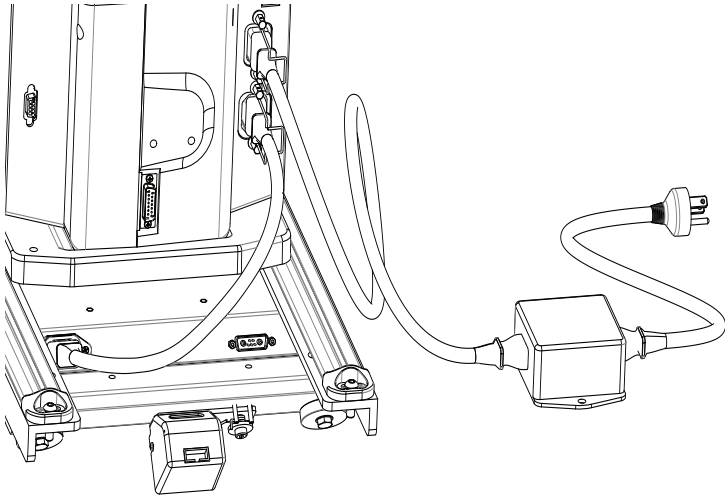


3. Attach one end of the harness cable (*see Parts List, item P*) into the connector on the right side of the power supply. Tighten the side screws. You will plug the other ends to the bracket as part of step 5 when you attach the tablet computer.

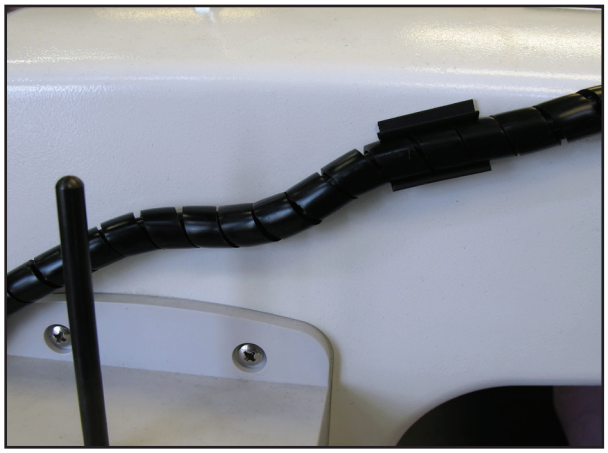


4. Connect one end of the two-foot power cord (*see Parts List, item I-2*) to the carriage power inlet and the other end into the quilting machine's P-pod lower power outlet.

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.

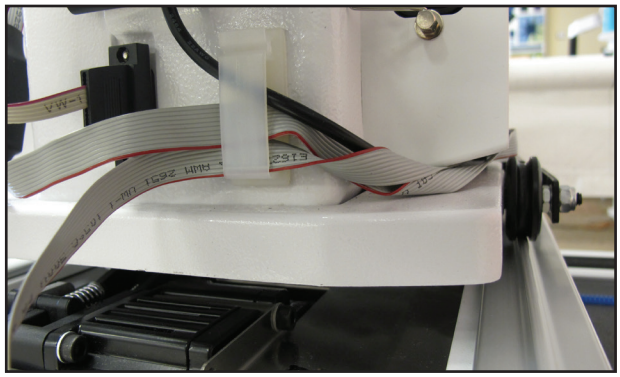


6. The black cables attached to the Pro-Stitcher carriage should be routed up between the rear handles and the quilting machine, toward the right-hand side of the machine (looking at the machine from the back). Attach the cable clips (*see Parts List, item J*) and route the cable accordingly. Plug the other end of the power cord into the back of the quilting machine.



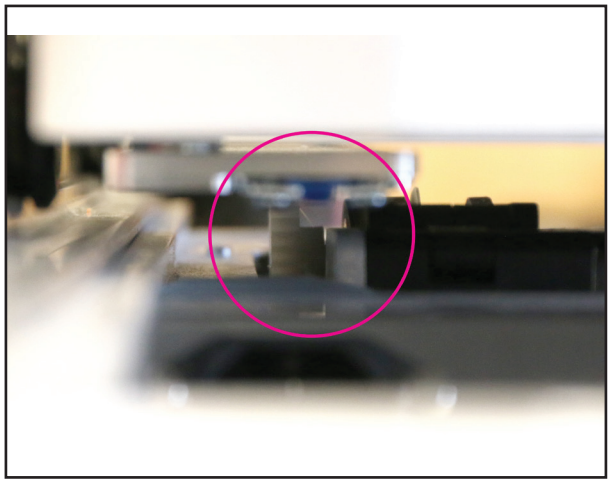
7. The small black cable with the black 3-connector clip should be routed underneath the P-Pod and snapped into the quilting machine's Y-encoder.

   The 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.



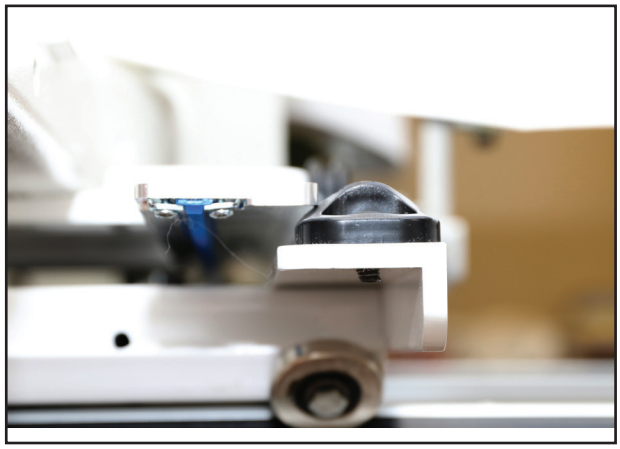
8. Once again verify that the y-axis gear engages the blue Flexirack for the y-axis.

   - 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/diseangagement 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 Pro-Stitcher Carriage.

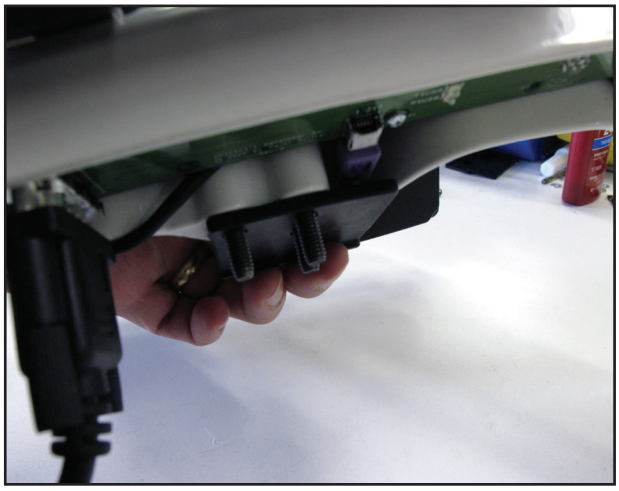
9. With the power cable unplugged and the motors in the engaged position (use the manual engagement/disengagement tool if necessary), ensure that as the quilting machine is moved in both the X and the Y directions, the corresponding gears are rotating as well.

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.

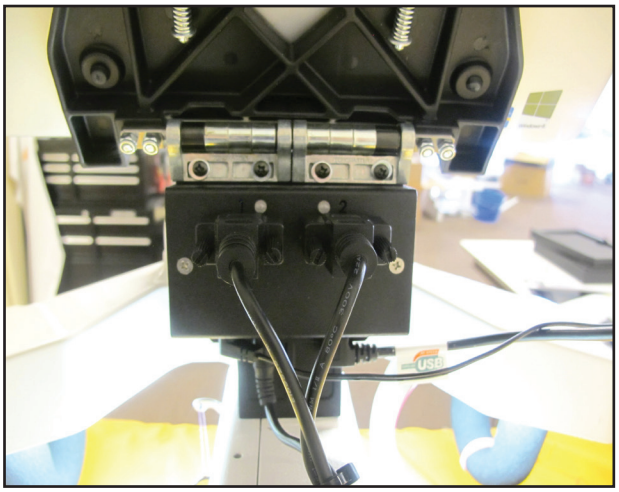


3. Position the handlebar over the computer bracket such that the screws go through the three holes in the bracket.

4. Secure the handlebar and bracket in place on the machine head using the three handlebar bolts.

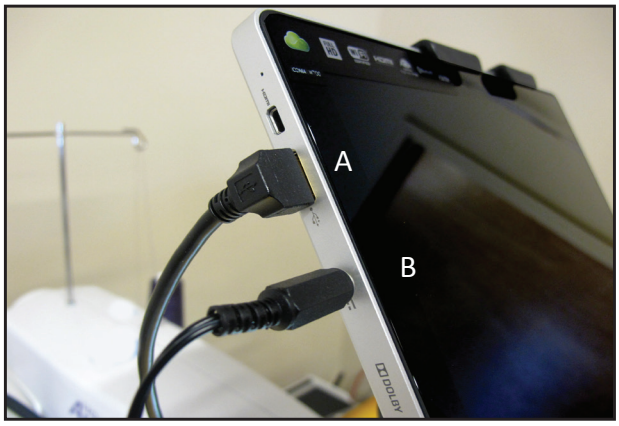
5. The black cable has three connections – two 9-pin serial connectors and one barrel connector for power.

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.

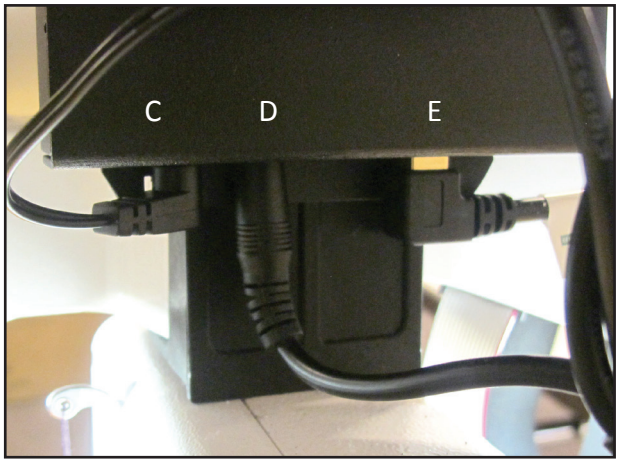


6. Remove the computer from its packaging. Install the computer into the computer bracket by sliding it into the black bracket from the side.

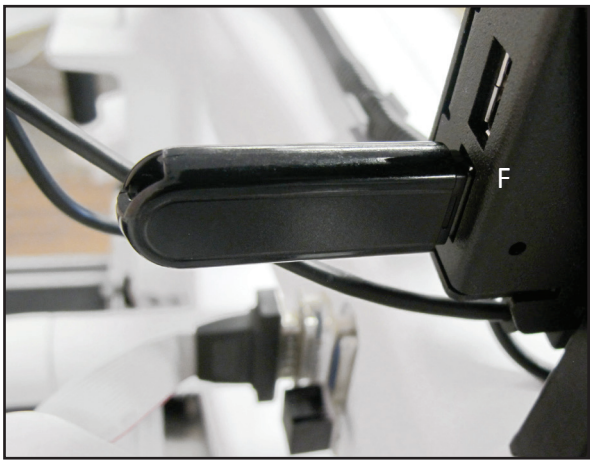
7. With the computer installed in the bracket, connect the USB short cable *(see Parts List, item M)* between the USB port, on the top-left side of the computer (position A) and the black box on the back of the bracket (position E).



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.

To turn on and shut down 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 Pro-Stitcher

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

To shut down 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.

➲ **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.

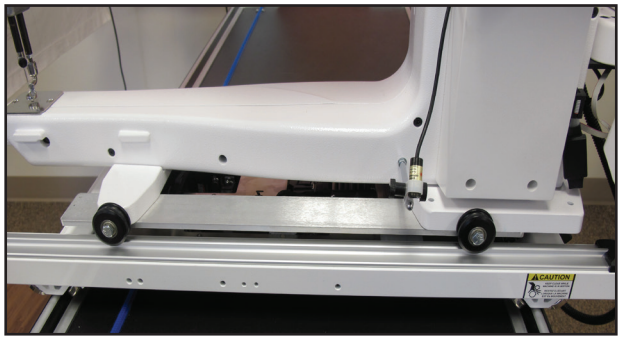
➲ **IMPORTANT**: Disable the auto-rotate feature for your tablet computer so that it only works in landscape, or horizontal, mode. Depending on your computer, you will do this by pressing a button on the top or side of the tablet computer or by using the Microsoft Windows Control Panel Display options.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

Getting started with 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 a Pro-Stitcher carriage without levers



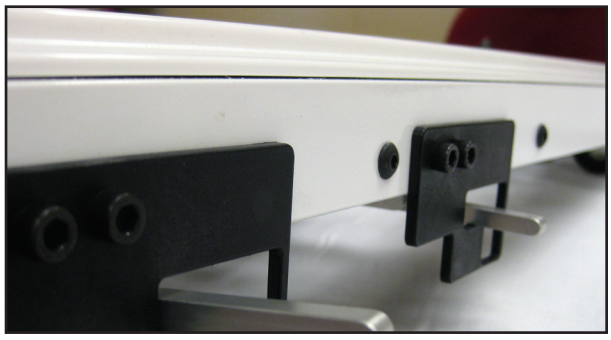
Use the options on the Freehand screen to alternate between computerized quilting and free-motion quilting.

- 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 Pro-Stitcher 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.



Move the levers to the down position to use Pro-Stitcher.

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.

Plug the USB flash drive into one of the USB ports on the left side of the black box mounted behind the Pro-Stitcher computer.

➲ **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.

Pro-Stitcher®
PREMIUM

baby lock

FOR THE LOVE OF SEWING